
AEROSPACE TOOLING

CATALOGUE

Manufacturing / Assembly / Maintenance



DRILLING



RIVETING



MEASUREMENT

Serving the Aerospace Manufacturing & Aviation Maintenance Industries



Tools for aerospace work

AVITORQ brings together tools and accessories for aerospace production, assembly, inspection and aviation maintenance. Use this catalogue to select tooling by application, capacity, size and access requirements.

Drilling & cutting

Air drills, bits, reamers, countersinks and hole saws.

Riveting & fastening

Rivet guns, squeezers, blind riveters and installation tools.

Assembly & forming

Torque tools, screwdrivers, clamps and sheet metal equipment.

Inspection & workshop

Measuring instruments, abrasives, hand tools and shop equipment.

Requesting a quotation

Quote the AVT part number, quantity and required size or option. Include the application, delivery location and any calibration or documentation requirements. Availability, lead time, freight, payment and warranty terms are confirmed on the quotation.

Ordering families with size suffixes

Where a chart lists a part-number prefix, append the size suffix shown in that chart. AVT references are catalogue ordering codes. Named manufacturers and product markings identify the source products.

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AIR DRILLS & ACCESSORIES

Sioux® Mini Air Drills



High Power To Weight Ratio

Updated Design

- Contoured three finger grip & integrated finger rest.
- Precision spindle & chuck, with three planet gear set for longer life.
- Drop-in motor for ease of service.
- 1/4" keyed chuck included, except AVT-0005, AVT-0006 (1/4", 3/8" keyless chuck included).

AVT-0001

Note: All models: Air Inlet 1/4" NPT. 3/8"-24 spindle thread.

1/4" Capacity - 0.4 hp (0.30 kW) - Non-Reversible			
Part Number	Free RPM	Overall Length	Weight
AVT-0001	2600	5-1/2" (140 mm)	1.6 lbs (0.7 kgs)

1/4" Capacity - 0.4 hp (0.30 kW) - Reversible			
Part Number	Free RPM	Overall Length	Weight
AVT-0003	2400	5-3/4" (146 mm)	1.6 lbs (0.7 kgs)



AVT-0006

Other Models Available, Please Inquire

1/4" Capacity - 0.4 hp (0.30 kW) - Keyless Non-Reversible			
Part Number	Free RPM	Overall Length	Weight
AVT-0005	2600	5-1/2" (140 mm)	1.6 lbs (0.7 kgs)

3/8" Capacity - 0.4 hp (0.30 kW) - Keyless Non-Reversible			
Part Number	Free RPM	Overall Length	Weight
AVT-0006	2600	5-1/2" (140 mm)	1.6 lbs (0.7 kgs)

AVT-0007



Updated Design



Lever Grip, 1/4" Capacity - 0.33 hp (0.25 kW) - Non-Reversible			
Part Number	Free RPM	Overall Length	Weight
AVT-0007	3600	7-3/8" (190 mm)	1.8 lbs (0.8 kgs)

Chicago Pneumatic® Mini Air Drills

New Composite Housing

Includes Jacobs® Keyed Chuck

Low Speed Gear Box

AVT-0002



Handle Exhaust



- New composite housing with thermoplastic rubber grip.
- Large teasing trigger & progressive valve allows more control.
- Left and right wings to guide the forefinger.
- Flat back for better pushing action while drilling and tapping.
- Excellent for drilling, honing, reaming and hole sawing.

1/4" Capacity - 0.3 hp (0.22 kW) - Non-Reversible			
Part Number	Free RPM	Overall Length	Weight
AVT-0002	3300	6-3/4" (170 mm)	1.4 lbs (0.6 kgs)



AVT-0004

Other Models Available, Please Inquire

1/4" Capacity - 0.3 hp (0.22 kW) - Reversible			
Part Number	Free RPM	Overall Length	Weight
AVT-0004	2800	7-5/16" (186 mm)	1.5 lbs (0.7 kgs)

Note: All models: Air Inlet 1/4" NPT. 3/8"-24 spindle thread.



For Angle Drills See Pages 16-18

APEX® Ergonomic Air Drills



- Dramatically redesigned ergonomics promote operator comfort.
- Perfect for tight quarters and cramped spaces.
- Includes keyed chuck.
- Many other models & options available, please inquire.

AVT-0009

Note: Air Inlet 1/4" NPT. 3/8"-24 spindle thread.

1/4" Capacity - 0.4 hp (0.30 kW) - Non-Reversible			
Part Number	Free RPM	Overall Length	Weight
AVT-0009	3200	5-3/4" (146 mm)	1.5 lbs (0.7 kgs)

JET® R6 Series Air Drill



Reversible

- Lightweight aluminum construction.
- Side mounted forward-reverse switch.
- Includes keyed chuck.

Note: Air Inlet 1/4" NPT. 3/8"-24 spindle thread.

3/8" Capacity - 0.5 hp (0.37 kW) - Reversible			
Part Number	Free RPM	Overall Length	Weight
AVT-0014	2000	7-3/16" (183 mm)	2.5 lbs (1.1 kgs)

Sioux® Aviation Air Drills



AVT-0019

Precision Signature Series Drills

- Lightweight aluminum housing with ergonomic handle & soft textured grip.
- Three planet gear system for increased life & load capacity.
- With teasing throttle & keyed chuck.

Note: Air Inlet 1/4" NPT. 3/8"-24 spindle thread.

1/4" Capacity - 0.6 hp (0.45 kW) - Non-Reversible			
Part Number	Free RPM	Overall Length	Weight
AVT-0019	2600	5-3/4" (146 mm)	2.1 lbs (0.95 kgs)

3/8" Capacity - 0.6 hp (0.45 kW) - Non-Reversible			
Part Number	Free RPM	Overall Length	Weight
AVT-0021	2600	6-1/4" (159 mm)	2.3 lbs (1.0 kgs)

Desoutter® Composite Grip Air Drills



AVT-0013

- Composite pistol grip construction for enhanced operator comfort.
- Powered with a 0.5 HP oil-free "dryline" modular motor.
- Teasing throttle & integral exhaust.

Updated Design

Note: Air Inlet 1/4" NPT. 3/8"-24 spindle thread.

5/16" Capacity - 0.5 hp (0.35 kW) - Non-Reversible			
Part Number	Free RPM	Overall Length	Weight
AVT-0008	20,000	4-3/4" (120 mm)	1.4 lbs (0.62 kgs)
AVT-0010	4500	5-3/8" (136 mm)	1.4 lbs (0.62 kgs)
AVT-0011	3000	7" (178 mm)	1.4 lbs (0.62 kgs)

3/8" Capacity - 0.5 hp (0.35 kW) - Non-Reversible, Side Handle Incl.			
Part Number	Free RPM	Overall Length	Weight
AVT-0012	1000	8-1/8" (206 mm)	1.5 lbs (0.70 kgs)
AVT-0013	550	8-1/8" (206 mm)	1.7 lbs (0.79 kgs)

Cleco® Variable Speed Air Drills



Versatile Governed Speed Control

Includes Keyed Chuck

- Calibrated dial on rear of tool simplifies drill speed selection.
- Choice of three governed speed models to match material.

Note: Air Inlet 1/4" NPT. 3/8"-24 spindle thread.

AVT-0016

3/8" Capacity - 0.7 hp (0.52 kW) - Non-Reversible				
Part Number	Free RPM	Governed RPM	O.A.L.	Weight
AVT-0015	600	150 To 550	9-5/8" (244 mm)	3.625 lbs (1.6 kgs)
AVT-0016	1250	400 To 1,200	9-1/4" (235 mm)	3.375 lbs (1.5 kgs)
AVT-0017	2600	700 To 2,400	8-1/2" (216 mm)	3.125 lbs (1.4 kgs)

1/2" Capacity - 0.7 hp (0.52 kW) - Non-Reversible, Side Handle Incl.				
Part Number	Free RPM	Governed RPM	O.A.L.	Weight
AVT-0018	600	150 To 550	9-5/8" (244 mm)	3.625 lbs (1.6 kgs)
AVT-0020	1250	400 To 1,200	9-1/4" (235 mm)	3.375 lbs (1.5 kgs)

Part Number	Description
AVT-0022	Side Handle (included with 1/2" capacity drills)

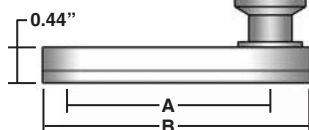
AIR DRILLS & ACCESSORIES

AVITORQ Offset 'Pancake' Air Drills

*Smooth,
Quiet
Operation*

- Steel alloy cylinder & rotor.
- 1/4"-28 female thread.
- Full 360° rotating offset head great for limited access areas.

*Feather Trigger For
Precise Control*



AVT-0030

Note: Air inlet 1/4" NPT.
Uses threaded shank drills available on pages 20-21.

1/4" Capacity - 0.3 hp (0.22 kW) - Non-Reversible

Part Number	Free RPM	Shaft Offset (A)	Offset Length (B)	Overall Length	Weight
AVT-0029	3000	2.49"	3.34"	7" (178 mm)	2.0 lbs (0.91 kgs)
AVT-0030	3000	3.83"	4.88"	7" (178 mm)	2.1 lbs (0.95 kgs)
AVT-0031	3000	5.18"	6.23"	7" (178 mm)	2.3 lbs (1.04 kgs)

AVITORQ Economy Mini Air Drill

Economically Priced

- Compact & lightweight.
- Teasing throttle.
- Includes keyed chuck.

Note: Air inlet 1/4" NPT.

1/4" Capacity - 0.3 hp (0.22 kW) - Non-Reversible

Part Number	Free RPM	Overall Length	Weight
AVT-0040	3000	6-1/4" (159 mm)	1.5 lbs (0.7 kgs)

Threaded Shank Drill Adapters

Great For Cordless Drills

Allows a chucked drill to accept threaded shank bits.



Part Number	Shank	Thread
AVT-0041	1/4" Hex	1/4"-28
AVT-0043	1/4" Hex	10-32

Jacobs® Plain Bearing Chucks & Chuck Keys

*O.E.M. Standard For
Accuracy & Durability*



AVT-0025

Part Number	Ref. Number	Capacity	Mount Thread	Key Number	Style
AVT-0023	0	5/32"	0 JT	K0	Smooth
AVT-0024	1B	1/4"	3/8-24	K1	Smooth
AVT-0025	7BA	1/4"	3/8-24	K7	Fluted
AVT-0026	41BA	3/8"	3/8-24	K30	Fluted
AVT-0027	33BA-3/8	1/2"	3/8-24	K32	Fluted
AVT-0028	33BA-1/2	1/2"	1/2-20	K32	Fluted



AVT-0034



AVT-0035

Chuck Keys

Soft steel handles limit potential for fracturing under excessive load.

'T' Handle Keys		
Part No.	Model	Pilot Size
AVT-0032	K0	1/8"
AVT-0034	K1	5/32"

Thumb Handle Keys		
Part No.	Model	Pilot Size
AVT-0033	K7	7/32"
AVT-0035	K30	15/64"
AVT-0036	K32	1/4"

Jacobs® Hand-Tite Keyless Drilling Chucks

Ergonomic Design

- Keyless operation.
- Superior gripping force.



AVT-0037

Part Number	Capacity Range	Mount Thread
AVT-0037	3/64" to 3/8"	3/8"-24
AVT-0038	1/16" to 1/2"	1/2"-20
AVT-0039	1/16" to 1/2"	3/8"-24

Keyless Impact Chucks

Square Drive, Keyless Design

Transform your impact wrench into an efficient drilling tool with superior holding power.



AVT-0042

Note: For use with standard impact tools, see page 135-136.

Part Number	Capacity	Sq. Drive Mount	O.A.L. (open)
AVT-0042	3/32" to 3/8"	3/8"	2-3/32" (53 mm)
AVT-0044	1/8" to 1/2"	1/2"	2-5/8" (67 mm)

Heavy-Duty Keyless Chucks

All Steel Construction



AVT-0045

Works with reversible and non-reversible drills.

Part Number	Capacity Range	Mount Thread
AVT-0045	0 - 1/4"	3/8"-24
AVT-0046	0 - 3/8"	3/8"-24
AVT-0047	1/16" - 1/2"	3/8"-24

Micro Drill Chuck

- Used with very small dia. drills in a drill press or handheld tool.
- Grips firmly and accurately in sizes as small as a human hair.
- Can be held in any 1/8" or 3/16" collet or larger adj. drill chuck.

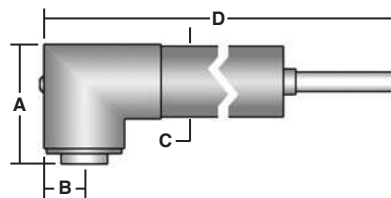


Part Number	Accepts Drill Sizes
AVT-0049	#60 to #80 Wire Gauge

AVITORQ Angle Drill Attachments



AVT-0051



Quickly Connect To Any Drill Chuck

Convenient & inexpensive close quarter drilling tools.

90° Angle Head, 1/4" Capacity, 1/4"-28 Thread				
Part Number	Head Height (A)	Side To Center (B)	Diameter (C)	Overall Length (D)
AVT-0051	1-9/32" (33 mm)	1-1/4" (32 mm)	3/4" (19 mm)	7-1/8" (181 mm)



AVT-0053

90° Mini Angle Head, 5/32" Capacity, 10-32 Thread				
Part Number	Head Height (A)	Side To Center (B)	Diameter (C)	Overall Length (D)
AVT-0053	1-3/16" (30 mm)	0.212" (5 mm)	1/2" (13 mm)	6" (155 mm)



AVT-0054

45° Angle Head, 1/4" Capacity, 1/4"-28 Thread				
Part Number	Head Height (A)	Side To Center (B)	Diameter (C)	Overall Length (D)
AVT-0054	1-3/16" (30 mm)	0.400" (10 mm)	3/4" (19 mm)	7-1/2" (191 mm)

AVITORQ Angle Drill Attachments (cont'd)



AVT-0048

Includes Adapter, 1/4" Chuck & Chuck Key

90° Angle Head With Keyed Chuck, 5/32" Capacity				
Part Number	Head Height (A)	Side To Center (B)	Diameter (C)	Overall Length (D)
AVT-0048	2-7/16" (62 mm)	0.425" (11 mm)	3/4" (19 mm)	7-1/8" (181 mm)



AVT-0050

Locks In Any Position

Note: Shaft offset: 1-7/16" (37 mm).

360° Rotating Offset Head, 1/4" Capacity, 1/4"-28 Thread				
Part Number	Head Height (A)	Side To Center (B)	Diameter (C)	Overall Length (D)
AVT-0050	1-1/4" (32 mm)	0.384" (10 mm)	3/4" (19 mm)	7-5/8" (194 mm)

AVITORQ Angle Drill Attachment Kit



Kit Includes:

Angle Drill Attachment (AVT-0051), Threaded Shank Drill Bits (1 each #40, #30, #21 & #10), Gear Lubricator, Gear Lube, Wrench, Repair Parts List & Plastic Kit Box (not shown)

Part Number	Description
AVT-0052	Complete 9 PC Kit

Socket Drive Angle Drill Attachment

Versatile



Fits any 1/4" square drive ratchet or wrench.

Note: Chart references angle attachment illustration shown above left.

90° Angle Head, 1/4" Square Drive				
Part Number	Head Height (A)	Side To Center (B)	Diameter (C)	Overall Length (D)
AVT-0055	1.60" (41 mm)	1-3/8" (35 mm)	3/4" (19 mm)	7" (178 mm)

AIR DRILLS & ACCESSORIES

360° Snake Drill Attachment

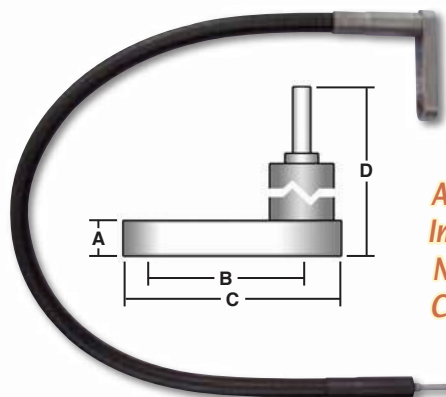


- Angle head rotates a full 360° & can be locked in any position.
- 20-M3 chuck (accepts straight shank drills).
- Includes wrenches & allen key.

Note: Chart references snake attachment illustration shown below.

360° Adjustable Angle Head, 1/4" Capacity, 1/4"-28 Thread				
Part Number	Head Height (A)	Side To Center (B)	Diameter (C)	Overall Length (D)
AVT-0056	3" (76 mm)	0.385" (10 mm)	0.608" (15 mm)	30" (76 cm)

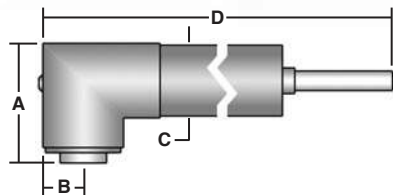
AVITORQ Offset 'Pancake' Snake Drill Att.



*Allows Access
In Tight Areas
Normal Drills
Cannot Reach*

Flat Offset Head, 1/4" Capacity, 1/4"-28 Thread				
Part Number	Head Height (A)	Side To Center (B)	Diameter (C)	Overall Length (D)
AVT-0057	7/16" (11 mm)	2-5/16" (59 mm)	3-3/16" (81 mm)	30" (76 cm)

AVITORQ Snake Drill Attachments



*Excellent Drilling
Solutions For Hard
To Reach Areas*

90° Angle Head, 1/4" Capacity, 1/4"-28 Thread				
Part Number	Head Height (A)	Side To Center (B)	Diameter (C)	Overall Length (D)
AVT-0059	1-9/32" (33 mm)	0.384" (10 mm)	3/4" (19 mm)	30" (76 cm)

90° Mini Angle Head, 5/16" Capacity, 10-32 Thread				
Part Number	Head Height (A)	Side To Center (B)	Diameter (C)	Overall Length (D)
AVT-0061	15/16" (24 mm)	0.275" (7 mm)	11/16" (18 mm)	22" (56 cm)

90° Angle Head With Jacobs Chuck, 1/4" Capacity				
Part Number	Head Height (A)	Side To Center (B)	Diameter (C)	Overall Length (D)
AVT-0063	2-7/8" (73 mm)	0.565" (14 mm)	3/4" (19 mm)	30" (76 cm)

Straight Head With Jacobs Chuck, 1/4" Capacity				
Part Number	Head Height (A)	Side To Center (B)	Diameter (C)	Overall Length (D)
AVT-0058	—	0.565" (14 mm)	5/8" (16 mm)	30" (76 cm)

45° Angle Head, 1/4" Capacity, 1/4"-28 Thread				
Part Number	Head Height (A)	Side To Center (B)	Diameter (C)	Overall Length (D)
AVT-0060	1-3/16" (30 mm)	0.400" (10 mm)	3/4" (19 mm)	30" (76 cm)

360° Adjustable Angle Head, 1/4" Capacity, 1/4"-28 Thread				
Part Number	Head Height (A)	Side To Center (B)	Diameter (C)	Overall Length (D)
AVT-0062	1-1/4" (32 mm)	0.384" (10 mm)	3/4" (19 mm)	30" (76 cm)

Straight Head, 5/16" Capacity, 1/4"-28 Thread				
Part Number	Head Height (A)	Side To Center (B)	Diameter (C)	Overall Length (D)
AVT-0064	11/16" (18 mm)	5/8" (16 mm)	11/16" (18 mm)	22" (56 cm)

Drill Attachment Conversion Assembly

- Convert any angle or snake drill attachment to keyed chuck mode.
- Includes 1/4"-28 threaded adapter, 5/32" capacity chuck & chuck key.



Part Number	Diameter	Side To Center	Overall Length
AVT-0065	0.85" (21.6 mm)	0.45" (11.4 mm)	1.65" (42 mm)

Thin Offset Angle Drill Attachments

- Hardened and ground bearings & support shafts provide longer tool life.
- 1/4"-28 thread standard.



Straight - 3/8" Offset Thickness (A)			
Part No.	Shaft Offset (B)	Offset Length (C)	Overall Length (D)
AVT-0070	2-7/16" (62 mm)	3-3/16" (81 mm)	1-1/8" (29 mm)
AVT-0071	2-7/16" (62 mm)	3-3/16" (81 mm)	4-9/16" (116 mm)
AVT-0072	3-3/4" (95 mm)	4-1/2" (114 mm)	1-1/8" (29 mm)
AVT-0073	3-3/4" (95 mm)	4-1/2" (114 mm)	4-9/16" (116 mm)

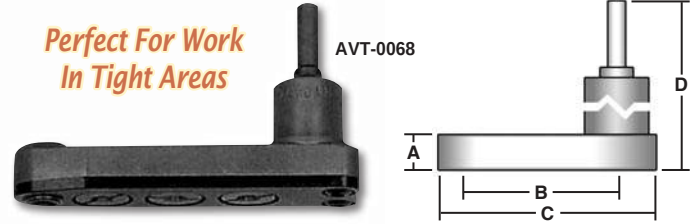
30° Offset - 3/8" Offset Thickness (A)			
Part No.	Shaft Offset (B)	Offset Length (C)	Overall Length (D)
AVT-0075	3-1/8" R (79 mm)	4" (102 mm)	4-9/16" (116 mm)
AVT-0076	3-1/8" L (79 mm)	4" (102 mm)	4-9/16" (116 mm)

Straight - 1/4" Offset Thickness (A)			
Part No.	Shaft Offset (B)	Offset Length (C)	Overall Length (D)
AVT-0077	2-7/16" (62 mm)	3-3/16" (81 mm)	11/16" (18 mm)
AVT-0079	2-7/16" (62 mm)	3-3/16" (81 mm)	5-3/16" (132 mm)
AVT-0080	3-3/4" (95 mm)	4-1/2" (114 mm)	11/16" (18 mm)
AVT-0081	3-3/4" (95 mm)	4-1/2" (114 mm)	5-3/16" (132 mm)

30° Offset - 0.290" Offset Thickness (A)			
Part No.	Shaft Offset (B)	Offset Length (C)	Overall Length (D)
AVT-0086	Right	4" (102 mm)	4-5/16" (110 mm)
AVT-0089	Left	4" (102 mm)	4-5/16" (110 mm)

Flat Offset Angle Drill Attachments

Perfect For Work
In Tight Areas



Note: 1/4"-28 thread standard. Also available with 10-32 thread, please inquire.

1/8" Capacity - 1/4" Offset Thickness (A)			
Part No.	Shaft Offset (B)	Offset Length (C)	Overall Length (D)
AVT-0066	3/4" (19 mm)	1-1/2" (38 mm)	5-5/8" (143 mm)

1/4" Capacity - 7/16" Offset Thickness (A)			
Part No.	Shaft Offset (B)	Offset Length (C)	Overall Length (D)
AVT-0067	1-5/32" (29 mm)	2-3/16" (56 mm)	6-1/2" (165 mm)
AVT-0068	2-5/16" (59 mm)	3-3/16" (81 mm)	2" (51 mm)
AVT-0069	2-5/16" (59 mm)	3-3/16" (81 mm)	6-5/8" (168 mm)

AVITORQ Rivet Removal Tools

Essential For
Repair Work



- Adjustable drill-out assembly limits penetration to rivet, not beyond.
- Solid aluminum construction.

Standard Rivet Removal Tool	
Part Number	Description
AVT-0074	Tool, Guides & 4 Bits (#10, #21, #30 & #40)

Blind Rivet Removal Tool

- Serrated end cup prevents slippage while drilling rivets.
- For POP, Adel, Cherry blind rivets etc.
- Not for use with steel stemmed blind rivets.

Blind Rivet Removal Tool	
Part Number	Description
AVT-0078	Tool, Guides & 4 Bits (3/32", 1/8", 5/32" & 3/16")

Replacement Bits	
Part Number	Description
AVT-0082	#10
AVT-0084	#21
AVT-0087	#30
AVT-0090	#40

Replacement Bits	
Part Number	Description
AVT-0083	3/32"
AVT-0085	1/8"
AVT-0088	5/32"
AVT-0091	3/16"

AIR DRILLS & ACCESSORIES

Aircraft Quality Jobber's Length Drills



Made to NAS907 Specifications

Note: To order, select desired drill type (prefix) & add the desired drill size (suffix). **Example:** For a #30 H.S.S. (118° split point) drill, the number would be AVT-0092-30

Wire Gauge Part Number (Prefix)				AVT-0092	AVT-0093	AVT-0094	AVT-0095	AVT-0096	AVT-0097
Wire Gauge Size (Suffix)	Decimal Equivalent	Flute Length	Overall Length	H.S.S. (118° SP)	H.S.S. (135° SP)	Cobalt (135° SP)	TiN Coated (118° SP)	Carbide Tipped	Carbide (118° SP)
1	.2280"	2-5/8"	3-7/8"	*	*	*	*	*	*
2	.2210"	2-5/8"	3-7/8"	*	*	*	*	*	*
3	.2130"	2-1/2"	3-3/4"	*	*	*	*	*	*
4	.2090"	2-1/2"	3-3/4"	*	*	*	*	*	*
5	.2055"	2-1/2"	3-3/4"	*	*	*	*	*	*
6	.2040"	2-1/2"	3-3/4"	*	*	*	*	*	*
7	.2010"	2-7/16"	3-5/8"	*	*	*	*	*	*
8	.1990"	2-7/16"	3-5/8"	*	*	*	*	*	*
9	.1960"	2-7/16"	3-5/8"	*	*	*	*	*	*
10	.1935"	2-7/16"	3-5/8"	*	*	*	*	*	*
11	.1910"	2-5/16"	3-1/2"	*	*	*	*	*	*
12	.1890"	2-5/16"	3-1/2"	*	*	*	*	*	*
13	.1850"	2-5/16"	3-1/2"	*	*	*	*	*	*
14	.1820"	2-3/16"	3-3/8"	*	*	*	*	*	*
15	.1800"	2-3/16"	3-3/8"	*	*	*	*	*	*
16	.1770"	2-3/16"	3-3/8"	*	*	*	*	*	*
17	.1730"	2-3/16"	3-3/8"	*	*	*	*	*	*
18	.1695"	2-1/8"	3-1/4"	*	*	*	*	*	*
19	.1660"	2-1/8"	3-1/4"	*	*	*	*	*	*
20	.1610"	2-1/8"	3-1/4"	*	*	*	*	*	*
21	.1590"	2-1/8"	3-1/4"	*	*	*	*	*	*
22	.1570"	2"	3-1/8"	*	*	*	*	*	*
23	.1540"	2"	3-1/8"	*	*	*	*	*	*
24	.1520"	2"	3-1/8"	*	*	*	*	*	*
25	.1495"	1-7/8"	3"	*	*	*	*	*	*
26	.1470"	1-7/8"	3"	*	*	*	*	*	*
27	.1440"	1-7/8"	3"	*	*	*	*	*	*
28	.1405"	1-3/4"	2-7/8"	*	*	*	*	*	*
29	.1360"	1-3/4"	2-7/8"	*	*	*	*	*	*
30	.1285"	1-5/8"	2-3/4"	*	*	*	*	*	*
31	.1200"	1-5/8"	2-3/4"	*	*	*	*	*	*
32	.1160"	1-5/8"	2-3/4"	*	*	*	*	N/A	*
33	.1130"	1-1/2"	2-5/8"	*	*	*	*	N/A	*
34	.1110"	1-1/2"	2-5/8"	*	*	*	*	N/A	*
35	.1100"	1-1/2"	2-5/8"	*	*	*	*	N/A	*
36	.1065"	1-7/16"	2-1/2"	*	*	*	*	N/A	*
37	.1040"	1-7/16"	2-1/2"	*	*	*	*	N/A	*
38	.1015"	1-7/16"	2-1/2"	*	*	*	*	N/A	*
39	.0995"	1-3/8"	2-3/8"	*	*	*	*	N/A	*
40	.0980"	1-3/8"	2-3/8"	*	*	*	*	N/A	*
41	.0969"	1-3/8"	2-3/8"	*	*	*	*	N/A	*
42	.0935"	1-1/4"	2-1/4"	*	*	*	*	N/A	*
43	.0890"	1-1/4"	2-1/4"	*	*	*	*	N/A	*
44	.0860"	1-1/8"	2-1/8"	*	*	*	*	N/A	*
45	.0820"	1-1/8"	2-1/8"	*	*	*	*	N/A	*
46	.0810"	1-1/8"	2-1/8"	*	*	*	*	N/A	*
47	.0785"	1"	2"	*	*	*	*	N/A	*
48	.0760"	1"	2"	*	*	*	*	N/A	*
49	.0730"	1"	2"	*	*	*	*	N/A	*
50	.0700"	1"	2"	*	*	*	*	N/A	*
51	.0670"	1"	2"	*	*	*	*	N/A	*
52	.0635"	7/8"	1-7/8"	*	*	*	*	N/A	*
53	.0595"	7/8"	1-7/8"	N/A	N/A	*	*	N/A	*
54	.0550"	7/8"	1-7/8"	N/A	N/A	*	*	N/A	*
55	.0520"	7/8"	1-7/8"	N/A	N/A	*	*	N/A	*
56	.0465"	3/4"	1-3/4"	N/A	N/A	*	*	N/A	*
57	.0430"	3/4"	1-3/4"	N/A	N/A	*	*	N/A	*
58	.0420"	11/16"	1-5/8"	N/A	N/A	*	*	N/A	N/A
59	.0410"	11/16"	1-5/8"	N/A	N/A	*	*	N/A	N/A
60	.0400"	11/16"	1-5/8"	N/A	N/A	*	*	N/A	N/A

Aircraft Quality Jobber's Length Drills (cont'd)



Made to NAS907 Specifications

Note: To order, select desired drill type (prefix) & add the desired drill size (suffix). **Example:** For a 1/4" H.S.S. (118° split point) drill, the number would be AVT-1858

Fractional Part Number (Prefix)				AVT-0098	AVT-0099	AVT-0100	AVT-0101	AVT-0096	AVT-0097
Fractional Size (Suffix)	Decimal Equivalent	Flute Length	Overall Length	H.S.S. (118° SP)	H.S.S. (135° SP)	Cobalt (135° SP)	TiN Coated (118° SP)	Carbide Tipped	Carbide (118° SP)
1/16	.0625"	7/8"	1-7/8"	•	•	•	•	N/A	•
5/64	.0781"	1"	2"	•	•	•	•	N/A	•
3/32	.0938"	1-1/4"	2-1/4"	•	•	•	•	N/A	•
7/64	.1094"	1-1/2"	2-5/8"	•	•	•	•	N/A	•
1/8	.1250"	1-5/8"	2-3/4"	•	•	•	•	•	•
9/64	.1406"	1-3/4"	2-7/8"	•	•	•	•	•	•
5/32	.1562"	2"	3-1/8"	•	•	•	•	•	•
11/64	.1719"	2-1/8"	3-1/4"	•	•	•	•	•	•
3/16	.1875"	2-5/16"	3-1/2"	•	•	•	•	•	•
13/64	.2031"	2-7/16"	3-5/8"	•	•	•	•	•	•
7/32	.2188"	2-1/2"	3-3/4"	•	•	•	•	•	•
15/64	.2344"	2-5/8"	3-7/8"	•	•	•	•	•	•
1/4	.2500"	2-3/4"	4"	•	•	•	•	•	•
17/64	.2656"	2-7/8"	4-1/8"	•	•	•	•	•	•
9/32	.2812"	2-15/16"	4-1/4"	•	•	•	•	•	•
19/64	.2969"	3-1/16"	4-3/8"	•	•	•	•	•	•
5/16	.3125"	3-3/16"	4-1/2"	•	•	•	•	•	•
21/64	.3281"	3-5/16"	4-5/8"	•	•	•	•	•	•
11/32	.3438"	3-7/16"	4-3/4"	•	•	•	•	•	•
23/64	.3594"	3-1/2"	4-7/8"	•	•	•	•	•	•
3/8	.3750"	3-5/8"	5"	•	•	•	•	•	•
25/64	.3906"	3-3/4"	5-1/8"	•	•	•	•	•	•
13/32	.4062"	3-7/8"	5-1/4"	•	•	•	•	•	•
27/64	.4219"	3-15/16"	5-3/8"	•	•	•	•	•	•
7/16	.4375"	4-1/16"	5-1/2"	•	•	•	•	•	•
29/64	.4531"	4-3/16"	5-5/8"	•	•	•	•	•	•
15/32	.4688"	4-5/16"	5-3/4"	•	•	•	•	•	•
31/64	.4844"	4-3/8"	5-7/8"	•	•	•	•	•	•
1/2	.5000"	4-1/2"	6"	•	•	•	•	•	•

Letter Part Number (Prefix)				AVT-0102	AVT-0103	AVT-0104	AVT-0096	AVT-0097
Letter Size (Suffix)	Decimal Equivalent	Flute Length	Overall Length	H.S.S. (118° SP)	H.S.S. (135° SP)	Cobalt (135° SP)	Carbide Tipped	Carbide (118° SP)
A	.2340"	2-5/8"	3-7/8"	•	•	•	•	•
B	.2380"	2-3/4"	4"	•	•	•	•	•
C	.2420"	2-3/4"	4"	•	•	•	•	•
D	.2460"	2-3/4"	4"	•	•	•	•	•
E	.2500"	2-3/4"	4"	•	•	•	•	•
F	.2570"	2-7/8"	4-1/8"	•	•	•	•	•
G	.2610"	2-7/8"	4-1/8"	•	•	•	•	•
H	.2660"	2-7/8"	4-1/8"	•	•	•	•	•
I	.2720"	2-7/8"	4-1/8"	•	•	•	•	•
J	.2770"	2-7/8"	4-1/8"	•	•	•	•	•
K	.2810"	2-15/16"	4-1/4"	•	•	•	•	•
L	.2900"	2-15/16"	4-1/4"	•	•	•	•	•
M	.2950"	3-1/16"	4-3/8"	•	•	•	•	•
N	.3020"	3-1/16"	4-3/8"	•	•	•	•	•
O	.3160"	3-3/16"	4-1/2"	•	•	•	•	•
P	.3230"	3-5/16"	4-5/8"	•	•	•	•	•
Q	.3320"	3-7/16"	4-3/4"	•	•	•	•	•
R	.3390"	3-7/16"	4-3/4"	•	•	•	•	•
S	.3480"	3-1/2"	4-7/8"	•	•	•	•	•
T	.3580"	3-1/2"	4-7/8"	•	•	•	•	•
U	.3680"	3-5/8"	5"	•	•	•	•	•
V	.3770"	3-5/8"	5"	•	•	•	•	•
W	.3860"	3-3/4"	5-1/8"	•	•	•	•	•
X	.3970"	3-3/4"	5-1/8"	•	•	•	•	•
Y	.4040"	3-7/8"	5-1/4"	•	•	•	•	•
Z	.4130"	3-7/8"	5-1/4"	•	•	•	•	•

AIR DRILLS & ACCESSORIES

Aircraft Quality Jobber's Length Drills (cont'd)



Made to NAS907 Specifications

Note: To order, select desired drill type (prefix) & add the desired drill size (suffix). **Example:** For a 2.0mm H.S.S. (118° split point) drill, the number would be AVT-0105-2.00

Metric Part Number (Prefix)				AVT-0105	AVT-0106
Metric Size (Suffix)	Decimal Equivalent	Flute Length	Overall Length	H.S.S. (118° SP)	Cobalt (135°)
.35	.0138"	3 mm	19 mm	•	N/A
.40	.0158"	5 mm	20 mm	•	N/A
.45	.0177"	5 mm	20 mm	•	N/A
.50	.0197"	5 mm	22 mm	•	N/A
.55	.0217"	6 mm	24 mm	•	N/A
.60	.0236"	8 mm	24 mm	•	N/A
.65	.0256"	10 mm	26 mm	•	N/A
.70	.0276"	10 mm	28 mm	•	N/A
.75	.0295"	13 mm	28 mm	•	N/A
.80	.0315"	13 mm	30 mm	•	N/A
.85	.0335"	16 mm	30 mm	•	N/A
.90	.0354"	16 mm	32 mm	•	N/A
.95	.0374"	16 mm	32 mm	•	N/A
1.00	.0394"	17 mm	34 mm	•	•
1.05	.0413"	17 mm	34 mm	•	•
1.10	.0433"	19 mm	36 mm	•	•
1.15	.0453"	19 mm	36 mm	•	•
1.20	.0472"	22 mm	38 mm	•	•
1.25	.0492"	22 mm	38 mm	•	•
1.30	.0512"	22 mm	38 mm	•	•
1.35	.0531"	22 mm	40 mm	•	•
1.40	.0551"	22 mm	40 mm	•	•
1.45	.0571"	22 mm	40 mm	•	•
1.50	.0591"	22 mm	40 mm	•	•
1.55	.0610"	22 mm	43 mm	•	•
1.60	.0630"	22 mm	43 mm	•	•
1.65	.0650"	25 mm	43 mm	•	•
1.70	.0669"	25 mm	43 mm	•	•
1.75	.0689"	25 mm	46 mm	•	•
1.80	.0709"	25 mm	46 mm	•	•
1.85	.0728"	25 mm	46 mm	•	•
1.90	.0748"	25 mm	46 mm	•	•
1.95	.0768"	25 mm	49 mm	•	•
2.00	.0787"	25 mm	49 mm	•	•
2.05	.0807"	29 mm	49 mm	•	•
2.10	.0827"	29 mm	49 mm	•	•
2.15	.0846"	29 mm	53 mm	•	•
2.20	.0866"	32 mm	53 mm	•	•
2.25	.0886"	32 mm	53 mm	•	•
2.30	.0906"	32 mm	53 mm	•	•
2.35	.0925"	32 mm	53 mm	•	•
2.40	.0945"	35 mm	57 mm	•	•
2.45	.0965"	35 mm	57 mm	•	•
2.50	.0984"	35 mm	57 mm	•	•
2.60	.1024"	37 mm	57 mm	•	•
2.70	.1063"	37 mm	61 mm	•	•
2.75	.1083"	37 mm	61 mm	•	•
2.80	.1102"	38 mm	61 mm	•	•
2.90	.1142"	41 mm	61 mm	•	•
3.00	.1181"	41 mm	61 mm	•	•
3.10	.1220"	41 mm	65 mm	•	•
3.20	.1260"	41 mm	65 mm	•	•
3.25	.1280"	41 mm	65 mm	•	•
3.30	.1299"	44 mm	65 mm	•	•
3.40	.1339"	44 mm	70 mm	•	•
3.50	.1378"	44 mm	70 mm	•	•
3.60	.1417"	48 mm	70 mm	•	•
3.70	.1457"	48 mm	70 mm	•	•
3.75	.1476"	48 mm	75 mm	•	•
3.80	.1496"	48 mm	75 mm	•	•

Metric Part Number (Prefix)				AVT-0105	AVT-0106
Metric Size (Suffix)	Decimal Equivalent	Flute Length	Overall Length	H.S.S. (118° SP)	Cobalt (135°)
3.90	.1535"	51 mm	75 mm	•	•
4.00	.1575"	54 mm	75 mm	•	•
4.10	.1614"	54 mm	75 mm	•	•
4.20	.1654"	54 mm	75 mm	•	•
4.25	.1673"	54 mm	80 mm	•	•
4.30	.1693"	54 mm	80 mm	•	•
4.40	.1739"	56 mm	80 mm	•	•
4.50	.1772"	56 mm	80 mm	•	•
4.60	.1811"	56 mm	80 mm	•	•
4.70	.1850"	59 mm	80 mm	•	•
4.75	.1870"	59 mm	86 mm	•	•
4.80	.1890"	59 mm	86 mm	•	•
4.90	.1929"	62 mm	86 mm	•	•
5.00	.1968"	62 mm	86 mm	•	•
5.10	.2008"	62 mm	86 mm	•	•
5.20	.2047"	64 mm	86 mm	•	•
5.25	.2067"	64 mm	86 mm	•	•
5.30	.2087"	64 mm	86 mm	•	•
5.40	.2126"	64 mm	93 mm	•	•
5.50	.2165"	64 mm	93 mm	•	•
5.60	.2205"	67 mm	93 mm	•	•
5.70	.2244"	67 mm	93 mm	•	•
5.75	.2264"	67 mm	93 mm	•	•
5.80	.2283"	67 mm	93 mm	•	•
5.90	.2323"	67 mm	93 mm	•	•
6.00	.2362"	70 mm	93 mm	•	•
6.10	.2402"	70 mm	101 mm	•	•
6.20	.2441"	70 mm	101 mm	•	•
6.25	.2461"	70 mm	101 mm	•	•
6.30	.2480"	70 mm	101 mm	•	•
6.40	.2520"	73 mm	101 mm	•	•
6.50	.2559"	73 mm	101 mm	•	•
6.60	.2598"	73 mm	101 mm	•	•
6.70	.2638"	73 mm	101 mm	•	•
6.75	.2657"	73 mm	109 mm	•	•
6.80	.2677"	73 mm	109 mm	•	•
6.90	.2717"	73 mm	109 mm	•	•
7.00	.2756"	73 mm	109 mm	•	•
7.10	.2795"	75 mm	109 mm	•	•
7.20	.2835"	75 mm	109 mm	•	•
7.25	.2854"	75 mm	109 mm	•	•
7.30	.2874"	75 mm	109 mm	•	•
7.40	.2913"	78 mm	109 mm	•	•
7.50	.2953"	78 mm	109 mm	•	•

Aircraft Quality Short Flute Jobber's Length Drills

- Short flute design for handling higher thrust loads when drilling tough high tensile and heat resistant alloys.
- Heavy web construction provides for more rigidity and helps eliminate vibration and flexing.



AVT-0119

Cobalt, Type 'D'



More Sizes Available, Please Inquire

Wire Gauge, 135° Split Point				
Part Number	Size	Dec. Equiv.	Flute Length	Overall Length
AVT-0107	#40	.0980"	13/16"	2-3/8" (60 mm)
AVT-0109	#30	.1285"	15/16"	2-3/4" (70 mm)
AVT-0111	#27	.1440"	1"	3" (76 mm)
AVT-0113	#21	.1590"	1-1/16"	3-1/4" (83 mm)
AVT-0115	#20	.1610"	1-1/16"	3-1/4" (83 mm)
AVT-0117	#13	.1850"	1-1/8"	3-1/2" (89 mm)
AVT-0119	#10	.1935"	1-3/16"	3-5/8" (92 mm)

Fractional, 135° Split Point				
Part Number	Size	Dec. Equiv.	Flute Length	Overall Length
AVT-0108	3/32"	.0938"	3/4"	2-1/4" (57 mm)
AVT-0110	1/8"	.1250"	7/8"	2-3/4" (70 mm)
AVT-0112	5/32"	.1562"	1"	3-1/8" (79 mm)
AVT-0114	3/16"	.1875"	1-1/8"	3-1/2" (89 mm)
AVT-0116	7/32"	.2188"	1-1/4"	3-3/4" (95 mm)
AVT-0118	1/4"	.2500"	1-3/8"	4" (102 mm)
AVT-0120	5/16"	.3125"	1-5/8"	4-1/2" (114 mm)
AVT-0121	3/8"	.3750"	1-13/16"	5" (127 mm)

Aircraft Quality Extension Length Drills

Made to NAS907 Specs



More Sizes Available

Note: To order, select desired drill type (prefix) & add the desired drill size (suffix). **Example:** For a #20, 6" cobalt (135° split point) drill, the number would be AVT-0122-20C

Wire Gauge Part Number (Prefix)			AVT-0122	AVT-0123	AVT-0124	AVT-0125	AVT-0126	AVT-0127
Wire Gauge Size (Suffix)	Decimal Equivalent	Flute Length	6" H.S.S. (135° SP)	12" H.S.S. (135° SP)	6" Cobalt (135° SP)	12" Cobalt (135° SP)	6" Carbide Tip (135° SP)	12" Carbide Tip (135° SP)
3	.2130"	2-1/2"	•	•	•	•	•	•
5	.2055"	2-1/2"	•	•	•	•	•	•
7	.2010"	2-7/16"	•	•	•	•	•	•
8	.1990"	2-7/16"	•	•	•	•	•	•
10	.1935"	2-7/16"	•	•	•	•	•	•
11	.1910"	2-5/16"	•	•	•	•	•	•
12	.1890"	2-5/16"	•	•	•	•	•	•
13	.1850"	2-5/16"	•	•	•	•	•	•
15	.1800"	2-3/16"	•	•	•	•	•	•
16	.1770"	2-3/16"	•	•	•	•	•	•
19	.1660"	2-1/8"	•	•	•	•	•	•
20	.1610"	2-1/8"	•	•	•	•	•	•
21	.1590"	2-1/8"	•	•	•	•	•	•
22	.1570"	2"	•	•	•	•	•	•
27	.1440"	1-7/8"	•	•	•	•	•	•
29	.1360"	1-3/4"	•	•	•	•	•	•
30	.1285"	1-5/8"	•	•	•	•	•	•
40	.0980"	1-3/8"	•	•	•	•	N/A	N/A

Letter Part Number (Prefix)			AVT-0128	AVT-0129	AVT-0126	AVT-0127
Letter Size (Suffix)	Decimal Equivalent	Flute Length	6" H.S.S. (135° SP)	12" H.S.S. (135° SP)	6" Carbide Tip (135° SP)	12" Carbide Tip (135° SP)
D	.2460"	2-3/4"	•	•	•	•
G	.2610"	2-7/8"	•	•	•	•

Fractional Part Number (Prefix)			AVT-0130	AVT-0131	AVT-0132	AVT-0133	AVT-0126	AVT-0127
Fractional Size (Suffix)	Decimal Equivalent	Flute Length	6" H.S.S. (135° SP)	12" H.S.S. (135° SP)	6" Cobalt (135° SP)	12" Cobalt (135° SP)	6" Carbide Tip (135° SP)	12" Carbide Tip (135° SP)
3/32	.0938"	1-1/4"	•	•	•	•	N/A	N/A
1/8	.1250"	1-5/8"	•	•	•	•	•	•
5/32	.1562"	2"	•	•	•	•	•	•
3/16	.1875"	2-5/16"	•	•	•	•	•	•
7/32	.2188"	2-1/2"	•	•	•	•	•	•
1/4	.2500"	2-3/4"	•	•	•	•	•	•
9/32	.2812"	2-15/16"	•	•	N/A	N/A	•	•
5/16	.3125"	3-3/16"	•	•	N/A	N/A	•	•
3/8	.3750"	3-5/8"	•	•	N/A	N/A	•	•

AIR DRILLS & ACCESSORIES

Aircraft Quality Stubby Length Drills

Made to NAS907 Specifications



More Sizes Available, Please Inquire

Note: To order, select desired drill type (prefix) & add the desired drill size (suffix).
Ex.: For a #40 TiN coated (135° split point) drill, the number would be **02-R41C-40T**

Wire Gauge Part Number (Prefix)				AVT-0134	AVT-0135	AVT-0136
Size (Suffix)	Decimal Equiv.	Flute Length	Overall Length	H.S.S. (135° SP)	Cobalt (135° SP)	TiN Coated (135° SP)
3	.2130"	1-1/4"	2-3/8"	•	•	•
5	.2055"	1-1/4"	2-3/8"	•	•	•
7	.2010"	1-3/16"	2-1/4"	•	•	•
8	.1990"	1-3/16"	2-1/4"	•	•	•
10	.1935"	1-3/16"	2-1/4"	•	•	•
11	.1910"	1-3/16"	2-1/4"	•	•	•
12	.1890"	1-3/16"	2-1/4"	•	•	•
13	.1850"	1-1/8"	2-3/16"	•	•	•
15	.1800"	1-1/8"	2-3/16"	•	•	•
16	.1770"	1-1/8"	2-3/16"	•	•	•
19	.1660"	1-1/16"	2-1/8"	•	•	•
20	.1610"	1-1/16"	2-1/8"	•	•	•
21	.1590"	1-1/16"	2-1/8"	•	•	•
22	.1570"	1-1/16"	2-1/8"	•	•	•
27	.1440"	1"	2-1/16"	•	•	•
29	.1360"	15/16"	1-15/16"	•	•	•
30	.1285"	15/16"	1-15/16"	•	•	•
40	.0980"	13/16"	1-13/16"	•	•	•

Fractional Part Number (Prefix)				AVT-0137	AVT-0138	AVT-0139
Size (Suffix)	Decimal Equiv.	Flute Length	Overall Length	H.S.S. (135° SP)	Cobalt (135° SP)	TiN Coated (135° SP)
3/32	.0938"	3/4"	1-3/4"	•	•	•
1/8	.1250"	7/8"	1-7/8"	•	•	•
5/32	.1562"	1"	2-1/16"	•	•	•
3/16	.1875"	1-1/8"	2-3/16"	•	•	•
7/32	.2188"	1-1/4"	2-3/8"	•	•	•
1/4	.2500"	1-3/8"	2-1/2"	•	•	•
9/32	.2812"	1-1/2"	2-11/16"	•	•	•
5/16	.3125"	1-5/8"	2-13/16"	•	•	•
3/8	.3750"	1-13/16"	3-1/8"	•	•	•

Drill Rite™ Precision Hand Drill Guide

- Allows hand drills to perform like a professional drill press.
- High quality aircraft grade aluminum construction.
- 3/16" & 1/4" hardened drill bushings included with tool (other bushings available, please inquire).



Part Number	Capacity (pipe or round stock)
AVT-0158	1/2" to 2-1/2" Diameter

Jobber's Length Drill Sets

High Performance



AVT-0144

Made In The USA

Sturdy Metal Case Included

Drill Sets - Heavy Duty, 118° Non-Split Point			
Part Number	Construction	Included Sizes	Bits
AVT-0140	High Speed Steel	1/16" to 1/4" (x 64ths)	13
AVT-0141	High Speed Steel	1/16" to 3/8" (x 64ths)	21
AVT-0142	High Speed Steel	1/16" to 1/2" (x 32ths)	15
AVT-0143	High Speed Steel	1/16" to 1/2" (x 64ths)	29
AVT-0144	High Speed Steel	#1 to #60	60
AVT-0145	High Speed Steel	A to Z	26
AVT-0146	High Speed Steel	1/16" to 1/2", A-Z, #1-#60	115
AVT-0147*	High Speed Steel	1 to 6 mm (x 0.5 mm)	11
AVT-0148*	High Speed Steel	1 to 13 mm (x 0.5 mm)	25

* Production grade.

Drill Sets - Heavy Duty, 118° Split Point			
Part Number	Construction	Included Sizes	Bits
AVT-0149	Cobalt	1/16" to 1/2", A-Z, #1-#60	115
AVT-0150	H.S.S. TiN Coated	1/16" to 1/2" (x 32ths)	15

Drill Sets - Heavy Duty, 135° Split Point			
Part Number	Construction	Included Sizes	Bits
AVT-0151	Cobalt	1/16" to 1/4" (x 64ths)	13
AVT-0152	Cobalt	1/16" to 3/8" (x 64ths)	21
AVT-0153	Cobalt	1/16" to 1/2" (x 32ths)	15
AVT-0154	Cobalt	1/16" to 1/2" (x 64ths)	29
AVT-0155	H.S.S. TiN Coated	1/16" to 1/2" (x 64ths)	29
AVT-0156	Cobalt	#1 to #60	60
AVT-0157	H.S.S. TiN Coated	#1 to #60	60
AVT-0159	Cobalt	A to Z	26

Left Hand Spiral Drills

AVT-0169



- Premium hi-molybdenum tool steel construction is gold surface treated for maximum lubricity.
- Precision ground for superb accuracy and performance.
- Ideal for removing broken studs and fasteners without the need for a screw extractor.

Left Hand Spiral Drill Packs*, 135° Split Point

Part Number	Diameter	Flute Length	Overall Length
AVT-0160	3/32"	1-1/4"	2-1/4" (57 mm)
AVT-0161	1/8"	1-5/8"	2-3/4" (70 mm)
AVT-0162	5/32"	2"	3-1/8" (79 mm)
AVT-0163	3/16"	2-5/16"	3-1/2" (89 mm)
AVT-0166	7/32"	2-1/2"	3-3/4" (95 mm)
AVT-0169	1/4"	2-3/4"	4" (102 mm)
AVT-0172	9/32"	2-15/16"	4-1/4" (108 mm)
AVT-0175	5/16"	3-3/16"	4-1/2" (114 mm)
AVT-0177	3/8"	3-5/8"	5" (127 mm)

*Drills are six per pack except for AVT-0175 & AVT-0177 (three per pack).

Chipfree Acrylic Drills

AVT-0191



- Chipfree point is precision ground at 60° for gradual entry that avoids cracking.
- 0° rake eliminates grabbing and breakout.

Acrylic Drill Packs*, 60° Point

Part Number	Diameter	Flute Length	Overall Length
AVT-0186	3/32"	1-5/16"	2-1/4" (57 mm)
AVT-0187	1/8"	1-3/8"	2-1/2" (64 mm)
AVT-0188	5/32"	2-3/16"	2-7/8" (73 mm)
AVT-0189	3/16"	2"	3-3/16" (81 mm)
AVT-0190	7/32"	2-9/16"	3-3/4" (95 mm)
AVT-0191	1/4"	2-5/16"	3-9/16" (91 mm)

*Drills are twelve per pack. other sizes available, please inquire.



For Hole Saws & Circle Cutters See Pages 81-83

Self-Starting Step Drills

AVT-0173



AVT-0165



- Single flute cutting edge for greater control through steps.
- Hex shank prevents slipping in drill chuck.
- Many other styles & sizes available, please inquire.

Fractional Step Drills

Part No. H.S.S.	Part No. TiN Coated	# Of Holes	Hole Size Range	Shank Size	Max. Material Thickness
AVT-0164	AVT-0165	13	1/8" to 1/2"	1/4"	1/8"
AVT-0167	AVT-0168	6	3/16" to 1/2"	1/4"	3/8"
AVT-0170	AVT-0171	9	1/4" to 3/4"	3/8"	1/8"
AVT-0173	AVT-0174	12	3/16" to 7/8"	3/8"	1/8"
AVT-0176	—	10	1/4" to 1-3/8"	1/2"	1/8"

Metric Step Drills

Part No. H.S.S.	Part No. TiN Coated	# Of Holes	Hole Size Range	Shank Size	Max. Material Thickness
AVT-0178	AVT-0179	9	4 to 12 mm	6.35 mm	5 mm
AVT-0180	AVT-0181	7	6 to 18 mm	9.53 mm	5 mm
AVT-0182	AVT-0183	10	4 to 22 mm	9.53 mm	5 mm
AVT-0184	AVT-0185	13	5 to 35 mm	12.70 mm	3.5 mm



AVT-0192

AVT-0193



- Money saving sets provide a wide range of hole sizes.
- 4 PC set includes hard plastic carrying case.

Part Number	Description	Hole Sizes - 1/8" Material (max.)	Hole Sizes - 3/8" Material (max.)
AVT-0192	3 PC Set	1/8" to 3/4"	3/16" to 1/2"
AVT-0193	4 PC Set	1/8" to 1-3/8"	3/16" to 1/2"

Chucking Reamers

High Quality Construction

- Sizing chart used for reference only as available sizes may vary, please inquire.
- Many other styles & sizes available, please inquire.



High Speed Steel			
Type	Straight Flute	Left Spiral Flute	Right Spiral Flute
Shank	Straight	Straight	Straight
Part No. (Prefix)	700	720	740

Cobalt	
Type	Straight Flute
Shank	Straight
Part No. (Prefix)	AVT-0194

Carbide Tipped				
Type	Straight Flute	Straight Flute	Expansion Flute	Expansion Flute
Shank	Straight	Taper	Straight	Taper
Part No. (Prefix)	400	402	465	467

Solid Carbide	
Type	Straight Flute
Shank	Straight
Part No. (Prefix)	1564

Size (Suffix)	Decimal Equiv.
41	.0960"
40	.0980"
2.5mm	.0984"
39	.0995"
38	.1015"
37	.1040"
36	.1065"
7/64	.1094"
35	.1100"
34	.1110"
33	.1130"
32	.1160"
3mm	.1181"
31	.1200"
1230	.1230"
1240	.1240"
1247	.1247"
1/8	.1250"
1260	.1260"
30	.1285"
29	.1360"
3.5mm	.1378"
28	.1405"
9/64	.1406"
27	.1440"
26	.1470"
25	.1495"
24	.1520"
23	.1540"
5/32	.1562"
22	.1570"
4mm	.1575"

Size (Suffix)	Decimal Equiv.
21	.1590"
20	.1610"
19	.1660"
18	.1695"
11/64	.1719"
17	.1730"
16	.1770"
4.5mm	.1772"
15	.1800"
14	.1820"
13	.1850"
1855	.1855"
1865	.1865"
1870	.1870"
3/16	.1875"
1885	.1885"
12	.1890"
11	.1910"
10	.1935"
9	.1960"
5mm	.1968"
8	.1990"
7	.2010"
13/64	.2031"
6	.2040"
5	.2055"
4	.2090"
3	.2130"
5.5mm	.2165"
7/32	.2187"
2	.2210"
1	.2280"

Size (Suffix)	Decimal Equiv.
A	.2340"
15/64	.2344"
6mm	.2362"
B	.2380"
C	.2420"
D	.2460"
2480	.2480"
2490	.2490"
2495	.2495"
1/4	.2500"
2510	.2510"
6.5mm	.2559"
F	.2570"
G	.2610"
17/64	.2656"
H	.2660"
I	.2720"
7mm	.2756"
J	.2770"
K	.2810"
9/32	.2812"
L	.2900"
M	.2950"
7.5mm	.2953"
19/64	.2969"
N	.3020"
3105	.3105"
3115	.3115"
3120	.3120"
5/16	.3125"
3135	.3135"
8mm	.3150"

Size (Suffix)	Decimal Equiv.
O	.3160"
P	.3230"
21/64	.3281"
Q	.3320"
8.5mm	.3346"
R	.3390"
11/32	.3437"
S	.3480"
9mm	.3543"
T	.3580"
23/64	.3594"
U	.3680"
3730	.3730"
3740	.3740"
9.5mm	.3740"
3745	.3745"
3/8	.3750"
3760	.3760"
V	.3770"
W	.3860"
25/64	.3906"
10mm	.3937"
X	.3970"
Y	.4040"
13/32	.4062"
Z	.4130"
10.5mm	.4134"
27/64	.4219"
11mm	.4331"
4355	.4355"
4365	.4365"
4370	.4370"

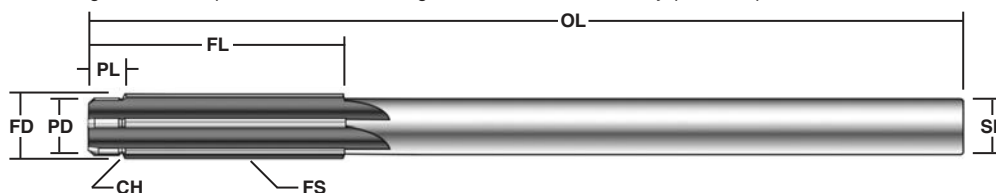
Size (Suffix)	Decimal Equiv.
7/16	.4375"
4385	.4385"
11.5mm	.4528"
29/64	.4531"
15/32	.4687"
12mm	.4724"
31/64	.4844"
12.5mm	.4921"
4980	.4980"
4990	.4990"
4995	.4995"
1/2	.5000"
5010	.5010"
13mm	.5118"
17/32	.5312"
13.5mm	.5315"
14mm	.5512"
9/16	.5625"
14.5mm	.5709"
15mm	.5906"
19/32	.5937"
15.5mm	.6102"
5/8	.6250"
16mm	.6299"
16.5mm	.6496"
21/32	.6562"
17mm	.6693"
11/16	.6875"
17.5mm	.6890"
18mm	.7087"
23/32	.7187"
18.5mm	.7283"

Size (Suffix)	Decimal Equiv.
19mm	.7480"
3/4	.7500"
19.5mm	.7677"
25/32	.7812"
20mm	.7874"
20.5mm	.8071"
13/16	.8125"
21mm	.8268"
27/32	.8437"
21.5mm	.8465"
22mm	.8661"
7/8	.8750"
22.5mm	.8858"
23mm	.9055"
29/32	.9062"
23.5mm	.9252"
15/16	.9375"
24mm	.9449"
24.5mm	.9646"
31/32	.9687"
25mm	.9843"
1	1.0000"
1-1/16	1.0625"
1-1/8	1.1250"
1-3/16	1.1875"
1-1/4	1.2500"
1-5/16	1.3125"
1-3/8	1.3750"
1-7/16	1.4375"
1-1/2	1.5000"

Key	
OL	Overall Length
FL	Flute Length
FD	Flute Diameter
FS	Flute Spiral
PL	Pilot Length
PD	Pilot Diameter
CH	Chamfer
SD	Shank Diameter

Basic Ordering Instructions:

Select desired reamer type from the charts at the top of the page (prefix) & add the desired reamer size from the sizing charts above (suffix).
Example: To order a 1/4" straight flute, straight shank H.S.S. reamer, use part number 700-1/4. Reamers ordered this way will be pilotless with geometry conforming to NAS 897 specifications. Overall length & shank diameter will vary, please inquire.



Custom Ordering Instructions:

Use the illustration above as a starting point - specifying only the options absolutely necessary will allow the most economical prices & the quickest turnaround. Cutting or non-cutting pilots, shanks with flats & many other options also available, please inquire.

Chuckling Reamer Sets

Straight Shank, Straight Flute, Right Hand Cut



Sturdy Metal Case Included

AVT-0206

Chuckling Reamer Sets			
Part Number	Construction	Included Sizes	Bits
AVT-0201	High Speed Steel	1/16" to 1/2" (x 64ths)	29
AVT-0203	Cobalt	1/16" to 1/2" (x 64ths)	29
AVT-0204	High Speed Steel	#1 to #60	60
AVT-0205	Cobalt	#1 to #60	60
AVT-0206	High Speed Steel	A to Z	26
AVT-0207	Cobalt	A to Z	26

AVITORQ Reamer Kit



- Versatile kit includes both chucking & threaded shank reamers.
- Included sizes are perfect for common aircraft fastener work (including nominal, first over, and second over sizes).

Kit Includes:

Fifteen Chucking Reamers / Fifteen Piloted Threaded Shank Reamers (.1285 x .0980, .1590 x .1285, .1610 x .1250, .1840 x .1680, .1850 x .1600, .1985 x .1850, .2000 x .1840, .2140 x .1990, .2460 x .2340, .2470 x .2310, .2500 x .2340, .2610 x .2460, .2760 x .2610, .2780 x .2620, .3125 x .2969) & Foam Fitted Plastic Carrying Case

Note: 1/4-28 threaded shank reamers are 2-1/8" O.A.L. (1/4" pilot length).

Part Number	Description
AVT-0213	Complete 31 PC Kit

H.S.S. Adjustable Hand Reamers

AVT-0199



- Easily adjustable by loosening one nut and tightening the other to ream any odd sized holes - perfect for field repairs.
- Made of long lasting high speed steel with a right hand cut.

Part Number	Range Of Adjustment	Blade Length	Overall Length
AVT-0195	1/4" to 9/32" (6.3 - 7.1 mm)	1-11/32"	3-1/4" (83 mm)
AVT-0196	9/32" to 5/16" (7.1 - 7.9 mm)	1-11/32"	3-1/2" (89 mm)
AVT-0197	5/16" to 11/32" (7.9 - 8.7 mm)	1-1/2"	4-1/8" (105 mm)
AVT-0198	11/32" to 3/8" (8.7 - 9.5 mm)	1-1/2"	4-3/8" (111 mm)
AVT-0199	3/8" to 13/32" (9.5 - 10.3 mm)	1-1/2"	4-3/4" (121 mm)
AVT-0200	13/32" to 7/16" (10.3 - 11.1 mm)	1-1/2"	5" (127 mm)
AVT-0105	7/16" to 15/32" (11.1 - 11.9 mm)	1-5/8"	5-1/4" (133 mm)

Note: AVT-0195 to AVT-0199 are 4-flute, AVT-0200 & AVT-0105 are 6-flute.

5PC Adjustable Hand Reamer Set (includes fitted case)

Part Number	Included Reamers	Range Of Adjustment
AVT-0202	AVT-0195, AVT-0196, AVT-0197, AVT-0198	1/4" to 3/8" (6.3 - 9.5 mm)

Drill Gauges



*Conforms To
Gov't Spec
GG-G86b*

AVT-0211

- Heavy gauge steel, machined & ground to close tolerances.
- Dimensional text permanently etched into face for long life.

Part Number	Drill Types & Sizes
AVT-0208	Letter (A to Z)
AVT-0209	Number (61 to 80) & (3" to 1-1/8")
AVT-0210	Fractional (1/16" to 1/2" x 64ths)
AVT-0211	Fractional (1/16" to 1/2" x 64ths), Easy Read Type
AVT-0212	Number (1 to 60)
AVT-0214	Metric (to 13 mm x .05 mm)

AVITORQ Angle Drills

Affordable Close-Quarter Drilling Tools



AVT-0215



AVT-0216



AVT-0218

- Steel alloy cylinder & rotor for long tool life.
- Precision machined for smooth & quiet operation.
- Milled motor housing - rear exhaust.

90° Angle - 1/4" Capacity, 1/4"-28 Thread - 0.3 hp (0.22 kW)			
Part Number	Free RPM	Overall Length	Weight
AVT-0215	3200	8-1/4" (210 mm)	1.25 lbs (0.6 kgs)

45° Angle - 1/4" Capacity, 1/4"-28 Thread - 0.3 hp (0.22 kW)			
Part Number	Free RPM	Overall Length	Weight
AVT-0216	3200	9" (229 mm)	1.25 lbs (0.6 kgs)

360° Angle - 1/4" Capacity, 1/4"-28 Thread - 0.3 hp (0.22 kW)			
Part Number	Free RPM	Overall Length	Weight
AVT-0218	3200	8-3/4" (222 mm)	1.25 lbs (0.6 kgs)

Note: All models air inlet 1/4" NPT.



AVT-0222



AVT-0223

Made In The USA

Extension Angle Drills

Features an extra-long drill head perfect for inaccessible areas.

90° Extension - 1/4" Cap., 1/4"-28 Thread - 0.3 hp (0.22 kW)			
Part Number	Free RPM	Overall Length	Weight
AVT-0222	3000	13-3/8" (340 mm)	2.0 lbs (0.9 kgs)

45° Extension - 1/4" Cap., 1/4"-28 Thread - 0.3 hp (0.22 kW)			
Part Number	Free RPM	Overall Length	Weight
AVT-0223	3000	14-7/8" (378 mm)	2.0 lbs (0.9 kgs)

Note: Extension drills also available with 9/32"-40 thread, please inquire.

Desoutter® Compact Angle Drills

Updated Design



AVT-0217



AVT-0219



AVT-0221



High Precision, Durable Drills For Long Life

- Durable five blade motor with long life bearings.
- Lightweight and ergonomic composite grip.
- Fixed air inlet prevents foreign object damage.

90° Angle - 3/16" Capacity, 1/4"-28 Thread - 0.4 hp (0.3 kW)			
Part Number	Free RPM	Overall Length	Weight
AVT-0217	3000	9-13/16" (249 mm)	1.5 lbs (0.7 kgs)

30° Angle - 3/16" Capacity, Collet Spindle - 0.4 hp (0.3 kW)			
Part Number	Free RPM	Overall Length	Weight
AVT-0219	3000	10-5/8" (270 mm)	1.5 lbs (0.7 kgs)

360° Angle - 3/16" Capacity, Collet Spindle - 0.4 hp (0.3 kW)			
Part Number	Free RPM	Overall Length	Weight
AVT-0220	3000	10-9/16" (269 mm)	1.6 lbs (0.75 kgs)

360° Angle - 3/16" Capacity, 1/4"-28 Thread - 0.4 hp (0.3 kW)			
Part Number	Free RPM	Overall Length	Weight
AVT-0221	3000	10-1/2" (267 mm)	1.6 lbs (0.75 kgs)

Note: Many other models available, please inquire.



For A Wide Selection Of Deburring Tools See Pages 90-93

APEX® Angle Drills

The Industry Workhorse



AVT-0224

Comfortable Ergonomic Design

- Vibration & noise reducing ergonomic design.
- High efficiency motor and gear train with fewer parts for quick, easy maintenance and longer tool life.
- Thermal insulated handle with comfortable textured grip.

Note: Air Inlet 1/4" NPT.

90° Mini Angle Head (shown) - Composite Housing, 1/4" Capacity, 1/4"-28 Thread - 0.4 hp (0.30 kW)			
Part Number Rear Exhaust	Free RPM	Overall Length	Weight
AVT-0224	3300	11-1/8" (282 mm)	1.8 lbs (0.82 kgs)

45° Mini Angle Head - Composite Housing, 1/4" Capacity, 1/4"-28 Thread - 0.4 hp (0.30 kW)			
Part Number Rear Exhaust	Free RPM	Overall Length	Weight
AVT-0226	3300	11-1/8" (282 mm)	1.8 lbs (0.82 kgs)

360° Mini Angle Head - Composite Housing, 1/4" Capacity, 1/4"-28 Thread - 0.4 hp (0.30 kW)			
Part Number Rear Exhaust	Free RPM	Overall Length	Weight
AVT-0228	3300	11-1/8" (282 mm)	1.8 lbs (0.82 kgs)

Note: Many other models and configurations available, please inquire.

APEX® Heavy-Duty Angle Drills

Tough, Reinforced Angle Head



AVT-0229

Comfortable Ergonomic Design

- A great tool for tough jobs not suitable for lighter models.
- Vibration & noise reducing ergonomic design.
- High efficiency motor and gear train with fewer parts for quick, easy maintenance and longer tool life.
- Thermal insulated handle with comfortable textured grip.

Note: Air Inlet 1/4" NPT.

90° Heavy-Duty Angle Head - Composite Housing, 1/4" Capacity, 1/4"-28 Thread - 0.4 hp (0.30 kW)			
Part Number Rear Exhaust	Free RPM	Overall Length	Weight
AVT-0229	870	12.8" (325 mm)	3.0 lbs (1.36 kgs)

90° Heavy-Duty Angle Head - Composite Housing, 1/4" Capacity, 3-Jaw Chuck Included - 0.4 hp (0.30 kW)			
Part Number Rear Exhaust	Free RPM	Overall Length	Weight
AVT-0232	540	12.8" (325 mm)	3.0 lbs (1.36 kgs)

Note: Many other models and configurations available, please inquire.

Sioux® Heavy-Duty Angle Drills



AVT-0227



AVT-0225

Strongest Gears In Its Class

- Rugged construction & dependable service.
- Includes keyed chuck.
- Non-reversible (reversible models also available, please inquire).

Note: Air Inlet 1/4" NPT.

1/4" Cap. Chuck, 3/8"-24 Thread - 1.0 hp (0.75 kW) - Rear Exhaust			
Part Number	Free RPM	Overall Length	Weight
AVT-0225	2200	10.2" (260 mm)	2.9 lbs (1.3 kgs)

1/2" Cap. Chuck, 1/2"-20 Thread - 1.0 hp (0.75 kW) - Side Exhaust			
Part Number	Free RPM	Overall Length	Weight
AVT-0227	600	15-1/8" (384 mm)	6.5 lbs (2.9 kgs)

AVITORQ Offset 'Pancake' Angle Air Drills

Smooth, Quiet Operation



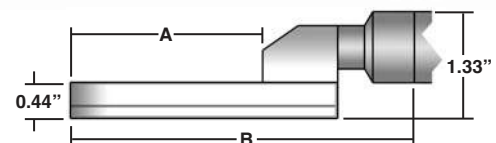
AVT-0230



AVT-0231



AVT-0233



Steel alloy cylinder & rotor, precision milled motor housing.

Note: Air Inlet 1/4" NPT.

90° Angle - 1/4" Capacity, 1/4"-28 Thread - 0.3 hp (0.22 kW)					
Part Number	Free RPM	Clearance (A)	Offset Length (B)	Overall Length	Weight
AVT-0230	3000	2.44"	4.81"	11" (279 mm)	2.0 lbs (0.91 kgs)
AVT-0231	3000	3.79"	6.16"	12.35" (314 mm)	2.1 lbs (0.95 kgs)
AVT-0233	3000	5.13"	7.50"	13.69" (348 mm)	2.3 lbs (1.04 kgs)

AIR DRILLS & ACCESSORIES

Sioux® 360° Angle Drill

*Lockable Angle Head,
Full 360° Rotation*

AVT-0234



- Lever start, rear exhaust.
- Accepts straight shank bits up to 1/4".

Note: Air Inlet 1/4" NPT.

1/4" Capacity - 0.75 hp (0.56 kW)			
Part Number	Free RPM	Overall Length	Weight
AVT-0234	4000	12-1/2" (318 mm)	2.7 lbs (1.3 kgs)

Economy Angle Drills

*Affordable Close Quarter
Drilling Tools*



AVT-0237



AVT-0238

Note: Air Inlet 1/4" NPT.

90° Angle - 1/4" Capacity, 1/4"-28 Thread - 0.3 hp (0.22 kW)			
Part Number	Free RPM	Overall Length	Weight
AVT-0237	2800	10" (254 mm)	1.6 lbs (0.7 kgs)

45° Angle - 1/4" Capacity, 1/4"-28 Thread - 0.3 hp (0.22 kW)			
Part Number	Free RPM	Overall Length	Weight
AVT-0238	2800	11" (279 mm)	1.6 lbs (0.7 kgs)

Extended Reach Economy Angle Drill

Extra Length For Tight Areas



Note: Air Inlet 1/4" NPT.

90° Extended - 1/4" Capacity, 1/4"-28 Thread - 0.3 hp (0.22 kW)			
Part Number	Free RPM	Overall Length	Weight
AVT-0249	2800	13-1/4" (337 mm)	1.8 lbs (0.8 kgs)



For Boelube® Drilling Lubricant See Page 233

Angle Drill Upgrade Kit



Kit Includes:

Four Adapter Drills (#10, #21, #30 & #40), Four Collet Chucks (#10, #21, #30 & #40), Cone Jaw Chuck & Wrench

Part Number	Description
AVT-0235	Complete 10 PC Kit

Cone-Jaw Chuck With Wrench

- Light-duty tool fits most angle drills with female thread.
- Use standard drills with any threaded spindle tool.



Part Number	Capacity	Thread
AVT-0236	1/16" to 1/4"	1/4"-28

AVITORQ Collet Chucks

1/4"-28 Thread

AVT-0261

Integral units hold one size only, sub adapter not required.



Part Number	Size	Part Number	Size
AVT-0239	#10	AVT-0240	F
AVT-0241	#11	AVT-0242	6 mm
AVT-0243	#12	AVT-0244	3/32"
AVT-0245	#13	AVT-0246	1/8"
AVT-0247	#19	AVT-0248	5/32"
AVT-0250	#20	AVT-0251	3/16"
AVT-0252	#21	AVT-0253	7/32"
AVT-0254	#27	AVT-0255	1/4"
AVT-0256	#28	AVT-0257	5/16"
AVT-0259	#30	AVT-0258	3/8"
AVT-0260	#40		

4 PC Collet Chuck Kit

Part Number	Sizes Included
AVT-0261	#10, #21, #30 & #40

Collets

- For use on all 9/32"-40 internal thread drills.
- Suitable for Desoutter & Atlas Copco drills.



Wire Gauge Sizes		
Part No.	Size	Decimal
AVT-0268	60	.0400"
AVT-0272	59	.0410"
AVT-0276	58	.0420"
AVT-0280	57	.0430"
AVT-0284	56	.0465"
AVT-0288	55	.0520"
AVT-0292	54	.0550"
AVT-0296	53	.0595"
AVT-0301	52	.0635"
AVT-0304	51	.0670"
AVT-0307	50	.0700"
AVT-0310	49	.0730"
AVT-0314	48	.0760"
AVT-0318	47	.0785"
AVT-0322	46	.0810"
AVT-0326	45	.0820"
AVT-0330	44	.0860"
AVT-0334	43	.0890"
AVT-0338	42	.0935"
AVT-0342	41	.0960"
AVT-0346	40	.0980"
AVT-0350	39	.0995"
AVT-0354	38	.1015"
AVT-0357	37	.1040"
AVT-0360	36	.1065"
AVT-0363	35	.1100"

Wire Gauge Sizes		
Part No.	Size	Decimal
AVT-0269	34	.1110"
AVT-0273	33	.1130"
AVT-0277	32	.1160"
AVT-0281	31	.1200"
AVT-0285	30	.1285"
AVT-0289	29	.1360"
AVT-0293	28	.1405"
AVT-0297	27	.1440"
AVT-0302	26	.1470"
AVT-0305	25	.1495"
AVT-0308	24	.1520"
AVT-0311	23	.1540"
AVT-0315	22	.1570"
AVT-0319	21	.1590"
AVT-0323	20	.1610"
AVT-0327	19	.1660"
AVT-0331	18	.1695"
AVT-0335	17	.1730"
AVT-0339	16	.1770"
AVT-0343	15	.1800"
AVT-0347	14	.1820"
AVT-0351	13	.1850"
AVT-0355	12	.1890"
AVT-0358	11	.1910"
AVT-0361	10	.1935"
AVT-0364	9	.1960"

Metric Sizes		
Part No.	Size	Decimal
AVT-0262	0.8	.0315"
AVT-0264	0.9	.0354"
AVT-0266	1.0	.0394"
AVT-0270	1.1	.0433"
AVT-0274	1.2	.0472"
AVT-0278	1.3	.0512"
AVT-0282	1.4	.0551"
AVT-0286	1.5	.0591"
AVT-0290	1.6	.0630"
AVT-0294	1.7	.0669"
AVT-0298	1.8	.0709"
AVT-0303	1.9	.0748"
AVT-0306	2.0	.0787"
AVT-0309	2.1	.0827"
AVT-0312	2.2	.0866"
AVT-0316	2.3	.0906"
AVT-0320	2.4	.0945"
AVT-0324	2.5	.0984"
AVT-0328	2.6	.1024"
AVT-0332	2.7	.1063"
AVT-0336	2.8	.1102"
AVT-0340	2.9	.1142"
AVT-0344	3.0	.1181"
AVT-0348	3.1	.1220"
AVT-0352	3.2	.1260"
AVT-0356	3.3	.1299"
AVT-0359	3.4	.1339"
AVT-0362	3.5	.1378"
AVT-0365	3.6	.1417"

Metric Sizes		
Part No.	Size	Decimal
AVT-0263	3.9	.1535"
AVT-0265	4.0	.1575"
AVT-0267	4.1	.1614"
AVT-0271	4.2	.1654"
AVT-0275	4.3	.1693"
AVT-0279	4.4	.1732"
AVT-0283	4.5	.1772"
AVT-0287	4.6	.1811"
AVT-0291	4.7	.1850"
AVT-0295	4.8	.1890"
AVT-0299	4.9	.1929"
AVT-0300	5.0	.1969"

Fractional Sizes		
Part No.	Size	Decimal
AVT-0313	1/32"	.0312"
AVT-0317	3/64"	.0469"
AVT-0321	1/16"	.0625"
AVT-0325	5/64"	.0781"
AVT-0329	3/32"	.0937"
AVT-0333	7/64"	.1094"
AVT-0337	1/8"	.1250"
AVT-0341	9/64"	.1406"
AVT-0345	5/32"	.1562"
AVT-0349	11/64"	.1719"
AVT-0353	3/16"	.1875"

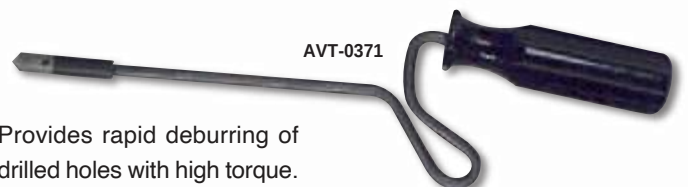
H.S.S. Threaded Shank Reamers

- 1/4"-28 thread.
- No pilot.



Part Number	Diameter	Decimal Equiv.	Overall Length
AVT-0366	#10	.1935"	5/8" (16 mm)
AVT-0367	#13	.1850"	5/8" (16 mm)
AVT-0368	#21	.1590"	5/8" (16 mm)
AVT-0370	#30	.1285"	5/8" (16 mm)
AVT-0372	1/4"	.2500"	5/8" (16 mm)
AVT-0373	#10	.1935"	1" (25.4 mm)
AVT-0374	#13	.1850"	1" (25.4 mm)
AVT-0375	#21	.1590"	1" (25.4 mm)
AVT-0377	#30	.1285"	1" (25.4 mm)
AVT-0379	1/4"	.2500"	1" (25.4 mm)

'Speed Driver' Hole Deburring Tool & Cutters



Provides rapid deburring of drilled holes with high torque.

Part Number	Description
AVT-0369	Speed Driver Only (no cutter)
AVT-0371	Speed Driver & 3/8" Diameter, 100° Cutter



Cutters can also be used with angle drills and similar threaded shank tools.

100° Cutters, 1/4"-28 Thread	
Part Number	Diameter
AVT-0376	3/8"
AVT-0378	1/2"
AVT-0380	5/8"

Threaded Shank Adapter Drills

High Speed Steel Adapter Drills

Drills are manufactured to NAS 965 Type 'B' construction with 135° split points. Great for drilling general to medium duty, low tensile strength materials in confined areas.

Cobalt Adapter Drills

Drills are manufactured to NAS 965 Type 'D' construction with 135° heavy duty split points and surface treated. Made from M42 8% cobalt high speed steel. Great for drilling hard, tough high tensile strength materials in confined areas. When drilling low tensile strength materials these drills will have a significantly greater tool life than standard H.S.S., resulting in a much lower cost per drill.



Note: Carbide drills, PCD drills, & custom drill sizes also available, please inquire. 10-32 thread drills shown on next page.

Adapter Drills, 1/4"-28 Shank Thread							
Drill Size	Decimal Equivalent	H.S.S. Stubby 3/4" OAL	H.S.S. Short 1-1/4" OAL	H.S.S. Long 2-1/8" OAL	Cobalt Stubby 3/4" OAL	Cobalt Short 1-1/4" OAL	Cobalt Long 2-1/8" OAL
2.3 mm	.0906"	AVT-0381	AVT-0382	AVT-0383	AVT-0384	AVT-0385	AVT-0386
3/32"	.0938"	AVT-0387	AVT-0388	AVT-0083	AVT-0389	AVT-0390	AVT-0391
40	.0980"	AVT-0392	AVT-0393	AVT-0090	AVT-0394	AVT-0395	AVT-0396
2.5 mm	.0984"	AVT-0397	AVT-0398	AVT-0399	AVT-0400	AVT-0401	AVT-0402
3.17 mm	.1248"	AVT-0403	AVT-0404	AVT-0405	AVT-0406	AVT-0407	AVT-0408
1/8"	.1250"	AVT-0409	AVT-0410	AVT-0085	AVT-0411	AVT-0412	AVT-0413
30	.1285"	AVT-0414	AVT-0415	AVT-0087	AVT-0416	AVT-0417	AVT-0418
3.3 mm	.1299"	AVT-0419	AVT-0420	AVT-0421	AVT-0422	AVT-0423	AVT-0424
27	.1440"	AVT-0425	AVT-0426	AVT-0427	AVT-0428	AVT-0429	AVT-0430
3.96 mm	.1559"	AVT-0431	AVT-0432	AVT-0433	AVT-0434	AVT-0435	AVT-0436
5/32"	.1562"	AVT-0437	AVT-0438	AVT-0088	AVT-0439	AVT-0440	AVT-0441
21	.1590"	AVT-0442	AVT-0443	AVT-0084	AVT-0444	AVT-0445	AVT-0446
20	.1610"	AVT-0447	AVT-0448	AVT-0449	AVT-0450	AVT-0451	AVT-0452
4.1 mm	.1614"	AVT-0453	AVT-0454	AVT-0455	AVT-0456	AVT-0457	AVT-0458
16	.1770"	AVT-0459	AVT-0460	AVT-0461	AVT-0462	AVT-0463	AVT-0464
4.76 mm	.1874"	AVT-0465	AVT-0466	AVT-0467	AVT-0468	AVT-0469	AVT-0470
3/16"	.1875"	AVT-0471	AVT-0472	AVT-0091	AVT-0473	AVT-0474	AVT-0475
11	.1910"	AVT-0476	AVT-0477	AVT-0478	AVT-0479	AVT-0480	AVT-0481
4.9 mm	.1929"	AVT-0482	AVT-0483	AVT-0484	AVT-0485	AVT-0486	AVT-0487
10	.1935"	AVT-0488	AVT-0489	AVT-0082	AVT-0490	AVT-0491	AVT-0492
3	.2130"	AVT-0493	AVT-0494	AVT-0495	AVT-0496	AVT-0497	AVT-0498
7/32"	.2188"	AVT-0499	AVT-0500	AVT-0501	AVT-0502	AVT-0503	AVT-0504
D	.2460"	AVT-0505	AVT-0506	AVT-0507	AVT-0508	AVT-0509	AVT-0510
1/4"	.2500"	AVT-0511	AVT-0512	AVT-0513	AVT-0514	AVT-0515	AVT-0516
6.35 mm	.2500"	AVT-0517	AVT-0518	AVT-0519	AVT-0520	AVT-0521	AVT-0522
F	.2570"	AVT-0523	AVT-0524	AVT-0525	AVT-0526	AVT-0527	AVT-0528
6.6 mm	.2598"	AVT-0529	AVT-0530	AVT-0531	AVT-0532	AVT-0533	AVT-0534
G	.2610"	AVT-0535	AVT-0536	AVT-0537	AVT-0538	AVT-0539	AVT-0540
17/64"	.2656"	AVT-0541	AVT-0542	AVT-0543	AVT-0544	AVT-0545	AVT-0546
J	.2770"	AVT-0547	AVT-0548	AVT-0549	AVT-0550	AVT-0551	AVT-0552
9/32"	.2812"	AVT-0553	AVT-0554	AVT-0555	AVT-0556	AVT-0557	AVT-0558
5/16"	.3125"	AVT-0559	AVT-0560	AVT-0561	AVT-0562	AVT-0563	AVT-0564
8 mm	.3150"	AVT-0565	AVT-0566	AVT-0567	AVT-0568	AVT-0569	AVT-0570
3/8"	.3750"	AVT-0571	AVT-0572	AVT-0573	AVT-0574	AVT-0575	AVT-0576

Threaded Shank Adapter Drills (cont'd)

Adapter Drills, 10-32 Shank Thread							
Drill Size	Decimal Equivalent	H.S.S. Stubby 3/4" OAL	H.S.S. Short 1-1/4" OAL	H.S.S. Long 2-1/8" OAL	Cobalt Stubby 3/4" OAL	Cobalt Short 1-1/4" OAL	Cobalt Long 2-1/8" OAL
3/32"	.0938"	AVT-0577	AVT-0578	AVT-0579	AVT-0580	AVT-0581	AVT-0582
40	.0980"	AVT-0583	AVT-0584	AVT-0585	AVT-0586	AVT-0587	AVT-0588
1/8"	.1250"	AVT-0589	AVT-0590	AVT-0591	AVT-0592	AVT-0593	AVT-0594
30	.1285"	AVT-0595	AVT-0596	AVT-0597	AVT-0598	AVT-0599	AVT-0600
27	.1440"	AVT-0601	AVT-0602	AVT-0603	AVT-0604	AVT-0605	AVT-0606
5/32"	.1562"	AVT-0607	AVT-0608	AVT-0609	AVT-0610	AVT-0611	AVT-0612
21	.1590"	AVT-0613	AVT-0614	AVT-0615	AVT-0616	AVT-0617	AVT-0618
20	.1610"	AVT-0619	AVT-0620	AVT-0621	AVT-0622	AVT-0623	AVT-0624
16	.1770"	AVT-0625	AVT-0626	AVT-0627	AVT-0628	AVT-0629	AVT-0630
3/16"	.1875"	AVT-0631	AVT-0632	AVT-0633	AVT-0634	AVT-0635	AVT-0636
11	.1910"	AVT-0637	AVT-0638	AVT-0639	AVT-0640	AVT-0641	AVT-0642
10	.1935"	AVT-0643	AVT-0644	AVT-0645	AVT-0646	AVT-0647	AVT-0648
3	.2130"	AVT-0649	AVT-0650	AVT-0651	AVT-0652	AVT-0653	AVT-0654
7/32"	.2188"	AVT-0655	AVT-0656	AVT-0657	AVT-0658	AVT-0659	AVT-0660
1/4"	.2500"	AVT-0661	AVT-0662	AVT-0663	AVT-0664	AVT-0665	AVT-0666
17/64"	.2656"	AVT-0667	AVT-0668	—	—	—	—
9/32"	.2812"	AVT-0669	AVT-0670	—	—	—	—
5/16"	.3125"	AVT-0671	AVT-0672	AVT-0673	AVT-0674	—	—
3/8"	.3750"	—	—	AVT-0675	AVT-0676	—	—

Threaded Shank Adapter Drill Sets



Stubby 4 PC Sets	
Part Number	Included Sizes (1 each)
AVT-0681	3/32", 1/8", 5/32" & 3/16"
AVT-0684	#10, #21, #30 & #40

Short 4 PC Sets	
Part Number	Included Sizes (1 each)
AVT-0685	3/32", 1/8", 5/32" & 3/16"
AVT-0686	#10, #21, #30 & #40

Long 4 PC Sets	
Part Number	Included Sizes (1 each)
AVT-0688	3/32", 1/8", 5/32" & 3/16"
AVT-0690	#10, #21, #30 & #40

Threaded & Straight Shank Extensions



- Versatile - for use with countersinks, drill bits etc.
- 1/4"-28 female thread, 3/8" body diameter.

1/4"-28 Threaded Shank			1/4" Straight Shank		
Part No.	O.A.L.	Shank	Part No.	O.A.L.	Shank
AVT-0677	1"	5/16"	AVT-0678	2"	7/8"
AVT-0679	2"	5/16"	AVT-0680	4"	7/8"
AVT-0682	4"	5/16"	AVT-0683	6"	7/8"

Threaded Shank Adapters



Part Number	Converts
AVT-0687	1/4"-28 Male Thread To 9/32"-40 Female Thread
AVT-0689	9/32"-40 Male Thread To 1/4"-28 Female Thread
AVT-0691	1/4"-28 Male Thread To 10-32 Female Thread

AIR DRILLS & ACCESSORIES

Strap Duplicators

Tapered back end is convenient for prying apart sheets.



Bushing Type

Bushing Type (with jig, drill duplicate holes from overlapping sheet)

Part Number 6-1/4" Reach ('L')	Part Number 13-1/4" Reach ('L')	Drill Size & Pilot Diameter
AVT-0692	AVT-0693	#40
AVT-0694	AVT-0695	#30
AVT-0696	AVT-0697	#21
AVT-0699	AVT-0700	#19
AVT-0702	AVT-0703	#10
AVT-0704	AVT-0705	#5
AVT-0706	AVT-0707	1/4"
AVT-0708	AVT-0709	F



Bushing Inverted
Pilot Type

Bushing Inverted Pilot Type (bushing type with inverted pilot)

Part Number 6-1/4" Reach ('L')	Part Number 13-1/4" Reach ('L')	Drill Size & Pilot Diameter
AVT-0711	AVT-0712	#40
AVT-0714	AVT-0715	#30
AVT-0716	AVT-0717	#21
AVT-0718	AVT-0719	#19
AVT-0720	AVT-0721	#10
AVT-0722	AVT-0723	#5
AVT-0724	AVT-0725	1/4"
AVT-0726	AVT-0727	F

5 PC Strap Duplicator Sets



Part Number	Type	Includes (1 each):
AVT-0729	Bushing, 6-1/4" Reach	#40, #30, #21, #10 & 1/4"
AVT-0730	Bushing, 13-1/4" Reach	
AVT-0731	Inverted, 6-1/4" Reach	
AVT-0732	Inverted, 13-1/4" Reach	

Rivet Fan Spacing Tools



AVT-0701

*Unequalled
Accuracy*

*Excellent
Timesaver*

- Used for layout & marking of equally spaced rivet holes.
- Hole spacing from 1/2" (13 mm) closed to 2" (51 mm) open.

Part Number	Type	Fingers	Open Length
AVT-0698	Standard	20	38" (97 cm)
AVT-0701	Mini	10	18" (46 cm)

Big Gator Drill Guide

*Made In
The USA*



AVT-0710

*Heat-
Treated
Steel*

- 17 holes with marked centerlines for proper hole alignment.
- "V" groove on bottom for easy drilling on corners and rounds.

Part Number	Type	Range (increments)	Dimensions
AVT-0710	Fractional	1/8" to 3/8" (1/64")	5-1/2" L x 7/8" W x 7/8" H
AVT-0713	Metric	3 to 9.5mm (0.5mm)*	

*Metric guide also includes 3.3, 4.2 and 6.8mm holes.

"Bombsite" Precision Optical Hole Locator

*Optical Grade
Clear Acrylic*



*Virtually
Unbreakable*

- Permanently etched crosshairs provide an extremely accurate and magnified reference point accurate to $\pm 0.001"$ of dead center.
- Works with all standard 1/2" diameter slip bushing tools including the drill bar below and slip drill stands on next page.

Part Number	Diameter
AVT-0728	1/2" (12.7mm)

Drill Bar



- This adjustable, slip-type drill bar provides accurate placement and alignment of drilled holes. Includes lock screw and liner.
- Can be used with hole locator (above) - once centered replace locator with a slip bushing and drill (slip bushing not included).

Part Number	Dimensions
AVT-0733	6"L x 1-1/2"W x 3/4"H

Drill Stand & Slip Bushing Kit



18 PC Kit Includes:

Custom Fitted Case

Drill Stand, 16 Slip Bushings (#8, #10, #13, #16, #20, #21, #27, #30, #40, 3/32", 1/8", 5/32", 3/16", 1/4", 5/16" & "D") & Case

Part Number	Description
AVT-0745	18 PC Set

Drill Stand & Slip Bushing Sets



AVT-0746

5 PC Number Set Includes:

Drill Stand & Four Slip Bushings (#10, #21, #30 & #40)

5 PC Fractional Set Includes:

Drill Stand & Four Slip Bushings (3/32", 1/8", 5/32" & 3/16")

10 PC Set Includes:

Drill Stand & Five Slip Bushings (#10, #21, #30, #40, 3/32", 1/8", 5/32", 3/16" & 1/4")

Part Number	Description
AVT-0746	5 PC Number Set
AVT-0747	5 PC Fractional Set
AVT-0748	10 PC Piece Set

Drill Stand & Slip Bushings

Clear & Durable Lexan Stand

- Steel liner with bushing lock holds industry standard 1/2" OD slip bushings.
- Bushings are 3/4" long.



Drill Stand (order bushings below)	
Part Number	Height
AVT-0734	1-3/4"

1/2" OD Slip Bushings		1/2" OD Slip Bushings	
Part Number	Drill Size	Part Number	Drill Size
AVT-0735	#40	AVT-0736	5/32"
AVT-0737	3/32"	AVT-0738	#10
AVT-0739	#30	AVT-0740	3/16"
AVT-0741	1/8"	AVT-0742	7/32"
AVT-0743	#21	AVT-0744	1/4"

Drill Stand & Threaded Bushing Kit

Fitted Case Helps Prevent F.O.D.



Kit Includes:

Three Housings, Nine Bushings (#40, #30, #21, #10, 5/32", 3/16", 7/32", 1/4" & F) & Fitted Plastic Case

Part Number	Description
AVT-0749	Complete 13 PC Kit

Drill Stands & Threaded Bushings

AVT-0766



Interchangeable & Hardened Bushings

AVT-0769



- Keeps your drills & taps perpendicular to work surface.
- No-mar transparent plastic allows a clear view of the work.

Drill Stands (order bushings below)

Part Number	Type	Thread	Height*
AVT-0766	Standard	1/2"-13	1-5/8"
AVT-0769	Low-Profile	1/2"-13	1-1/8"
AVT-0772	Large Diameter	3/4"-16	1-3/4"

1/2"-13 Thread Bushings

Part Number	Drill Size
AVT-0774	#40
AVT-0776	3/32"
AVT-0778	#30
AVT-0780	1/8"
AVT-0782	#21
AVT-0787	5/32"
AVT-0790	#10
AVT-0793	3/16"
AVT-0794	#11
AVT-0795	7/32"
AVT-0797	1/4"

3/4"-16 Thread Bushings

Part Number	Drill Size
AVT-0775	9/32"
AVT-0777	5/16"
AVT-0779	11/32"
AVT-0781	3/8"
AVT-0783	7/16"
AVT-0786	1/2"

*Height of low-profile stand less bushing.

Threaded Channel Drill Stands

AVT-0803



AVT-0806



- Keep drills a perfect 90° to the work surface.
- Use with 1/2"-13 threaded bushings (offered above).
- Three hole type keeps multiple bushings ready to go.
- Bottom feet with open ends allow for quick chip ejection.

Part Number	Type	Dimensions
AVT-0803	One Hole	1-1/8" L x 5/8" W x 1" H
AVT-0806	Three Hole	2" L x 1" W x 1" H

Drill Stops



AVT-0764

- Prevents work damage from uncontrolled drill breakthru.
- Positive stop, spring cushioned contact.

Part Number	Drill Size	Overall Length	Part Number	Drill Size	Overall Length
AVT-0750	#50	1-5/16" (33 mm)	AVT-0751	#11	1-1/2" (38 mm)
AVT-0752	#41		AVT-0753	#10	
AVT-0754	#40		AVT-0755	#6	
AVT-0756	#30		AVT-0757	#1	
AVT-0758	#28		AVT-0759	1/4"	2-1/8" (54 mm)
AVT-0760	#27	1-1/2" (38 mm)	AVT-0761	5/16"	
AVT-0762	#21		AVT-0763	7/32"	
AVT-0764	#20		AVT-0765	9/32"	
AVT-0767	#17		AVT-0768	3/8"	
AVT-0771	#16		AVT-0770	7/16"	
AVT-0773	#12				



AVT-0785

No-Mar Drill Stops

- Unique rounded plastic face eliminates surface marring.
- Color coded, locks on drill with two set screws.

Part Number	Color	Size	Part Number	Color	Size
AVT-0784	Zinc	#40	AVT-0785	Zinc	#20
AVT-0788	Copper	#30	AVT-0789	Brass	#10
AVT-0791	Black	#21	AVT-0792	Copper	1/4"

Drill Stop Sets

Part Number	Type	Included Sizes (1 each)
AVT-0796	Standard	#10, #21, #30, #40
AVT-0798	Standard	#10, #21, #30, #40, 1/4"
AVT-0799	No-Mar	#10, #21, #30, #40
AVT-0800	No-Mar	#10, #21, #30, #40, 1/4"

Chip Chasers



AVT-0801



AVT-0804

- Easily remove chips between sheets after drilling rivet holes.
- Blade choice of fine spring steel or heavy-duty stainless steel.
- Comfortable molded plastic handle.

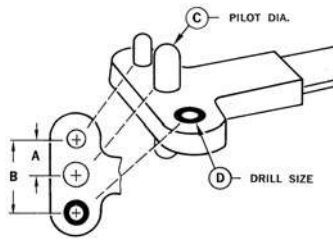
Part Number Spring Steel Blade	Part Number Stainless Blade	Blade Length
AVT-0801	AVT-0802	2-3/4"
AVT-0804	AVT-0805	5-7/8"
AVT-0807	AVT-0808	Special: Both Tools

Nut Plate Drill Jigs

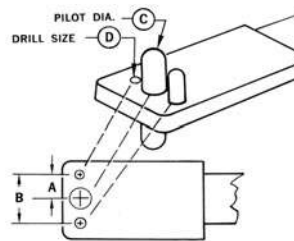
- Designed for accurate drilling of rivet holes for nut plates.
- Flexible handle provides hand clearance when jig is in use.



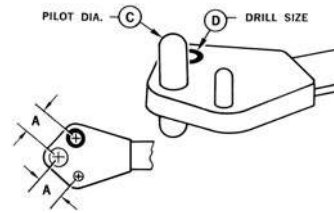
AVT-0831



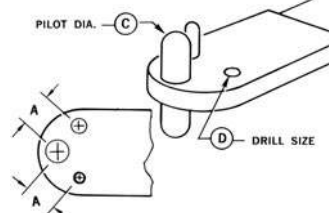
Two Lug Type Style 1



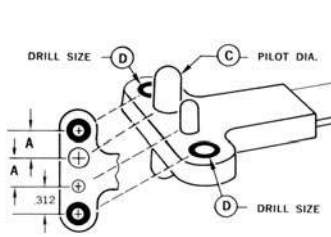
Two Lug Type Style 2



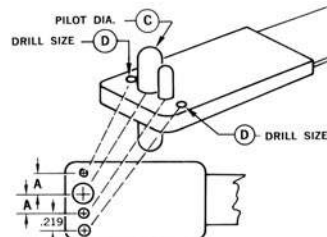
Corner Lug Type Style 1



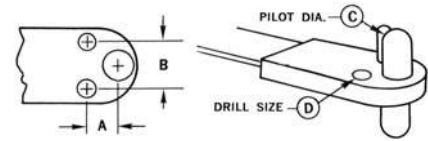
Corner Lug Type Style 2



One Lug Type Style 1



One Lug Type Style 2



Mini Anchornut Type

Two Lug Type Style 1					
Part No.	Bolt Ref.	'A' Dim.	'B' Dim.	Pilot Dia.	Drill Size
AVT-0809	#6	.344"	.688"	.139"	#40
AVT-0811	#8	.344"	.688"	.164"	#40
AVT-0813	#10	.344"	.688"	.191"	#40
AVT-0815	1/4"	.500"	1.000"	.248"	#40
AVT-0818	5/16"	.500"	1.000"	.312"	#30
AVT-0819	3/8"	.500"	1.000"	.372"	#30
AVT-0820	—	.375"	.750"	.4375"	#40
AVT-0821	—	.500"	1.000"	.6875"	#30
AVT-0823	—	.6875"	1.375"	.811"	#30

Two Lug Type Style 2					
Part No.	Bolt Ref.	'A' Dim.	'B' Dim.	Pilot Dia.	Drill Size
AVT-0828	#4	.203"	.406"	.112"	#40
AVT-0829	#6	.218"	.436"	.139"	#40
AVT-0830	#8	.234"	.468"	.164"	#40
AVT-0831	#10	.250"	.500"	.191"	#40
AVT-0833	1/4"	.281"	.562"	.248"	#40
AVT-0835	5/16"	.3125"	.625"	.312"	#30

One Lug Type Style 1					
Part No.	Bolt Ref.	'A' Dim.	Pilot Dia.	Drill Size	Drill Size
AVT-0839	#6	.344"	.139"	#40	#40
AVT-0840	#8	.344"	.164"	#40	#40
AVT-0841	#10	.344"	.191"	#40	#40
AVT-0843	1/4"	.344"	.248"	#40	#40
AVT-0845	#10 Sp.	.344"	.213"	#40	#40

One Lug Type Style 2					
Part No.	Bolt Ref.	'A' Dim.	Pilot Dia.	Drill Size	Drill Size
AVT-0810	#4	.203"	.112"	#40	#40
AVT-0812	#6	.218"	.139"	#40	#40
AVT-0814	#8	.234"	.164"	#40	#40
AVT-0816	#10	.250"	.191"	#40	#40
AVT-0817	1/4"	.281"	.248"	#40	#40

Corner Type Style 1					
Part No.	Bolt Ref.	'A' Dim.	Pilot Dia.	Drill Size	Drill Size
AVT-0822	#6	.344"	.139"	#40	#40
AVT-0824	#8	.344"	.164"	#40	#40
AVT-0825	#10	.344"	.191"	#40	#40
AVT-0826	1/4"	.500"	.248"	#40	#40
AVT-0827	5/16"	.500"	.312"	#30	#40

Corner Type Style 2					
Part No.	Bolt Ref.	'A' Dim.	Pilot Dia.	Drill Size	Drill Size
AVT-0832	#4	.203"	.112"	#40	#40
AVT-0834	#6	.218"	.139"	#40	#40
AVT-0836	#8	.234"	.164"	#40	#40
AVT-0837	#10	.250"	.191"	#40	#40
AVT-0838	1/4"	.281"	.248"	#40	#40

Mini Anchornut Type					
Part No.	Bolt Ref.	'A' Dim.	'B' Dim.	Pilot Dia.	Drill Size
AVT-0842	#10	.250"	.219"	.191"	#40
AVT-0844	1/4"	.281"	.219"	.248"	#40
AVT-0846	5/16"	.312"	.250"	.312"	#30

AIR DRILLS & ACCESSORIES

Hi-Shear Ultralite® Nut Plate Air Drill



Fully Adjustable
Feed Rate

Lightweight
Design

Many Tooling Options
Available, For Ordering &
Pricing Info Please Inquire

- Only one hand required to locate, drill & countersink both holes.
- Easily convert rivet spacings with interchangeable foot attachments.
- Available in single wing, double wing & mickey mouse models.
- Accommodates all nut plate spindle spacings from 0.219 to 1.125".
- Available in both 600 & 7000 RPM models (please specify).

Specifications

Drill Stroke Length	1/2"
Available Spindle Speeds	600 and 7000 RPM
Collet Stroke Length	1/4"
Horsepower	0.54
Feed Rate Change	0.001" - 0.012" Per Revolution
Weight	4.75 lbs (2.2 kgs)

H.S.S. Nut Plate Drill Bits



- 100° countersink, 8-32 thread.
- Cobalt nut plate drill bits also available, please inquire.

'L' Dim. = 0.295"

Part Number	Countersink Dia.	Drill Diameter
AVT-0847	.187"	.0980"
AVT-0848	.250"	.0980"
AVT-0849	.250"	.1285"

'L' Dim. = 0.420"

Part Number	Countersink Dia.	Drill Diameter
AVT-0851	.187"	.0980"
AVT-0852	.250"	.0980"
AVT-0853	.250"	.1285"

'L' Dim. = 0.560"

Part Number	Countersink Dia.	Drill Diameter
AVT-0854	.187"	.0980"
AVT-0855	.250"	.0980"
AVT-0856	.250"	.1285"

JET® 20" Variable Speed Drill Press

F.O.B. FACTORY



Massive
3" Quill
Diameter

- Front mounted LED spindle RPM readout & positive control depth stop.
- Heavy-duty cast iron design.
- Head is massively constructed for more accuracy and rigidity.
- Large precision ground T-Slot work table for stable & easy set ups.
- Large hand grips designed for maximum user comfort.



360°
Rotating
Table

Note: CSA/CUS certified.

Specifications

Motor Power	2HP, 115/230V, 1Ph
Spindle Speed	300 to 2000 RPM
Spindle Taper	MT-3
Spindle Travel	6" (152 mm)
Drilling Capacity (iron)	1-1/2" (38 cm)
Drilling Capacity (mild steel)	1" (25 cm)
Work Table Size	22" x 18-3/4" (59 x 48 cm)
Work Table Travel	20" (51 cm)
Work Table Weight Capacity	154 lbs (70 kgs)
Overall Height	79-1/2" (202 cm)
Weight	780 lbs (354 kgs)

Part Number

Description

AVT-0850	20" Variable Speed Drill Press
----------	--------------------------------

Tube Drilling Jig

No Clamping Necessary

- For drilling tubes & other round stock.
- Bolts to drill press table.
- Grooved & angled sides hold work in place.



Part Number

Description

AVT-0857	Tube Drilling Jig
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AVITORQ Rivet Guns

All AVITORQ
Rivet Guns
CE Certified



AVT-0870

AVT-0863

AVT-0874

Power
Regulator
& Retainer
Spring
Included

- Aluminum offset pistol handle.
- Most parts interchangeable with Chicago Pneumatic style rivet guns.

Note: Inline models available (1X-4X), please inquire.

Standard .401 Shank				
Part No.	BPM	Capacity	O.A.L.	Weight
AVT-0861*	3600	1/8" Aluminum	5-11/16" (145 mm)	2.00 lbs (0.9 kgs)
AVT-0862	2580	5/32" Alum. 3/32" Steel	6-11/24" (165 mm)	2.25 lbs (1.0 kgs)
AVT-0863	2160	3/16" Alum. 5/32" Steel	7-5/16" (186 mm)	2.25 lbs (1.0 kgs)
AVT-0865	1740	1/4" Alum. 3/16" Steel	8-5/16" (211 mm)	2.75 lbs (1.2 kgs)

* Uses series 'B' type rivet sets available on page 30 & 32.

Standard .498 Shank				
Part No.	BPM	Capacity	O.A.L.	Weight
AVT-0868	1560	9/32" Alum. 3/16" Steel	8-5/16" (211 mm)	4.75 lbs (1.2 kgs)
AVT-0869	900	3/8" Alum. 5/16" Steel	11-5/16" (287 mm)	6 lbs (2.7 kgs)
AVT-0870	1140	5/16" Alum. 1/4" Steel	9-5/16" (237 mm)	5.125 lbs (2.3 kgs)

Jiffy Type

- Includes exclusive AVITORQ AVT-0899 retainer spring.
- Uses series 'B' type rivet sets available on pages 30 & 32.

Jiffy Type .401 Shank				
Part No.	BPM	Capacity	O.A.L.	Weight
AVT-0874	2700	3/16" Alum. 5/32" Steel	4-1/4" (108 mm)	2.625 lbs (1.2 kgs)

AVC® Type 4" Stroke

- Smooth running, powerful & easy to hold.
- Perfect balance & valve timing, hard hitting 9/16" dia. pistons.

AVC® Type .401 Shank				
Part No.	BPM	Capacity	O.A.L.	Weight
AVT-0877	1725	5/16" Alum. 1/4" Steel	8-3/4" (222 mm)	3.5 lbs (1.6 kgs)

Chicago Pneumatic® Rivet Guns



AVT-0860

AVT-0872

- Genuine CP original design.
- Aluminum offset pistol handle.
- Includes retainer spring.

Built-In Power
Regulator

Note: Rivet set shown not included.

Standard Pistol Grip .401 Shank				
Part Number	BPM	Capacity	O.A.L.	Weight
AVT-0858	2580	1/8" Alum. 3/32" Steel	6.7" (170 mm)	2.20 lbs (1.00 kgs)
AVT-0859	2160	3/16" Alum. 5/32" Steel	7.3" (186 mm)	2.43 lbs (1.10 kgs)
AVT-0860	1740	1/4" Alum. 3/16" Steel	8.3" (211 mm)	2.87 lbs (1.2 kgs)

Standard Pistol Grip .498 Shank				
Part Number	BPM	Capacity	O.A.L.	Weight
AVT-0864	1560	1/4" Alum. 3/16" Steel	8.9" (227 mm)	4.85 lbs (1.2 kgs)
AVT-0866	1140	5/16" Alum. 1/4" Steel	9.9" (252 mm)	5.07 lbs (2.20 kgs)
AVT-0867	900	3/8" Alum. 5/16" Steel	11.9" (303 mm)	5.95 lbs (2.70 kgs)

Ergonomic Recoilless Type

- Ergonomic design significantly reduces Carpal Tunnel Syndrome & enhances operator comfort.
- Progressive teasing throttle for better control.
- Includes retainer spring & built-in regulator.

Ergonomic Recoilless Pistol Grip .401 Shank				
Part Number	BPM	Capacity	O.A.L.	Weight
AVT-0871	2580	1/8" Alum. 3/32" Steel	8.4" (213 mm)	2.70 lbs (1.22 kgs)
AVT-0872	2160	3/16" Alum. 5/32" Steel	8.9" (226 mm)	2.90 lbs (1.32 kgs)
AVT-0873	1740	1/4" Alum. 3/16" Steel	9.9" (251 mm)	3.30 lbs (1.50 kgs)

Ergonomic Recoilless Pistol Grip .498 Shank				
Part Number	BPM	Capacity	O.A.L.	Weight
AVT-0875	2000	1/4" Alum. 3/16" Steel	10.8" (275 mm)	4.00 lbs (1.81 kgs)
AVT-0876	1700	5/16" Alum. 1/4" Steel	11.8" (300 mm)	5.3 lbs (2.40 kgs)
AVT-0878	1250	3/8" Alum. 5/16" Steel	13.8" (351 mm)	6.2 lbs (2.81 kgs)

RIVET GUNS & ACCESSORIES

Chicago Pneumatic® Rivet Guns (cont'd)

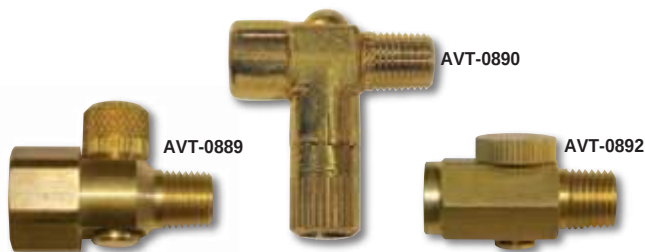
AVT-0879



Note: Rivet set shown not included.

Ergonomic Recoilless Inline .401 Shank				
Part Number	BPM	Capacity	O.A.L.	Weight
AVT-0879	2580	1/8" Alum. 3/32" Steel	8.7" (220 mm)	2.8 lbs (1.3 kgs)
AVT-0880	2160	3/16" Alum. 5/32" Steel	9.2" (223 mm)	3.0 lbs (1.4 kgs)
AVT-0881	1740	1/4" Alum. 3/16" Steel	10.2" (258 mm)	3.2 lbs (1.5 kgs)

Rivet Gun Power Regulators



Regulates air intake for accurate adjustment of hammer blow.

Part Number	Type
AVT-0889	Brass
AVT-0890	Solid Brass Construction
AVT-0892	Brass

90° Angle Attachment

Great for limited access areas inaccessible by standard tools.

Compact & Lightweight



Part Number	Capacity	For Use With	O.A.L.	Weight
AVT-0882	3/16"	CP, Cleco, ATI, USI	3-1/2" (89 mm)	1 lb (0.5 kgs)
AVT-0883	3/16"	Jiffy, Sioux, IR		

Note: Rivet sets are sold separately, please order from charts below.

Universal AN470 - 3/8" O.A.L.		Flush - 1/4" Body Length	
Part Number	Cupping Size	Part Number	Diameter
AVT-0885	3/32"	AVT-0884	5/8" (16 mm)
AVT-0886	1/8"		
AVT-0887	5/32"		
AVT-0888	3/16"		

Angle Attachment Kit, Includes:

90° Angle Attachment, Three AN470 Cupped Sets (3/32", 1/8" & 5/32") & One 5/8" Diameter Mushroom Flush Set

Part Number	Incl. Attachment	For Use With
AVT-0891	AVT-0882	CP, Cleco, ATI, USI
AVT-0893	AVT-0883	Jiffy, Sioux, IR

Rivet Gun Retainer Springs



Retainer Spring Set	
Part Number	Includes
AVT-0894	AVT-0896 & AVT-0900

Caution: Retainer springs are not guaranteed to keep rivet set from leaving barrel of gun if the tool is not operated snugly against the rivet in work piece.

Part Number	Type	Diameter	For Use With These Rivet Gun Models:
AVT-0895	Beehive	1"	AVITORQ 17-3AA, AVT-0861
AVT-0896	Beehive	1-3/32"	AVITORQ 2X, 3X & 4X; AVT-0858, RUSAB & RUTAB; Cleco E2, E3 & E4
AVT-0897	Beehive	1-5/32"	IR; AVC 10, 11, 12, 13, 24 & 26; Jiffy, Sioux; Cleco G4 & G8
AVT-0898	Beehive	1-3/16"	AVITORQ 5X, 7X & 9X; CP4477RUSAB, RUVAB & RUTAB
AVT-0899	Beehive	1-5/32"	AVITORQ 17-100B & AVT-0874 (compact design models)
AVT-0900	Handi	1-3/32"	AVITORQ 2X, 3X & 4X; AVT-0858, RUSAB & RUTAB; Cleco E2, E3 & E4
AVT-0901	Handi	1-5/32"	IR; AVC 10, 11, 12, 13, 24 & 26; Jiffy, Sioux; Cleco G4 & G8
AVT-0902	Handi	1-3/16"	AVITORQ 5X, 7X & 9X; CP4477RUSAB, RUVAB & RUTAB
AVT-0903	Mech-Aid	1-3/32" (.401)	AVITORQ 2X, 3X & 4X; AVT-0858, RUSAB & RUTAB; Cleco E2, E3 & E4
AVT-0904	Mech-Aid	1-3/16" (.498)	AVITORQ 5X, 7X & 9X; CP4477RUSAB, RUVAB & RUTAB
AVT-0905	Mech-Aid	1-5/32"	AVITORQ 17-100B & AVT-0874 (compact design models)

RIVET STYLE REFERENCE



AN435
Button



AN430
Round



AN455
Brazier



AN456
Mod. Brazier



AN470
Universal



AN442
Flat



BACR 15FT
Briles Boeing



AN426
Countersunk



AN450
Semi-Tubular

Cupped Rivet Sets



AVT-0926
Series



AVT-0927
Series



AVT-0931
Series



AVT-0928
Series



AVT-0932 Series

See Page
34 For Our
Popular
Rivet Set
Packs

.401 Shank		.498 Shank		Overall Length
Straight	Offset	Straight	Offset	
AVT-0926	—	—	—	2-1/2" (64 mm)
AVT-0927	AVT-0928	AVT-0929	AVT-0930	3-1/2" (89 mm)
AVT-0931	AVT-0932	AVT-0933	AVT-0934	5-1/2" (140 mm)
AVT-0935	AVT-0936	AVT-0937	AVT-0938	7-1/2" (191 mm)
AVT-0939	AVT-0940	AVT-0941	AVT-0942	10-1/2" (267 mm)
AVT-0943	AVT-0944	AVT-0945	AVT-0946	13-1/2" (343 mm)

Note: Select the size rivet set required (chart above), then add the desired cupping (rivet cupping chart below). **Example:** For a .401 shank, 2-1/2" O.A.L. straight rivet set with an 1/8" AN470 cupping, use part number AVT-0926-4704.

Rivet Cupping Chart					
Cupping Size	Round AN430	Button AN435	Flat AN442	Brazier AN455	Univ. AN470
1/16"	4302	4352	4422	4552	4702
3/32"	4303	4353	4423	4553	4703
1/8"	4304	4354	4424	4554	4704
5/32"	4305	4355	4425	4555	4705
3/16"	4306	4356	4426	4556	4706
7/32"	—	—	—	—	4707
1/4"	4308	4358	4428	—	4708
9/32"	—	—	—	—	4709

Bell Type Cupped Rivet Sets



.401 Shank		.498 Shank		Overall Length
Straight	Offset	Straight	Offset	
AVT-0906	AVT-0907	AVT-0908	AVT-0909	3-1/2" (89 mm)
AVT-0910	AVT-0911	AVT-0912	AVT-0913	5-1/2" (140 mm)
AVT-0914	AVT-0915	AVT-0916	AVT-0917	7-1/2" (191 mm)
AVT-0918	AVT-0919	AVT-0920	AVT-0921	10-1/2" (267 mm)
AVT-0922	AVT-0923	AVT-0924	AVT-0925	13-1/2" (343 mm)

Note: Select the size rivet set required (chart above), then add the desired cupping (rivet cupping chart below). **Example:** For a .401 shank, 3-1/2" O.A.L. straight rivet set with an 3/8" AN470 cupping, use part number AVT-0906-47012.

Rivet Cupping Chart						
Cupping Size	Round AN430	Button AN435	Flat AN442	Brazier AN455	Mod. Br. AN456	Univ. AN470
1/4"	—	—	—	4558	—	—
5/16"	43010	43510	44210	45510	45610	47010
3/8"	43012	43512	44212	45512	45612	47012

AN450 Tubular Rivet Sets



.401 Shank		Overall Length
Straight	Offset	
AVT-0927	AVT-0928	3-1/2" (89 mm)
AVT-0931	AVT-0932	5-1/2" (140 mm)
AVT-0935	AVT-0936	7-1/2" (191 mm)

Note: Select the rivet set required (chart above), then add the desired cupping (flaring AN450 cupping sizes chart below). **Example:** For a 3-1/2" straight rivet set with an 1/8" cupping, use part number AVT-0927-4504.

Flaring AN450 Cupping Sizes						
1/16"	3/32"	1/8"	5/32"	3/16"	1/4"	5/16"
4502	4503	4504	4505	4506	4508	45010

RIVET GUNS & ACCESSORIES

Cupped Sets For Jiffy Type (Series 'B') Rivet Guns



AVT-0947 Series



AVT-0948 Series

Note: Jiffy type rivet guns shown on page 27. Flush sets shown on page 32.

Straight Cupped .401 Shank		
Part Number	Diameter	Overall Length
AVT-0947	1/2" (13 mm)	1-3/16" (30 mm)

Offset Cupped .401 Shank		
Part Number	Diameter	Overall Length
AVT-0948	1/2" (13 mm)	1-5/8" (41 mm)
AVT-0949		1-3/4" (45 mm)
AVT-0950		1-7/8" (48 mm)
AVT-0951		2" (51 mm)

Note: Select the rivet set required (chart above), then add the desired cupping (chart below).
Example: For an offset 2" set with an AN470 1/8" cupping, use part number AVT-0951-4704.

Round AN430 Cupping Size					
1/16"	3/32"	1/8"	5/32"	3/16"	1/4"
4302	4303	4304	4305	4306	4308

Universal AN470 Cupping Size					
1/16"	3/32"	1/8"	5/32"	3/16"	1/4"
4702	4703	4704	4705	4706	4708

Boeing® BACR15FT Modified Univ. Rivet Sets



.401 Shank		.498 Shank		Overall Length
Straight	Offset	Straight	Offset	
AVT-0926	—	—	—	2-1/2" (64 mm)
AVT-0927	AVT-0928	AVT-0929	AVT-0930	3-1/2" (89 mm)
AVT-0931	AVT-0932	AVT-0933	AVT-0934	5-1/2" (140 mm)
AVT-0935	AVT-0936	AVT-0937	AVT-0938	7-1/2" (191 mm)
AVT-0939	AVT-0940	AVT-0941	AVT-0942	10-1/2" (267 mm)
AVT-0943	AVT-0944	AVT-0945	AVT-0946	13-1/2" (343 mm)

Note: Select the size rivet set required (chart above), then add the desired cupping (rivet cupping chart below). **Example:** For a .401 shank, 3-1/2" O.A.L. straight rivet set with a 1/8" cupping, use part number AVT-0927-4704BAC.

Modified Universal AN470 Cupping Sizes			
3/32"	1/8"	5/32"	3/16"
4703BAC	4704BAC	4705BAC	4706BAC

Modified Universal AN470 Cupping Sizes		
7/32"	1/4"	9/32"
4707BAC	4708BAC	4709BAC

Boeing® BACR15FT Mod. Univ. Bell Type Sets



.401 Shank		.498 Shank		Overall Length
Straight	Offset	Straight	Offset	
AVT-0906	AVT-0907	AVT-0908	AVT-0909	3-1/2" (89 mm)
AVT-0910	AVT-0911	AVT-0912	AVT-0913	5-1/2" (140 mm)
AVT-0914	AVT-0915	AVT-0916	AVT-0917	7-1/2" (191 mm)
AVT-0918	AVT-0919	AVT-0920	AVT-0921	10-1/2" (267 mm)
AVT-0922	AVT-0923	AVT-0924	AVT-0925	13-1/2" (343 mm)

Note: Select the rivet set required (chart above), then add the desired cupping (chart below).
Example: For a .401 shank, 5-1/2" straight set with a 3/8" cupping, use part no. AVT-0910-47012BAC.

Modified Universal AN470 Cupping Sizes		
5/16"	11/32"	3/8"
47010BAC	47011BAC	47012BAC

Boeing® BACR15FT Modified Univ. Rivet Sets



AVT-0954



AVT-0955

- Manufactured from H13 chromemoly tool steel.
- Magnetic particle inspected after heat treatment.

.401 Shank - Mod. Universal AN470, 3-1/2" Overall Length		
Straight	Offset	Rivet Size
AVT-0952	AVT-0953	1/8"
AVT-0954	AVT-0955	5/32"
AVT-0956	AVT-0957	3/16"
AVT-0958	AVT-0959	7/32"
AVT-0960	AVT-0961	1/4"

Boeing® BACR15FT Mod. Univ. Cutaway Sets



- Manufactured from H13 chromemoly tool steel.
- Magnetic particle inspected after heat treatment.

.401 Shank - Modified Universal AN470				
Part Number	Rivet Size	Body Dia.	Body Length	Overall Length
AVT-0962	1/8"	.281"	1-3/4"	3.31" (84 mm)
AVT-0963	5/32"	.312"	1-3/4"	3.31" (84 mm)
AVT-0964	3/16"	.344"	1-3/4"	3.31" (84 mm)
AVT-0965	1/4"	.406"	1-3/4"	3.31" (84 mm)

AN470 Double Offset Rivet Sets



AVT-0966-4706

Note: Available in longer lengths, please inquire. Flush sets shown on page 33.

.401 Shank	.498 Shank	Overall Length
Part Number	Part Number	
AVT-0966	AVT-0967	5-1/2" (140 mm)
AVT-0972	AVT-0973	7-1/2" (191 mm)

Note: Select the rivet set required (chart above), then add the desired cupping (chart below).
Example: For a .401 shank, 5-1/2" set with an 1/8" cupping, use part number AVT-0966-4704

Universal AN470 Cupping Sizes					
1/16"	3/32"	1/8"	5/32"	3/16"	1/4"
4702	4703	4704	4705	4706	4708

AN470 Gooseneck Rivet Sets



AVT-0993

Note: We will make specials, price on request. Flush sets shown on page 33.

.401 Shank			
Part Number	Rivet Size	Rivet Style	Overall Length
AVT-0990	3/32"	AN470	7-1/4" (184 mm)
AVT-0993	1/8"	AN470	
AVT-0996	5/32"	AN470	
AVT-0999	3/16"	AN470	
AVT-1002	1/4"	AN470	



For AVITORQ's Pro Rivet Gun Kit See Page 61

Straight & Offset Flush Rivet Sets



AVT-0968

AVT-0969

.401 Shank		.498 Shank		Overall Length
Straight	Offset	Straight	Offset	
AVT-0968	AVT-0969	AVT-0970	AVT-0971	3-1/2" (89 mm)
AVT-0974	AVT-0975	AVT-0976	AVT-0977	5-1/2" (140 mm)
AVT-0978	AVT-0979	AVT-0980	AVT-0981	7-1/2" (191 mm)

Flush Mushroom Sets



AVT-0983

AVT-1010

.401 Shank	.498 Shank	Face Diameter	Overall Length
AVT-0982	—	3/4" (19 mm)	2-1/16" (52 mm)
AVT-0983	—	3/4" (19 mm)	3" (76 mm)
AVT-0984	AVT-0985	1" (25 mm)	2-1/2" (64 mm)
AVT-0986	AVT-0987	1" (25 mm)	3" (76 mm)
AVT-0988	AVT-0989	1" (25 mm)	5-1/2" (140 mm)
AVT-0991	AVT-0992	1" (25 mm)	7-1/2" (191 mm)
AVT-0994	AVT-0995	1-1/4" (32 mm)	3" (76 mm)
AVT-0997	AVT-0998	1-1/4" (32 mm)	5-1/2" (140 mm)
AVT-1000	AVT-1001	1-1/2" (38 mm)	3-1/8" (79 mm)
AVT-1003	AVT-1004	1-3/4" (45 mm)	3-1/4" (83 mm)
AVT-1005	AVT-1006	1-1/8" (29 mm)	2-1/4" (57 mm)
AVT-1007	AVT-1008	1-1/4" (32 mm)	2-1/4" (57 mm)
—	AVT-1009	2" (51 mm)	3" (76 mm)

Flush Mushroom Sets With Rubber Guard

.401 Shank	.498 Shank	Face Diameter	Overall Length
AVT-1010	AVT-1011	3/4" (19 mm)	2-1/4" to 2-5/8" (57 to 67 mm)
AVT-1012	AVT-1013	1" (25 mm)	
AVT-1014	AVT-1015	1-1/4" (32 mm)	

'Shortie' Flush Mushroom Rivet Sets



AVT-1016

.401 Shank	.498 Shank	Face Diameter	Overall Length
AVT-1016	AVT-1017	3/4" (19 mm)	1-3/4" to 2" (45 to 51 mm)
AVT-1018	AVT-1019	1" (25 mm)	
AVT-1020	AVT-1021	1-1/4" (32 mm)	
AVT-1022	AVT-1023	1-1/2" (38 mm)	

RIVET GUNS & ACCESSORIES

Offset Flush Mushroom Sets

AVT-1024



.401 Shank	.498 Shank	Face Diameter	Overall Length
AVT-1024	AVT-1025	1" (25 mm)	3-1/2" (89 mm)
AVT-1026	AVT-1027	1" (25 mm)	5-1/2" (140 mm)
AVT-1028	AVT-1029	1" (25 mm)	7-1/2" (191 mm)
AVT-1030	AVT-1031	1-1/4" (32 mm)	3-1/2" (89 mm)
AVT-1032	AVT-1033	1-1/4" (32 mm)	5-1/2" (140 mm)
AVT-1035	AVT-1036	1-1/4" (32 mm)	7-1/2" (191 mm)

Flush Sets For Jiffy Type (Series 'B') Rivet Guns

AVT-1038

AVT-1048

AVT-1049



Note: Jiffy type (series 'B') rivet guns shown on page 27.

Straight Flush .401 Shank		
Part Number	Diameter	Overall Length
AVT-1038	3/8" (10 mm)	1-3/16" (30 mm)
AVT-1039	1/2" (13 mm)	
AVT-1042	5/8" (16 mm)	

Mushroom Flush .401 Shank		
Part Number	Diameter	Overall Length
AVT-1047	3/4" (19 mm)	1-1/4" (32 mm)
AVT-1048	1" (25 mm)	1-5/8" (41 mm)

Mushroom Flush w/Rubber Guard .401 Shank		
Part Number	Diameter	Overall Length
AVT-1049	3/4" (19 mm)	1-1/8" to 1-3/8" (29 to 35 mm)
AVT-1050	1" (25 mm)	
AVT-1051	1-1/4" (32 mm)	

No-Mar Flush Sets

AVT-1056



1" Face Diameter			
.401 Shank	.498 Shank	Face Type	Overall Length
AVT-1056	AVT-1057	Aluminum	3-1/2" (89 mm)
AVT-1058	AVT-1059	Brass	3-1/2" (89 mm)
AVT-1060	AVT-1061	Phenolic	3-1/2" (89 mm)

AVITORQ No-Mar Flush Rivet Sets

AVT-1034

AVT-1037



- AVITORQ design gets in closer, easier to use.
- Holds sheet firmly in down position while riveting.

.401 Shank	
Part Number	Overall Length
AVT-1034	3-1/2" (89 mm)
AVT-1037	5-1/2" (140 mm)

Flush Sets With Polyurethane Guard

AVT-1045



Ideal For Skin Work

- Manufactured from H-13 chromoly tool steel.
- Magnetic particle tested after heat treat & shot-peened for stress relief prior to polish.

.401 Shank	.498 Shank	Face Dia.	O.A.L.
AVT-1040	AVT-1041	3/4" (19 mm)	2-1/2" (64 mm)
AVT-1043	AVT-1044	1" (25 mm)	2-1/2" (64 mm)
AVT-1045	AVT-1046	1-1/4" (32 mm)	2.33" (59 mm)

Swivel Flush Sets

AVT-1052



.401 Shank	.498 Shank	Face Diameter	Overall Length
AVT-1052	AVT-1053	3/4" (19 mm)	3" (76 mm)
AVT-1054	AVT-1055	1-3/16" (30 mm)	3" (76 mm)

Swivel Flush Sets With Rubber Guard

AVT-1062



.401 Shank	.498 Shank	Face Type
AVT-1062	AVT-1063	1-1/4" (32 mm)

Double Offset Flush Rivet Set



.401 Shank	
Part Number	Overall Length
AVT-1064	5-1/2" (140 mm)

Gooseneck Flush Rivet Set



Note: We will make specials on this series, price on request.

.401 Shank	
Part Number	Overall Length
AVT-1066	7-1/4" (184 mm)

Limited Access Flush 'J' Rivet Set



.401 Shank		
.401 Shank	Face Width	Overall Length
AVT-1069	1"	5-1/2" (140 mm)

Limited Access Offset Flush Rivet Set

Flush 60° angle is perfect for limited access areas.



.401 Shank	
Part Number	Overall Length
AVT-1071	6-1/4" (159 mm)

Limited Access Flush 'T' Rivet Set



Long shank and "T" head design is deal for reaching into tight areas.

.401 Shank		
Part Number	Face Width	Overall Length
AVT-1065	1/2"	7" (178 mm)

Limited Access Offset Rivet Sets

Use Squeezer Sets With Your Rivet Gun



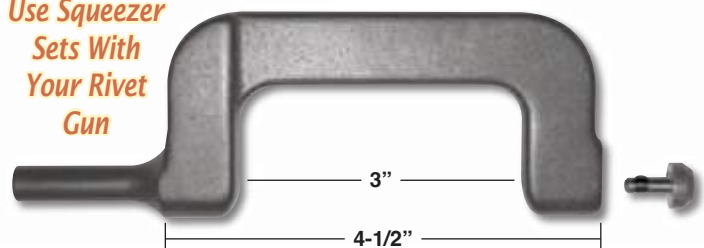
Accepts standard squeezer sets, dimple punch & die sets.

.401 Shank		
.401 Shank	Type	Overall Length
AVT-1067	.250" Set Hole	6-1/4" (159 mm)
AVT-1068	.187" Set Hole	

Note: Squeezer set not included (to order squeezer sets see pages 53-56).

Limited Access Rivet Set

Use Squeezer Sets With Your Rivet Gun



Accepts standard squeezer sets, dimple punch & die sets.

.401 Shank		
.401 Shank	Set Hole	Overall Length
AVT-1070	.187"	6-1/8" (156 mm)

Note: Squeezer set not included (to order squeezer sets see pages 53-56).



For Rivet Squeezer Sets See Page 53-56

AVITORQ Rivet Gun Set Packs

Includes the Most Popular Sizes



Straight .401 Shank

Part Number	Pack Type	Includes (1 each)	O.A.L.
AVT-1072	5 PC Straight	3/32", 1/8", 5/32", 3/16" AN470 (Universal) & Mushroom Flush with Guard	3-1/2" (89 mm)
AVT-1073	6 PC Straight	3/32", 1/8", 5/32", 3/16" AN470 (Univ.), Flush & Mushroom Flush with Guard	3-1/2" (89 mm)
AVT-1074	5 PC Straight	3/32", 1/8", 5/32", 3/16" AN470 (Universal) & Mushroom Flush	5-1/2" (140 mm)
AVT-1075	6 PC Straight	3/32", 1/8", 5/32", 3/16" AN470 (Universal), Flush & Mushroom Flush	5-1/2" (140 mm)
AVT-1076	5 PC Straight	3/32", 1/8", 5/32", 3/16" AN470 (Universal) & Mushroom Flush with Guard	2-1/2" (64 mm)
AVT-1077	6 PC Straight	3/32", 1/8", 5/32", 3/16" AN470 (Univ.), Flush & Mushroom Flush with Guard	2-1/2" (64 mm)



AVT-1078 Jiffy



AVT-1079 Jiffy

Jiffy .401 Shank

Part Number	Pack Type	Includes (1 each)	O.A.L.
AVT-1078	5 PC Jiffy	3/32", 1/8", 5/32", 3/16" AN470 (Universal) & Mushroom Flush with Guard	1-3/16" (30 mm)
AVT-1079	6 PC Jiffy	3/32", 1/8", 5/32", 3/16" AN470 (Univ.), Flush & Mushroom Flush with Guard	1-3/16" (30 mm)

Convenient & Economical



AVT-1081 Offset

AVT-1082 Offset

AVT-1083 Offset

Offset .401 Shank

Part Number	Pack Type	Includes (1 each)	O.A.L.
AVT-1080	5 PC Off. (not shown)	3/32", 1/8", 5/32", 3/16" AN470 (Universal) & Mushroom Flush	3-1/2" (89 mm)
AVT-1081	6 PC Offset	3/32", 1/8", 5/32", 3/16" AN470 (Universal), Flush & Mushroom Flush	3-1/2" (89 mm)
AVT-1082	5 PC Offset	3/32", 1/8", 5/32", 3/16" AN470 (Universal) & Mushroom Flush	5-1/2" (140 mm)
AVT-1083	6 PC Offset	3/32", 1/8", 5/32", 3/16" AN470 (Universal), Flush & Mushroom Flush	5-1/2" (140 mm)

Drive Sets For Huck® Stump Collars



.401 Shank		.498 Shank		Overall Length
Straight	Offset	Straight	Offset	
AVT-1088	AVT-1089	AVT-1090	AVT-1091	3-1/2" (89 mm)
AVT-1096	AVT-1097	AVT-1098	AVT-1099	5-1/2" (140 mm)
AVT-1104	AVT-1105	AVT-1106	AVT-1107	7-1/2" (191 mm)

Note: Select the drive set required (chart above), then add the desired size (chart below).
Example: For a .401 shank, 3-1/2" set for a 1/8" collar, use part number AVT-1088-4.

Huck Stump Collar Sizes		
1/8"	5/32"	3/16"
4	5	6

Bell Type Drive Sets For Huck® Stump Collars



.401 Shank		.498 Shank		Overall Length
Straight	Offset	Straight	Offset	
AVT-1108	AVT-1109	AVT-1110	AVT-1111	3-1/2" (89 mm)
AVT-1112	AVT-1113	AVT-1114	AVT-1115	5-1/2" (140 mm)
AVT-1118	AVT-1119	AVT-1120	AVT-1121	7-1/2" (191 mm)

Note: Select the drive set required (chart above), then add the desired size (chart below).
Example: For a .401 shank, 3-1/2" set for a 3/8" collar, use part number AVT-1108-12.

Huck Stump Collar Sizes		
1/4"	5/16"	3/8"
8	10	12

Drive Sets For Hi-Shear® Collars



.401 Shank		.498 Shank		Overall Length
Straight	Offset	Straight	Offset	
AVT-1128	AVT-1129	AVT-1130	AVT-1131	3-1/2" (89 mm)
AVT-1132	AVT-1133	AVT-1134	AVT-1135	5-1/2" (140 mm)
AVT-1136	AVT-1137	AVT-1138	AVT-1139	7-1/2" (191 mm)
AVT-1140	—	AVT-1141	—	2-3/4" (70 mm)

Note: Select the drive set required (chart above), then add the desired size (chart below).
Example: For a .401 shank, 3-1/2" set for a 1/8" collar, use part number AVT-1128-4.

Hi-Shear Collar Sizes			
1/8"	5/32"	3/16"	1/4"
4	5	6	8

Bell Type Drive Sets For Hi-Shear® Collars



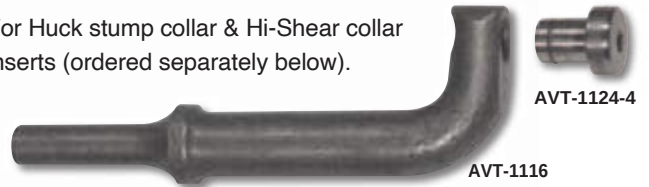
.401 Shank		.498 Shank		Overall Length
Straight	Offset	Straight	Offset	
AVT-1084	AVT-1085	AVT-1086	AVT-1087	3-1/2" (89 mm)
AVT-1092	AVT-1093	AVT-1094	AVT-1095	5-1/2" (140 mm)
AVT-1100	AVT-1101	AVT-1102	AVT-1103	7-1/2" (191 mm)

Note: Select the drive set required (chart above), then add the desired size (chart below).
Example: For a .401 shank, 3-1/2" set for a 3/8" collar, use part number AVT-1084-12.

Hi-Shear Collar Sizes	
5/16"	3/8"
10	12

Gooseneck Insert Adapters & Collar Inserts

For Huck stump collar & Hi-Shear collar inserts (ordered separately below).



Insert Adapters			
.401 Shank	.498 Shank	Insert Size	Overall Length
AVT-1116	AVT-1117	.406"	4-1/2" (114 mm)
AVT-1122	AVT-1123	.531"	

Collar Inserts			
Hi-Shear Type	Huck Type	Insert Size	For Collar Sizes
AVT-1124	AVT-1125	.406"	1/8", 5/32" & 3/16"
AVT-1126	AVT-1127	.531"	1/4", 5/16" & 3/8"

Collar Insert Ordering Note: Select the size & type insert required (chart above), then add the desired collar size (chart below). **Example:** For a .406" Hi-Shear insert for a 3/8" collar, use part number AVT-1124-12.

Collar Sizes					
1/8"	5/32"	3/16"	1/4"	5/16"	3/8"
4	5	6	8	10	12

Notched Sets For Hi-Shear® Collars



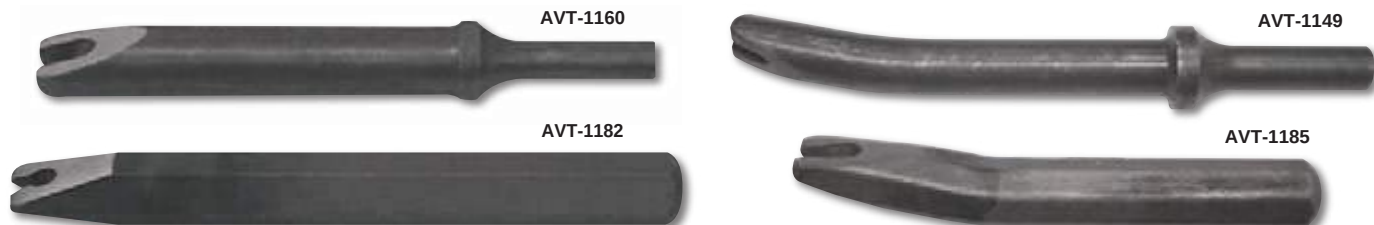
.401 Shank	.498 Shank	Overall Length
AVT-1142	AVT-1143	4-1/2" (114 mm)

Note: Select the drive set required (chart above), then add the desired size (chart below).
Example: For a .401 shank set for a 3/8" collar, use part number AVT-1142-8.

Hi-Shear Collar Sizes					
1/8"	5/32"	3/16"	1/4"	5/16"	3/8"
4	5	6	8	10	12

RIVET GUNS & ACCESSORIES

Huck/Hi-Shear® Collar Removers



- Saves valuable time, no damage or marring to metal skin.
- Available straight or with a 10° offset near the chisel edge.

Rivet Gun Type, 5-1/2" Overall Length						
Straight .401 Shank	10° Offset .401 Shank	Straight .498 Shank	10° Offset .498 Shank	Collar Size	Opening (+.001 -.000)	Tool Diameter
AVT-1144	AVT-1145	AVT-1146	AVT-1147	1/8"	.125"	1/2"
AVT-1148	AVT-1149	AVT-1150	AVT-1151	5/32"	.156"	1/2"
AVT-1152	AVT-1153	AVT-1154	AVT-1155	3/16"	.187"	5/8"
AVT-1156	AVT-1157	AVT-1158	AVT-1159	7/32"	.218"	5/8"
AVT-1160	AVT-1161	AVT-1162	AVT-1163	1/4"	.250"	5/8"
AVT-1164	AVT-1165	AVT-1166	AVT-1167	9/32"	.281"	3/4"
AVT-1168	AVT-1169	AVT-1170	AVT-1171	5/16"	.312"	3/4"
AVT-1172	AVT-1173	AVT-1174	AVT-1175	3/8"	.375"	13/16"

Hand Type							
Straight	10° Offset	Collar Size	Stock Hex	Opening (+/- .010)	Nose Width	Nose Height	Overall Length
AVT-1176	AVT-1177	1/8"	1/2"	.136"	9/16"	.083"	5-1/2" (140 mm)
AVT-1178	AVT-1179	5/32"	1/2"	.167"	9/16"	.104"	5-1/2" (140 mm)
AVT-1180	AVT-1181	3/16"	5/8"	.199"	11/16"	.125"	6-1/2" (165 mm)
AVT-1182	AVT-1183	1/4"	3/4"	.259"	13/16"	.165"	7" (178 mm)
AVT-1184	AVT-1185	5/16"	3/4"	.321"	7/8"	.206"	7" (178 mm)
AVT-1186	AVT-1187	3/8"	3/4"	.384"	7/8"	.248"	7" (178 mm)

One Piece Knockout Punches



AVT-1192

.401 Shank, 3-1/2" O.A.L.		.498 Shank, 3-1/2" O.A.L.	
Part Number	Rivet Size	Part Number	Rivet Size
AVT-1188	3/32"	AVT-1189	3/32"
AVT-1192	1/8"	AVT-1193	1/8"
AVT-1196	5/32"	AVT-1197	5/32"
AVT-1200	3/16"	AVT-1201	3/16"
AVT-1204	1/4"	AVT-1205	1/4"
AVT-1208	5/16"	AVT-1209	5/16"
AVT-1212	3/8"	AVT-1213	3/8"

Knockout Punch Sets		
.401 Shank	.498 Shank	Included Sizes
AVT-1216	AVT-1217	3/32", 1/8", 5/32" & 3/16"
AVT-1220	AVT-1221	3/32", 1/8", 5/32", 3/16" & 1/4"

Hi-Shear One Piece Knockout Punches



AVT-1190

.401 Shank, 3-1/2" O.A.L.		.498 Shank, 3-1/2" O.A.L.	
Part Number	Rivet Size	Part Number	Rivet Size
AVT-1190	3/32"	AVT-1191	3/32"
AVT-1194	1/8"	AVT-1195	1/8"
AVT-1198	5/32"	AVT-1199	5/32"
AVT-1202	3/16"	AVT-1203	3/16"
AVT-1206	1/4"	AVT-1207	1/4"
AVT-1210	5/16"	AVT-1211	5/16"
AVT-1214	3/8"	AVT-1215	3/8"

Hi-Shear Knockout Punch Sets		
.401 Shank	.498 Shank	Included Sizes
AVT-1218	AVT-1219	3/32", 1/8", 5/32" & 3/16"
AVT-1222	AVT-1223	3/32", 1/8", 5/32", 3/16" & 1/4"

AVITORQ 'Extreme Edge' Plastic Scrapers

Chemical Resistant

AVT-1225



Long Edge Life

.401 Shank

- Non-metallic construction perfect for aerospace work.
- Great for removing sealants, adhesives, stickers etc.
- For use with .401 shank handi type retainer spring.
- Resharpenable, non-marring scrapers are strong & lightweight.

Part Number	Uses
AVT-1225	Angled tip for sharp edges & corners.



AVT-1227

Part Number	Uses
AVT-1227	For narrow channels, slots & detail scraping.



AVT-1228

Part Number	Uses
AVT-1228	Great for removing hard surface coating material.



AVT-1230

Part Number	Uses
AVT-1230	Corner scraping without changing hold angle.



AVT-1232

Part Number	Uses
AVT-1232	Great for internally radiused surfaces.



AVT-1233

Part Number	Uses
AVT-1233	Concentrated scraping into corners & edges.

AVITORQ 'Extreme Edge' Plastic Scrapers (cont'd)



AVT-1224

Part Number	Uses
AVT-1224	Perfect for removing gaskets on alum. or steel.



AVT-1226

Part Number	Uses
AVT-1226	Delicate scraping that requires less wedge angle.



AVT-1229

Other Styles Available, Please Inquire

Part Number	Uses
AVT-1229	Delicate scraping over larger surface areas.

Phenolic Scraper

Resharpenable



Will Not Mar Metal

- Safely remove sealants, adhesives & stickers without marring.
- Chemically resistant, non-sparking & non-conductive.
- Handheld phenolic scraper also available on page 218.

.401 Shank	
Part Number	Dimensions
AVT-1231	6-1/2" Long* x 2" Wide x 3/8" Thick

*Overall length is 6-1/2", 4-1/2" less shank.



For Handheld Plastic Scrapers See Pages 217-219

RIVET GUNS & ACCESSORIES

Chisel & Cutter Tools



AVT-1234



AVT-1239



AVT-1238



AVT-1235

Part Number	Description	Shank	Uses
AVT-1234	Rivet Buster	.401	For shearing all types of rivets (5/8" blade width).
AVT-1235	Chisel	.401	For splitting nuts, shearing etc. (3/4" blade width).
AVT-1236	Chisel	.498	For breaking spot welds, splitting nuts, shearing etc. (3/4" blade width).
AVT-1237	Extension Chisel	.401	Same as AVT-1235 only 11" long (3/4" blade width).
AVT-1238	Scraper	.401	For removing sealant & deadener without heat (1-5/16" blade width).
AVT-1239	Ripper	.401	For clean, short radius cuts. Very tough.
AVT-1240	Cutter	.401	For straight & radius cuts. More precise.
AVT-1241	Sheet Metal Trimmer	.401	For edging sheet metal without stretch or distortion. Little touch-up grinding needed.
AVT-1242	Spot Weld Breaker	.401	For cutting spot welds, works well on molding & rivets.
AVT-1243	Radius Cutter	.401	For cutting a tight radius fast & smooth.

AVITORQ Break Loose Tools



AVT-1263

*Fits All .401
Shank Rivet
Guns*

*Utilizes The
Vibratory Force
Of A Rivet Gun*

Designed to utilize the vibratory effect of rivet guns, which when combined with turning movement (using the included wrench on hex body) will loosen almost any frozen rusted screw, bolt or nut.

Break Loose Tool - 3/8" Square Drive		
Part Number	Description	Overall Length
AVT-1250	Long Tool	7" (178 mm)
AVT-1253	Short Tool	4-1/8" (105 mm)

Note: Tools include wrench only, AVITORQ AVT-0863 rivet gun shown not included.



AVT-1262

Adapter Kits:

Square Drive Adapter & 4 Bits (one each for #2 & #3 Phillips, one for Frearson style, one AVT-3878 slotted for 6F-8R)

Adapter Kits	
Part Number	Description
AVT-1262	5 PC 3/8" Square Drive Adapter Kit
AVT-1263	Long Tool (AVT-1250) & Adapter Kit (AVT-1262)
AVT-1265	Short Tool (AVT-1253) & Adapter Kit (AVT-1262)

Swivel Dimpling Combo With Punch & Die Block



Style 'A'
Female Swivel Holder & Male Die Block



Style 'B'
Male Swivel Holder & Female Die Block

.401 Shank, Style 'A' Punch & Die Block Combo		.401 Shank, Style 'B' Punch & Die Block Combo	
Part Number	Rivet Dia.	Part Number	Rivet Dia.
AVT-1245	3/32"	AVT-1244	3/32"
AVT-1247	1/8"	AVT-1246	1/8"
AVT-1249	5/32"	AVT-1248	5/32"
AVT-1252	3/16"	AVT-1251	3/16"

.401 Shank Female Swivel Holder		.401 Shank Male Swivel Holder	
Part Number	Rivet Dia.	Part Number	Rivet Dia.
AVT-1254	3/32"	AVT-1255	3/32"
AVT-1256	1/8"	AVT-1257	1/8"
AVT-1258	5/32"	AVT-1259	5/32"
AVT-1260	3/16"	AVT-1261	3/16"

Die Blocks*	
Part Number	Shank
AVT-1264	.187"
AVT-1266	.250"

*Punch or die not included with die blocks. Punches & dies can be ordered separately on page 56.

Squeezer Set Adapter

Use Squeezer Sets In Your Rivet Gun



Accepts standard squeezer sets, dimple punch & die sets.

.401 Shank		
Part Number	Set Hole Size	Overall Length
AVT-1268	.187"	5" (127 mm)

Note: Squeezer sets shown not included.

Shank Adapter Sleeve



Sleeve nests in the barrel of the rivet hammer, converting a .498 bore to .401 quick and easy.

.498 Male Shank To .401 Female Shank	
Part Number	For Use With
AVT-1269	.401 Shank Sets

Note: Rivet set shown not included.

Retainer Spring Shank Adapters

Includes Retainer Spring



.401 Male Shank To .498 Female Shank		
Part Number	For Use With	Overall Length*
AVT-1275	.498 Shank Sets	3-3/4" (95 mm)

.498 Male Shank To .401 Female Shank		
Part Number	For Use With	Overall Length*
AVT-1276	.401 Shank Sets	3-3/4" (95 mm)

*Length without spring.

Extension Shank Adapters



- Quickly convert any standard rivet set to an extra long style.
- Other lengths available, please inquire.

.401 Male Shank To .401 Female Shank		
Part Number	For Use With	Overall Length
AVT-1278	.401 Shank Sets	8" (203 mm)

.498 Male Shank To .401 Female Shank		
Part Number	For Use With	Overall Length
AVT-1279	.401 Shank Sets	8" (203 mm)

Shank Adapter



.498 Male Shank To .401 Female Shank		
Part Number	For Use With	Overall Length
AVT-1267	.401 Shank Sets	4-1/2" (114 mm)

Rivet Set Protective Caps



- Color coded caps protect rivets & skin from damage.
- Sold individually, sets not included.
- Fits all standard 1/2" body sets & lasts for approx. 50-75 rivets.

Part Number	Rivet Size	Color
AVT-1270	3/32"	Red
AVT-1271	1/8"	Green
AVT-1272	5/32"	Yellow
AVT-1273	3/16"	White
AVT-1274	1/4"	Blue

Rivet Length Gauge

- Checks proper length of rivets before setting.
- For both universal head & flush rivets.



Part Number	For Rivets
AVT-1277	-3, -4, -5 & -6

Shop Head Rivet Gauge Set

- Measures minimum height & dia. of shop heads after setting.
- For both univ. head & flush rivets.



Part Number	For Rivets
AVT-1280	-3, -4, -5 & -6

RIVET GUNS & ACCESSORIES

Riveter's Tape

*Saves Time
& Money*



*Reduces
Manpower
On Larger
Riveting Jobs*

AVT-1282

- Adhesive-free center window ensures easy visibility of rivets.
- Static-free, self wound rolls are perforated for easy use.

Part Number	Width	Thickness	Roll Length
AVT-1282	1" (25.4 mm)	4 mil	108' (36 yards)
AVT-1283	4-1/2" (114.3 mm)		

Note: For use with aluminum rivets only. Other sizes available, please inquire.

AVITORQ Heavy-Duty Rivet Chopper

- Hardened steel construction with precision ground cutting surfaces.
- Steps vary in 1/16" increments.
- Bench or vise mounted.



*Heavy
Duty*

Part Number	Capacity (1/8" to 1/2" L)	Capacity (1/4" to 1/2" L)
AVT-1286	1/16" to 5/32"	3/16"

Rivet Cutters

*Cushioned
Grip Handles*



- Adjustable steps in 1/16" increments.
- Adjustable guide maintains cutting length.

Part Number	Type	Capacity*
AVT-1290	Standard	3/32" to 1/4"
AVT-1291	Heavy-Duty	3/32" to 1/4"

*AVT-1290 capacity of 1/4" for emergency use only.

Extension Handle Rivet Cutters

- 13" tubular extension handles provide additional leverage.
- Adjustable guide maintains cutting length.



Part Number	Capacity
AVT-1281	3/32" to 1/4"

Skin Wedge



- Quickly pry open two pieces of metal - easily separate faying surfaces between wing stiffeners and skin for seal installation.
- All steel construction is heat-treated to allow slight flexibility.

Single Tool	3PC Set	Dimensions
AVT-1284	AVT-1285	7" L x 1" W x 1/4" Thickness

AVITORQ Bucking Bar Sets



AVT-1288

Three Piece Kit:

AVT-1318, AVT-1295 & AVT-1319

Convenient & Economical

Part Number	Weight
AVT-1287	6.5 lbs (2.9 kgs)

Five Piece Kit:

AVT-1318, AVT-1295, AVT-1319, AVT-1331 & AVT-1347

Part Number	Weight
AVT-1288	8.25 lbs (3.7 kgs)

Ten Piece Kit:

AVT-1288 (above), AVT-1334, AVT-1313, AVT-1311, AVT-1298 & AVT-1307

Part Number	Weight
AVT-1289	15.75 lbs (7.1 kgs)

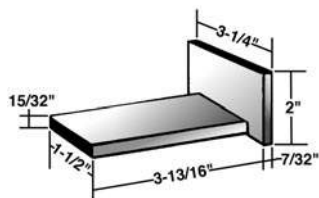
Fifteen Piece Kit:

AVT-1289 (above), AVT-1327, AVT-1335, AVT-1296, AVT-1309 & AVT-1305

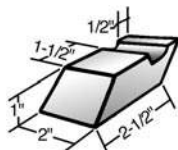
Part Number	Weight
AVT-1292	25.25 lbs (11.4 kgs)

Note: Please see following pages for dimensional data on individual bucking bars.

AVITORQ Precision Cast Bucking Bars

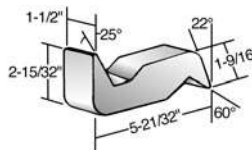


Part No.	Weight
AVT-1293	1.25 lbs (0.6 kgs)

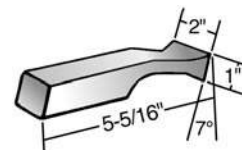


Part No.	Weight
AVT-1294	1.4 lbs (0.6 kgs)

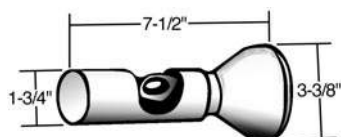
Machined



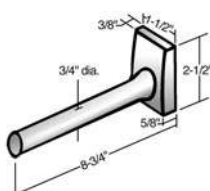
Part No.	Weight
AVT-1295	3.0 lbs (1.4 kgs)



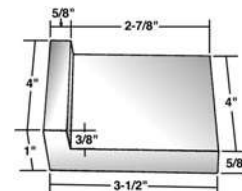
Part No.	Weight
AVT-1296	1.5 lbs (0.7 kgs)



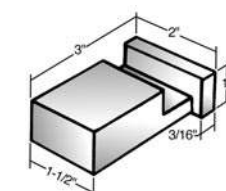
Part No.	Weight
AVT-1297	6.5 lbs (2.9 kgs)



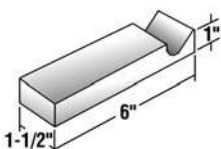
Part No.	Weight
AVT-1298	2.0 lbs (0.9 kgs)



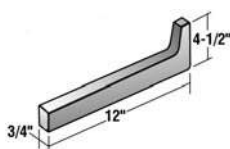
Part No.	Weight
AVT-1299	2.5 lbs (1.1 kgs)



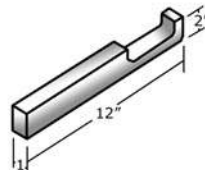
Part No.	Weight
AVT-1300	1.3 lbs (0.6 kgs)



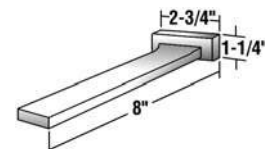
Part No.	Weight
AVT-1301	2.5 lbs (1.1 kgs)



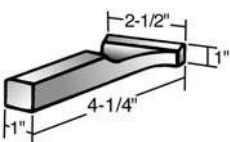
Part No.	Weight
AVT-1302	6.5 lbs (2.9 kgs)



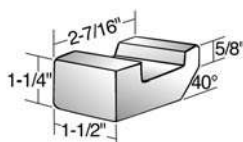
Part No.	Weight
AVT-1303	6.0 lbs (2.7 kgs)



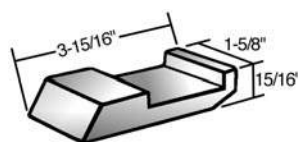
Part No.	Weight
AVT-1304	1.5 lbs (0.7 kgs)



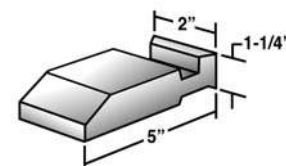
Part No.	Weight
AVT-1305	1.25 lbs (0.6 kgs)



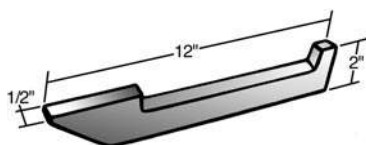
Part No.	Weight
AVT-1306	1.2 lbs (0.6 kgs)



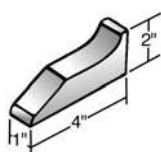
Part No.	Weight
AVT-1307	1.25 lbs (0.6 kgs)



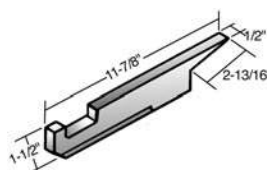
Part No.	Weight
AVT-1308	3.0 lbs (1.4 kgs)



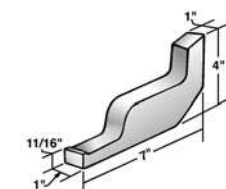
Part No.	Weight
AVT-1309	2.25 lbs (1.0 kgs)



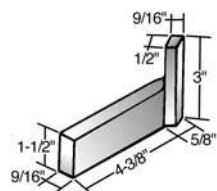
Part No.	Weight
AVT-1310	1.5 lbs (0.7 kgs)



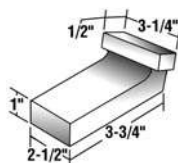
Part No.	Weight
AVT-1311	2.0 lbs (0.9 kgs)



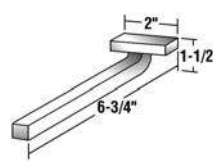
Part No.	Weight
AVT-1312	3.0 lbs (1.4 kgs)



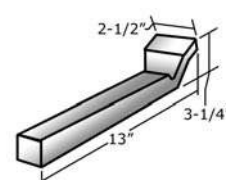
Part No.	Weight
AVT-1313	1.0 lbs (0.45 kgs)



Part No.	Weight
AVT-1314	3.75 lbs (1.7 kgs)

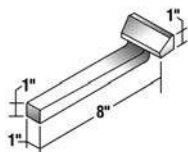


Part No.	Weight
AVT-1315	0.75 lbs (0.3 kgs)

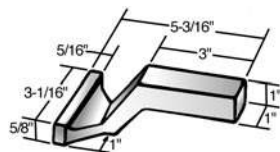


Part No.	Weight
AVT-1316	9.25 lbs (4.2 kgs)

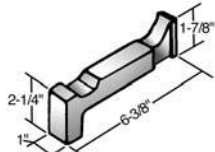
AVITORQ Precision Cast Bucking Bars (cont'd)



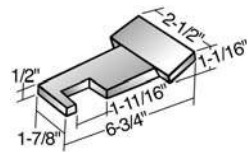
Part No.	Weight
AVT-1317	3.0 lbs (1.4 kgs)



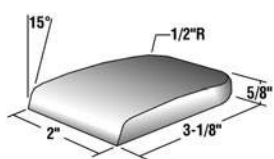
Part No.	Weight
AVT-1318	1.5 lbs (0.7 kgs)



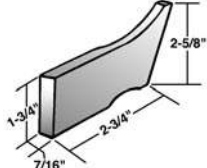
Part No.	Weight
AVT-1319	2.0 lbs (0.9 kgs)



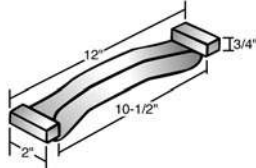
Part No.	Weight
AVT-1320	2.25 lbs (1.0 kgs)



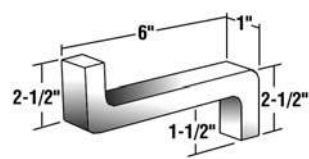
Part No.	Weight
AVT-1321	1.0 lbs (0.45 kgs)



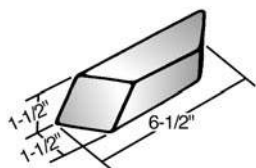
Part No.	Weight
AVT-1322	0.75 lbs (0.34 kgs)



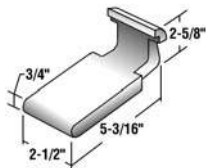
Part No.	Weight
AVT-1323	4.25 lbs (1.9 kgs)



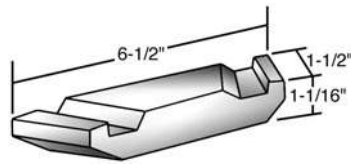
Part No.	Weight
AVT-1324	2.5 lbs (1.1 kgs)



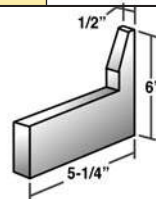
Part No.	Weight
AVT-1325	3.0 lbs (1.4 kgs)



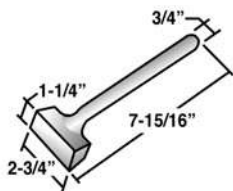
Part No.	Weight
AVT-1326	2.75 lbs (1.2 kgs)



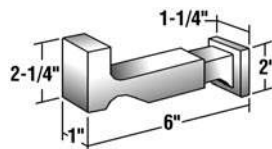
Part No.	Weight
AVT-1327	2.0 lbs (0.9 kgs)



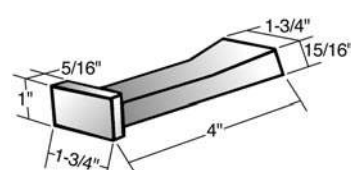
Part No.	Weight
AVT-1328	2.0 lbs (0.9 kgs)



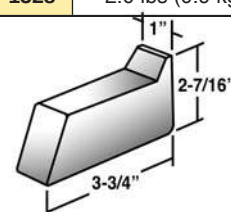
Part No.	Weight
AVT-1329	1.5 lbs (0.68 kgs)



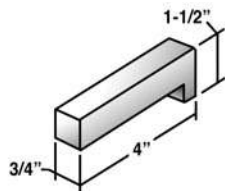
Part No.	Weight
AVT-1330	2.0 lbs (0.9 kgs)



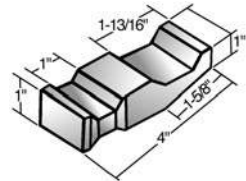
Part No.	Weight
AVT-1331	0.75 lbs (0.34 kgs)



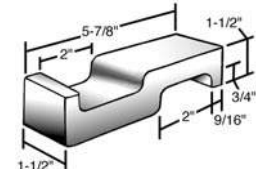
Part No.	Weight
AVT-1332	1.75 lbs (0.79 kgs)



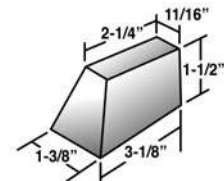
Part No.	Weight
AVT-1333	1.0 lbs (0.45 kgs)



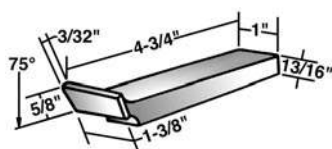
Part No.	Weight
AVT-1334	1.25 lbs (0.6 kgs)



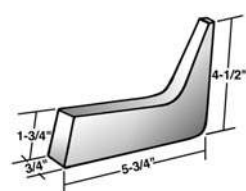
Part No.	Weight
AVT-1335	2.3 lbs (1.0 kgs)



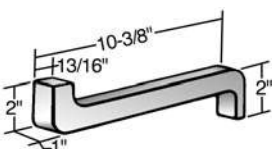
Part No.	Weight
AVT-1336	1.3 lbs (0.59 kgs)



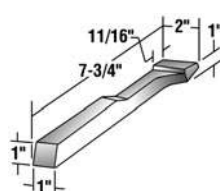
Part No.	Weight
AVT-1337	1.125 lbs (0.5 kgs)



Part No.	Weight
AVT-1338	2.25 lbs (1.0 kgs)

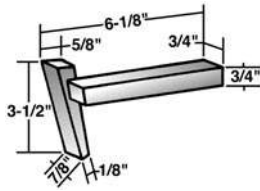


Part No.	Weight
AVT-1339	3.25 lbs (1.5 kgs)

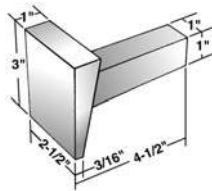


Part No.	Weight
AVT-1340	1.25 lbs (0.6 kgs)

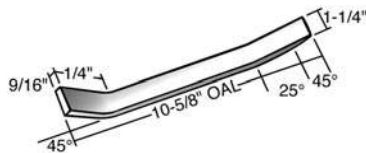
AVITORQ Precision Cast Bucking Bars (cont'd)



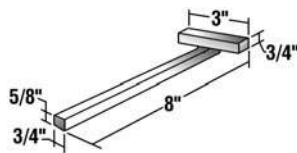
Part No.	Weight
AVT-1342	1.25 lbs (0.6 kgs)



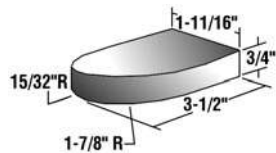
Part No.	Weight
AVT-1343	2.4 lbs (1.1 kgs)



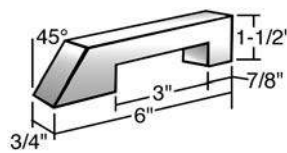
Part No.	Weight
AVT-1344	2.4 lbs (1.1 kgs)



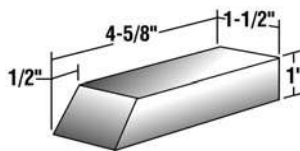
Part No.	Weight
AVT-1345	1.75 lbs (0.8 kgs)



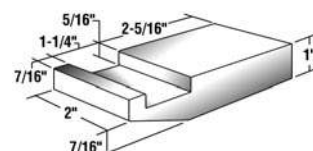
Part No.	Weight
AVT-1346	1.25 lbs (0.6 kgs)



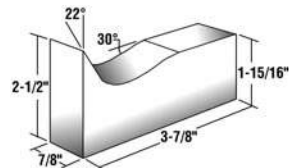
Part No.	Weight
AVT-1347	1.0 lbs (0.45 kgs)



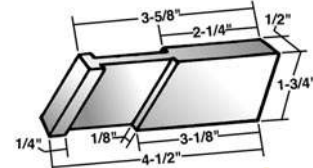
Part No.	Weight
AVT-1348	2.0 lbs (0.9 kgs)



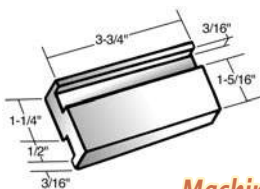
Part No.	Weight
AVT-1349	2.0 lbs (0.9 kgs)



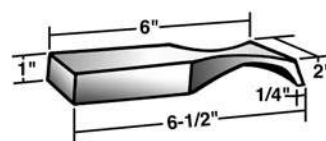
Part No.	Weight
AVT-1351	1.5 lbs (0.7 kgs)



Part No.	Weight
AVT-1352	0.9 lbs (0.4 kgs)



Part No.	Weight
AVT-1353	0.9 lbs (0.4 kgs)

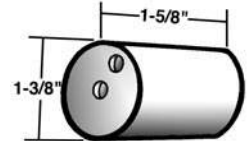


Part No.	Weight
AVT-1354	2.7 lbs (1.2 kgs)

AVITORQ Precision Cast Bucking Bars (cont'd)

Accepts .187 shank squeezer or dimple die sets - for close up work.

Part No.	Weight
AVT-1341	0.6 lbs (0.3 kgs)



Trauma Reducing Bucking Bar Kit



- Significantly reduces vibration associated with hammering rivets.
- Spring tension adjustment for different rivet sizes & materials.
- Quick-change handle design allows changing of bars in seconds.

Includes:

Cushioned Bucking Bar Handle, Five Bucking Bars In Assorted Styles, Adjustment Key & Fitted Carrying Case

Part Number	Description
AVT-1350	Complete 8 PC Kit

AVITORQ BUCKING BAR SPECIALS

Many other styles and shapes are available!

AVITORQ offers you the ability to custom design your own bucking bar style. Please inquire with your design for special bucking bars and we will quote with your design or one that is similar in form and function.



For Riveting Impact Protection See Page 230

Tungsten Bucking Bars



*Made In
The USA*



*Vibration
Reducing*

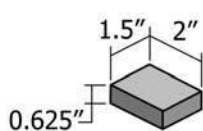
AVT-1369

AVT-1368

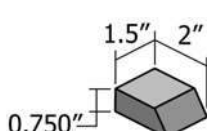
- High density tungsten bucking bars help reduce vibration.
- Deburred edges & polished working surfaces for trouble-free use.
- AVITORQ can fabricate custom bars from your drawings, please inq.

NEW Tungsten Bucking Bar Kits		
Part Number	Included:	Weight
AVT-1355	2PC : AVT-1360 & AVT-1380	4.57 lbs (2.1 kgs)
AVT-1356	4PC Kit, AVT-1370 & AVT-1378	9.09 lbs (4.1 kgs)
AVT-1357	8PC Kit, AVT-1362, AVT-1363, AVT-1364 & AVT-1371	17.91 lbs (8.1 kgs)

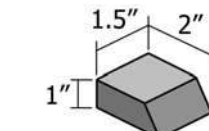
Note: Dimensions and weights are approximate and may vary slightly.



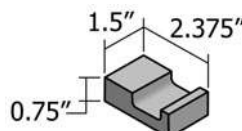
Part No.	Weight
AVT-1358	1.16 lbs (0.53 kgs)



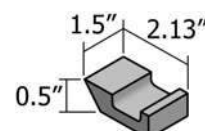
Part No.	Weight
AVT-1359	1.07 lbs (0.49 kgs)



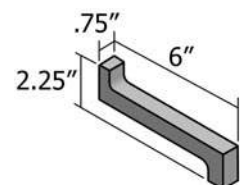
Part No.	Weight
AVT-1360	2.87 lbs (1.30 kgs)



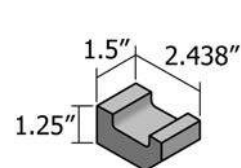
Part No.	Weight
AVT-1361	1.31 lbs (0.59 kgs)



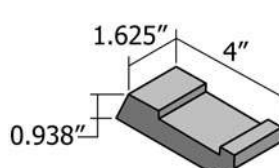
Part No.	Weight
AVT-1362	1.20 lbs (0.54 kgs)



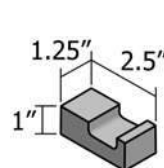
Part No.	Weight
AVT-1363	2.62 lbs (1.19 kgs)



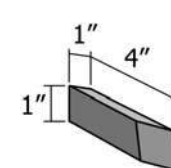
Part No.	Weight
AVT-1364	2.19 lbs (0.99 kgs)



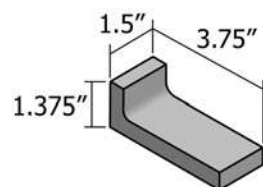
Part No.	Weight
AVT-1365	2.93 lbs (1.33 kgs)



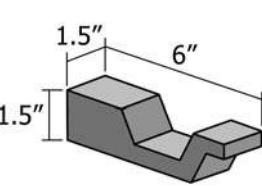
Part No.	Weight
AVT-1366	1.70 lbs (0.77 kgs)



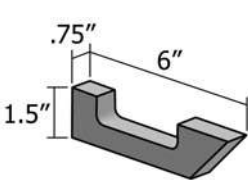
Part No.	Weight
AVT-1367	1.92 lbs (0.87 kgs)



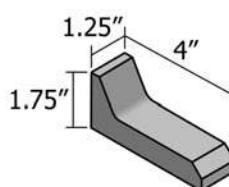
Part No.	Weight
AVT-1368	2.52 lbs (1.14 kgs)



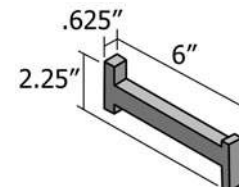
Part No.	Weight
AVT-1369	5.90 lbs (2.68 kgs)



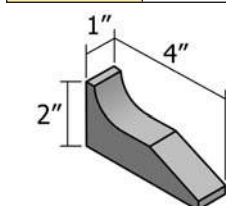
Part No.	Weight
AVT-1370	2.73 lbs (1.24 kgs)



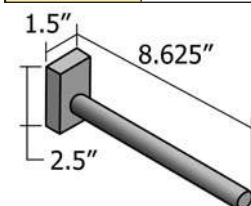
Part No.	Weight
AVT-1371	2.81 lbs (1.28 kgs)



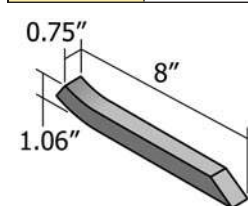
Part No.	Weight
AVT-1372	2.34 lbs (1.06 kgs)



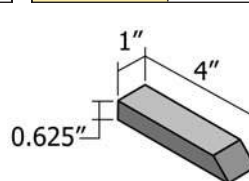
Part No.	Weight
AVT-1373	2.63 lbs (1.19 kgs)



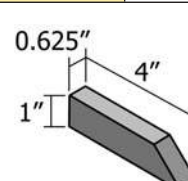
Part No.	Weight
AVT-1374	3.87 lbs (1.76 kgs)



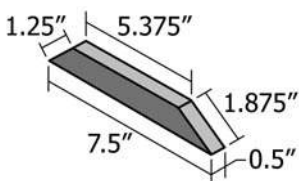
Part No.	Weight
AVT-1375	2.58 lbs (1.17 kgs)



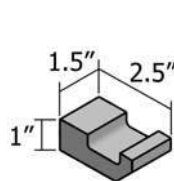
Part No.	Weight
AVT-1376	1.53 lbs (0.69 kgs)



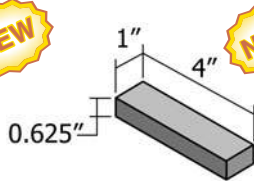
Part No.	Weight
AVT-1377	1.44 lbs (0.65 kgs)



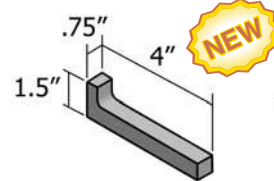
Part No.	Weight
AVT-1378	1.79 lbs (0.81 kgs)



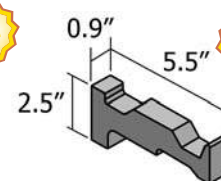
Part No.	Weight
AVT-1379	1.65 lbs (0.75 kgs)



Part No.	Weight
AVT-1380	1.70 lbs (0.77 kgs)



Part No.	Weight
AVT-1381	1.65 lbs (0.75 kgs)



Part No.	Weight
AVT-1382	3.85 lbs (1.75 kgs)

AVITORQ C-Yoke Riveters

*The Industry
Standard
For Years!*

AVT-1385

CE Approved & Certified

Used In Factories Worldwide!

Quiet, Easy Operation



AVT-1389

Clamping Force Exceeds Federal Specifications

Note: 11/16" closed yoke height. Includes swivel air inlet.

Single Cylinder					
Part Number	Reach	Force	Capacity	O.A.L.	Weight
AVT-1385	1-1/2"	3000 lbs	1/8" Alum. 3/32" Steel	10-5/16" (26 cm)	4.5 lbs (2.1 kgs)
AVT-1386*	N/A	3000 lbs	1/8" Alum. 3/32" Steel	9" (23 cm)	4.0 lbs (1.8 kgs)

High Force Single Cylinder					
Part Number	Reach	Force	Capacity	O.A.L.	Weight
AVT-1387	1-1/2"	3800 lbs	5/32" Alum. 3/32" Steel	10-5/16" (26 cm)	4.5 lbs (2.1 kgs)

Tandem Cylinder					
Part Number	Reach	Force	Capacity	O.A.L.	Weight
AVT-1389	1-1/2"	6000 lbs	3/16" Alum. 5/32" Steel	14" (36 cm)	5.5 lbs (2.5 kgs)
AVT-1390*	N/A	6000 lbs	3/16" Alum. 5/32" Steel	12" (31 cm)	5.0 lbs (2.3 kgs)

High Force Tandem Cylinder					
Part Number	Reach	Force	Capacity	O.A.L.	Weight
AVT-1391	1-1/2"	7600 lbs	1/4" Alum. 5/32" Steel	14" (36 cm)	5.5 lbs (2.5 kgs)

*Riveter less yoke. See pages 50-51 for optional AVITORQ c-yokes.

AVITORQ 360° Swivel C-Yoke Riveter

*Locks In Any
Position*

CE Approved & Certified



Note: 11/16" closed yoke height. Includes swivel air inlet.

Single Cylinder					
Part Number	Reach	Force	Capacity	O.A.L.	Weight
AVT-1393	1-1/2"	3000 lbs	1/8" Alum. 3/32" Steel	12" (31 cm)	4.5 lbs (2.1 kgs)

Chicago Pneumatic® C-Yoke Riveters

AVT-1383



Note: 11/16" closed yoke height. Includes swivel air inlet.

Single Cylinder					
Part Number	Reach	Force	Capacity	O.A.L.	Weight
AVT-1383	1-1/2"	3000 lbs	1/8" Alum. 3/32" Steel	10-5/16" (26.2 cm)	4.5 lbs (2.0 kgs)

Tandem Cylinder					
Part Number	Reach	Force	Capacity	O.A.L.	Weight
AVT-1384	1-1/2"	6000 lbs	3/16" Alum. 5/32" Steel	14" (35.6 cm)	5.5 lbs (2.5 kgs)

Chicago Pneumatic® 360° Swivel C-Yoke Riveter

- 13,500 pounds of force throughout the stroke.
- 360° swivel yoke locks in any position.



Note: 25/32" closed yoke height.

Compact & Powerful

Single Cylinder					
Part Number	Reach	Force	Capacity	O.A.L.	Weight
AVT-1388	2-1/8"	13,500 lbs	9/32" Alum. 1/4" Steel	19-7/8" (50.5 cm)	13.4 lbs (6.1 kgs)

Ultralite® C-Yoke Riveters

Lightweight Ergo Design



Sturdy Forged Jaws

Note: Stroke at maximum force is 1/8".

Tri-Cylinder					
Part No.	Reach	Force	Capacity	O.A.L.	Weight
AVT-1392	Varies (see below)	11,000 lbs	5/16" Alum. 1/4" Steel	21" (53 cm)	10.1 lbs (4.6 kgs)

Note: To order combine riveter part number (above) & desired yoke number (below).
Example: For 2" reach, 1-1/2" gap (3/16" set hole), part number would be AVT-1392-7481.

C-Yokes - 3/16" Set Hole				C-Yokes - 1/4" Set Hole			
Suffix	Reach	Gap	Thick.	Suffix	Reach	Gap	Thick.
7479	1-1/2"	1-1/4"	3/4"	3052	1-1/2"	1-1/4"	3/4"
7481	2"	1-1/2"	7/8"	6477	2"	1-1/2"	7/8"
7482	3"	1-1/2"	1-1/8"	6478	3"	1-1/2"	1-1/8"
7483	1-1/2"	2"	1"	6479	1-1/2"	2"	1"
7484	2-1/2"	1-3/8"	1"	6480	2-1/2"	1-3/8"	1"
7485	2-1/2"	1-3/4"	1-1/8"	6481	2-1/2"	1-3/4"	1-1/8"

RIVET SQUEEZERS & ACCESSORIES

Chicago Pneumatic® Heavy-Duty C-Yoke Riveters

Includes Safety Throttle Guard



AVT-1395

Note: 25/32" closed yoke height.

Single Cylinder					
Part Number	Reach	Force	Capacity	O.A.L.	Weight
AVT-1394	2-1/8"	6000 lbs	3/16" Alum. 5/32" Steel	17-1/2" (45 cm)	12.5 lbs (5.7 kgs)

Tandem Cylinder					
Part Number	Reach	Force	Capacity	O.A.L.	Weight
AVT-1395	2-1/8"	12,000 lbs	1/4" Alum. 7/32" Steel	21-3/4" (55 cm)	15.25 lbs (6.9 kgs)

High Power C-Yoke Riveter

Accepts Std. 3/16" Tooling



AVT-1399

Made In The USA

- Throttle control for precise rivet installation.
- Powerful and well balanced - full squeeze force at only 90 PSI.

Note: 11/16" closed yoke height. Includes swivel air inlet.

Tri-Cylinder					
Part Number	Reach	Force	Capacity	O.A.L.	Weight
AVT-1399	1-1/2"	9000 lbs	1/4" Alum. 3/16" Steel	18-3/4" (47.6 cm)	8.5 lbs (3.9 kgs)

Heavy-Duty High Power C-Yoke Riveters

Swivel & Fixed Yoke Models



AVT-1406

Made In The USA

- Includes large lever handle & swivel air inlet.
- Accepts standard 3/16" tooling (1/4" set hole yoke also available, please inquire).



Tri-Cylinder With Fixed Yoke					
Part Number	Reach	Force	Capacity	O.A.L.	Weight
AVT-1406	2-1/8"	12,000 lbs	5/16" Alum. 1/4" Steel	23-3/16" (58.9 cm)	15.5 lbs (7 kgs)

Tri-Cylinder With Swivel Yoke					
Part Number	Reach	Force	Capacity	O.A.L.	Weight
AVT-1409	2-1/8"	12,000 lbs	5/16" Alum. 1/4" Steel	23-3/16" (58.9 cm)	16.5 lbs (7.5 kgs)

AVITORQ Alligator Jaw Riveters

The Industry Standard For Years!

CE Approved & Certified



AVT-1397

Quiet, Easy Operation

Used In Factories Worldwide!



AVT-1403

Clamping Force Exceeds Federal Specifications

Note: 7/8" closed yoke height. Includes swivel air inlet.

Single Cylinder					
Part Number	Reach	Force	Capacity	O.A.L.	Weight
AVT-1396	1-1/2"	3000 lbs	1/8" Alum. 3/32" Steel	9-3/16" (23 cm)	3.75 lbs (1.7 kgs)
AVT-1397	2-1/4"	2200 lbs	1/8" Alum. 3/32" Steel	10" (25 cm)	4.25 lbs (1.9 kgs)
AVT-1398	3"	1800 lbs	3/32" Alum. 1/16" Steel	10-3/4" (27 cm)	4.50 lbs (2.1 kgs)

High Force Single Cylinder					
Part Number	Reach	Force	Capacity	O.A.L.	Weight
AVT-1400	1-1/2"	3900 lbs	5/32" Alum. 1/8" Steel	9-3/16" (23 cm)	3.75 lbs (1.7 kgs)
AVT-1401	2-1/4"	3000 lbs	1/8" Alum. 3/32" Steel	10" (25 cm)	4.25 lbs (1.9 kgs)
AVT-1402	3"	2400 lbs	3/32" Alum. 1/16" Steel	10-3/4" (27 cm)	4.50 lbs (2.1 kgs)

Tandem Cylinder					
Part Number	Reach	Force	Capacity	O.A.L.	Weight
AVT-1403	1-1/2"	6000 lbs	3/16" Alum. 5/32" Steel	11-3/16" (28 cm)	4.75 lbs (2.2 kgs)
AVT-1404	2-1/4"	4300 lbs	5/32" Alum. 1/8" Steel	12-3/4" (32 cm)	5.25 lbs (2.4 kgs)
AVT-1405	3"	3400 lbs	1/8" Alum. 3/32" Steel	13-1/2" (34 cm)	5.50 lbs (2.5 kgs)

High Force Tandem Cylinder					
Part Number	Reach	Force	Capacity	O.A.L.	Weight
AVT-1407	1-1/2"	7200 lbs	1/4" Alum. 3/16" Steel	11-3/16" (28 cm)	4.75 lbs (2.2 kgs)
AVT-1408	2-1/4"	5300 lbs	3/16" Alum. 1/8" Steel	12-3/4" (32 cm)	5.25 lbs (2.4 kgs)
AVT-1410	3"	4000 lbs	5/32" Alum. 1/8" Steel	13-1/2" (34 cm)	5.50 lbs (2.5 kgs)

Chicago Pneumatic® Alligator Jaw Riveters



AVT-1411

Note: 7/8" closed yoke height. Includes swivel air inlet.

Single Cylinder					
Part Number	Reach	Force	Capacity	O.A.L.	Weight
AVT-1411	1-1/2"	3000 lbs	1/8" Alum. 3/32" Steel	9-3/16" (23 cm)	3.75 lbs (1.70 kgs)
AVT-1413	2-1/4"	2200 lbs	1/8" Alum. 3/32" Steel	10" (25 cm)	4.19 lbs (1.90 kgs)
AVT-1414	3"	1800 lbs	3/32" Alum. 1/16" Steel	10-3/4" (27 cm)	4.41 lbs (2.00 kgs)

Tandem Cylinder					
Part Number	Reach	Force	Capacity	O.A.L.	Weight
AVT-1415	1-1/2"	6000 lbs	3/16" Alum. 5/32" Steel	11-7/8" (30 cm)	4.85 lbs (2.20 kgs)
AVT-1416	2-1/4"	4300 lbs	5/32" Alum. 1/8" Steel	12-3/4" (32 cm)	5.29 lbs (2.40 kgs)
AVT-1417	3"	3400 lbs	1/8" Alum. 3/32" Steel	13-1/2" (34 cm)	5.50 lbs (2.50 kgs)

CP® Heavy-Duty Alligator Jaw Riveters

Includes Safety Throttle Guard



AVT-1425

Closed Yoke Heights: -SGEL & -SKEL, 7/8"; -SREL, 1-1/2"; -SVEL, 3/4".

Single Cylinder					
Part Number	Reach	Force	Capacity	O.A.L.	Weight
AVT-1418	2-7/8"	5200 lbs	5/32" Alum. 1/8" Steel	19-1/2" (50 cm)	15.60 lbs (7.08 kgs)
AVT-1419	5"	3400 lbs	1/8" Alum. 3/32" Steel	21-5/8" (55 cm)	19.80 lbs (8.98 kgs)
AVT-1420	7"	3000 lbs	1/8" Alum. 3/32" Steel	23-5/8" (60 cm)	24.25 lbs (11.00 kgs)
AVT-1421	9-1/8"	3000 lbs	1/8" Alum. 3/32" Steel	25-3/4" (65 cm)	26.20 lbs (11.88 kgs)

Tandem Cylinder					
Part Number	Reach	Force	Capacity	O.A.L.	Weight
AVT-1422	2-7/8"	10,400 lbs	1/4" Alum. 3/16" Steel	23-3/4" (60 cm)	18.5 lbs (8.39 kgs)
AVT-1423	5"	6800 lbs	3/16" Alum. 5/32" Steel	25-7/8" (66 cm)	22.4 lbs (10.16 kgs)
AVT-1425	7"	6000 lbs	3/16" Alum. 5/32" Steel	27-7/8" (71 cm)	26.9 lbs (12.20 kgs)
AVT-1427	9-1/8"	6000 lbs	3/16" Alum. 5/32" Steel	30" (76 cm)	29.1 lbs (13.20 kgs)

Ultralite® Alligator Jaw Riveters

Ergonomic Design



- 50% weight reduction over similar models.
- High-strength forged jaws, precision bearings & shafts.

Tri-Cylinder					
Part No.	Reach	Force	Capacity	O.A.L.	Weight
AVT-1412	3"	10,000 lbs	1/4" Alum. 3/16" Steel	20-1/4" (50 cm)	9 lbs (4.0 kgs)
	5"	6800 lbs	3/16" Alum. 5/32" Steel	22-1/2" (55 cm)	11 lbs (5.0 kgs)
	7"	4400 lbs	5/32" Alum. 1/8" Steel	24-1/2" (62 cm)	13 lbs (6.0 kgs)

Note: To order combine riveter part number (above) & desired yoke number (below). Example: For 5" reach (1/4" set hole) riveter, part number would be AVT-1412-17147.

Alligator Yokes - 3/16" Set Hole			Alligator Yokes - 1/4" Set Hole		
Suffix	Reach	Travel	Suffix	Reach	Travel
17148	3"	7/8"	17149	3"	7/8"
17146	5"	1-1/4"	17147	5"	1-1/4"
19000	7"	1-3/4"	19010	7"	1-3/4"

High Power Alligator Jaw Riveters

Made In The USA



AVT-1424



AVT-1426

Powerful & Well Balanced



AVT-1428

More Power Than Our Tandem Series

- Accepts standard 3/16" tooling.
- Full squeeze force at only 90 PSI.
- Throttle control for precise rivet installation.

Note: 7/8" closed yoke height. Includes swivel air inlet.

Tri-Cylinder					
Part Number	Reach	Force	Capacity	O.A.L.	Weight
AVT-1424	1-1/2"	9000 lbs	1/4" Alum. 3/16" Steel	16" (40.6 cm)	7 lbs (3.2 kgs)
AVT-1426	2-1/4"	7000 lbs	3/16" Alum. 5/32" Steel	16-3/4" (42.5 cm)	7.5 lbs (3.4 kgs)
AVT-1428	3"	5200 lbs	3/16" Alum. 5/32" Steel	17-1/2" (44.4 cm)	8 lbs (3.6 kgs)

RIVET SQUEEZERS & ACCESSORIES

AVITORQ Deep Reach Alligator Jaw Riveter

CE Approved
& Certified



AVT-1429

Extra Long
12" Reach

Tandem Cylinder							
Part Number	Reach	Force	Capacity Aluminum	Capacity Steel	Closed Yoke Height	Overall Length	Weight
AVT-1429	12"	3000 lbs	1/8"	3/32"	1"	32-7/8" (84 cm)	39 lbs (17.7 kgs)

Heavy-Duty High Power Alligator Jaw Riveters



AVT-1430

Made In The USA



- Accepts standard 3/16" tooling.
- Includes large lever handle & swivel air inlet.

Note: 7/8" closed yoke height. Optional swivel yoke also available, please inquire.

Tri-Cylinder					
Part Number	Reach	Force	Capacity	O.A.L.	Weight
AVT-1430	3-1/4"	9800 lbs	9/32" Alum. 7/32" Steel	22-1/2" (57.1 cm)	14.5 lbs (6.8 kgs)
AVT-1431	5-1/4"	6800 lbs	1/4" Alum. 3/16" Steel	24-1/2" (62.2 cm)	16 lbs (7.3 kgs)
AVT-1432	7-1/4"	6000 lbs	3/16" Alum. 5/32" Steel	26-1/2" (67.3 cm)	17.5 lbs (7.9 kgs)
AVT-1434	9-1/8"	6000 lbs	3/16" Alum. 5/32" Steel	28-1/2" (72.4 cm)	21.5 lbs (9.8 kgs)

AVITORQ REBUILT PORTABLE RIVET SQUEEZERS

Rebuilt portable rivet squeezers may offer a practical alternative for production and maintenance applications. Enquire with AVITORQ for the required model, capacity, condition and service requirements.



For Air Hose & Accessories See Pages 208-210

Ultralite® Compact Alligator Jaw Riveter

The Smallest Squeezer In The Aviation Industry



AVT-1433

Uses Standard
3/16" Sets

Perfect For Limited Access Areas

- Ultra compact yet powerful - delivers 2200 pounds of force.
- Epoxy coated aluminum housing for a lightweight, durable tool.
- Smooth control safety throttle lever & 90° elbow swivel air inlet.

Note: Stroke at maximum force is 1/32".

Single Cylinder						
Part Number	Reach	Gap	Force	Capacity	Overall Length	Weight
AVT-1433	1"	1-7/64"	2200 lbs	1/8" Alum. 3/32" Steel	7-3/8" (18.6 cm)	2.2 lbs (1.0 kgs)

Power Booster Assembly



- Increase the power of your existing 351 type riveters.
- Unit can easily be installed by an experienced tool technician.

Part Number	For Use With
AVT-1435	CP0351 Type Riveters

Riveter Reach	Dural Capacity		Steel Capacity	
	Before	After	Before	After
2-7/8"	3/16"	5/16"	5/32"	1/4"
5"	5/32"	1/4"	1/8"	3/16"
7"	1/8"	3/16"	3/32"	5/32"
9-1/8"	1/8"	3/16"	3/32"	5/32"

AVITORQ Safety Lever Backhead

- Easily to install.
- Ergonomic design is less fatiguing to hold.
- More control for user to safely engage the riveter.



Part Number	For Use With
AVT-1436	214 Type Riveters

Throttle Guard Kit

Easy To Install

- Convert your older riveter to modern safety standards.
- Includes replacement pin and gasket (not shown).



Part Number	For Use With
AVT-1437	CP0351 Type Riveters

AVITORQ Rivet Squeezer Stands

Heavy-Duty Model

- Fits alligator jaw CP0351A & USI series riveters.
- Manufactured by AVITORQ for major aircraft companies.

Part No.	Includes	Height
AVT-1438	Floor Stand & Foot Control	45" (114 cm)

Lightweight Models

- Fits most c-yoke 214 series riveters.
- Custom riveter adaptations available, please inq.

Part No.	Includes	Height
AVT-1439	Floor Stand, Foot Control & Conversion Head	40" (102 cm)
AVT-1440	Bench Mount Stand, Foot Control & Conversion Head	—

Note: When ordering please specify make & model number of riveter to be mounted.

Ultralite Riveter Model

Designed specifically for Ultralite alligator jaw riveters (page 47).

Part No.	Includes	Height
AVT-1441	Floor Stand & Hands Free Foot Control	40" (102 cm)
AVT-1442	Hands Free Foot Control Only (portable)	—

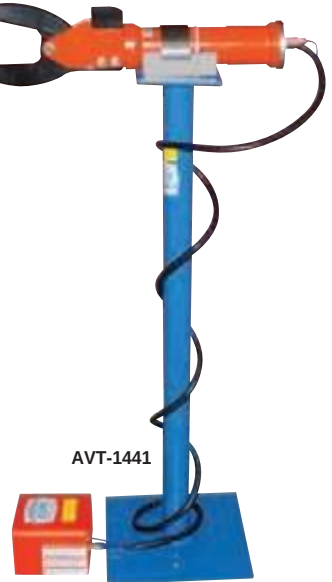


Simple & Rugged

AVT-1438



AVT-1439



AVT-1441

Original AVITORQ Designs

Note: Riveters shown not included.

Foot Control Attachments



AVT-1443
214 Type

Convert Your Riveter To Hands-Free Foot Control



AVT-1444
351 Type

Steel Safety Enclosure Prevents Accidental Operation

214 Type Foot Control

Includes foot throttle backhead & 7.5' hose (riveter sold separately).

Part Number	For Use With
AVT-1443	214 Type Riveters

351 Type Foot Control

Includes foot control with 6' cable (riveter sold separately).

Part Number	For Use With
AVT-1444	CP0351 Type Riveters

RIVET SQUEEZERS & ACCESSORIES

AVITORQ C-Yokes

- Yokes furnished with .187" set holes (.250" available, please inquire).
- Set holders may be required for some models, see below.

AVITORQ Can Fabricate Your Custom Yoke Designs, Please Inquire

1-5/16" Mount Spacing		
Part Number	Reach	Gap
AVT-1445	1-7/16"	1-1/4"
AVT-1446	3-1/2"	1-3/4"
AVT-1447	4-1/8"	2-1/2"
AVT-1448	4-1/2"	3-1/2"
AVT-1449	10"	3-1/2"
AVT-1450	13"	4"
AVT-1451	2"	2"
AVT-1452	2"	1-1/4"
AVT-1453	3"	1-1/4"
AVT-1454	2-1/2"	1-3/8"
AVT-1455	3-1/2"	1-1/2"

Note: AVT-1448, AVT-1449, AVT-1450 & AVT-1451 yokes include adj. threaded adapter.

1-5/8" Mount Spacing		
Part Number	Reach	Gap
AVT-1456	4-7/16"	1-5/8"
AVT-1457	20-1/2"	2-1/4"
AVT-1458	2-1/8"	1-1/8"

2-1/16" Mount Spacing		
Part Number	Reach	Gap
AVT-1459	2-1/8"	1-1/8"

1-5/16" Mount Spacing:

Fits all 214 type riveters, AVITORQ AVT-1385 and AVT-1389. Requires set holder, see below.

1-5/8" Mount Spacing:

Fits CP0351C & CP0351CUNEL (for CP#1 yoke frames).

2-1/16" Mount Spacing:

Fits CP0351CUNEL (for CP#2 yoke frames).

Set Holders	
Part Number	For Use With
AVT-1460	AVT-1445, AVT-1452
AVT-1461	AVT-1451
AVT-1462	AVT-1446, AVT-1453 & AVT-1454
AVT-1463	AVT-1448 & AVT-1455
AVT-1464	AVT-1447
AVT-1465	AVT-1449



AVITORQ 360° Swivel C-Yokes

- Adjustable tool holder eliminates the need for shimming.
- Takes standard .187" shank rivet sets (see pages 53-56).

1-5/16" Mount Spacing			
Part Number	Reach	Gap	For Use With
AVT-1466	1-1/2"	1-1/4"	AVITORQ 214C Series, CP0214CENEL
AVT-1467	3"		



AVITORQ Longeron C-Yoke

Excellent Maneuverability

- Specifically designed to reach over longerons, angles, hinges and other obstructions.
- Precision crafted & heat treated.
- Takes standard .187" shank rivet sets (see pages 53-56).



1-5/16" Mount Spacing			
Part Number	Reach	Gap	Inside Gap
AVT-1469	2-3/8"	1-1/4"	2-3/8"

AVITORQ C-Yokes For Semi-Tubular Rivets

- Designed especially for semi-tubular rivets up to 5/16".
- Takes standard .187" shank rivet sets (see pages 53-56).



Set Holder (Required)	
Part Number	For Use With
AVT-1460	AVT-1470 to AVT-1484

Yoke: 1-5/16" Mount Spacing		
Part Number	Reach	Gap
AVT-1470	1-1/8"	1-3/4"
AVT-1471	1-1/8"	2"
AVT-1472	1-1/8"	2-1/4"
AVT-1473	1-1/8"	2-1/2"
AVT-1475	1-1/8"	2-3/4"
AVT-1477	1-1/8"	3"
AVT-1479	1-1/8"	3-1/2"
AVT-1480	1-1/8"	4"
AVT-1481	1-1/8"	4-7/16"
AVT-1482	1-1/8"	3-1/4"
AVT-1483	1-1/8"	3-3/4"
AVT-1484	1-1/8"	4-1/4"

2 PC Quick-Change Yoke Pin Set

Change Yokes Fast



Pull rings allow user to swap out yokes quickly & easily.

For 214 Type Rivet Squeezers			
Part Number	Pin Diameter	Pin Length	Description
AVT-1485	1/4" (6.4 mm)	3/4" (19 mm)	2 PC Yoke Pin Set

Adjustable Set Holder

Fast & Easy Adjustments



- Replaces the rigid 2-9/16" set holder standard to most CP214 style single cylinder pneumatic squeezers.
- Eliminates the need to shim the dies and sets with washers.
- Heat treated 4130 steel investment casing with rolled threads.

Part Number	Description
AVT-1468	Adjustable Set Holder

Note: Not for use with tandem cylinder squeezers.

AVITORQ Alligator Jaw Assemblies

Precision Crafted & Heat Treated

AVT-1478

AVT-1476



Made In The USA

All Hardware Included

- The same yokes installed on our 34-214A & 34-725A riveters.
- Will also fit CP and other similar riveters.

Part Number	Reach	Gap
AVT-1474	1-1/2"	0.89"
AVT-1476	2-1/4"	0.89"
AVT-1478	3"	0.89"

Power Hand Rivet Squeezer

Our Most Powerful Model



- Deep throat with ample leverage & heat-treated tool steel jaws.
- Takes standard .187" shank rivet sets (see pages 53-56).

Power Hand Squeezer Kit:

Power Hand Rivet Squeezer, Four Universal AN470 Rivet Sets (3/32", 1/8", 5/32" & 3/16") & Two Flush Rivet Sets

3/16" Capacity (aluminum)			
Tool Only	Squeezer Kit	Reach	Gap
AVT-1486	AVT-1487	2-1/2"	1-1/8"

RIVET SQUEEZERS & ACCESSORIES

Stainless Steel Hand Rivet Squeezers

Rugged & Portable

Adjustable Ram

AVT-1488



- Stainless steel construction designed for lasting performance.
- Heat-treated on all wear & deflecting components.
- Takes standard .187" shank rivet sets (see pages 53-56).

Stainless Steel Squeezer Kit:

Squeezer, 3 Univ. AN470 (3/32", 1/8" & 5/32") & 2 Flush Sets

1/16" to 5/32" Capacity (aluminum)			
Tool Only	Squeezer Kit	Reach	Gap
AVT-1488	AVT-1489	1"	1-1/4"
AVT-1490	AVT-1491	1-1/2"	1-1/4"
AVT-1494	AVT-1495	2"	1-1/4"
AVT-1498	AVT-1499	2"	2"
AVT-1500	AVT-1501	3"	1-1/4"
AVT-1502	AVT-1503	4"	1-1/4"
AVT-1504	AVT-1505	5"	1-1/4"
AVT-1506	AVT-1507	6"	1-1/4"

Replacement Yokes		
Part No.	Reach	Gap
AVT-1508	1"	1-1/4"
AVT-1510	1"	1" Flush
AVT-1512	1-1/2"	1-1/4"
AVT-1514	2"	1-1/4"
AVT-1517	2"	2"
AVT-1518	2-7/8"	1-1/4"

Replacement Yokes		
Part No.	Reach	Gap
AVT-1509	3"	1-1/4"
AVT-1511	3-1/2"	1-1/4"
AVT-1513	4"	1-1/4"
AVT-1515	5"	1-1/4"
AVT-1516	6"	1-1/4"

Note: Narrow nose yokes avail., please inq.

3 PC Quick-Change Yoke Pin Sets

Pull rings allow user to swap out yokes quickly & easily.



Change Yokes Fast

For Texas & Tatco (THS) Style Hand Squeezers (above)	
Part Number	Description
AVT-1523	3 PC Yoke Pin Set



For Rivet Gauges & Rivet Cutters See Pages 39-40

360° Swivel Hand Rivet Squeezers

Adjustable Ram

AVT-1492



- Full 360° yoke can be locked in any position.
- Takes standard .187" shank rivet sets (see pages 53-56).
- Tool has a 3/8" stroke and a 5/8" ram adjustment (no washers are needed).

Swivel Squeezer Kit:

Squeezer, 3 Univ. AN470 (3/32", 1/8" & 5/32") & 2 Flush Sets

5/32" Capacity (aluminum)			
Tool Only	Squeezer Kit	Reach	Gap
AVT-1492	AVT-1493	1-1/2"	1-1/4"
AVT-1496	AVT-1497	3"	1-1/4"

DA Series 360° Swivel Hand Rivet Squeezers



3500 Pounds Of Squeezing Pressure

AVT-1521

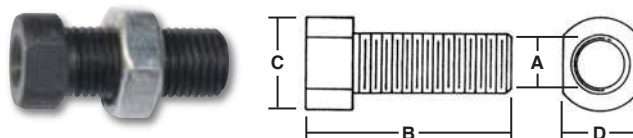
Adjustable Ram

- Full 360° yoke can be locked in any position.
- Uses squeezer sets or 3/8"-24 adapter dollie (below).

DA Series Squeezer Kit:

360° Hand Rivet Squeezer, Three Universal AN470 Rivet Sets (3/32", 1/8" & 5/32"), Two Flush Sets & Two Adapter Dollies

5/32" Capacity (aluminum)			
Tool Only	Squeezer Kit	Reach	Gap
AVT-1519	AVT-1520	2-1/2"	1-5/8"
AVT-1521	AVT-1522	6"	1-5/8"



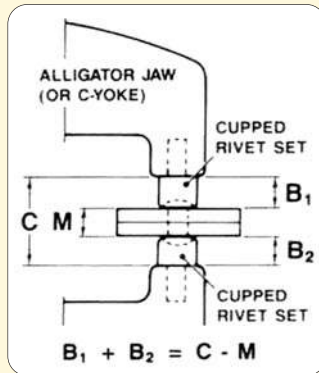
Adapter Dollie:

- Enables use of any of our .187" shank riveting or dimpling sets.
- 3/8"-24 thread size, includes lock nut.

Part Number	'A' Dim	'B' Dim	'C' Dim	'D' Dim
AVT-1524	.187"	1"	1/2"	7/16"

SELECTING RIVET SETS FOR YOUR COMPRESSION RIVETERS

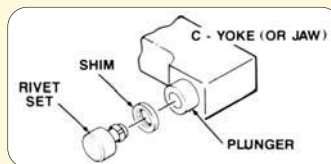
To develop maximum power, the riveter must drive the rivet near the end of the riveter's stroke. Therefore, the combined length of the two rivet sets must be correct. **Determine the correct length as follows:**



When two cupped rivet sets are used:

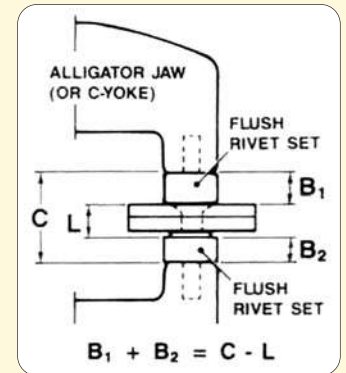
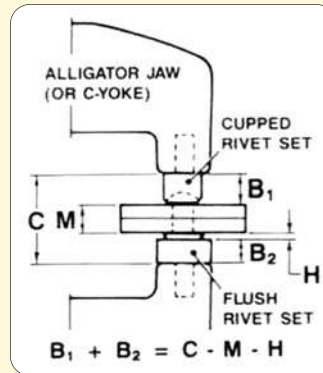
The length of the body dimensions of the two rivet sets (B_1 , B_2) should equal the closed height dimension of the yoke (C) minus the total thickness of material being riveted (M).

The closed height dimension of the yoke referred to is the opening available when the jaws or plunger are in extreme closed or forward position with both rivet sets removed.



When one cupped & one flush set are used:

The length of the body dimensions of the two rivet sets (B_1 , B_2) should equal the closed height dimension of the yoke (C) minus the total thickness of material being riveted (M) and the height of the finished rivet head driven by the flush set (H).

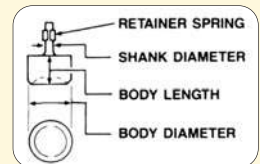


When two flush sets are used:

The length of the body dimensions of the two rivet sets (B_1 , B_2) should equal the closed height dimension of the yoke (C) minus the overall length of the rivet after it is driven (L).

If necessary, select rivet sets a little short and shim to proper length with hardened shims (1/64", 1/32", 1/16" or 1/8" thick).

Head or die configuration: Cupped or flush; available in button, round, brazier, universal or flat head configurations.



Cupped Squeezer Sets

Made In
The USA



- High alloy steel construction.
- Faces polished to high luster.
- Precision ground shanks.
- Heat-treated for long wear & tool life.

.187" Shank, 3/8" Dia.		.187" Shank, 1/2" Dia.		.250" Shank, 5/8" Dia.		.312" Shank, 5/8" Dia.		.375" Shank, 5/8" Dia.	
Part No.	Body L	Part No.	Body L	Part No.	Body L	Part No.	Body L	Part No.	Body L
—	1/8"	AVT-1525	1/8"	—	1/8"	—	1/8"	—	1/8"
AVT-1526	1/4"	AVT-1527	1/4"	AVT-1528	1/4"	AVT-1529	1/4"	AVT-1530	1/4"
AVT-1531	3/8"	AVT-1532	3/8"	AVT-1533	3/8"	AVT-1534	3/8"	AVT-1535	3/8"
AVT-1536	1/2"	AVT-1537	1/2"	AVT-1538	1/2"	AVT-1539	1/2"	AVT-1540	1/2"
AVT-1541	5/8"	AVT-1542	5/8"	AVT-1543	5/8"	AVT-1544	5/8"	AVT-1545	5/8"
AVT-1546	3/4"	AVT-1547	3/4"	AVT-1548	3/4"	AVT-1549	3/4"	AVT-1550	3/4"

Note: Select a set (charts above) & add the desired cupping (chart below). **Example:** For a .187" shank, 1/2" dia., 1/4" body length set with a 1/8" AN470 cupping, use part no. AVT-1779.

Cupping Size	Round AN430	Button AN435	Flat AN442	Brazier AN455	Mod. Brazier AN456	Universal AN470
1/16"	4302	4352	4422	4552	4562	4702
3/32"	4303	4353	4423	4553	4563	4703
1/8"	4304	4354	4424	4554	4564	4704
5/32"	4305	4355	4425	4555	4565	4705
3/16"	4306	4356	4426	4556	4566	4706
7/32"	4307	4357	4427	4557	4567	4707
1/4"	4308	4358	4428	4558	4568	4708
5/16"	43010	43510	44210	45510	45610	47010
3/8"	43012	43512	44212	45512	45612	47012

RIVET SQUEEZERS & ACCESSORIES

Squeezer Sets For AN450 Tubular Rivets



.187" Shank	.250" Shank	.312" Shank	.375" Shank	Body Length
AVT-1527	AVT-1528	AVT-1529	AVT-1530	1/4"
AVT-1532	AVT-1533	AVT-1534	AVT-1535	3/8"
AVT-1537	AVT-1538	AVT-1539	AVT-1540	1/2"
AVT-1542	AVT-1543	AVT-1544	AVT-1545	5/8"
AVT-1547	AVT-1548	AVT-1549	AVT-1550	3/4"

Note: Select a set (chart above), add rivet size & type (chart below). **Example:** For a .187" shank, 1/4" body length set with a 1/8" rivet size (flaring), use part no. AVT-1527-4502.

Semi-Tubular AN450 Cupping Sizes							
Size	1/16"	3/32"	1/8"	5/32"	3/16"	1/4"	5/16"
Flaring	4502	4503	4504	4505	4506	4508	45010
Anvil	2	3	4	5	6	8	10

Cupped Sq. Sets For BOEING® BACR15FT Type



.187" Shank	.250" Shank	Body Length
AVT-1527	AVT-1528	1/4"
AVT-1532	AVT-1533	3/8"
AVT-1537	AVT-1538	1/2"
AVT-1542	AVT-1543	5/8"
AVT-1547	AVT-1548	3/4"

Note: Select the size set required (charts above), then add the desired cupping (chart below). **Example:** For a .187" shank, 1/4" body length set with a 1/8" BACR15FT cupping, use part number AVT-1527-4704BAC.

Modified Universal AN470 Cupping Sizes			
3/32"	1/8"	5/32"	3/16"
4703BAC	4704BAC	4705BAC	4706BAC

7/32"	1/4"	9/32"
4707BAC	4708BAC	4709BAC

Soft Blank Sets

- Not heat-treated, easily machinable.
- Retainer spring provided.



.187" Shank		.187" Shank	
Part Number	Body Length	Part Number	Body Length
AVT-1600	1/4"	AVT-1601	3/4"
AVT-1602	3/8"	AVT-1603	7/8"
AVT-1605	1/2"	AVT-1604	1"
AVT-1607	5/8"		

Flush Squeezer Sets



.187" Shank, 3/8" Dia.		.187" Shank, 1/2" Dia.	
Part Number	Body Length	Part Number	Body Length
AVT-1551	1/8"	AVT-1552	1/8"
AVT-1553	3/16"	AVT-1554	3/16"
AVT-1555	1/4"	AVT-1556	1/4"
AVT-1557	3/8"	AVT-1558	3/8"
AVT-1559	1/2"	AVT-1560	1/2"
AVT-1561	5/8"	AVT-1562	5/8"
AVT-1563	3/4"	AVT-1564	3/4"
AVT-1565	7/8"	AVT-1566	7/8"
AVT-1567	1"	AVT-1568	1"

.250" Shank, 5/8" Dia.		.312" Shank, 5/8" Dia.	
Part Number	Body Length	Part Number	Body Length
AVT-1569	1/8"	AVT-1570	1/8"
AVT-1571	3/16"	AVT-1572	3/16"
AVT-1573	1/4"	AVT-1574	1/4"
AVT-1575	3/8"	AVT-1576	3/8"
AVT-1577	1/2"	AVT-1578	1/2"
AVT-1579	5/8"	AVT-1580	5/8"
AVT-1581	3/4"	AVT-1582	3/4"
AVT-1583	7/8"	AVT-1584	7/8"
AVT-1585	1"	AVT-1586	1"

.375" Shank, 3/4" Dia.		.375" Shank, 3/4" Dia.	
Part Number	Body Length	Part Number	Body Length
AVT-1587	1/8"	AVT-1588	5/8"
AVT-1589	3/16"	AVT-1590	3/4"
AVT-1591	1/4"	AVT-1592	7/8"
AVT-1594	3/8"	AVT-1593	1"
AVT-1595	1/2"		

Sleeved & Spring Loaded Flush Squeezer Sets

Spring tension holds workpiece steady during rivet installation.



.187" Shank			.250" Shank		
Part No.	I.D.	O.D.	Part No.	I.D.	O.D.
AVT-1596	3/8"	9/16"	AVT-1597	3/8"	9/16"
AVT-1598	19/64"	1/2"	AVT-1599	19/64"	1/2"

Shank Adapters

Part Number	Body Length	Shank	Accepts
AVT-1606	1/2"	.250"	.187"
AVT-1608	3/8"	.312"	.187"



Includes retainer spring.

Spacer Shims

Used for proper adjustment of squeezer set height to accommodate different material thickness.



.187" Shank		.250" Shank		.312" Shank	
Part No.	Thickness	Part No.	Thickness	Part No.	Thickness
AVT-1609	1/64"	AVT-1610	1/32"	AVT-1611	1/32"
AVT-1612	1/32"	AVT-1613	1/16"	AVT-1614	1/16"
AVT-1615	1/16"	AVT-1616	1/8"	AVT-1617	1/8"

Huck & Hi-Shear Squeezer Sets



AVT-1618



AVT-1625

Hi-Shear .187" Shank		Huck Lockbolt .187" Shank	
Part Number	Rivet Size	Part Number	Rivet Size
AVT-1618	1/8"	AVT-1619	1/8"
AVT-1620	5/32"	AVT-1621	5/32"
AVT-1622	3/16"	AVT-1623	3/16"
AVT-1624	1/4"	AVT-1625	1/4"
		AVT-1626	5/16"

Hi-Shear .250" Shank		Huck Lockbolt .250" Shank	
Part Number	Rivet Size	Part Number	Rivet Size
AVT-1628	1/8"	—	1/8"
AVT-1629	5/32"	AVT-1631	5/32"
AVT-1630	3/16"	AVT-1633	3/16"
AVT-1632	1/4"	AVT-1635	1/4"
AVT-1634	5/16"	AVT-1637	5/16"
AVT-1636	3/8"	AVT-1638	3/8"

Adapto® Hand Flaring Kit



AVT-1640

- Easy to use, specially designed for semi-tubular rivets.
- Complete kit includes tool with flaring & oval sets for 1/16" to 3/32", 1/8" to 5/32" & 3/16" rivets, riveting block & plastic case.

Part Number	Description
AVT-1640	Complete 13 PC Kit
AVT-1641	Flaring Tool Only

Rivet Squeezer Set Kits



AVT-1627

Set Assortment Kit Includes:

4 Universal AN470 Sets (1/8" body length: 3/32", 1/8", 5/32" & 3/16"), 6 Universal AN470 Sets (1/4" body length: 1/16", 3/32", 1/8", 5/32", 3/16" & 1/4"), 4 Round AN430 Sets (1/16", 3/32", 1/8" & 5/32"), 1 Flat AN442 Set (1/4" body length: 3/32"), 4 Flush Sets with 3/8" Diameter (1 each: 1/8", 1/4", 3/8" & 1/2" body length), 4 Flush Sets with 1/2" Diameter (1 each: 1/8", 1/4", 3/8" & 1/2" body length), Soft Blank Set (1/4" body length), Shim Post Holder, 6 Spacer Shims (2 each: 1/64", 1/32" & 1/16"), Metal Kit Box

Part Number	Description
AVT-1627	31 PC Set Assortment Kit



AVT-1639

AVT-1642

Flush Set Kit Includes:

8 Flush Sets with 3/8" Diameter (2 each: 1/8", 1/4", 3/8" & 1/2" body length), 12 Flush Sets with 1/2" Diameter (1 each: 1/8", 3/16", 1/4", 3/8", 1/2" & 5/8" body length), 3 Soft Blank Sets (1 each: 1/4", 3/8" & 1/2" body length), Shim Post Holder, 7 Spacer Shims (3 each: 1/64", 2 each: 1/32" & 1/16"), Metal Kit Box

Part Number	Description
AVT-1639	31 PC Flush Set Kit

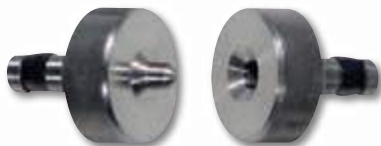
Dimple Die Kit Includes:

4 Dimple Punches (1/4" body length: 3/32", 1/8", 5/32" & 3/16"), 4 Dimple Dies (1/4" body length: 3/32", 1/8", 5/32" & 3/16"), Plastic Kit Box

Part Number	Description
AVT-1642	9 PC Dimple Die Kit

RIVET SQUEEZERS & ACCESSORIES

AN426 100° Dimple Punch & Dies



.187" Shank Punch & Die		
Part No. Punch	Part No. Die	Body Length
AVT-1643	AVT-1644	1/4"
AVT-1647	AVT-1648	3/8"
AVT-1651	AVT-1652	1/2"

.250" Shank Punch & Die		
Part No. Punch	Part No. Die	Body Length
AVT-1655	AVT-1656	1/4"
AVT-1657	AVT-1658	3/8"
AVT-1659	AVT-1660	1/2"

.312" Shank Punch & Die		
Part No. Punch	Part No. Die	Body Length
AVT-1661	AVT-1662	1/4"
AVT-1663	AVT-1664	3/8"
AVT-1665	AVT-1666	1/2"

.187" Shank Punch & Die Combos	
Part Number	Body Length
AVT-1667	1/4"
AVT-1668	3/8"
AVT-1669	1/2"

.187" Shank Combo Set (3/32", 1/8", 5/32" & 3/16")	
Part Number	Body Length
AVT-1642	1/4"

Note: Select a size punch, die or combo (charts above) & add the rivet size (chart below).
Example: For .187" shank, 1/4" body punch with a 1/8" rivet size, use part no. AVT-1643-4264

Countersunk AN426 Cupping Sizes					
1/16"	3/32"	1/8"	5/32"	3/16"	1/4"
4262	4263	4264	4265	4266	4268

Dimple Punch & Dies For 100° Screws



.187" Shank	
Part Number	Screw Size
AVT-1678	#6
AVT-1681	#8
AVT-1684	#10

.187" Shank	
Part Number	Screw Size
AVT-1679	1/4"
AVT-1680	5/16"

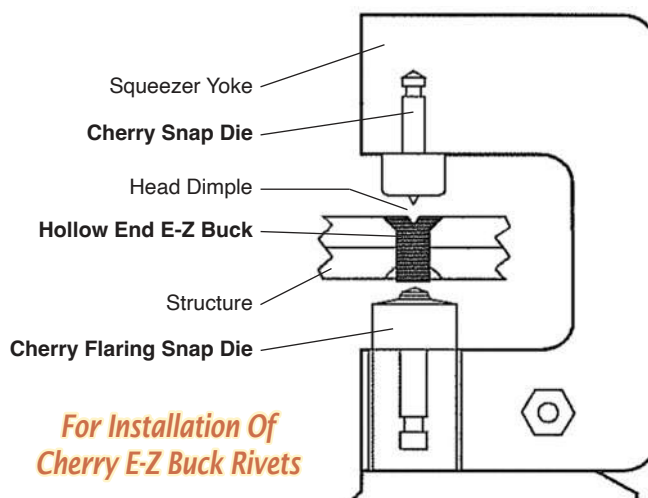
'Spring Back' Dimple Die Sets

Form Perfect
100° Dimples



.187" Shank		.187" Shank	
Part Number	Rivet Size	Part Number	Rivet Size
AVT-1645	3/32"	AVT-1646	#6
AVT-1649	1/8"	AVT-1650	#8
AVT-1653	5/32"	AVT-1654	#10

Cherry® Hollow End E-Z Buck Dies



For Installation Of
Cherry E-Z Buck Rivets

These dies should be used with automatic riveting machines or by a squeezer of sufficient size to provide the upset loads listed below. The snap dies are designed to center the squeezer on the rivet and prevent damage to the structure.

Acceptable Upset Loads	
Rivet Diameter	Upset Load +/- 200 lbs
1/8" (-4)	2500 lbs (1134 kgs)
5/32" (-5)	2700 lbs (1225 kgs)
3/16" (-6)	3000 lbs (1361 kgs)
7/32" (-7)	3750 lbs (1701 kgs)

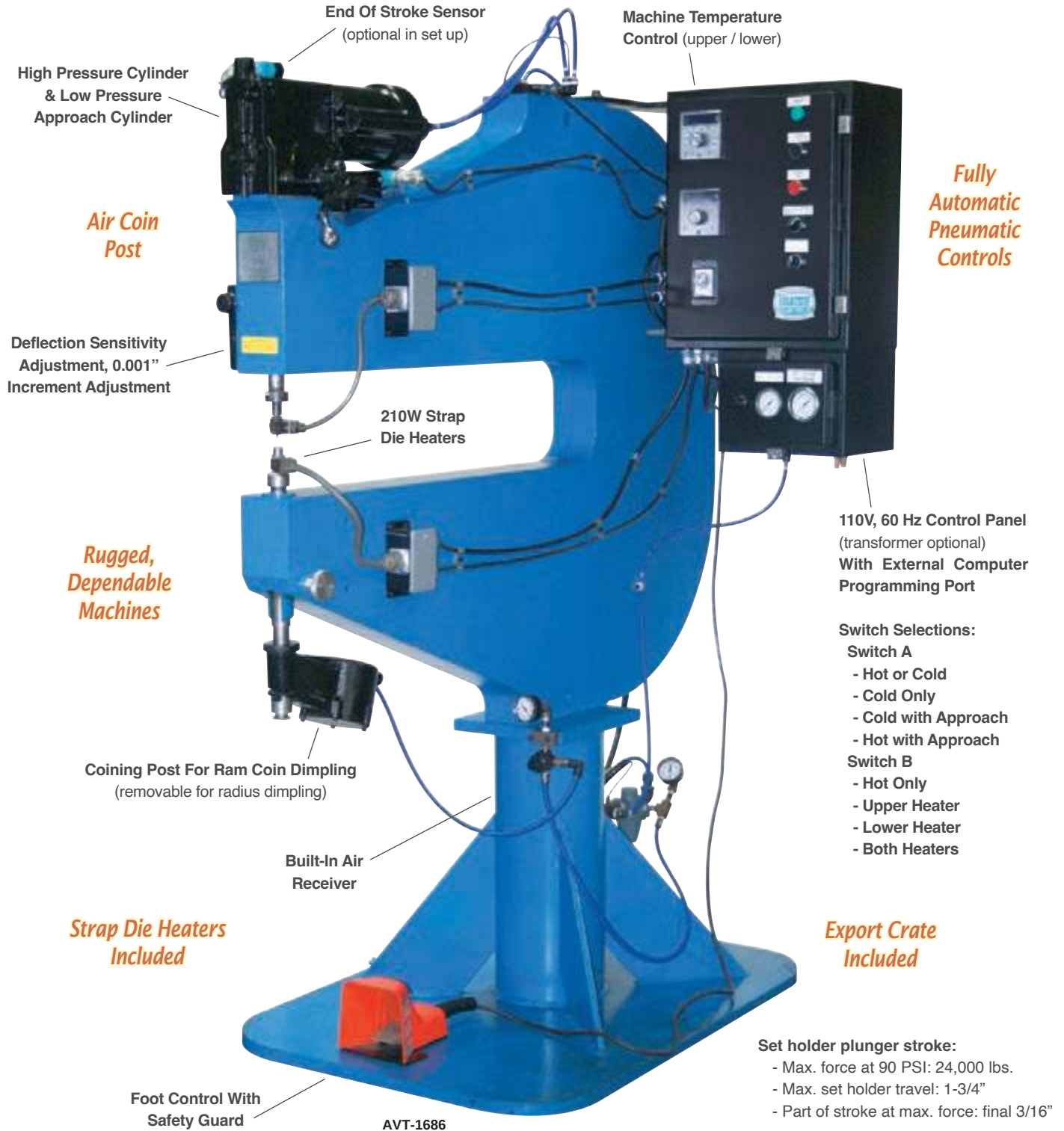
Cherry Flaring Snap Dies		
3/16" Mount Dia.	1/4" Mount Dia.	Rivet Diameter
AVT-1670	AVT-1671	1/8" (-4)
AVT-1672	AVT-1673	5/32" (-5)
AVT-1674	AVT-1675	3/16" (-6)
AVT-1676	AVT-1677	7/32" (-7)

Cherry Snap Dies* (optional)		
3/16" Mount Dia.	1/4" Mount Dia.	Rivet Diameter
AVT-1682	AVT-1683	All Sizes

*Each die fits all flaring diameters.

Hot Ram Coin Dimplers

Freight terms on quotation



- New automatic electronic controls, controller uses preset ranges.
- Foot control with guard, parts list & instruction manual included.

Note: Subject to availability - yoke styles may vary. Tooling not included. Also available in 220V, 50 Hz (please inquire).

Part Number	Reach	Gap	Heat Controller Temp. Range	Dwell Timer Range	Voltage (input)	Approximate Shipping Weight
AVT-1685	24" (61 cm)	8" (20.3 cm)	0 to 800°	0 to 30 Seconds	110V, 60 Hz	2200 lbs (998 kgs)
AVT-1686	36" (91 cm)					3200 lbs (1452 kgs)

STATIONARY RIVETERS & DIMPLERS

Cold Riveter-Dimplers

Freight terms on quotation



An excellent riveting platform, includes foot control with guard.

Note: Subject to availability - yoke styles may vary. Tooling not included.

3/8" Mild Steel & Aluminum Capacity	
Part Number	Reach
AVT-1687	24" (61 cm)
AVT-1689	36" (91 cm)

End Plate & Control Upgrade

Eliminate Air Leaks & Erratic Operation

Better Control In Forward & Reverse

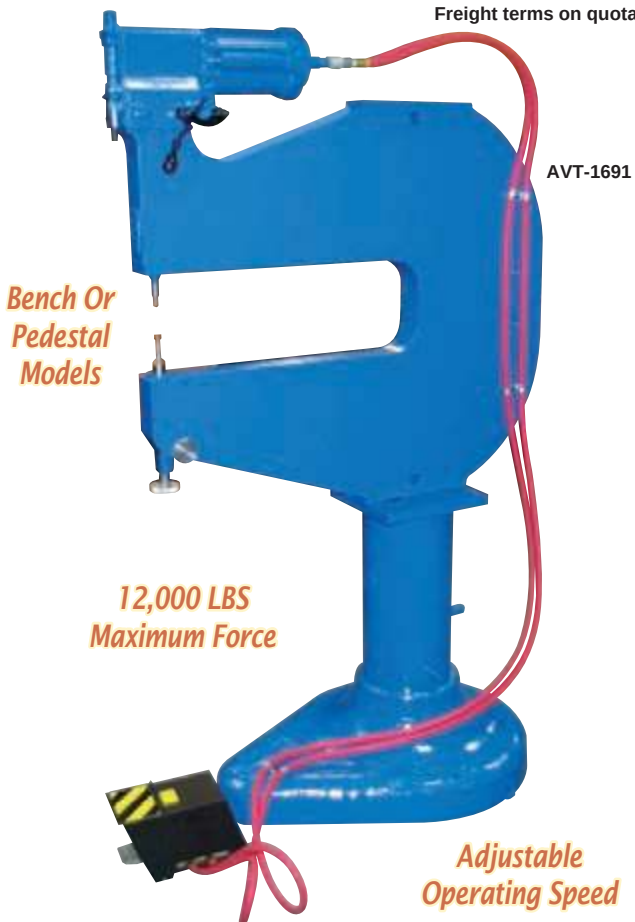


AVITORQ exclusive developed especially for older CP450 machines.

Part Number	For Use With
AVT-1693	Type D Models
AVT-1695	Type EA Models

Rebuilt Heavy-Duty Riveters

Freight terms on quotation



- Rolling cam & wedge assembly multiplies piston compressive force.
- Short stroke adjustment for varied starting positions & fast operation.
- Includes foot control with guard, uses 0.312" shank sets.

Note: Subject to availability - yoke styles may vary. Tooling not included.

Bench Models - 7/32" Mild Steel & 1/4" Aluminum Capacity	
Part Number	Reach
AVT-1688	12" (30.5 cm)
AVT-1690	18" (45.7 cm)

Pedestal Models - 7/32" Mild Steel & 1/4" Aluminum Capacity	
Part Number	Reach
AVT-1691	24" (61 cm)
AVT-1692	36" (91 cm)

Strap Die Heaters

- Designed for continuous operation at 750°F or less.
- Includes thermocouple, flexible cable & quick disconnect plugs.



Note: For 39-450EA models (see previous page), ZT1807, ZT1812, ZT2418, ZT2427.

210 Watts, 110V AC Input - Cannon Connector	
Part Number	Style
AVT-1694	Offset
AVT-1696	Straight

Heavy-Duty Bench/Pedestal Mount Riveters

Freight terms on quotation



- Heavy-duty riveter designed to tackle the largest riveting jobs.
- Included foot control allows for easy hands-free operation.
- Can be bench or pedestal mounted (not included).

1/4" Steel & 5/16" Aluminum Capacity

Part Number	Reach	Gap	Shipping Weight
AVT-1703	9-1/2"	3-1/2"	178 lbs (81 kgs)
AVT-1704	12-1/2"	3-1/2"	221 lbs (100 kgs)
AVT-1705	24"	4-1/2"	681 lbs (309 kgs)

Note: AVT-1725 pedestal shown not included, see next page for more info.

Rivet Set Adapters



For adapting squeezer type rivet sets to hot & cold riveter-dimplers.

Part Number	Internal Dia. ('A')	Outer Dia. ('B')	Nose Length ('C')	Shank Dia. ('D')
AVT-1708	3/16"	7/16"	1-7/8"	5/8"
AVT-1709	1/4"	9/16"	1-7/8"	5/8"
AVT-1711	5/16"	21/32"	1-7/8"	5/8"
AVT-1713	3/8"	3/4"	1-7/8"	5/8"

AVITORQ Bench/Pedestal Mount Riveters

Freight terms on quotation



- 9/16" maximum stroke, uses 0.187" shank sets.
- AVITORQ can fabricate other yoke styles, please inquire.

Standard, 3/16" Aluminum Capacity

Part Number	Gap	Reach	Force
AVT-1697	3-1/2"	4-1/2" (11.4 cm)	6000 lbs
AVT-1698	3-1/2"	10" (25.4 cm)	
AVT-1699	4"	13" (33 cm)	

High Force, 3/16" Aluminum Capacity

Part Number	Gap	Reach	Force
AVT-1700	3-1/2"	4-1/2" (11.4 cm)	7600 lbs
AVT-1701	3-1/2"	10" (25.4 cm)	
AVT-1702	4"	13" (33 cm)	

Note: Tooling not included. See next page for optional AVT-1725 pedestal (not shown).

Dimpler Pressure Pad Dollies



Spring loaded sleeve presses sheets together before rivet is driven.

Part Number	Face Diameter	Shank Diameter
AVT-1706	3/8"	5/8"
AVT-1707	1/2"	

Flush Sets

Used on all hot & cold riveter-dimplers.



Part Number	'A' Diameter	'B' Nose Length
AVT-1710	23/64"	2-1/4"
AVT-1712	31/64"	2-1/4"
AVT-1714	39/64"	2-1/4"

STATIONARY RIVETERS & DIMPLERS, AVITORQ CUSTOM KITS

Hot Dimpler Punch & Dies



AVT-1718

AVT-1717

For AN426 100° rivets in pilot drill & dimple type operations.

3/8" Shank		
Punch	Die	Size
AVT-1715	AVT-1716	3/32"
AVT-1717	AVT-1718	1/8"
AVT-1719	AVT-1720	5/32"
AVT-1721	AVT-1722	3/16"
AVT-1723*	AVT-1724	1/4"

*Standard long flanged.

Pedestal Unit



*Sturdy
Angle Iron
Construction*

*Fits All CP
Type Pedestal
Riveters*

Part Number	Overall Height	Weight
AVT-1725	27-1/2" (70 cm)	54 lbs (24.5 kgs)

AVITORQ Homebuilder's Basic Tool Kit



*Great Starter Set For Building Or
Repairing Your Own Aircraft*

Part Number	Description
AVT-1726	Complete 492 PC Kit

Tools Included		
Part Number	Pcs.	Description
AVT-1730	1	Pilot Countersink
AVT-1732	1	
AVT-1734	1	
AVT-1735	1	
AVT-1737	1	
AVT-1739	1	
AVT-1742	1	Countersink Cage
AVT-1745	2	Jobber's Length Drill
AVT-1748	2	

Tools Included		
Part Number	Pcs.	Description
AVT-1731	2	Jobber's Length Drill
AVT-1733	1	Fluting Plier
AVT-1290	1	Rivet Cutter
AVT-1736	1	Hand Seamer
AVT-1738	1	Cleco Plier
AVT-1740	1	Auto Deburr Tool
AVT-1743	150	'M' Type Sheet Metal Fastener
AVT-1746	150	
AVT-1749	150	

Tools Included		
Part Number	Pcs.	Description
AVT-1727	1	Rivet Set 3-1/2" O.A.L.
AVT-1728	1	
AVT-1729	1	Flush Rivet Set
AVT-0968	1	
AVT-1034	1	No-Mar Rivet Set
AVT-0978	1	Flush Rivet Set
AVT-1010	1	
AVT-1010	1	Mushroom Rivet Set
AVT-1325	1	Bucking Bar
AVT-1318	1	
AVT-1307	1	
AVT-1319	1	
AVT-0890	1	Power Regulator
AVT-0896	1	Beehive Retainer Spring
AVT-0900	1	Handi Retainer Spring
AVT-0863	1	Rivet Gun
AVT-0762	1	Drill Stop
AVT-0756	1	
AVT-0754	1	Aviation Snip Set
AVT-1741	3pc	
AVT-1744	1	Sturdy Plastic Tool Box
AVT-1747	1	Aviation Maint. Handbook
AVT-0014	1	3/8" Reversible Air Drill

AVITORQ Professional Rivet Gun Kits

Our #1 Selling Kit

- Virtually all the tools you need for riveting, in handy kit form.
- For pro sheet metal mechanics, serious home builders and students.

Sturdy Molded Plastic Case

Complete Kit		
Part Number	Rivet Gun Included	Shank
AVT-1750	AVT-0863	.401
AVT-1751	AVT-0865	.401
AVT-1752	AVT-0862	.401
AVT-1753*	AVT-0869	.498
AVT-1754*	AVT-0868	.498

*Kits AVT-1753 & AVT-1754 come packed in sturdy plastic toolbox.



Tools Included (.401 Shank Kits)	
Part Number	Description
AVT-1727	3/32" Universal AN470 Rivet Set, 3-1/2" Overall Length
AVT-1728	1/8" Universal AN470 Rivet Set, 3-1/2" Overall Length
AVT-1729	5/32" Universal AN470 Rivet Set, 3-1/2" Overall Length
AVT-1758	3/16" Universal AN470 Rivet Set, 3-1/2" Overall Length
AVT-1760	3/32" Universal AN470 Rivet Set, 5-1/2" Overall Length
AVT-1762	1/8" Universal AN470 Rivet Set, 5-1/2" Overall Length
AVT-1764	5/32" Universal AN470 Rivet Set, 5-1/2" Overall Length
AVT-1766	3/16" Universal AN470 Rivet Set, 5-1/2" Overall Length
AVT-1024	Offset Flush Mushroom Set, 3-1/2" Overall Length
AVT-1010	Flush Mushroom Rivet Set with Guard, 2-1/4" Overall Length
AVT-1768	3/32" Universal AN470 Offset Rivet Set, 3-1/2" Overall Length
AVT-1770	1/8" Universal AN470 Offset Rivet Set, 3-1/2" Overall Length
AVT-1772	5/32" Universal AN470 Offset Rivet Set, 3-1/2" Overall Length
AVT-0988	Flush Mushroom Rivet Set, 5-1/2" Overall Length
AVT-1295	Bucking Bar (see page 41)
AVT-1296	Bucking Bar (see page 41)
AVT-1318	Bucking Bar (see page 42)
AVT-1319	Bucking Bar (see page 42)
AVT-0890	Power Regulator
AVT-0896	Beehive Retainer Spring
AVT-0900	Handi Retainer Spring
AVT-1774	Rivet Gun (2X, 3X or 4X, see chart above)
AVT-1775	Molded Plastic Carrying case

Tools Included (.498 Shank Kits)	
Part Number	Description
AVT-1755	3/32" Universal AN470 Rivet Set, 3-1/2" Overall Length
AVT-1756	1/8" Universal AN470 Rivet Set, 3-1/2" Overall Length
AVT-1757	5/32" Universal AN470 Rivet Set, 3-1/2" Overall Length
AVT-1759	3/16" Universal AN470 Rivet Set, 3-1/2" Overall Length
AVT-1761	3/32" Universal AN470 Rivet Set, 5-1/2" Overall Length
AVT-1763	1/8" Universal AN470 Rivet Set, 5-1/2" Overall Length
AVT-1765	5/32" Universal AN470 Rivet Set, 5-1/2" Overall Length
AVT-1767	3/16" Universal AN470 Rivet Set, 5-1/2" Overall Length
AVT-1025	Offset Flush Mushroom Set, 3-1/2" Overall Length
AVT-1011	Flush Mushroom Rivet Set with Guard, 2-1/4" Overall Length
AVT-1769	3/32" Universal AN470 Offset Rivet Set, 3-1/2" Overall Length
AVT-1771	1/8" Universal AN470 Offset Rivet Set, 3-1/2" Overall Length
AVT-1773	5/32" Universal AN470 Offset Rivet Set, 3-1/2" Overall Length
AVT-0989	Flush Mushroom Rivet Set, 5-1/2" Overall Length
AVT-1295	Bucking Bar (see page 41)
AVT-1296	Bucking Bar (see page 41)
AVT-1318	Bucking Bar (see page 42)
AVT-1319	Bucking Bar (see page 42)
AVT-0890	Power Regulator
AVT-0898	Beehive Retainer Spring
AVT-0902	Handi Retainer Spring
AVT-1774	Rivet Gun (5X or 7X, see chart above)
AVT-1776	Plastic Tool Box

AVITORQ Professional Aero Sheet Metal & Riveting Tool Kit

*Priced To Save
You Money*

- Comprehensive 367 piece kit.
- Includes 5-drawer rolling cabinet.



Part Number	Description
AVT-1777	Complete 367 PC Kit

Note: Included MHD type fasteners not shown.

Tools Included		
Part Number	Pcs.	Description
AVT-1735	1	Pilot Countersink
AVT-1737	1	
AVT-1739	1	
AVT-1781	2	6" Aircraft Extension Drills
AVT-1782	2	
AVT-1784	2	
AVT-1786	2	12" Aircraft Extension Drills
AVT-1788	2	
AVT-1790	2	
AVT-1792	2	Rivet Shaver Cutter
AVT-1794	2	
AVT-1796	1	
AVT-0144	60pc	Drill Set
AVT-1290	1	Rivet Cutter
AVT-1801	1	Safety Wire Twister
AVT-1803	1	Offset Hand Snip (left)
AVT-1804	1	Offset Hand Snip (right)
AVT-1805	6pc	Deburr Tool & Blades
AVT-1806	1	Camloc Plier
AVT-1738	1	Cleco Plier
AVT-1808	6	Side Grip Sheet Metal Fastener
AVT-1810	6	
AVT-1743	50	
AVT-1746	50	'M' Type Sheet Metal Fastener
AVT-1814	20	
AVT-1749	20	
AVT-1817	6	'MHD' Type Sheet Metal Fastener
AVT-1819	12	
AVT-1821	12	
AVT-1823	6	Hand Seamer
AVT-1736	1	Hand Seamer
AVT-1727	1	Rivet Set, 3-1/2" O.A.L.

Tools Included		
Part Number	Pcs.	Description
AVT-1728	1	Rivet Set 3-1/2" O.A.L.
AVT-1729	1	
AVT-1758	1	
AVT-0968	1	Flush Rivet Set (3-1/2")
AVT-1762	1	Rivet Set 5-1/2" O.A.L.
AVT-1764	1	
AVT-1766	1	
AVT-0974	1	Flush Rivet Set (5-1/2")
AVT-1010	1	Mushroom Set w/Guard
AVT-1768	1	Offset Rivet Set 3-1/2" O.A.L.
AVT-1770	1	
AVT-1772	1	
AVT-1798	1	Offset Flush Set (3-1/2")
AVT-0969	1	
AVT-0988	1	
AVT-1295	1	Mushroom Set (5-1/2")
AVT-1298	1	
AVT-1318	1	
AVT-1319	1	Bucking Bar
AVT-0890	1	
AVT-0896	1	
AVT-0900	1	Handi Retainer Spring
AVT-1494	1	2" Hand Rivet Squeezer
AVT-1813	1	Junior Air Vac
AVT-0863	1	Rivet Gun
AVT-0753	1	Drill Stop
AVT-0762	1	
AVT-0756	1	
AVT-0754	1	Rivet Shaver With Skirt
AVT-1824	1	
AVT-0051	1	
AVT-0059	1	Snake Drill Attachment

Tools Included		
Part Number	Pcs.	Description
AVT-1778	1	Squeezer Set (3/32")
AVT-1779	1	Squeezer Set (1/8")
AVT-1780	1	Squeezer Set (5/32")
AVT-1552	2	Flush Squeezer Set
AVT-1783	1	Flat File
AVT-1785	1	Half Round File
AVT-1787	1	Round File
AVT-1789	1	Aluminum Flat File
AVT-1791	1	Aircraft Safety Wire
AVT-1793	1	
AVT-1795	1	
AVT-1797	1	Wire Rivet Hole Brush
AVT-1799	1	
AVT-1800	1	
AVT-1802	1	Strap Duplicator
AVT-0692	1	
AVT-0694	1	
AVT-0696	1	Rivet Squeezer Punch & Die Set
AVT-0702	1	
AVT-1807	2pc	
AVT-1809	2pc	Thd. Shank Drill Set
AVT-1811	2pc	
AVT-1812	2pc	
AVT-0686	4pc	Countersink Kit
AVT-1815	5pc	
AVT-1816	6pc	
AVT-1818	4pc	File Handle Set
AVT-1820	1	Metal Tool Box
AVT-1822	1	Metal Rolling Cabinet
AVT-1747	1	Aviation Maint. Handbook
AVT-1825	2pc	Utility Cut-Off Tool
AVT-0014	1	3/8" Reversible Air Drill

AVITORQ Student's Sheet Metal Tool Kit

Part Number			Description		
AVT-1826			Complete 69 PC Kit		
Tools Included			Tools Included		
Part Number	Pcs.	Description	Part Number	Pcs.	Description
AVT-1735	1	Pilot Countersink	AVT-1729	1	Rivet Set
AVT-1737	1		AVT-1758	1	3-1/2" O.A.L.
AVT-1739	1		AVT-0968	1	Flush Rivet Set
AVT-1742	1	Countersink Cage	AVT-1010	1	Mushroom Rivet Set
AVT-1828	2	Cobalt Jobber's Drill Bits	AVT-1319	1	Bucking Bar
AVT-1829	2		AVT-1339	1	
AVT-1830	2		AVT-0890	1	Power Regulator
AVT-1831	2	Rivet Cutter	AVT-0896	1	Beehive Ret. Spring
AVT-1290	1		AVT-0900	1	Handi Ret. Spring
AVT-1738	1		AVT-0863	1	Rivet Gun
AVT-1743	10	'M' Type Sheet Metal Fastener	AVT-0051	1	Ang. Drill Attachment
AVT-1746	10		AVT-0686	4pc	Thd. Shank Drill Set
AVT-1814	10		AVT-1744	1	Sturdy Plastic Tool Box
AVT-1749	5	Rivet Set 3-1/2" O.A.L.	AVT-1747	1	Av. Maint. Handbook
AVT-1727	1		AVT-0014	1	3/8" Rev. Air Drill
AVT-1728	1				


AVITORQ RV Tool Kit

Part Number			Description		
AVT-1827			Complete 548 PC Kit		
Tools Included			Tools Included		
Part Number	Pcs.	Description	Part Number	Pcs.	Description
AVT-1737	1	Pilot Countersink	AVT-1768	1	Offset Rivet Set 3-1/2" O.A.L.
AVT-1739	1		AVT-1770	1	
AVT-1742	1	Countersink Cage	AVT-1772	1	
AVT-1828	2	Cobalt Jobber's Drill Bits	AVT-1798	1	Bucking Bar
AVT-1829	2		AVT-1296	1	
AVT-1830	2		AVT-1307	1	
AVT-1831	2	Rivet Cutter	AVT-1310	1	Power Regulator
AVT-1733	1		AVT-0890	1	
AVT-1290	1		AVT-0896	1	Beehive Ret. Spring
AVT-1805	6pc	Deburr Tool & Blades	AVT-0900	1	Handi Ret. Spring
AVT-1738	1	Cleco Plier	AVT-1494	1	2" Hand Rivet Sq.
AVT-1736	1	Hand Seamer	AVT-0863	1	Rivet Gun
AVT-1746	175	'M' Type Sheet Metal Fastener	AVT-1778	1	Squeezer Set (3/32")
AVT-1743	325		AVT-1779	1	Squeezer Set (1/8")
AVT-1727	1	Rivet Set 3-1/2" O.A.L.	AVT-1780	1	Squeezer Set (5/32")
AVT-1728	1		AVT-1552	2	Flush Squeezer Set
AVT-1729	1		AVT-1832	1	Sturdy Plastic Toolbox
AVT-1758	1	No-Mar Rivet Set	AVT-0014	1	3/8" Rev. Air Drill
AVT-1034	1				
AVT-1024	1				
AVT-1010	1	Mushroom Rivet Set			

Perfect For First Time Projects



AVITORQ CUSTOM KITS

AVITORQ Rivet Squeezer Tool Kit

Squeezer set kit includes assorted cupped & flush sets, soft blanks, spacer shims & fitted metal case.

Part Number	Description
AVT-1833	Complete 38 PC Kit

Tools Included		
Part Number	Pcs.	Description
AVT-1385	1	C-Yoke Rivet Squeezer
AVT-1485	2pc	Quick Change Yoke Pin Set
AVT-1627	31pc	Rivet Squeezer Set Kit
AVT-1462	1	Set Holder
AVT-1776	1	Plastic Tool Box
AVT-1452	1	2" Reach C-Yoke
AVT-1453	1	3" Reach C-Yoke



A Practical & Economical 38 Piece Kit

AVITORQ Air Hydraulic Blind Rivet Installation Tool Kit

4000 Pounds Of Pulling Force

- Lightweight & compact size allows for use in limited access areas.
- Installs all CherryMAX and Huck-Clinch thru 1/4".

Includes:

Riveter, 3 Pulling Heads (CherryMAX extended straight, offset & right angle), 7 Nosepieces (1/8" & 1/4", 5/32"-3/16" CherryMAX, 3/32" Nut Plate, 3/16" & 1/4" Monobolt, 1/4" Split Rivet), Adapter Sleeve, Adapter Puller Assembly, Jaws (3 piece), Swivel Air Line Connector & Metal Carrying Case.

Part Number	Case Dimensions	Weight
AVT-1834	9-1/4" x 6-1/2" x 2-1/2"	8.0 lbs (3.6 kgs)



AVITORQ Combination Blind Rivet, Blind Bolt & Blind Nut Installation Tool Kit

Ideal For Field Maintenance, Modification & Industrial Sheet Metal Applications

- This kit provides hand mechanical, hand hydraulic, air hydraulic & cordless blind riveters all in one convenient carrying case.
- Installs all CherryMAX thru 1/4" and most blind bolts thru 3/16".
- This versatile 78 PC kit has been approved for use in the U.S. Army's Standard Automotive Tool Set ("SATS") and is currently being used by all U.S. Military service branches.

Installs single action aerospace blind rivets thru 3/16" O.S. diameter and industrial blind rivets thru 1/4" diameter. Pull-up studs and driving anvils for UNC, UNF, and metric threads are also included to permit installation of blind rivet nuts and inserts from 6-32 thru 3/8"-16 and 5 thru 10 mm. The kit also includes special right angle, offset and extended straight pulling heads for all CherryMAX, Huck Clinch, and Allmax blind rivets (M7885/NAS9300) in sizes thru 3/16" oversize, as well as an adapter for use with the MS20600 series self-plugging and NAS1400A rivet side ejection straight, offset, and right angle pulling heads (not included in this kit) for sizes 3/32" thru 3/16" diameter. The kit also includes the pull-up studs and driving anvils used in conjunction with the hand hydraulic combination riveter/nutsetter, which allows installation of blind nuts (NAS1329/30, MS27130/31) and AVK, TSN and Nutsert style inserts.

Part Number	Case Dimensions	Weight
AVT-1835	19-1/4" x 14-3/4" x 4-5/8"	28.5 lbs (12.9 kgs)



AVITORQ Homebuilder's Tool Kit


- Comprehensive 655 piece kit, priced to save you money.
- Includes stainless steel hand rivet squeezer.

Part Number	Description
AVT-1836	Complete 655 PC Kit

Tools Included		
Part Number	Pcs.	Description
AVT-1837	1	Pilot Countersink
AVT-1735	1	
AVT-1737	1	
AVT-1739	1	Countersink Cage
AVT-1742	1	
AVT-1781	2	
AVT-1782	2	6" Aircraft Extension Drill
AVT-1784	2	
AVT-1786	2	
AVT-1828	3	Cobalt Jobber's Length Drill
AVT-1829	3	
AVT-1830	12	
AVT-1831	12	Rivet Cutter
AVT-1290	1	
AVT-1805	6	
AVT-1738	1	Cleco Plier
AVT-1808	5	
AVT-1839	5	
AVT-1746	170	'M' Type Sheet Metal Fastener
AVT-1749	30	
AVT-1743	330	
AVT-1814	30	No-Mar Cam Fastener
AVT-1841	10	

Tools Included		
Part Number	Pcs.	Description
AVT-1727	1	Rivet Set, 3-1/2" O.A.L.
AVT-1728	1	
AVT-1729	1	
AVT-1758	1	Mushroom Rivet Set
AVT-1010	1	
AVT-1296	1	
AVT-1307	1	Bucking Bar
AVT-1325	1	
AVT-1838	1	
AVT-0890	1	Power Regulator
AVT-0896	1	Beehive Retainer Spring
AVT-0900	1	Handi Retainer Spring
AVT-1494	1	2" Stainless Steel Hand Rivet Squeezer
AVT-0040	1	Mini Air Drill
AVT-0863	1	Rivet Gun
AVT-1551	1	Flush Squeezer Set
AVT-1557	1	
AVT-1552	2	
AVT-1778	1	Squeezer Set (3/32")
AVT-1779	1	Squeezer Set (1/8")
AVT-1780	1	Squeezer Set (5/32")
AVT-1840	1	Plastic Squeezer Set Box
AVT-1832	1	Sturdy Plastic Tool Box

AVITORQ Glastar® Sheet Metal Tool Kit



- Comprehensive 573 piece kit, priced to save you money.
- Includes Stoddard-Hamilton® recommended Glastar sheet metal tools*.

*These are just the sheet metal tools for the wing & tail components, you will also need other tools for the fiberglass construction part of the kit.

Tools Included		
Part Number	Pcs.	Description
AVT-0443	1	Threaded Shank Drills
AVT-0415	1	
AVT-0393	1	
AVT-1837	1	
AVT-1735	1	Pilot Countersink
AVT-1737	1	
AVT-1739	1	
AVT-1843	1	
AVT-1742	1	Countersink Cage
AVT-1782	3	6" Aircraft Extension Drill
AVT-1784	3	
AVT-1786	3	
AVT-0144	60pc	Drill Set (number sizes)
AVT-1845	3	Jobber's Length Drill
AVT-1846	3	
AVT-1848	3	
AVT-0804	1	Chip Chaser
AVT-1803	1	Offset Snip (left)
AVT-1804	1	Offset Snip (right)
AVT-1805	6pc	Deburr Tool & Blades
AVT-1850	2	Spring Tension Clamp
AVT-1738	1	Cleco Plier
AVT-1839	10	Side Grip Sheet Metal Fastener
AVT-1851	10	
AVT-1740	1	Deburring Tool
AVT-1746	150	'M' Type Sheet Metal Fastener
AVT-1749	25	

Part Number	Description
AVT-1842	Complete 573 PC Kit

Tools Included		
Part Number	Pcs.	Description
AVT-1743	250	'M' Type Sheet Metal Fastener
AVT-1727	1	Rivet Set, 3-1/2" O.A.L.
AVT-1728	1	
AVT-1758	1	
AVT-1010	1	Mushroom Rivet Set
AVT-1307	1	Bucking Bar
AVT-1310	1	
AVT-1332	1	
AVT-1347	1	
AVT-0890	1	Power Regulator
AVT-0896	1	Beehive Retainer Spring
AVT-0900	1	Handi Retainer Spring
AVT-1844	1	360° POP Riveter
AVT-1494	1	2" Stainless Steel Hand Rivet Squeezer
AVT-1847	1	12" Flex Ruler
AVT-0863	1	Rivet Gun
AVT-1849	1	90° Angle Drill Attachment
AVT-1778	1	Squeezer Set (3/32")
AVT-1779	1	Squeezer Set (1/8")
AVT-1780	1	Squeezer Set (5/32")
AVT-1552	2	Flush Squeezer Set
AVT-1807	2pc	Rivet Squeezer Punch & Die Set
AVT-1809	2pc	
AVT-1852	1	Center Punch & Scribe
AVT-1832	1	Sturdy Plastic Tool Box
AVT-0014	1	3/8" Reversible Air Drill

AVITORQ Deluxe Student's Tool Kit

*A Great Starter Kit,
Compact & Portable*

- High quality tools will provide years of service.
- Features our heavy-duty mechanics canvas tool bag.



Part Number	Description
AVT-1853	Complete 77 PC Kit

Tools Included		
Part Number	Pcs.	Description
AVT-1854	3	Jobber's Length Drill
AVT-1855	3	
AVT-1856	3	
AVT-1857	3	
AVT-1858	3	
AVT-1735	1	Integral Pilot Cutter
AVT-1737	1	
AVT-1739	1	
AVT-1746	10	'M' Type Fastener
AVT-1749	10	
AVT-1743	10	

Tools Included		
Part Number	Pcs.	Description
AVT-1814	10	'M' Type Fastener
AVT-1742	1	Countersink Cage
AVT-1291	1	Rivet Cutter
AVT-1738	1	Cleco Plier
AVT-1319	1	Bucking Bar
AVT-0890	1	Power Regulator
AVT-0896	1	Beehive Retainer Spring
AVT-0900	1	Handi Retainer Spring
AVT-0863	1	Rivet Gun
AVT-1727	1	Rivet Set, 3-1/2"
AVT-1728	1	

Tools Included		
Part Number	Pcs.	Description
AVT-1729	1	Rivet Set, 3-1/2"
AVT-1758	1	
AVT-1010	1	Mushroom Set w/ Guard
AVT-0753	1	Drill Stop
AVT-0762	1	
AVT-0756	1	
AVT-0754	1	Canvas Tool Bag
AVT-1859	1	
AVT-0014	1	

AVITORQ Pro Composite Tool Kit

Equipped with the tools necessary for major composite repair.

Part Number	Description
AVT-1860	Complete 235 PC Kit

Tools Included		
Part Number	Pcs.	Description
AVT-1861	1	Solid Carbide Router Bits With Assorted Profiles
AVT-1863	1	
AVT-1865	1	
AVT-1867	1	
AVT-1869	1	Carbide Tip Countersink Cutter
AVT-1871	1	
AVT-1873	1	
AVT-1875	1	
AVT-1877	1	Countersink Cage
AVT-1879	1	Kevlar Hand Shears
AVT-1881	1	6" Utility Knife
AVT-1883	3	Cut-Off Disc
AVT-1885	1	Router
AVT-1887	1	Right Angle Grinder
AVT-1889	3pc	Mandrel Set
AVT-1891	1	Router Base
AVT-1893	1	Air Vac
AVT-1895	1	Respirator
AVT-1896	1	Diamond Hole Saw

Tools Included		
Part Number	Pcs.	Description
AVT-1862	1	Diamond Hole Saw
AVT-1864	1	
AVT-1866	1	Hole Saw Arbor
AVT-1868	1	Diamond Router Bit
AVT-1870	10	Coarse Prep Disc
AVT-1872	10	Medium Prep Disc
AVT-1874	10	Fine Prep Disc
AVT-1876	153pc	Sanding Disc Kit
AVT-1878	1	Diamond Countersink
AVT-1880	1	5/32" Pilot
AVT-1882	1	3/16" Pilot
AVT-1884	1	7/32" Pilot
AVT-1886	1	1/4" Pilot
AVT-1888	1	3-Way Manifold
AVT-1890	1	Safety Goggles
AVT-1892	1	Vac. Orbital Sander
AVT-1894	15pc	Sanding Drum Kit
AVT-0021	1	3/8" Capacity Drill
AVT-1744	1	Plastic Tool Box



Note: Tooling not shown in product image, please refer to charts for complete breakdown.

SHEET METAL FORMING EQUIPMENT

Heavy-Duty Bending Brakes



- Unit will also bend 12 gauge in narrower widths.
- Maximum 40" width stock with 2-1/2" throat depth.

18 Gauge Capacity Bending Brake			
Part Number	Maximum Bend Length*	Minimum Reverse Bend	Shipping Weight
AVT-1897	24"	5/8"	50 lbs (23 kgs)
AVT-1898	40"	5/8"	90 lbs (41 kgs)

*With unlimited throat.

Floor Stands	
Part Number	Shipping Weight
AVT-1899	40 lbs (18 kgs)
AVT-1900	50 lbs (23 kgs)

Light Duty Bench Brake

F.O.B. FACTORY



Note: Finger widths included: 3/4", 1", 1-1/2", 1-3/4", 3", 4-1/2", 6".

16 Gauge Capacity Bending Brake			
Part Number	Maximum Bend Length	Minimum Reverse Bend	Shipping Weight
AVT-1902	24"	1/4"	270 lbs (122 kgs)



For Metal Seamers & Crimpers See Pages 157-158

Tennsmith® Bench Brakes

F.O.B. FACTORY



- Heavy truss rods & braces provide strength & rigidity.
- Roller type thrust bearing to prevent upper leaf creep.
- Dual position apron angle with removable apron insert.

12 Gauge Capacity Bench Brake			
Part Number	Maximum Bend Length	Minimum Reverse Bend	Shipping Weight
AVT-1901*	48-1/4"	1/4"	1,330 lbs (603 kgs)

16 Gauge Capacity Bench Brakes***			
Part Number	Maximum Bend Length	Minimum Reverse Bend	Shipping Weight
AVT-1903*	48-1/4"	1/4"	495 lbs (225 kgs)
AVT-1904	48-1/4"	1/4"	460 lbs (209 kgs)

22 Gauge Capacity Bench Brakes***			
Part Number	Maximum Bend Length	Minimum Reverse Bend	Shipping Weight
AVT-1905**	48-1/4"	5/16"	280 lbs (127 kgs)
AVT-1906	48-1/4"	5/16"	220 lbs (100 kgs)

*With 4" max. box depth. **With 3" max. box depth.

***Optional floor stands available, please inquire.

Tennsmith® Heavy-Duty Bench Brakes

F.O.B. FACTORY

Made In The USA



AVT-1911

Welded Steel Plate Construction

- Heavy truss rods & braces provide strength & rigidity.
- Roller type thrust bearing to prevent upper leaf creep.
- Dual position apron angle with removable apron insert.
- Heavy counterweights & apron stop rod.

16 Gauge Mild Steel Capacity Bench Brakes

Part Number	Maximum Bend Length	Minimum Reverse Bend	Shipping Weight
AVT-1908	73"	1/4"	1200 lbs (545 kgs)
AVT-1909	121"	1/4"	2875 lbs (1304 kgs)

18 Gauge Mild Steel Capacity Bench Brakes

Part Number	Maximum Bend Length	Minimum Reverse Bend	Shipping Weight
AVT-1911	97"	1/4"	1385 lbs (628 kgs)
AVT-1912	121"	1/4"	2300 lbs (1043 kgs)

JET® Slip Rolls

F.O.B. FACTORY

Quality Import



AVT-1907

- Suitable for many industrial, educational & vocational shop uses.
- Precision tuned carbon steel rolls are ground & polished.
- Dual position apron angle with removable apron insert.
- Large roll adjusting screws & front mounted handle.

Note: Optional floor stands available, please inquire.

Note: Includes 3/16", 1/4" & 5/16" wire grooves (except AVT-1913: 1/4", 5/16" & 3/8").

20 Gauge Mild Steel Capacity - 2" Roll Diameter

Part Number	Maximum Form Length	Minimum Form Radius	Shipping Weight
AVT-1907	24"	1"	216 lbs (98 kgs)

22 Gauge Mild Steel Capacity - 2" Roll Diameter

Part Number	Maximum Form Length	Minimum Form Radius	Shipping Weight
AVT-1910	36"	1"	256 lbs (116 kgs)

16 Gauge Mild Steel Capacity - 3" Roll Diameter

Part Number	Maximum Form Length	Minimum Form Radius	Shipping Weight
AVT-1913	50"	2"	573 lbs (260 kgs)

Tennsmith® Slip Rolls

F.O.B. FACTORY



AVT-1914

An Affordable Heavy-Duty Production Tool

Made In The USA

- Three full length rear starting grooves are standard.
- Front mounted handle to lift upper roll for material removal.
- Oilite bearings eliminate the need for lubrication.

Note: Shown with optional stand (stands available, please inquire).

Note: Includes 3/16", 1/4" & 5/16" wire grooves (except AVT-1917: 3/8", 1/2" & 5/8").

20 Gauge Mild Steel Capacity - 2" Roll Diameter

Part Number	Maximum Form Length	Minimum Form Radius	Shipping Weight
AVT-1914	24"	1"	190 lbs (86 kgs)

22 Gauge Mild Steel Capacity - 2" Roll Diameter

Part Number	Maximum Form Length	Minimum Form Radius	Shipping Weight
AVT-1915	36"	1"	250 lbs (113 kgs)

24 Gauge Mild Steel Capacity - 2" Roll Diameter

Part Number	Maximum Form Length	Minimum Form Radius	Shipping Weight
AVT-1916	42"	1"	270 lbs (122 kgs)

16 Gauge Mild Steel Capacity - 3" Roll Diameter

Part Number	Maximum Form Length	Minimum Form Radius	Shipping Weight
AVT-1917	49"	1-1/2"	1100 lbs (500 kgs)

SHEET METAL FORMING EQUIPMENT

Tennsmith® Squaring Shears

F.O.B. FACTORY



High-Carbon High-Chromium Blades

- Comes standard with tool steel blades & front arm extensions.
- Units also shear plastic, lead, zinc aluminum, brass & copper.

Foot Powered

Includes protractor & graduated slide gauges, front squaring arm.

16 Gauge Mild Steel Capacity (20 gauge stainless)			
Part Number	Maximum Cut Length	Gauge Ranges (back / front)	Shipping Weight
AVT-1918	37"	30" / 37"	700 lbs (318 kgs)
AVT-1919	52-1/4"	30" / 37"	950 lbs (431 kgs)



Air Powered

Includes bevel gauges, graduated slide gauges, foot control, stroke counter, pressure regulator & oiler/condenser cups.

16 Gauge Mild Steel Capacity (20 gauge stainless) - 40 SPM			
Part Number	Maximum Cut Length	Gauge Ranges (back / front)	Shipping Weight
AVT-1921	37"	30" / 37"	800 lbs (363 kgs)
AVT-1922	52-1/4"	30" / 37"	1085 lbs (492 kgs)

Note: 75 PSI maximum operating pressure.

Hydraulic Powered

Includes bevel gauges, graduated slide gauges, foot control, stroke counter, sight gauge, thermometer & 10g oil reservoir.

16 Gauge Mild Steel Capacity (20 gauge stainless) - 45 SPM				
Part Number	Power Supply	Max. Cut Length	Gauge Ranges	Shipping Weight
AVT-1924	1 Phase, 230V, 60Hz	52-1/4"	30" Back	1300 lbs
AVT-1925	3 Phase, 230V*, 60Hz		37" Front	(590 kgs)

Note: 1450 PSI maximum operating pressure. *460V available, please inquire.

JET® Foot Shear

F.O.B. FACTORY



Quality Import

- Shear comes standard with hardened stainless steel blades.
- High quality cast-iron grade frame to eliminate deflection across the blade-span and blade frame work.
- Four-way upper and two-way lower blades for longer life.
- Micro adjustment rear depth gauges for precise measurements.

16 Gauge Mild Steel Capacity			
Part Number	Maximum Cut Length	Gauge Ranges (back / front)	Shipping Weight
AVT-1920	52"	25-1/2" / 28"	1220 lbs (554 kgs)

JET® Shear, Brake & Roll Combo

F.O.B. FACTORY

Right Or Left Hand Operation

Quality Import

- Brake includes removable fingers for complex bending operations.
- Includes applicable dies, dual edge shear blade & back gauge.
- Shown with optional stand (please inquire).



Note:

AVT-1923: Upper die 4-3/4" height, 1", 2", 3", 4", 6" & 10" widths.

AVT-1926: Upper die 4-3/4" height, 1", 2", 2", 4", 6", 7", 8" & 12" widths.

20 Gauge Mild Steel Capacity @ 30" Wide			
Part Number	Slip Roll Size	Minimum Form Radius	Shipping Weight
AVT-1923	30" x 1-1/2"	3/4"	332 lbs (151 kgs)

20 Gauge Mild Steel Capacity @ 40" Wide			
Part Number	Slip Roll Size	Minimum Form Radius	Shipping Weight
AVT-1926	40" x 1-5/8"	1"	561 lbs (255 kgs)

Beverly® Throatless Shears

- Ideal all-purpose metal cutting tools.
- Shoulder design permits turning work to any shape or position.
- Units allow any cut in heavy gauges, yet handle lighter metals without distortion.
- Alloy steel rack & pinion for great power with little effort.
- Removable handle for easy portability.
- Two-point lower blade adjustment.
- Slitting shear also available, please inq.

AVT-1928

Classic Design

Part No.	Cap. (mild, stain.)	Blade Length	Height Less Handle	Weight
AVT-1927	14 ga., 18 ga.	4-1/2"	14" (36 cm)	18 lbs (8.1 kgs)
AVT-1928	10 ga., 14 ga.	4-3/8"	14" (36 cm)	35 lbs (15.8 kgs)
AVT-1929*	3/16", 10 ga.	5-5/8"	15" (38 cm)	58 lbs (26.3 kgs)

*AVT-1929 equipped with high carbon, high chrome blades.

Replacement Blades		
For AVT-1927	For AVT-1928	For AVT-1929
AVT-1931	AVT-1932	AVT-1933

Tennsmith® Notchers

F.O.B. FACTORY

- Front gauges & large surface ground work table standard.
- Straight shearing; notches over 90° accomplished in two operations.
- Especially useful where box, chassis & panel blanks are to be fabricated.
- Reversible upper blades.

Made In The USA

AVT-1942

Replacement Blades	
Part Number	Description
AVT-1935	Regular Set of 4
AVT-1936	Tab Set of 4

Floor Stand	
Part Number	Shipping Weight
AVT-1939	170 lbs (77 kgs)

Notchers			
Part Number	Mild Steel Cap. (notch / pierce)	Blades Included	Shipping Weight
AVT-1942	16 / 18 Gauge	Regular	170 lbs (77 kgs)
AVT-1944	16 / 18 Gauge	Tab	170 lbs (77 kgs)

AVT-1939

JET® Manual Shriner & Stretcher

- Quickly form compound curves with easy, hands-free foot pedal operation.
- Adjustable forming depth.
- Heavy-gauge steel base is stable yet can be rolled for easy movement.

Bench Press Includes:

Shrinker Stretcher Head, Foot Pedal Floor Stand, Shrinker Jaw Set, Stretcher Jaw Set, Wrench & User Manual

NEW

Non-Skid Foot Pad

Built-In Jaw Storage

Rolling Wheels

16 Gauge Mild Steel Capacity Shrinker & Stretcher				
Part Number	Throat (d x h)	Max. Flange	Overall Height	Weight
AVT-1930	6" x 2-1/2"	1-1/8"	32" (81.28 cm)	84 lbs (38 kgs)

Note: Aluminum jaws also available, please inquire.

AVITORQ Bench Model Shrinker & Stretcher

- Work and form common metals.
- Shrink & stretch down to a 2" radius.
- High 45 to 1 leverage provides fast & powerful working action.
- Unit mounts in a vice or on a bench or stand (offered on next page).

AVT-1934

Made In The USA

16 Gauge Mild Steel Capacity		
Part Number	Description	Weight
AVT-1934	Metal Shrinker	11 lbs (4.9 kgs)
AVT-1937	Metal Stretcher	11 lbs (4.9 kgs)
AVT-1938	Both Units	22 lbs (9.9 kgs)

Accessories	
Part Number	Description
AVT-1940	Conversion Assembly (stretcher to shrinker)
AVT-1941	Conversion Assembly (shrinker to stretcher)
AVT-1943	Replacement Shrinker Jaws (4 piece set)
AVT-1945	Replacement Stretcher Jaws (4 piece set)

SHEET METAL FORMING EQUIPMENT

AVITORQ Dual Head Shrinker & Stretcher Stand

- Dual head configuration allows two users at the same time.
- Wheeled base for easy movement.
- For use with AVITORQ Bench Model Shrinker & Stretcher shown on previous page.

Made In The USA

Note: Shrinker & Stretcher units shown not included.

36" Dual Head Floor Stand	
Part Number	Weight
AVT-1946	26 lbs (11.7 kgs)



Manual Bench Shrinker/Stretcher



Revolutionary Design

High Leverage

Precision Machine Frame

NEW

570 Bench Press with AVT-1949 Jaws Shown

- Ideal for the professional metal worker.
- Both down and up acting.
- All bearing design for smooth operation and long life.
- Choice of steel and aluminum jaws (sold separately, see below).
- Includes bench mount plate (not shown).

Bench Press - 14 Gauge Alum. Capacity (16 Gauge Mild Steel)			
Part Number	Throat	Inside Height*	Weight
AVT-1947	7"	2-1/4"	55 lbs (25 kgs)

*Maximum clearance between tooling.



Shrinker & Stretcher Jaw Sets	
Part Number	Description
AVT-1949	Steel Shrinker Jaw Set
AVT-1950	Steel Stretcher Jaw Set
AVT-1951	Aluminum Shrinker Jaw Set
AVT-1952	Aluminum Stretcher Jaw Set

Note: Optional Floor Stand also available, please inquire.

Bench Press & Shrinker & Stretcher



Ideal For Production Work

NEW

Provides Three Tons Of Force

Bronze Bushings For Long Life

Rugged 5/16" Welded Plate Construction

AVT-1948 Bench Press with AVT-1953 Jaws Shown

- Tooling can either be mounted for straight in use or rotated 90° for side to side work for added flexibility.
- Without dies can be used as a standard press or arbor press.
- Other tooling options available, please inquire.

Bench Press Includes:

Bench Press, Quick Index Handles, Spring Loaded Center, Slug Ejector Assembly, Lower Punch-Flare Adapter with Bolt, Upper Punch-Flare Adapter with Bolt & Arbor Nut Wrench (Shrinker/Stretcher Jaw Assembly sold separately below)

Bench Press - 14 Gauge Alum. Capacity (16 Gauge Mild Steel)			
Part Number	Throat	Inside Height*	Weight
AVT-1948	12"	3"	64 lbs (29 kgs)

*Maximum clearance between tooling.

Shrinker/Stretcher Jaw Assembly	
Part Number	Description
AVT-1953	Deep Throat Shrinker/Stretcher Jaw Assembly

Note: Optional Floor Stand also available, please inquire.

JET® 45" English Wheeling Machine

F.O.B. FACTORY

Heavy-Duty Frame



English wheel gets its name from the two steel wheels between which metal is formed. The wheels - one above and one below - are rolled against one another with a piece of sheet metal between, under a pre-adjusted pressure setting. The wheels roll as the sheet metal is moved back and forth. Shaping results as the lower wheel is forced under pressure into the metal, stretching and forming it.

- Quick and easy, tooling-free wheel change.
- Convenient wheel storage brackets attached to unit.

Part Number	Capacity	Throat	Head Opening	O.A. Height	Shipping Weight
AVT-1955	1/8" Alum. 16 ga. Mild St.	45" (114 cm)	6" (15 cm)	63" (160 cm)	555 lbs (252 kgs)



For Hammers & Mallets See Pages 162-163

JET® Planishing Hammer

F.O.B. FACTORY



- Smooths beads and forms mild steel sheet metal up to 16 gauge, aluminum & copper up to 1/8" thick.
- Supplied with two pair of upper & anvil die sets.
- Three position airflow regulates speed of pneumatic hammer*.

Part Number	Throat	Head Opening	Overall Height	Shipping Weight
AVT-1954	24"	2-1/2"	66" (168 cm)	250 lbs (113 kgs)

*1800-2000, 3200-3500 & 4400-4600 BPM ranges. Req'd air pressure 90-120 PSI.

Tennsmith® Hand Rotary Machine

Smooth, Fast & Precise Operation

- Includes six rolls: beading, turning, closing, jogging, flanging & crimping.
- Adjustable roll pressure.
- Table mount with clamp.
- Unit can be used in both forward & reverse.



22 Gauge Mild Steel Capacity			
Part Number	Throat	Height	Ship Weight
AVT-1956	7" (178 mm)	16" (41 cm)	67 lbs (30 kgs)

PUNCH & CUTTING TOOLS

Micro-Stop Countersink Cage



Hardened & ground spindles, bronze bearings & precision depth control.

1/4"-28 Countersink Thread					
Tool w/Plastic Footpiece	Tool w/Steel Footpiece	Capacity	Shaft Travel	Depth Adj.	Max. RPM
AVT-1742	AVT-1957	5/8"	5/16"	0.001"	3000

Countersink Cage Kits:

Includes tool, footpiece & H.S.S. countersink cutters listed below.

Countersink Cage Kits		
Kit w/Plastic Footpiece	Kit w/Steel Footpiece	Included Cutters (1/2" body diameter)
AVT-1958	AVT-1959	3/32", 1/8", 5/32" & 3/16"
AVT-1960	AVT-1961	#10, 21, 30 & 40
AVT-1962	AVT-1963	3/32", 1/8", 5/32", 3/16", #10, 21, 30 & 40

Optional Footpieces (for use with standard skirt only):

Available separately or installed on tool.

Optional Footpieces		
Footpiece Only	Footpiece w/Tool	Type
AVT-1964	AVT-1965	Phenolic
AVT-1967	AVT-1968	Nylon
AVT-1969	AVT-1970	Nylon Flanged
AVT-1971	AVT-1972	Chrome
AVT-1973	AVT-1742	Plastic

Optional Skirts:

Available separately or installed on tool.

Skirt Type		
	2 Leg	Flange
Skirt Only	AVT-1975	AVT-1976
Skirt w/Tool	AVT-1977	AVT-1978

Skirt Type		
	Insert Collar	Cutaway
Skirt Only	AVT-1979	AVT-1980
Skirt w/Tool	AVT-1982	AVT-1983

Skirt Type		
	Std. w/Steel Footpiece	Std. w/Nylon Footpiece
Skirt Only	AVT-1985	AVT-1986
Skirt w/Tool	AVT-1957	AVT-1988

Micro-Stop Countersink Cutter Kit

Fitted Case Helps Prevent F.O.D.



Includes:

Versatile & Portable

Countersink Cage, Two Replacement Skirts (insert collar & flange type), Four Footpieces (phenolic, nylon, nylon flanged & chrome), Nine 1/2" Diameter H.S.S. Cutters (3/32", 1/8", 5/32", 3/16", 1/4", #40, #30, #21 & #10) & Plastic Case

Note: Elliptical countersink cutter kit also available, please inquire.

Part Number	Description
AVT-1966	Complete 17 PC Kit

Mini Micro-Stop Countersink Cage

Perfect For Use In Seat Tracks

AVT-1974



Hardened & ground spindles, bronze bearings & precision depth control.

1/4"-28 Countersink Thread				
Part Number	Capacity	Shaft Travel	Depth Adj.	Max. RPM
AVT-1974	7/16"	1/4"	0.001"	3000

AVT-1981



1/4"-28 Countersink Thread - With Nylon Footpiece				
Part Number	Capacity	Shaft Travel	Depth Adj.	Max. RPM
AVT-1981	7/16"	1/4"	0.001"	3000

Countersink Cage Kits:

Includes tool & H.S.S. countersink cutters listed below.

Countersink Cage Kits	
Part Number	Included Cutters (1/2" body diameter)
AVT-1984	3/32", 1/8", 5/32" & 3/16"
AVT-1987	#10, 21, 30 & 40
AVT-1989	3/32", 1/8", 5/32", 3/16", #10, 21, 30 & 40

Full Flange Skirt Micro-Stop Countersink Cage

Compact

Heavy-Duty

- Dual bearings for continuous high-speed use.
- Positive stop to connect shaft eliminates work damage.

1/4"-28 Countersink Thread				
Part Number	Capacity	Shaft Travel	Depth Adj.	Max. RPM
AVT-1877	5/8"	5/16"	0.001"	10,000

Optional Footpiece	
Part Number	Type
AVT-1990	Nylon

Note: Other optional skirts & footpieces available, please inquire.

Jumbo Micro-Stop Countersink Cages



AVT-1994

- Hardened & ground spindles, bronze bearings & precision depth control.
- Dual bearings for upper & lower spindle support.

Note: Jumbo cutters with required 3/8"-24 thread shown on next page.

3/8"-24 Countersink Thread				
Part Number	Capacity	Shaft Travel	Depth Adj.	Max. RPM
AVT-1993	1"	1/2"	0.001"	3000
AVT-1994	1-1/4"	1/2"	0.001"	3000

Self Aligning Countersink Cages



- Stay perpendicular to work surface & concentric with the hole.
- Drill position offset by the ball system within a 20° envelope.
- Chucking flats to accommodate drill chuck.
- Safety locking knurled adjustment ring.
- Flanged skirt type (other styles available, please inquire).

1/4"-28 Countersink Thread				
Part Number	Capacity	Shaft Travel	Depth Adj.	Max. RPM
AVT-1991	7/8"	0.340"	0.001"	5000

M6 x 1 Countersink Thread				
Part Number	Capacity	Shaft Travel	Depth Adj.	Max. RPM
AVT-1992	7/8"	0.340"	0.001"	5000

Threaded Shank Micro-Stop Countersink Cage

*Only 1.38" To 1.77"
Overall Length*



- 1/4"-28 shaft thread.
- Positive adjustment lock.

1/4"-28 Countersink Thread				
Part Number	Capacity	Shaft Travel	Depth Adj.	Max. RPM
AVT-1995	1/2"	3/32"	0.001"	3000

Integral Pilot Countersink Cutters



H.S.S.

Note: H.S.S. cutters are 3-flute standard.
Carbide tip cutters are 2-flute standard.
Other style are available, please inquire.



Carbide Tip

Integral Pilot 1/4"-28 Thread, 100° H.S.S.			
7/16" Diameter	1/2" Diameter	5/8" Diameter	Pilot Diameter
AVT-1996	AVT-1730	—	3/32"
AVT-1999	AVT-1732	—	1/8"
AVT-2001	AVT-1734	AVT-2002	5/32"
AVT-2005	AVT-2006	AVT-2007	3/16"
AVT-2010	AVT-2011	AVT-2012	7/32"
AVT-2016	AVT-2017	AVT-2018	1/4"
—	—	AVT-2021	5/16"
AVT-2025	AVT-1739	AVT-2026	#40
AVT-2030	AVT-1737	AVT-2031	#30
AVT-2035	AVT-1735	AVT-2036	#21
AVT-2043	AVT-1837	AVT-2044	#10
AVT-2045	AVT-2046	AVT-2047	F

Integral Pilot 1/4"-28 Thread, 100° Carbide Tip			
7/16" Diameter	1/2" Diameter	5/8" Diameter	Pilot Diameter
AVT-1997	AVT-1998	—	3/32"
AVT-2000	AVT-1869	—	1/8"
AVT-2003	AVT-1871	AVT-2004	5/32"
AVT-2008	AVT-1873	AVT-2009	3/16"
AVT-2013	AVT-2014	AVT-2015	7/32"
AVT-2019	AVT-1875	AVT-2020	1/4"
AVT-2022	AVT-2023	AVT-2024	#40
AVT-2027	AVT-2028	AVT-2029	#30
AVT-2032	AVT-2033	AVT-2034	#21
AVT-2037	AVT-2038	AVT-2039	#10
AVT-2040	AVT-2041	AVT-2042	F

PUNCH & CUTTING TOOLS

Cobalt Integral Pilot Countersink Cutters

Solid M42
Cobalt



For Harder
Materials

Three Flute Integral Pilot, 1/4"-28 Thread - Cobalt

Part Number 100° Cutting Angle	Part Number 130° Cutting Angle	Pilot Diameter	Body Diameter
AVT-2048	AVT-2049	#40	1/2"
AVT-2050	AVT-2051	#30	1/2"
AVT-2052	AVT-2053	#21	1/2"
AVT-2055	AVT-2056	#10	1/2"
AVT-2058	—	1/4"	1/2"
AVT-2060	Complete 100° 5PC Set		

Replaceable Pilot C'Sink Cutters & Pilots

Precision
Ground



Replaceable Pilot Cutters, 1/4"-28 Thread - .086" Pilot Hole

H.S.S.	Carbide Tipped	Body Diameter	Cutter Angle
AVT-2064	AVT-2065	1/2"	82°
AVT-2066	AVT-2067	1/2"	100°
AVT-2068	AVT-2069	1/2"	120°
AVT-2070	—	5/8"	100°

.086" Replaceable Pilots

Part Number	Pilot Diameter
AVT-2073	3/32"
AVT-2076	1/8"
AVT-2078	5/32"

.086" Replaceable Pilots

Part Number	Pilot Diameter
AVT-2074	3/16"
AVT-2077	7/32"
AVT-2079	1/4"

Jumbo Replaceable Pilot C'Sink Cutters & Pilots



Note: 100° cutting angle standard, 82° available, please inquire.

Replaceable Pilot Cutters
3/8"-24 Thread - .170" Pilot Hole

H.S.S.	Body Diameter
AVT-2089	3/4"
AVT-2093	7/8"
AVT-2097	1"
AVT-2101	1-1/8"
AVT-2105	1-1/4"

Jumbo cutters also available in carbide and integral pilot style, please inquire.

.170" Replaceable Pilots

Part Number	Pilot Diameter
AVT-2086	3/16"
AVT-2090	1/4"
AVT-2094	5/16"
AVT-2098	3/8"
AVT-2102	7/16"
AVT-2106	1/2"
AVT-2109	5/8"

Undercut Body Countersink Cutters



- Undercut body diameter provides faster chip ejection.
- Designed for close tolerance work & to eliminate sheet damage.
- Two flute, high speed steel construction with a 100° cutting angle.

3/8" Body Diameter, 100° Cutting Angle

Part Number	Shank Size	Pilot Diameter
AVT-2054	.210"	.0960"
AVT-2057	.256"	.0980"
AVT-2059	.256"	.1222"
AVT-2061	.256"	.1256"
AVT-2062	.317"	.1570"
AVT-2063	.386"	.1915"

Extended Footpiece Micro-Stop C'Sink Cage



AVT-2071

Hardened and ground spindles, bronze bearings, and precision depth control.

1/4"-28 Countersink Thread

Part Number	Capacity	Footpiece Extension	Shaft Travel	Depth Adj.	Max. RPM
AVT-2071	3/8"	2-3/4"	5/16"	0.001"	3000
AVT-2072	3/8"	4"	5/16"	0.001"	3000
AVT-2075	5/8"	2-3/4"	5/16"	0.001"	3000

Extended Footpiece Micro-Stop C'Sink Cutters



Note: 100° cutting angle standard.

Integral Pilot, 1/4"-28 Thread - 3/8" Body Diameter

H.S.S.	Carbide Tipped	Pilot Diameter
AVT-2080	AVT-2081	3/32"
AVT-2082	AVT-2083	1/8"
AVT-2084	AVT-2085	5/32"
AVT-2087	AVT-2088	3/16"
AVT-2091	AVT-2092	7/32"
AVT-2095	AVT-2096	1/4"
AVT-2099	AVT-2100	#40
AVT-2103	AVT-2104	#30
AVT-2107	AVT-2108	#21
AVT-2110	AVT-2111	#10

BRFZ Micro-Stop Countersink Cages



For use with Boeing® BRFZ rivet cutters shown below.

Standard Skirt Models, 1/4"-28 Countersink Thread				
Part Number	Cap.	Shaft Travel	Depth Adj.	Max. RPM
AVT-2112	5/8"	5/16"	0.0005"	3000

Flanged Skirt Models, 1/4"-28 Countersink Thread				
Part Number	Cap.	Shaft Travel	Depth Adj.	Max. RPM
AVT-2113	5/8"	5/16"	0.0005"	3000

Countersink Cutters For BRFZ Rivets

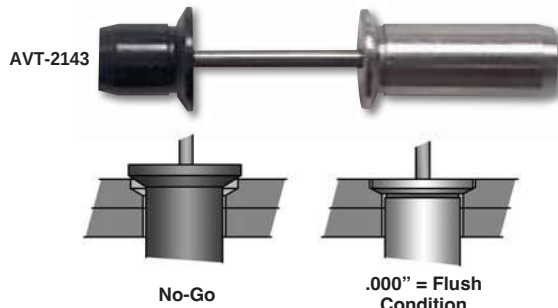


- Designed for Boeing® BRFZ rivets, MS14218.
- Creates both counterbore & countersink in one operation.
- Manufactured from M42 H.S.S., heat-treated to 63-66 Rc.

Integral Pilot 1/4"-28 Thread 3/8" Body Diameter, H.S.S.			Integral Pilot 1/4"-28 Thread 1/2" Body Diameter, H.S.S.		
Part No.	Rivet Size	Diameter	Part No.	Rivet Size	Diameter
AVT-2116	-3	3/32"	AVT-2117	-8	1/4"
AVT-2120	-4	1/8"	AVT-2121	-9	9/32"
AVT-2125	-5	5/32"	AVT-2124	-10	5/16"
AVT-2128	-6	3/16"			
AVT-2129	-7	7/32"			

Note: 1/4"-28 thread.
120° cutting angle standard.

BRFZ Dual Gauges



Go / no-go gauge determines proper Boeing® BRFZ rivet installation.

Part Number	Nominal Diameter	No Go	Part Number	Nominal Diameter	No Go
AVT-2140	3/32"	.1265"	AVT-2141	7/32"	.3170"
AVT-2142	1/8"	.1655"	AVT-2143	1/4"	.3640"
AVT-2145	5/32"	.2140"	AVT-2146	9/32"	.4110"
AVT-2148	3/16"	.2625"	AVT-2149	5/16"	.4600"

Countersink Extensions



AVT-0679



AVT-0678

- Versatile - for use with countersinks, drill bits etc.
- 1/4"-28 female thread, 3/8" body diameter.

1/4"-28 Threaded Shank			1/4" Straight Shank		
Part Number	Overall Length	Shank	Part Number	Overall Length	Shank
AVT-0677	1"	5/16"	AVT-0678	2"	7/8"
AVT-0679	2"	5/16"	AVT-0680	4"	7/8"
AVT-0682	4"	5/16"	AVT-0683	6"	7/8"

Straight Shank Aircraft Countersink Cutters



AVT-2122



AVT-2139

- Radial relief ground angle assures free cutting clearance & prevents chatter.
- Available in 60°, 82°, 90° & 100° cutting angles.*

*Select the cutter required, then add the desired cutting angle (60, 82, 90 or 100).
Example: For a H.S.S. 1/4" dia. one flute cutter with a 100° angle, use no. AVT-2114-100.

One Flute			
H.S.S.	Carbide	Diameter	Shank
AVT-2114	AVT-2115	1/4"	1/4"
AVT-2118	AVT-2119	3/8"	1/4"
AVT-2122	AVT-2123	1/2"	1/4"
AVT-2126	AVT-2127	5/8"	1/2"

Six Flute Chatterless			
H.S.S.	Carbide	Diameter	Shank
AVT-2130	AVT-2131	1/4"	1/4"
AVT-2132	AVT-2133	5/16"	1/4"
AVT-2134	AVT-2135	3/8"	1/4"
AVT-2136	AVT-2137	1/2"	1/4"
AVT-2138	AVT-2139	5/8"	1/2"

Straight Shank Zero Flute C'Sink Cutters



AVT-2144

Fast Stock Removal



AVT-2147

Single cutting edge for chatter free finish in all materials.

1/4" Straight Shank, 100° Cutting Angle		
Part Number	Capacity	Overall Length
AVT-2144	3/32" - 1/4"	1-1/2" (38.1 mm)
AVT-2147	1/8" - 27/64"	1-11/16" (42.8 mm)
AVT-2150	3/16" - 35/64"	1-7/8" (47.6 mm)

PUNCH & CUTTING TOOLS

Str. Shank Integral Pilot Extension Countersinks

M42 High Speed Steel Construction



100° Cutting Angle			90° Cutting Angle		
Part Number	Body Dia.	Pilot Dia.	Part Number	Body Dia.	Pilot Dia.
AVT-2154	3/16"	3/32"	AVT-2155	3/16"	3/32"
AVT-2157	3/16"	1/8"	AVT-2158	1/4"	1/8"
AVT-2160	3/16"	5/32"	AVT-2161	5/16"	5/32"
AVT-2163	.1900"	3/32"	AVT-2164	3/8"	3/16"
AVT-2167	1/4"	3/32"	AVT-2166	1/2"	1/4"
AVT-2169	1/4"	1/8"			
AVT-2171	.2520"	1/8"			
AVT-2173	.2830"	.1395"			
AVT-2175	5/16"	1/8"			
AVT-2178	5/16"	5/32"			
AVT-2181	.3400"	5/32"			
AVT-2184	3/8"	3/32"			
AVT-2187	3/8"	1/8"			
AVT-2190	3/8"	5/32"			
AVT-2193	3/8"	3/16"			
AVT-2196	.4050"	3/16"			
AVT-2199	7/16"	7/32"			
AVT-2201	7/16"	1/4"			
AVT-2203	1/2"	3/32"			
AVT-2204	1/2"	1/8"			
AVT-2205	1/2"	5/32"			
AVT-2206	1/2"	3/16"			
AVT-2207	1/2"	7/32"			
AVT-2208	1/2"	1/4"			
AVT-2209	.5300"	1/4"			

Note: All countersinks are furnished with a 1-3/4" length x 3/16" diameter shank, a 3/8" pilot length & are 2-1/2" overall length.

Carbide Tip Replaceable Pilot Stop Counterbores

- Works with most microstop c'sink cages.
- Perfect for highly abrasive, difficult to machine & exotic materials.



Note: 1/64" corner radius. For use with pilots shown on next page.

Part Number	Cutter Dia.	Shank Thread	Pilot Hole
AVT-2151	3/8"	1/4"-28	3/32"
AVT-2152	7/16"	1/4"-28	1/8"
AVT-2153	1/2"	1/4"-28	1/8"
AVT-2156	9/16"	1/4"-28	1/8"
AVT-2159	5/8"	1/4"-28	1/8"
AVT-2162	11/16"	3/8"-24	3/16"
AVT-2165	11/16"	7/16"-20	3/16"
AVT-2168	3/4"	3/8"-24	3/16"
AVT-2170	3/4"	7/16"-20	3/16"
AVT-2172	13/16"	3/8"-24	3/16"
AVT-2174	13/16"	7/16"-20	3/16"
AVT-2177	7/8"	3/8"-24	3/16"
AVT-2180	7/8"	7/16"-20	3/16"
AVT-2183	15/16"	3/8"-24	3/16"
AVT-2186	15/16"	7/16"-20	3/16"
AVT-2189	1"	3/8"-24	3/16"
AVT-2192	1"	7/16"-20	3/16"
AVT-2195	1-1/8"	3/8"-24	3/16"
AVT-2198	1-1/8"	7/16"-20	3/16"
AVT-2200	1-1/4"	3/8"-24	3/16"
AVT-2202	1-1/4"	7/16"-20	3/16"

Counterbore Extension

Great For Limited Access Areas



Part Number	Shank	Shank Cap.	Overall Length
AVT-2210	1/4"	1/4"	4" (102 mm)

Interchangeable Pilot Aircraft Counterbore Kits

16 Piece Short Series Kit:

Five Counterbores (1/4", 5/16", 3/8", 7/16" & 1/2"), Eight Pilots (3/32" Shank: 1/8", 5/32", 3/16" & 1/4" - 1/8" Shank: 3/16", 7/32", 1/4" & 5/16"), Wrenches & Polyethylene Case

High Speed Steel	Carbide Tipped	Description
AVT-2211	AVT-2212	Complete 16 PC Kit

40 Piece Short Series Kit:

Thirteen Counterbores (1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16" & 1"), Twenty Pilots (3/32" Shank: 1/8", 5/32", 3/16" & 1/4" - 1/8" Shank: 3/16", 7/32", 1/4", 9/32" & 5/16" - 3/16" Shank: 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 13/32", 7/16", 15/32" & 1/2"), Wrenches & Polyethylene Case

High Speed Steel	Carbide Tipped	Description
AVT-2213	AVT-2214	Complete 40 PC Kit



AVT-2211

Interchangeable Pilot Aircraft Counterbores

Short Flute Type



- Cuts a flat area around hole for bolt or nut installation.
- Precision ground OD with back taper to ensure concentricity.
- Carbide tip recommended for hardened or composite materials.

Note: Supplied without corner radii. Corner radii available on special request (please inq.).

1/4" Shank H.S.S.			1/4" Shank Carbide Tipped		
Part Number	Cutter Dia.	Pilot Hole	Part Number	Cutter Dia.	Pilot Hole
AVT-2221	1/4"	3/32"	AVT-2222	1/4"	3/32"
AVT-2225	9/32"	3/32"	AVT-2226	9/32"	3/32"
AVT-2229	5/16"	3/32"	AVT-2230	5/16"	3/32"
AVT-2233	11/32"	3/32"	AVT-2234	11/32"	3/32"
AVT-2237	3/8"	3/32"	AVT-2238	3/8"	3/32"
AVT-2241	13/32"	1/8"	AVT-2242	13/32"	1/8"
AVT-2245	7/16"	1/8"	AVT-2246	7/16"	1/8"
AVT-2248	15/32"	1/8"	AVT-2249	15/32"	1/8"
AVT-2251	1/2"	1/8"	AVT-2252	1/2"	1/8"
AVT-2255	17/32"	1/8"	AVT-2256	17/32"	1/8"
AVT-2259	9/16"	1/8"	AVT-2260	9/16"	1/8"
AVT-2263	19/32"	1/8"	AVT-2264	19/32"	1/8"
AVT-2267	5/8"	1/8"	AVT-2268	5/8"	1/8"
AVT-2271	21/32"	3/16"	AVT-2272	21/32"	3/16"
AVT-2275	11/16"	3/16"	AVT-2276	11/16"	3/16"
AVT-2278	23/32"	3/16"	AVT-2279	23/32"	3/16"
AVT-2281	3/4"	3/16"	AVT-2282	3/4"	3/16"
AVT-2285	25/32"	3/16"	AVT-2286	25/32"	3/16"
AVT-2289	13/16"	3/16"	AVT-2290	13/16"	3/16"
AVT-2292	27/32"	3/16"	AVT-2293	27/32"	3/16"
AVT-2295	7/8"	3/16"	AVT-2296	7/8"	3/16"
AVT-2298	29/32"	3/16"	AVT-2299	29/32"	3/16"
AVT-2302	15/16"	3/16"	AVT-2303	15/16"	3/16"
AVT-2306	31/32"	3/16"	AVT-2307	31/32"	3/16"
AVT-2310	1"	3/16"	AVT-2311	1"	3/16"

3/8" Shank H.S.S.			3/8" Shank Carbide Tipped		
Part Number	Cutter Dia.	Pilot Hole	Part Number	Cutter Dia.	Pilot Hole
AVT-2320	1-1/16"	3/16"	AVT-2321	1-1/16"	3/16"
AVT-2324	1-1/8"	3/16"	AVT-2325	1-1/8"	3/16"
AVT-2328	1-3/16"	3/16"	AVT-2329	1-3/16"	3/16"
AVT-2332	1-1/4"	3/16"	AVT-2333	1-1/4"	1/4"
AVT-2336	1-5/16"	3/16"	AVT-2337	1-5/16"	1/4"
AVT-2340	1-3/8"	3/16"	AVT-2341	1-3/8"	1/4"
AVT-2343	1-7/16"	3/16"	AVT-2344	1-7/16"	1/4"
AVT-2346	1-1/2"	3/16"	AVT-2347	1-1/2"	1/4"

Aircraft Counterbore Pilots



- Made from precision ground, finest quality tool steel.
- Fits most standard aircraft counterbores.
- Can also be used with threaded shank stop counterbores (shown on previous page).

3/32" Shank		3/16" Shank	
Part Number	Head Dia.	Part Number	Head Dia.
AVT-2215	3/32"	AVT-2216	3/16"
AVT-2217	1/8"	AVT-2218	#10
AVT-2219	5/32"	AVT-2220	7/32"
AVT-2223	#20	AVT-2224	1/4"
AVT-2227	3/16"	AVT-2228	F
AVT-2231	#10	AVT-2232	9/32"
AVT-2235	7/32"	AVT-2236	5/16"
AVT-2239	1/4"	AVT-2240	11/32"
AVT-2243	F	AVT-2244	3/8"

1/8" Shank	
Part Number	Head Dia.
AVT-2254	1/8"
AVT-2258	5/32"
AVT-2262	#20
AVT-2266	3/16"
AVT-2270	#10
AVT-2274	7/32"
AVT-2277	1/4"
AVT-2280	F
AVT-2283	9/32"
AVT-2287	5/16"

5/32" Shank	
Part Number	Head Dia.
AVT-2300	5/32"
AVT-2304	#20
AVT-2308	3/16"
AVT-2312	#10
AVT-2314	7/32"
AVT-2316	1/4"
AVT-2318	F
AVT-2322	9/32"
AVT-2326	5/16"
AVT-2330	11/32"
AVT-2334	3/8"
AVT-2338	13/32"
AVT-2342	7/16"
AVT-2345	15/32"
AVT-2348	1/2"

1/4" Shank	
Part Number	Head Dia.
AVT-2284	1/4"
AVT-2288	F
AVT-2291	9/32"
AVT-2294	5/16"
AVT-2297	11/32"
AVT-2301	3/8"
AVT-2305	13/32"
AVT-2309	7/16"
AVT-2313	15/32"
AVT-2315	1/2"
AVT-2317	17/32"
AVT-2319	9/16"
AVT-2323	19/32"
AVT-2327	5/8"
AVT-2331	21/32"
AVT-2335	11/16"
AVT-2339	23/32"

PUNCH & CUTTING TOOLS

4-Flute Back Countersink Cutters

- Precision ground with 100° cutting angle.
- For restricted areas where conventional countersinks cannot be utilized.



H.S.S.	Solid Carbide	Cutter Dia.	Pilot Hole
AVT-2349	AVT-2350	1/4"	3/32"
AVT-2353	AVT-2354	1/4"	1/8"
AVT-2357	AVT-2358	5/16"	3/32"
AVT-2361	AVT-2362	5/16"	1/8"
AVT-2365	AVT-2366	5/16"	5/32"
AVT-2369	AVT-2370	3/8"	1/8"
AVT-2373	AVT-2374	3/8"	5/32"
AVT-2377	AVT-2378	3/8"	3/16"
AVT-2381	AVT-2382	7/16"	1/8"
AVT-2385	AVT-2386	7/16"	5/32"
AVT-2389	AVT-2390	7/16"	3/16"
AVT-2393	AVT-2394	1/2"	5/32"
AVT-2397	AVT-2398	1/2"	3/16"
AVT-2401	AVT-2402	1/2"	1/4"
AVT-2405	AVT-2406	9/16"	5/32"
AVT-2409	AVT-2410	9/16"	3/16"
AVT-2413	AVT-2414	9/16"	1/4"
AVT-2417	AVT-2418	5/8"	3/16"
AVT-2421	AVT-2422	5/8"	1/4"
AVT-2425	AVT-2426	5/8"	5/16"
AVT-2429	AVT-2430	11/16"	1/4"
AVT-2433	AVT-2434	11/16"	5/16"
AVT-2437	AVT-2438	3/4"	1/4"
AVT-2441	AVT-2442	3/4"	3/8"
AVT-2445	AVT-2446	7/8"	5/16"
AVT-2449	AVT-2450	7/8"	3/8"
AVT-2453	AVT-2454	1"	5/16"
AVT-2457	AVT-2458	1"	1/2"
AVT-2461	AVT-2462*	1-1/4"	3/8"
AVT-2465	AVT-2466*	1-1/4"	1/2"

*These models carbide tipped, not solid carbide.

4-Flute Back Spotfacers

- Precision ground.
- For restricted areas where conventional spotfacers cannot be utilized.

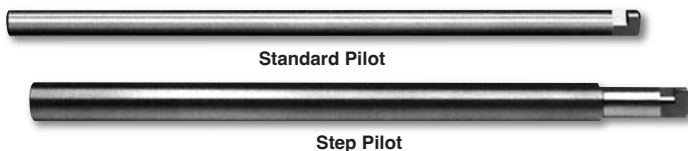


Note: Corner radii: H.S.S. 1/32", Solid Carbide 1/64".

H.S.S.	Solid Carbide	Cutter Dia.	Pilot Hole
AVT-2351	AVT-2352	1/4"	3/32"
AVT-2355	AVT-2356	1/4"	1/8"
AVT-2359	AVT-2360	5/16"	1/8"
AVT-2363	AVT-2364	5/16"	5/32"
AVT-2367	AVT-2368	3/8"	5/32"
AVT-2371	AVT-2372	3/8"	3/16"
AVT-2375	AVT-2376	7/16"	5/32"
AVT-2379	AVT-2380	7/16"	3/16"
AVT-2383	AVT-2384	1/2"	3/16"
AVT-2387	AVT-2388	1/2"	1/4"
AVT-2391	AVT-2392	9/16"	5/32"
AVT-2395	AVT-2396	9/16"	3/16"
AVT-2399	AVT-2400	9/16"	1/4"
AVT-2403	AVT-2404	5/8"	1/4"
AVT-2407	AVT-2408	5/8"	5/16"
AVT-2411	AVT-2412	11/16"	1/4"
AVT-2415	AVT-2416	11/16"	5/16"
AVT-2419	AVT-2420	3/4"	5/16"
AVT-2423	AVT-2424	3/4"	3/8"
AVT-2427	AVT-2428	7/8"	5/16"
AVT-2431	AVT-2432	7/8"	3/8"
AVT-2435	AVT-2436	1"	5/16"
AVT-2439	AVT-2440	1"	1/2"
AVT-2443	AVT-2444*	1-1/8"	1/2"
AVT-2447	AVT-2448*	1-1/4"	3/8"
AVT-2451	AVT-2452*	1-3/8"	5/8"
AVT-2455	AVT-2456*	1-1/2"	5/8"
AVT-2459	AVT-2460*	1-3/4"	3/4"
AVT-2463	AVT-2464*	1-7/8"	3/4"
AVT-2467	AVT-2468*	2"	3/4"

*These models carbide tipped, not solid carbide.

Back Countersink & Back Spotfacer Pilots



- Interchangeable with back countersink & back spotfacer cutters.
- Standard pilots are 6" overall length.
- Units with double drive bayonet lock are 8" overall length.
- Selection continues on next page.

Standard Pilots		Standard Pilots	
Part Number	Pilot Diameter	Part Number	Pilot Diameter
AVT-2469	3/32"	AVT-2470	5/16"
AVT-2471	1/8"	AVT-2472	3/8"
AVT-2473	5/32"	AVT-2474	1/2"
AVT-2475	3/16"	AVT-2476*	5/8"
AVT-2477	1/4"	AVT-2478*	3/4"

*These models furnished with double drive bayonet lock.

Back Countersink & Spotfacer Pilots (cont'd)

Step Pilots		
Part Number	Pilot Diameter	Step Diameter
AVT-2479	3/32"	1/8"
AVT-2480	1/8"	5/32"
AVT-2481	5/32"	3/16"
AVT-2482	3/16"	1/4"
AVT-2483	1/4"	5/16"
AVT-2484	5/32"	3/16"
AVT-2486	3/16"	1/4"
AVT-2488	1/4"	5/16"
AVT-2489	5/16"	3/8"
AVT-2490	3/8"	1/2"
AVT-2491	1/2"	9/16"
AVT-2492	1/4"	5/16"
AVT-2493	5/16"	3/8"
AVT-2494	3/8"	1/2"
AVT-2495	1/2"	9/16"
AVT-2496*	5/8"	3/4"
AVT-2497*	5/8"	7/8"
AVT-2498*	3/4"	7/8"
AVT-2499*	3/4"	1"
AVT-2500*	3/4"	1-1/4"

*These models furnished with double drive bayonet lock.

Back Countersink & Back Spotfacer Kits



- Precision ground with correct 100° cutting angle.
- Carbide kits for use with steel, inconel & composite materials.

Includes:

Six Pilots (3/32", 1/8", 5/32", 3/16", 1/4" & 5/16"), Seven 100° Cutters (1/4", 5/16", 3/8", 7/16", 1/2", 9/16" & 5/8") & Plastic Case

14 PC Back Countersink Kits		14 PC Back Spotfacer Kits	
H.S.S.	Solid Carbide	H.S.S.	Solid Carbide
AVT-2503	AVT-2504	AVT-2505	AVT-2506

Fine & Coarse Tooth Hole Saws

Fine Tooth

For use with aluminum, sheet steel & plastics.

Coarse Tooth

For use with thicker materials - deep teeth allow proper chip flow.



Part Number (prefix)	Description
AVT-2485	Fine Tooth
AVT-2487	Coarse Tooth

Note: Select the type saw (chart above), then add the diameter number (chart below).
Example: For fine tooth with a 3/8" diameter, the part number would be AVT-2485-1.

Suffix	Diameter*	Suffix	Diameter*
1	3/8" (9.5 mm)	24	1-3/16" (30 mm)
2	13/32" (10.3 mm)	25	1-1/4" (32 mm)
3	7/16" (11 mm)	26	1-5/16" (33 mm)
4	15/32" (11.8 mm)	27	1-3/8" (35 mm)
5	1/2" (12.8 mm)	28	1-7/16" (36 mm)
6	17/32" (13.5 mm)	29	1-1/2" (38 mm)
7	9/16" (14.2 mm)	30	1-9/16" (40 mm)
8	19/32" (15 mm)	31	1-5/8" (41 mm)
9	5/8" (15.8 mm)	32	1-11/16" (43 mm)
10	21/32" (16.6 mm)	33	1-3/4" (44 mm)
11	11/16" (17.4 mm)	34	1-13/16" (46 mm)
12	23/32" (18.2 mm)	35	1-7/8" (47.5 mm)
13	3/4" (19 mm)	36	1-15/16" (49 mm)
14	25/32" (19.8 mm)	37	2" (51 mm)
15	13/16" (20.6 mm)	38	2-1/8" (54 mm)
16	27/32" (21.4 mm)	39	2-1/4" (57 mm)
17	7/8" (22.2 mm)	40	2-3/8" (60 mm)
18	29/32" (23 mm)	41	2-1/2" (64 mm)
19	15/16" (23.7 mm)	42	2-5/8" (67 mm)
20	31/32" (24.5 mm)	43	2-3/4" (70 mm)
21	1" (25 mm)	44	2-7/8" (73 mm)
22	1-1/16" (27 mm)	45	3" (76 mm)
23	1-1/8" (29 mm)		

*3/8" to 1-1/4" diameter is 5/16"-24 thread, 1-5/16" to 3" diameter is 1/2"-20 thread.

Hole Saw Arbors

Precision Ground To Ensure Concentricity



AVT-2501

1/4" Shank, 5/16"-24 Thread		1/2" Shank, 1/2"-20 Thread	
Part Number	Pilot Diameter	Part Number	Pilot Diameter
AVT-2501	3/16"	AVT-2502	1/4"
AVT-2507	1/4"	AVT-2508	3/8"

PUNCH & CUTTING TOOLS

Blair® 'Blaircutter' Hole Cutter Kit

- Accurate, burr-free holes in materials up to 3/16" thick.
- Spring loaded arbor pilot pops the slug from the cutter.

AVT-2509

*Made In
The USA*



Complete Kit Includes:

Arbor, Three Extra Pilots, Seven Cutters (1/4", 5/16", 3/8", 7/16", 1/2", 9/16" & 5/8") & Carrying Case

Part Number	Material Capacity	Arbor Shank
AVT-2509	3/16"	1/4"

Replacement Cutters (sold in packs of 3)

1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"
AVT-2510	AVT-2511	AVT-2512	AVT-2513	AVT-2514	AVT-2515	AVT-2516

Blair® 'Rotabroach' Large Dia. Hole Cutter Kit

*Made In
The USA*



*Precise,
Burr-Free
Holes*

AVT-2527

- Precision ground teeth will cut everything from plastic to stainless.
- For precision holmaking in sheet metal, frame materials, and plate stock up to 1/2" thick without chip clogging.

Complete Kit Includes:

Arbor, Hex Washer, Center Punch, Extra Pilot, Six Cutters (7/8", 1", 1-1/8", 1-1/4", 1-3/8" & 1-1/2") & Carrying Case

Part Number	Material Capacity	Arbor Shank
AVT-2527	1/2"	1/2"

Replacement Cutters (sold individually)

7/8"	1"	1-1/8"	1-1/4"	1-3/8"	1-1/2"
AVT-2529	AVT-2530	AVT-2531	AVT-2532	AVT-2533	AVT-2534

Blair® Auto & Fabricator Hole Cutter Kit

*Great For
Sheet Metal*

AVT-2517



*Made In
The USA*

- Precision ground & hardened M2 high speed steel teeth.
- Produce large holes 3X faster and cleaner than regular hole saws.

Complete Kit Includes:

Arbor, Hex Washer, Center Punch, Extra Pilot, Six Cutters (7/8", 1-1/8", 1-3/8", 1-3/4", 2" & 2-1/2") & Carrying Case

Part Number	Material Capacity	Arbor Shank
AVT-2517	1/8"	3/8"

Replacement Cutters (sold individually)

7/8"	1"	1-1/8"	1-1/4"	1-3/8"	1-1/2"	1-3/4"	2"	2-1/2"
AVT-2518	AVT-2519	AVT-2520	AVT-2521	AVT-2522	AVT-2523	AVT-2524	AVT-2525	AVT-2526

Hougen® Heavy-Duty Hole Cutter Kit

*Can Be
Mounted
On Air Feed
Drill Units*

AVT-2528



Complete Kit Includes:

Arbor With Spring Loaded Retractable Pilot, Extra Pilot, Seven Cutters (5/16", 3/8", 7/16", 1/2", 9/16", 5/8" & 3/4"), Center Punch, Allen Wrench, Stop Washers & Carrying Case

Part Number	Material Capacity	Arbor Shank
AVT-2528	1/4"	3/8"

Replacement Cutters (sold in packs of 3)

1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"
AVT-2535	AVT-2536	AVT-2537	AVT-2538	AVT-2539	AVT-2540	AVT-2541	AVT-2542

BAHCO® Hole Saw Sets



Thirteen Piece Set Includes:

AVT-2543

Nine Hole Saws (3/4", 7/8", 1-1/8", 1-3/8", 1-1/2", 1-3/4", 2", 2-1/4" & 2-1/2"), Two Arbors & Adaptor (fits 9/16" to 1-3/16" and 1-1/4" to 6" hole saws), Pilot Drill & Fitted Plastic Case

Part Number	Description
AVT-2543	12PC Set

Hole Cutter

20 Gauge
Sheet Metal
Capacity



Lightweight
Aluminum Frame

- Use with any standard 1/4" drill (tool includes drill bit & allen key).
- Patented shoe feature permits smooth finishing of holes.

Part Number	Hole Cutting Range	Replacement Bit
AVT-2554	2" to 12" (5.1 to 30.5 cm)	AVT-2555
AVT-2557	2" to 20" (5.1 to 50.8 cm)	

Allpax® Gasket Cutter Kits

Hardened Steel
Cutting Heads



- Quickly punch precision bolt holes in flange gaskets.
- Patented locking system allows rapid change of cutting heads.
- Unique design punches single dia. holes (bolt holes) as well as dual diameter rings (washers) in one operation.

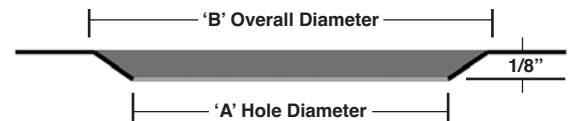
Part Number	Description	Hole Sizes	Weight
AVT-2564	16 PC Imperial Kit	1/8" to 1-3/16"	2.5 lbs (1.1 kgs)
AVT-2566	16 PC Metric Kit	3 mm to 30 mm	1.1 lbs (0.5 kgs)

Aircraft Punch & Flare Dies

Simple, Fast
& Accurate



- Designed to punch the required hole size and follow with a 35-degree straight angle (leg depth of 1/8").
- Hand or arbor press operation in aluminum up to 14 ga (0.064"), mild steel up to 16 ga (0.059") and stainless up to 19 ga (0.040").
- Just drill a pilot hole for the draw bolt, then apply the tool and tighten with a wrench for a perfectly smooth, flared hole.



Part Number	'A' Hole Diameter	'B' Overall Diameter
AVT-2544	1"	2"
AVT-2545	1-1/4"	2-1/4"
AVT-2546	1-1/2"	2-1/2"
AVT-2547	1-3/4"	2-3/4"
AVT-2548	2"	3"
AVT-2549	2-1/4"	3-1/4"
AVT-2550	2-1/2"	3-1/2"
AVT-2551	2-3/4"	3-3/4"
AVT-2552	3"	4"
AVT-2553	3-1/8"	4-1/8"
AVT-2556	3-1/4"	4-1/4"
AVT-2558	3-1/2"	4-1/2"
AVT-2559	3-3/4"	4-3/4"
AVT-2560	4"	5"
AVT-2561	5"	6"
AVT-2562	6"	7"

Note: Special shapes/sizes available on request, please inquire.



Aircraft Punch & Flare Kits		
Part Number	Description	Hole Range
AVT-2563	6 PC Kit	1" to 2-1/2" Dia. (does not include 2-1/4")
AVT-2565	9 PC Kit	1" to 3" Diameter
AVT-2567	13 PC Kit	1" to 4" Dia. (does not include 3-1/8")

PUNCH & CUTTING TOOLS

Hand Metal Punch Kit



AVT-2569

1-3/4"
Throat

Standard Metal Punch Kit:

Hand Metal Punch, Seven Punch & Die Sets (3/32", 1/8", 5/32", 3/16", 7/32", 1/4" & 9/32") & Foam Fitted Plastic Case

Part Number	Description
AVT-2569	Complete Kit
AVT-2571	Complete Kit (economy model)
AVT-2572	Bench Mounting Base

Replacement Punch & Die Sets	
Part Number	Size
AVT-2577	#40
AVT-2581	#30
AVT-2585	#21
AVT-2589	#10
AVT-2593	3/32"
AVT-2594	1/8"

Replacement Punch & Die Sets	
Part Number	Size
AVT-2578	5/32"
AVT-2582	3/16"
AVT-2586	7/32"
AVT-2590	1/4"
AVT-2592	9/32"

Note: Other punch/dies available, please inq.

Automatic Center Punches



AVT-2596



AVT-2597

- Spring-loaded operation is adjustable for light or heavy strokes.
- Ground & hardened replaceable point.

Part Number	Body Type	Overall Length
AVT-2596	Steel	5" (127 mm)
AVT-2597	Aluminum	5" (127 mm)

Deep Throat Hand Metal Punch Kit



AVT-2568

Will Also Punch
Channels Up To
1-3/8" Deep

3-1/4"
Throat

Deep Throat Metal Punch Kit:

Hand Metal Punch, Seven Punch & Die Sets (5/32", 7/32", 9/32", 11/32", 13/32", 15/32" & 17/32") & Foam Fitted Plastic Case

Part Number	Description
AVT-2568	Complete Kit
AVT-2570	Bench Mounting Base

Replacement Punch & Die Sets	
Part Number	Size
AVT-2573	3/32"
AVT-2575	1/8"
AVT-2579	5/32"
AVT-2583	3/16"
AVT-2588	7/32"
AVT-2591	1/4"

Replacement Punch & Die Sets	
Part Number	Size
AVT-2574	9/32"
AVT-2576	11/32"
AVT-2580	13/32"
AVT-2584	15/32"
AVT-2587	17/32"

Note: Other punch/dies available, please inq.

NOXON® Combo Prick Punch & Center Punch



- Prick punch creates slight indentations for precision marking.
- Center punch creates deep indentations for pilot holes.

Part Number	Weight	Overall Length
AVT-2595	1.7 oz (48.2 g)	5-1/4" (133 mm)

Pocket Automatic Center Punch



- Slim design.
- Adjustable for light or heavy strokes.

Part Number	Description
AVT-1852	Tool with Centering Point

SPI® Fine Optical Center Punch

*High Accuracy
Center Punching
Made Simple*



*Includes
Fitted Case*

- 9X magnification spotting lens with center dot and circle.
- Solid, precision guide base with scratch protection.
- Ground center punch made of hardened tool steel.

Part Number	Accuracy
AVT-2603	0.002"

Hand Punch Sets



AVT-2612



AVT-2619



AVT-2614

- Hardened & tempered tool steel with ground points of 45-52 Rc.
- Knurled punch body for better grip.
- Includes fitted case with clear size markings.

5 PC Center Punch Set, 4" Overall Length	
Part Number	Point Sizes Included
AVT-2612	1/16", 5/64", 3/32", 9/64" & 5/32"

8 PC Drive Pin Set, 4" Overall Length	
Part Number	Point Sizes Included
AVT-2614	1/16", 3/32", 1/8", 5/32", 3/16", 7/32", 1/4" & 5/16"

5 PC Extra Long Drive Pin Set, 8" Overall Length	
Part Number	Point Sizes Included
AVT-2619	1/8", 3/16", 1/4", 5/16" & 3/8"

Round Shank Center Punches



- Points are ground to size for maximum strength & penetration.
- Knurled hand grip stamped with size for quick identification.

Part Number	Punch Diameter	Overall Length
AVT-2598	1/16"	3-1/16" (78 mm)
AVT-2599	5/64"	3-19/32" (91 mm)
AVT-2600	3/32"	3-7/8" (98 mm)
AVT-2601	9/64"	4" (102 mm)
AVT-2602	5/32"	4" (102 mm)

Drive Pin Hand Punches

*Knurled
Hand
Grips*



- Durable tool steel uniformly heat treated & centerless ground.
- Ends are ground square for accurate pin driving.

Standard, 4" (102 mm) Overall Length		
Part Number	Punch Diameter	Punch Length 'L'
AVT-2604	1/16"	3/4" (19 mm)
AVT-2605	3/32"	
AVT-2606	1/8"	
AVT-2607	5/32"	1" (25 mm)
AVT-2608	3/16"	
AVT-2609	7/32"	
AVT-2610	1/4"	
AVT-2611	5/16"	



Extra Long Drive Pin Punches

- For use on work not accessible with shorter punches.
- Conforms to government spec GGG-P-831E.

Extra Long, 8" (203 mm) Overall Length		
Part Number	Punch Diameter	Punch Length 'L'
AVT-2613	1/8"	3-1/2" (89 mm)
AVT-2615	3/16"	
AVT-2616	1/4"	
AVT-2617	5/16"	
AVT-2618	3/8"	

PUNCH & CUTTING TOOLS

Duplicating Punches

Tight Tolerance Hole Duplication



AVT-2624

- Accurately center punch hole location from one sheet to another.
- Manufactured from heat-treated, oil hardened drill rod.

Part Number	Punch Size	Overall Length
AVT-2620	3/32"	3-1/2" (89 mm)
AVT-2621	#40	3-1/2" (89 mm)
AVT-2622	1/8"	3-1/2" (89 mm)
AVT-2623	#30	3-1/2" (89 mm)
AVT-2624	1/4"	3-1/2" (89 mm)
AVT-2626	5/16"	3-1/2" (89 mm)



AVT-2629

Duplicating Punch Kit:

Fourteen Punches (3/32", #40, 1/8", #30, 5/32", #19, 3/16", #10, 7/32", 1/4", 5/16", 3/8", 7/16" & 1/2") & Fitted Plastic Case

Part Number	Description
AVT-2629	Complete 15 PC Kit

Transfer Punch Sets

Includes Indexed Stand

- Heat-treated & tempered tool steel construction.
- Transfer punches available individually, please inquire.
- Punches are 4-7/8" O.A.L.



AVT-2631

Part Number	Type	Point Sizes Included
AVT-2631	28 PC Fractional	3/32" to 1/2" (x 64ths) & 17/32"
AVT-2632	33 PC Fractional	1/2" to 1" (x 64ths)
AVT-2633	25 PC Metric	1.0 to 13.0 mm (x .5 mm)
AVT-2634	26 PC Letter	A to Z
AVT-2636	60 PC Wire Gauge	#1 to #60

Blind Hole Spotter Set Kits

- A fast and easy way to locate opposite centers.
- Six of each size packed in individual plastic tubes.
- Includes sturdy steel storage case.



AVT-2625

Part Number	Description	Sizes Included
AVT-2625	108 PC Set	1/8" to 21/32" (x 32nds)
AVT-2627	66 PC Set	11/16" to 1" (x 32nds)

Comfort Grip Punch & Chisel Holder



Handle Resistant To Solvents, Gas & Oil

- Keeps your hands safely away from striking tool.
- Adjustable screw allows use with most punches and chisels.

Part Number	Capacity
AVT-2628	0 to 1-1/2" (0 to 38 mm)

NOXON® Chisel & Punch Rivet Removal Set



3500 PSI Driving Force



- Hammerless spring design is great for use in tight areas.
- Use the 5/16" cold chisel to shear protruding steel or aluminum rivets without damaging surface material.
- Use the H.S.S. center punch to easily remove mandrel.
- Center punch designed to mark most hardened materials.

Part Number	Description
AVT-2630	5/16" Cold Chisel & H.S.S. Center Punch

Cold Chisels

Heavy-Duty Industrial Grade

AVT-2635



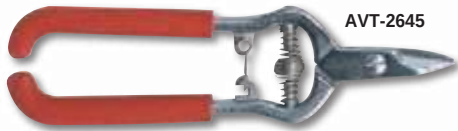
- For cutting, shaping and removing metal softer than the cutting edge of the chisel.
- Works great with the punch & chisel holder shown above.

Part Number	Stock Size	Blade Width	Overall Length
AVT-2635	7/16"	1/2"	6" (15.2 cm)
AVT-2637	7/8"	1"	8" (20.3 cm)

Kevlar Fabric Hand Shears & Scissors



Part Number	Type	Cut Length	Overall Length
AVT-2638	Knife Edge	2-3/4"	8-1/4" (210 mm)



Part Number	Type	Cut Length	Overall Length
AVT-2645	Trim Snip	3/4"	5" (127 mm)



Part Number	Type	Cut Length	Overall Length
AVT-1879	Serrated	4-1/2"	10" (254 mm)

Note: For cordless electric kevlar scissors see page 233.

Diamond Plated Integral Pilot Countersinks



1/4"-28 Thread - 100° Cutter Angle		
Part Number	Outside Diameter	Overall Length
AVT-2661	3/8" (10 mm)	1" (25 mm)
AVT-2663	1/2" (13 mm)	1" (25 mm)
AVT-2664	5/8" (16 mm)	1" (25 mm)

1/4"-28 Thread - 130° Cutter Angle		
Part Number	Outside Diameter	Overall Length
AVT-2665	3/8" (10 mm)	1" (25 mm)
AVT-2666	1/2" (13 mm)	1" (25 mm)
AVT-2667	5/8" (16 mm)	1" (25 mm)

Note: Select a base part number for the required cutter (charts above), add a pilot diameter, grit (chart below), and number of slots (0, 2 or 3).

Example: For a 100°, 1/2" diameter cutter with a 5/32" pilot, 40/60 grit and two slots the part number would be AVT-2663-5/32-B-2.

Available Grits				
30/40	40/60	60/80	120/140	220/270
A	B	C	D	E

Solid Carbide Brad Point Drills



- Specifically designed for drilling graphite and aramid fiber (KEVLAR®) reinforced composite materials.
- Specially modified tip keeps fibers in tension while cutting in shear eliminating delamination for a more precise hole.
- Other sizes available, please inquire.

Solid Carbide				
Part Number	Size	Decimal	Flute	O.A.L.
AVT-2639	3/32"	0.0938"	1/2"	1-3/4" (45 mm)
AVT-2640	#40	0.0980"	1/2"	1-13/16" (46 mm)
AVT-2641	1/8"	0.1250"	5/8"	1-7/8" (48 mm)
AVT-2642	5/32"	0.1562"	3/4"	2-1/16" (52 mm)
AVT-2643	#21	0.1590"	7/8"	2-1/8" (54 mm)
AVT-2644	3/16"	0.1875"	15/16"	2-3/16" (56 mm)
AVT-2646	#10	0.1935"	1"	2-1/4" (57 mm)
AVT-2647	7/32"	0.2188"	1-1/16"	2-3/8" (60 mm)
AVT-2648	1/4"	0.2500"	1-1/4"	2-1/2" (64 mm)
AVT-2649	5/16"	0.3125"	1-1/2"	2-13/16" (71 mm)
AVT-2650	3/8"	0.3750"	1-5/8"	3-1/8" (79 mm)

Solid Carbide Tapered Reamer Drills



- Four flute, tapered tip design is excellent for drilling fiberglass and carbon graphite materials.
- Other lengths available, please inquire.

Solid Carbide - 6" O.A.L.			Solid Carbide - 6" O.A.L.		
Part Number	Size	Decimal	Part Number	Size	Decimal
AVT-2651	#40	0.0980"	AVT-2652	3/16"	0.1875"
AVT-2653	1/8"	0.1250"	AVT-2654	#10	0.1935"
AVT-2655	#30	0.1285"	AVT-2656	#8	0.1990"
AVT-2657	5/32"	0.1562"	AVT-2658	1/4"	0.2500"
AVT-2660	#21	0.1590"	AVT-2659	5/16"	0.3125"
AVT-2662	#20	0.1610"			

Solid Carbide Dagger Drills



- Drill holes in graphite materials (including graphite-aluminum) up to 1/4" thick without delamination.
- Other lengths available, please inquire.

Solid Carbide - 6" O.A.L.			Solid Carbide - 6" O.A.L.		
Part Number	Size	Decimal	Part Number	Size	Decimal
AVT-2668	#40	0.0980"	AVT-2669	3/16"	0.1875"
AVT-2670	#30	0.1285"	AVT-2671	#10	0.1935"
AVT-2672	#21	0.1590"	AVT-2673	1/4"	0.2500"

COMPOSITE CUTTING TOOLS

General Purpose Diamond Plated Twist Drills



Perfect for drilling graphite epoxy, carbon, boron and fiberglass.

Note: Diamond plate length: 3/16" to 1/4". Other sizes available, please inquire.

40/60 Grit - Jobber's Length		40/60 Grit - Jobber's Length	
Part Number	Head Dia.	Part Number	Head Dia.
AVT-2674	1/8" (3.2 mm)	AVT-2675	5/8" (16 mm)
AVT-2676	1/4" (6.35 mm)	AVT-2677	3/4" (19 mm)
AVT-2678	3/8" (10 mm)	AVT-2679	7/8" (22 mm)
AVT-2681	7/16" (11 mm)	AVT-2680	1" (25 mm)
AVT-2682	1/2" (13 mm)		

Diamond Plated Jigsaw Blades



Part Number	Fits Jig Saws	Overall Length
AVT-2683	Black & Decker & Competitive	3" (76 mm)
AVT-2686	Rockwell Bayonet	3" (76 mm)
AVT-2689	Bosch Style	3" (76 mm)
AVT-2692	Rockwell Tiger & Competitive	4" (102 mm)
AVT-2695	Black & Decker & Competitive	4" (102 mm)
AVT-2698	Bosch Style	4" (102 mm)

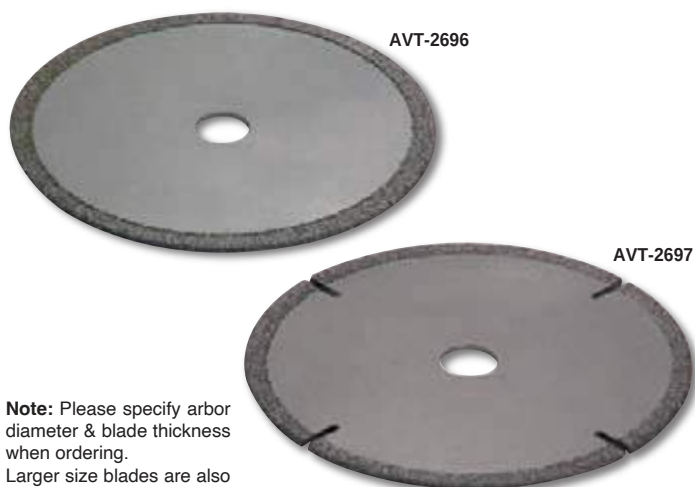
Mounted Diamond Plated Saw Blades



Note: Please specify shank diameter & blade thickness when ordering. Larger size blades are also available, please inquire.

Mounted 40/60 Grit - 1/8" Return			
Part Number Slotted	Part Number Unslotted	Outside Diameter	Plated Thickness (Kerf)
AVT-2713	AVT-2714	3/4" (19 mm)	.080" to .100"
AVT-2715	AVT-2716	1" (25 mm)	
AVT-2717	AVT-2718	1-1/4" (32 mm)	
AVT-2719	AVT-2720	1-1/2" (38 mm)	
AVT-2721	AVT-2722	2" (51 mm)	
AVT-2723	AVT-2724	2-1/2" (64 mm)	.102" to .130"
AVT-2725	AVT-2726	3" (76 mm)	
AVT-2727	AVT-2728	3-1/2" (89 mm)	
AVT-2729	AVT-2730	4" (102 mm)	.130" to .150"
AVT-2731	AVT-2732	4-1/2" (114 mm)	
AVT-2733	AVT-2734	5" (127 mm)	
AVT-2735	AVT-2736	6" (152 mm)	

Arbor Mount Diamond Plated Saw Blades



Note: Please specify arbor diameter & blade thickness when ordering. Larger size blades are also available, please inquire.

Arbor Mounted 40/60 Grit - 1/8" Return			
Part Number Slotted	Part Number Unslotted	Outside Diameter	Plated Thickness (Kerf)
AVT-2684	AVT-2685	1" (25 mm)	.060" to .080"
AVT-2687	AVT-2688	1-1/2" (38 mm)	
AVT-2690	AVT-2691	2" (51 mm)	
AVT-2693	AVT-2694	2-1/2" (64 mm)	
AVT-2696	AVT-2697	3" (76 mm)	
AVT-2699	AVT-2700	3-1/2" (89 mm)	
AVT-2701	AVT-2702	4" (102 mm)	
AVT-2703	AVT-2704	5" (127 mm)	.090" to .110"
AVT-2705	AVT-2706	6" (152 mm)	
AVT-2707	AVT-2708	7" (178 mm)	
AVT-2709	AVT-2710	8" (203 mm)	
AVT-2711	AVT-2712	10" (25.4 cm)	



For AVITORQ's Pro Composite Tool Kit See Page 67

Diamond Plated Integral Shank Hole Saws



2" drilling depth (inside depth). Furnished with windows & slots.

Note: Larger sizes are available, please inquire.

40/60 Grit - 1/8" Return		40/60 Grit - 1/8" Return	
Part Number	Head Dia.	Part Number	Head Dia.
AVT-2737	1/2" (13 mm)	AVT-2738	2" (51 mm)
AVT-2741	3/4" (19 mm)	AVT-2742	2-1/4" (57 mm)
AVT-2745	7/8" (22 mm)	AVT-2746	2-1/2" (64 mm)
AVT-2747	1" (25 mm)	AVT-2748	2-3/4" (70 mm)
AVT-2749	1-1/4" (32 mm)	AVT-2750	3" (76 mm)
AVT-2751	1-1/2" (38 mm)	AVT-2752	4" (102 mm)
AVT-2757	1-3/4" (44 mm)	AVT-2758	5" (127 mm)

Arbor Mount Diamond Plated Hole Saws

MHS Series

AVT-1862



- MHS series, "Black & Decker" type.
- Furnished with windows & slots.
- 1-1/2" drilling depth (inside depth).
- For use with arbors shown below.

Note: Larger sizes are available, please inquire.

40/60 Grit - 1/8" Return		40/60 Grit - 1/8" Return	
Part Number	Head Dia.	Part Number	Head Dia.
AVT-2775	1/2" (13 mm)	AVT-2776	1-3/4" (44 mm)
AVT-2777	9/16" (14 mm)	AVT-2778	1-7/8" (48 mm)
AVT-2779	5/8" (16 mm)	AVT-1864	2" (51 mm)
AVT-2780	3/4" (19 mm)	AVT-2781	2-1/4" (57 mm)
AVT-2782	7/8" (22 mm)	AVT-2783	2-1/2" (64 mm)
AVT-1896	1" (25 mm)	AVT-2784	3" (76 mm)
AVT-2785	1-1/16" (27 mm)	AVT-2786	3-1/4" (83 mm)
AVT-2787	1-1/8" (29 mm)	AVT-2788	3-1/2" (89 mm)
AVT-2791	1-3/16" (30 mm)	AVT-2792	4" (102 mm)
AVT-2795	1-1/4" (32 mm)	AVT-2796	4-1/4" (108 mm)
AVT-2800	1-3/8" (35 mm)	AVT-2801	4-1/2" (114 mm)
AVT-1862	1-1/2" (38 mm)	AVT-2803	5" (127 mm)

Diamond Plated Routers

2-1/2" Shank Length



Note: Please specify shank diameter when ordering. On 3/4" & larger outside diameter routers, minimum shank diameter is 1/2". Larger sizes are available, please inquire.

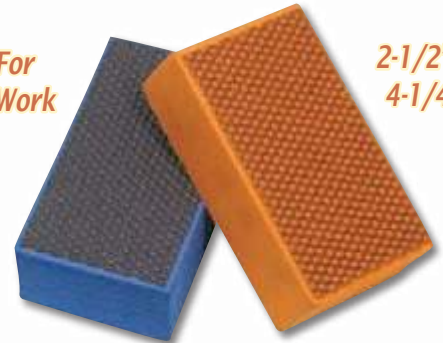
40/60 Grit - 1/8" Outside Diameter		
Unfluted, Square End	Unfluted, Radius End	Head Length
AVT-2739	AVT-2740	1/4" (6.35 mm)
AVT-2743	AVT-2744	1/2" (13 mm)

40/60 Grit - 1/4" Outside Diameter				
Unfluted, Square End	Unfluted, Radius End	Fluted, Square End	Fluted, Radius End	Head Length
AVT-2753	AVT-2754	AVT-2755	AVT-2756	1/4" (6.35 mm)
AVT-2759	AVT-2760	AVT-2761	AVT-2762	1/2" (13 mm)
AVT-2763	AVT-2764	AVT-2765	AVT-2766	3/4" (19 mm)
AVT-2767	AVT-2768	AVT-2769	AVT-2770	1" (25 mm)
AVT-2771	AVT-2772	AVT-2773	AVT-2774	1-1/2" (38 mm)

Flexible Diamond Hand Sanding Pads

Excellent For Composite Work

2-1/2" Wide x 4-1/4" Long



These diamond hand sanding pads work best when used wet.

Plated (for grinding)		Resin (for finishing)	
Part Number	Grit	Part Number	Grit
AVT-2789	70	AVT-2790	220
AVT-2793	120	AVT-2794	600
AVT-2797	220	AVT-2798	1800
AVT-2802	400	AVT-2799	3500
AVT-2804	600		

MHS Series Hole Saw Arbors



- Setscrew body for pilot drill adjustment.
- Quick release for change of hole saws with arbor in chuck.

Note: Also available with pilots, please inquire.

For 1/2" To 1-3/16" Diameter Hole Saws			
Part Number	Screw Thread	Shank Size	Chuck Size
AVT-1866	1/2"-20	11/32" Hex	3/8"

For 1-1/4" To 5" Diameter Hole Saws			
Part Number	Screw Thread	Shank Size	Chuck Size
AVT-2805	5/8"-18	7/16" Hex	1/2"

DEBURRING TOOLS

Shaviv® Universal Deburring Kit



Versatile set includes tool for both sheet-edge cleaning and general deburring across a wide range of materials.

Kit Includes:

Ergonomic Tool Handle, 'Burr-Bi' Double Edge Deburr Tool with Hand Guard & Two Sets Of Wheel Blades, Four Telescoping Blade Holders, Ten Blades in Assorted Profiles, Hex Key & Fitted Case

Part Number	Description
AVT-2811	Complete 21 PC Kit

Shaviv® Burr-Bi Double Edge Deburr Tool



AVT-2816

Built-In Hand Guard

- Deburrs both sides of the workpiece quick and efficiently.
- Heavy-duty, round R10 H.S.S. blades are double-sided. (side 'A' side for spiral chips, 'B' side for powdery chips)

Part Number	Material Capacity
AVT-2816	Up to 5/8"

Replacement Blades	
Part Number	Description
AVT-2817	Replacement Blade Set

Shaviv® Deburr Tool



- Ideal for when need to get up close to the workpiece.
- Safety lock to prevent losing blades while working.
- Includes one of all five blades shown below.

Part Number	Description
AVT-1805	Deburr Tool With 5 Blades

Heavy-Duty H.S.S. Replacement Blades (3.2 mm)

Part Number	Description
AVT-2806	General purpose, for metals with spiral chips.
AVT-2807	Thin pointed nose for small holes (down to 1/16").
AVT-2808	Thin rounded nose for small holes. Left & right cut.
AVT-2809	For powdery chips and plastic. Left & right cut.
AVT-2810	For spiral chips and plastic. Dual inside & outside cut.

Note: Cobalt, TiN coated and carbide blades also available, please inquire.

Shaviv® Aeroburr Deburring Sets



- Perfect for deburring curves and small holes down to 1/16".
- Customized specifically for the aerospace industry.
- TiN blades offer five times the life of non-coated blades.
- For use on steel, aluminum, copper, stainless and plastics.
- Includes five blades and blade holder.

Part Number	Description
AVT-2812	7PC Standard-Duty Set
AVT-2813	7PC Heavy-Duty Set

TiN Coated H.S.S. Replacement Blades

Part Number	Description
AVT-2814	Standard-duty, thin pointed, 2.6 mm thick blade.
AVT-2815	Heavy-duty, thin pointed, 3.2 mm thick blade.

Burnishing Tool



- Designed to remove blemishes & scratches in sheet metal.
- Heat-treated blade is hard chrome plated & mirror polished.

Part Number	Overall Length
AVT-2818	6-5/8" (168 mm)

Shaviv® Telescoping Deburr Tools



Includes 0.78" Capacity Cutter

AVT-2819

- Powerful tools excellent for both countersinking and chamfering.
- Telescoping action for chamfering in deep holes and tight spaces.

Telescoping Ratchet Deburr Tool

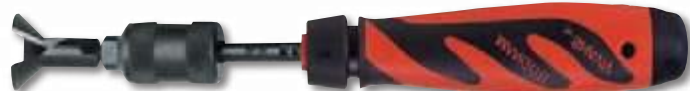
- Ratchet mechanism makes countersinking trouble free.
- Great where normal rotational deburring is impossible.

Part Number	Type	Telescope Action
AVT-1740	Standard	1/4" to 3-1/4"
AVT-2819	Ratchet	

Replacement Cutters

Part Number	Capacity
AVT-2820	0.47"
AVT-2821	0.78"
AVT-2822	1.18"

Shaviv® Telescoping Ratchet OD Deburr Tool



AVT-2823

Includes 1.02" Capacity Cutter

- Quick rotational chamfering of pipes, tubes etc. up to 1" OD.
- For use on steel, aluminum, copper, stainless and plastics.

Part Number	Description
AVT-2823	Tool w/1.02" Capacity Cutter

Replacement Cutter

Part Number	Capacity
AVT-2824	1.02"

Slim-Grip Disposable Burrs

Versatile & Cost Effective



- For use on steel & aluminum.
- Fixed heavy-duty E-100 blade.

Part Number	Overall Length
AVT-2831	5-1/2" (140 mm)

'Speed Driver' Hole Deburring Tool



AVT-0371

- Provides rapid deburring of drilled holes with high torque.
- Shown with cutter, not included (available below).

Part Number	Description
AVT-0369	Speed Driver Only
AVT-0371	Speed Driver & 3/8" Diameter 100° Cutter



100° Cutters

Part Number	Diameter
AVT-0376	3/8"
AVT-0378	1/2"
AVT-0380	5/8"

SPI® Fine Deburring Set



AVT-2825

*Ideal For
Delicate
Parts*

- Six double end tools with revolving, hardened steel deburring discs.
- Comfortable knurled handle - includes plastic pouch.

Complete 7 PC Kit

Part Number	Wheel Size Range
AVT-2825	0.060" to 0.208" dia.

Individual Tools

Part Number	Wheel Diameters
AVT-2826	0.060" & 0.070"
AVT-2827	0.082" & 0.092"
AVT-2828	0.106" & 0.116"
AVT-2829	0.134" & 0.150"
AVT-2830	0.160" & 0.185"
AVT-2832	0.198" & 0.208"

DEBURRING TOOLS

Burraway Deburring Tool Kit

- Convenient kit keeps your tools neat & organized.
- Furnished with double acting blade for burr removal on both the front & back sides of hole.
- The inexpensive, replaceable cutting blades can be adjusted to control the amount of edge break.
- Spring tensioned blade retracts automatically as it passes through the workpiece.
- Crowned & polished top surface of the blade will not mar interior of the hole.

Includes The Most Popular Sizes With Replacement Blades



Complete Kit Includes:

Five Burraway Tools with Blade (1/8", 5/32", 3/16", 7/32" & 1/4"), Five Replacement Blades (1/8", 5/32", 3/16", 7/32" & 1/4") & Fitted Plastic Case

Note: Individual Burraway tools & replacement blades available below.

Part Number	Description
AVT-2833	Complete 11 PC Kit

Burraway Deburring Tools



*Adjustable
Blade Tension*

*Easily Deburr Both
Sides In One Pass*

- Furnished with double acting blade for burr removal on both the front & back sides of hole.
- The inexpensive, replaceable cutting blades can be adjusted to control the amount of edge break.
- Spring tensioned blade retracts automatically as it passes through the workpiece.
- Crowned & polished top surface of the blade will not mar interior of the hole.

Note: Many other sizes available. Carbide tipped & TiN coated replacement blades also available, please inquire.

Fractional Sizes			
Complete Tool	Extra Blade	Hole Size	Decimal Equiv.
AVT-2834	AVT-2835	3/32"	.0938"
AVT-2838	AVT-2839	7/64"	.1094"
AVT-2842	AVT-2843	1/8"	.1250"
AVT-2846	AVT-2847	5/32"	.1562"
AVT-2850	AVT-2851	3/16"	.1875"
AVT-2854	AVT-2855	7/32"	.2188"
AVT-2858	AVT-2859	1/4"	.2500"
AVT-2862	AVT-2863	9/32"	.2812"
AVT-2866	AVT-2867	5/16"	.3125"
AVT-2870	AVT-2871	11/32"	.3438"
AVT-2874	AVT-2875	3/8"	.3750"
AVT-2878	AVT-2879	13/32"	.4062"

Metric Sizes			
Complete Tool	Extra Blade	Hole Size	Decimal Equiv.
AVT-2836	AVT-2837	2.0 mm	.0787"
AVT-2840	AVT-2841	2.5 mm	.0984"
AVT-2844	AVT-2845	3.0 mm	.1181"
AVT-2848	AVT-2849	3.5 mm	.1378"
AVT-2852	AVT-2853	4.0 mm	.1575"
AVT-2856	AVT-2857	4.5 mm	.1772"
AVT-2860	AVT-2861	5.0 mm	.1969"
AVT-2864	AVT-2865	5.5 mm	.2165"
AVT-2868	AVT-2869	6.0 mm	.2362"
AVT-2872	AVT-2873	6.5 mm	.2559"
AVT-2876	AVT-2877	7.0 mm	.2756"
AVT-2880	AVT-2881	7.5 mm	.2953"

Burr-Off® Tools

AVT-2888



- The original 'clothespin' tool - with its integral cutting edges it will deburr thousands of holes on both sides and can be reground for even longer tool life.
- Suited to high production, automated deburring operations.
- All sizes are 4" overall length.
- Larger sizes and other options are available, please inquire.



*Deburr Both Sides
In One Pass*

5 PC Burr-Off Set	
Part Number	Includes
AVT-2882	AVT-2883, AVT-2892, AVT-2898, AVT-2888 & AVT-2885

Part Number	Hole Sizes	Shank Dia.
AVT-2883	.093" to .109"	.092"
AVT-2887	.109" to .125"	.139"
AVT-2892	.125" to .140"	.124"
AVT-2895	.140" to .156"	.139"
AVT-2898	.156" to .172"	.155"

Part Number	Hole Sizes	Shank Dia.
AVT-2884	.172" to .187"	.171"
AVT-2888	.187" to .203"	.186"
AVT-2893	.203" to .219"	.202"
AVT-2896	.219" to .234"	.218"
AVT-2899	.234" to .250"	.233"

Part Number	Hole Sizes	Shank Dia.
AVT-2885	.250" to .266"	.249"
AVT-2889	.266" to .281"	.265"
AVT-2894	.281" to .297"	.280"
AVT-2897	.297" to .313"	.296"
AVT-2900	.313" to .328"	.312"

Part Number	Hole Sizes	Shank Dia.
AVT-2886	.328" to .343"	.327"
AVT-2890	.093" to .109"	.092"
AVT-2891	.359" to .375"	.358"

Piloted (Bonding) Wire Rivet Hole Brushes

- Designed to remove surface material and coatings for grounded contact points.
- Cleans paint, dirt, rust etc. from around rivet holes.

Stainless Steel Wire



AVT-1797

Brush Wire Diameter Applications	
0.005"	Fine to light surface preparation.
0.008"	Light to medium surface removal and preparation.
0.010"	Medium surface removal and preparation.
0.014"	Aggressive surface removal and preparation.

Note: Maximum safe free speed is 20,000 RPM. Larger diameter, reverse & threaded shank type brushes are also available, please inquire.

0.005" Brush Wire Diameter			
1/4" Body Dia.	3/8" Body Dia.	1/2" Body Dia.	Pilot Diameter
—	AVT-2901	AVT-1797	3/32"
AVT-2904	AVT-2905	AVT-1799	1/8"
AVT-2909	AVT-2910	AVT-1800	5/32"
AVT-2914	AVT-2915	AVT-1802	3/16"
—	AVT-2919	AVT-2920	1/4"

0.010" Brush Wire Diameter			
1/4" Body Dia.	3/8" Body Dia.	1/2" Body Dia.	Pilot Diameter
—	AVT-2902	AVT-2903	3/32"
AVT-2906	AVT-2907	AVT-2908	1/8"
AVT-2911	AVT-2912	AVT-2913	5/32"
AVT-2916	AVT-2917	AVT-2918	3/16"
—	AVT-2921	AVT-2922	1/4"

0.008" Brush Wire Diameter			
1/4" Body Dia.	3/8" Body Dia.	1/2" Body Dia.	Pilot Diameter
—	AVT-2923	AVT-2924	3/32"
AVT-2927	AVT-2928	AVT-2929	1/8"
AVT-2933	AVT-2934	AVT-2935	5/32"
AVT-2939	AVT-2940	AVT-2941	3/16"
—	AVT-2945	AVT-2946	1/4"

0.014" Brush Wire Diameter			
1/4" Body Dia.	3/8" Body Dia.	1/2" Body Dia.	Pilot Diameter
—	AVT-2925	AVT-2926	3/32"
AVT-2930	AVT-2931	AVT-2932	1/8"
AVT-2936	AVT-2937	AVT-2938	5/32"
AVT-2942	AVT-2943	AVT-2944	3/16"
—	AVT-2947	AVT-2948	1/4"

5 PC Brush Set

- Includes 5 brushes & plastic carrying case (not shown).
- 1/2" body diameter.

Part Number	Wire Diameter	Pilot Sizes Included
AVT-2949	0.005"	3/32", 1/8", 5/32", 3/16" & 1/4"



AVT-2949

MATERIAL REMOVAL TOOLS

AVITORQ Rivet Shaver Kit

Updated Design



Kit Includes:

AVT-1824 Rivet Shaver (see below), Five Cutters (5/16", 3/8", 7/16", 1/2" & 9/16"), Five Skirts (5/16", 3/8", 7/16", 1/2" & 9/16"), Removable Cutter Box & Foam Fitted Case

Part Number	Description
AVT-2951	Complete 13 PC Kit

AVITORQ Rivet Shaver

1/2" Skirt Included



Updated Design

- New, more ergonomic handle.
- Includes skirt & stabilizer.

Note: 1/4" NPT.

Pistol Grip 1.0 hp (0.75 kW) - 16,000 RPM				
Part Number	Cutter Capacity	Depth Increments	Overall Length	Weight
AVT-1824	1/2"	0.001"	7-1/2" (191 mm)	2.9 lbs (1.3 kgs)

ATI® Pro Rivet Shaver Kit



Kit Includes:

ATI429SXC Rivet Shaver (1.0 hp - 20,000 RPM), Seven Cutters (5/16", 3/8", 7/16", 1/2", 9/16", 5/8" & 3/4"), Seven Skirts (5/16", 3/8", 7/16", 1/2", 9/16", 5/8" & 3/4") & Sturdy Fitted Toolbox

Part Number	Description
AVT-2950	Complete 16 PC Kit

Sioux® Rivet Shavers

Powerful 1 HP Motor

1/2" Skirt Included



AVT-2952

- Spring loaded removable stabilizer.
- Ergonomic handle for comfortable use.
- Includes skirt & stabilizer.

Note: 1/4" NPT. Available with other skirt sizes, please inq.

Pistol Grip 1.0 hp (0.75 kW) - 21,000 RPM				
Part Number	Cutter Cap.	Depth Incr.	Overall Length	Weight
AVT-2952	1/2"	0.0005"	8" (205 mm)	2.7 lbs (1.2 kgs)

Lever Grip 1.0 hp (0.75 kW) - 21,000 RPM				
Part Number	Cutter Cap.	Depth Incr.	Overall Length	Weight
AVT-2953	1/2"	0.0005"	10" (255 mm)	2.5 lbs (1.1 kgs)

Limited Access Rivet Shaver

- Extra Long 4" extension is ideal for limited access applications.
- Shaves clean & precise regardless of rivet height.
- Includes skirt & stabilizer.

Note: 1/4" NPT.

Pistol Grip 0.75 hp (0.56 kW) - 18,000 RPM				
Part Number	Cutter Capacity	Depth Increments	Overall Length	Weight
AVT-2954	1/2"	0.001"	10-3/4" (273 mm)	3.5 lbs (1.6 kgs)

9/16" Skirt Included



Made In The USA

APEX® Rivet Shavers

9/16" Skirt
Included



AVT-2964

- Ergonomic design, rear exhaust.
- Easily adjustable positive lock.
- Spring loaded nosepiece & stabilizer (skirt & stabilizer included).

Note: 1/4" NPT. Available with other skirt sizes, please inquire.

Small Handle Pistol Grip 0.4 hp (0.30 kW) - 29,000 RPM				
Part Number	Cutter Cap.	Depth Incr.	Overall Length	Weight
AVT-2964	1/2"	0.0005"	8-1/4" (210 mm)	2.2 lbs (1.0 kgs)
AVT-2966*	1/2"	0.00025"	8-1/4" (210 mm)	2.2 lbs (1.0 kgs)

*Model AVT-2966 does not include stabilizer.

Large Handle Pistol Grip 0.9 hp (0.67 kW) - 20,000 RPM				
Part Number	Cutter Cap.	Depth Incr.	Overall Length	Weight
AVT-2969	1/2"	0.0005"	8-7/8" (226 mm)	4.5 lbs (2.0 kgs)

APEX® Quad Weld & Rivet Shaver

AVT-2992



Four Tools
In One

- Versatile front exhaust unit can be used for weld shaving, POP & blind rivet bolt trimming, disc sanding or right angle grinding.
- Also accepts 1/4" shank sanding & grinding tools.

Note: 1/4" NPT. Includes collet & wrenches.

Lever Grip 0.3 hp (0.22 kW) - 12,000 RPM				
Part Number	Cutter Cap.	Depth Incr.	Overall Length	Weight
AVT-2992	3/4"	0.001"	6-3/8" (160 mm)	1.1 lbs (0.5 kgs)

Lever Grip 0.3 hp (0.22 kW) - 20,000 RPM				
Part Number	Cutter Cap.	Depth Incr.	Overall Length	Weight
AVT-2993	3/4"	0.001"	6-3/8" (160 mm)	1.1 lbs (0.5 kgs)

End Cut Replacement Cutters - 1/4" Shank, 1-7/8" O.A.L.				
Part Number	Type	Style	Used For	Dia.
AVT-2995	Carbide	Inverted Cone	Steel Rivets	3/4"
AVT-2996	H.S.S.	Inverted Cone	Aluminum Welds	3/4"
AVT-2997	Carbide	Cylindrical	Shaving Welds	1/2"

Rivet Shaver Carbide Cutters

Coarse Cut

Solid carbide blade.

AVT-1796
Coarse Cut



Fine Cut

Fourteen flute center cutting design with self-centering solid carbide head for increased control with no chatter.

AVT-2959
Fine Cut



Coarse Cut, 1/4"-28 Thread	
Part Number	Body Dia.
AVT-2955	5/16"
AVT-2957	3/8"
AVT-2960	7/16"
AVT-1796	1/2"
AVT-2961	9/16"
AVT-2962	5/8"
AVT-2963	3/4"
AVT-2965	7/8"
AVT-2967	1"
AVT-2968	1-1/4"

Fine Cut, 1/4"-28 Thread	
Part Number	Body Dia.
AVT-2956	5/16"
AVT-2958	3/8"
AVT-2959	1/2"

Precision Ground
For Chatter-Free
Cuts & Longer Life

Rivet Shaver Skirts

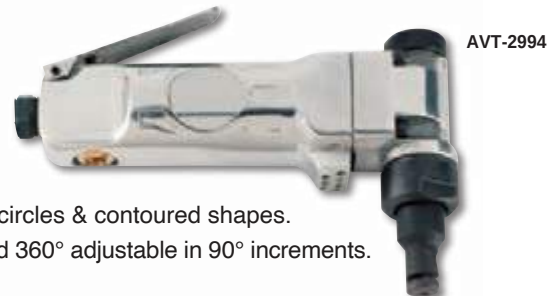


Highly Polished
Working Surfaces
Prevent Marring

APEX	Sioux	AVITORQ	Body Dia.
AVT-2970	AVT-2971	AVT-2972	5/16"
AVT-2973	AVT-2974	AVT-2975	3/8"
AVT-2976	AVT-2977	AVT-2978	7/16"
AVT-2979	AVT-2980	AVT-2981	1/2"
AVT-2982	AVT-2983	AVT-2984	9/16"
AVT-2985	AVT-2986	AVT-2987	5/8"
AVT-2988	—	AVT-2989	3/4"
AVT-2990	—	—	1"
AVT-2991	—	—	1-1/4"

Economy Pneumatic Nibbler

Clean,
Distortion
Free Cuts



- Easily cuts circles & contoured shapes.
- Cutting head 360° adjustable in 90° increments.

Note: 1/4" NPT.

Lever Grip - 0.5 hp (0.37 kW) - 2600 SPM, 6 FPM			
Part Number	Cap. (steel)	Overall Length	Weight
AVT-2994	18 Gauge	7" (178 mm)	2.2 lbs (1.0 kgs)

Replacement Punch & Dies	
Part Number Punch	Part Number Die
AVT-2998	AVT-2999

MATERIAL REMOVAL TOOLS

Sioux® Pneumatic Nibbler



- Safety lever lock.
- Rear exhaust.

Note: 1/4" NPT.

Lever Grip - 1.0 hp (0.75 kW)			
Part Number	Cap. (steel)	Overall Length	Weight
AVT-3000	18 Gauge	8-1/2" (215 mm)	2.65 lbs (1.2 kgs)

EC® Reversible Trim Shears

- Reversible motor allows for versatile shearing & makes it easy to back out of jams.
- Designed to cut steel, stainless steel, titanium, inconel & similar metals.

Quick & Powerful



Lever Grip Trim Shears				
Part Number	Capacity (steel)	Throat Capacity	Approx. Feed Rate	Weight
AVT-3003	13 Gauge	1-1/4"	8 ft.-min.	4.5 lbs (2.0 kgs)
AVT-3004	14 Gauge	2-1/4"	8 ft.-min.	5.5 lbs (2.5 kgs)

Pistol Grip Trim Shears				
Part Number	Capacity (steel)	Throat Capacity	Approx. Feed Rate	Weight
AVT-3005	13 Gauge	1-1/4"	8 ft.-min.	5 lbs (2.3 kgs)
AVT-3006	14 Gauge	2-1/4"	8 ft.-min.	5.5 lbs (2.5 kgs)
AVT-3008	10 Gauge	2-1/2"	3.5 ft.-min.	12.5 lbs (5.7 kgs)
AVT-3009	.080" Inconel	2"	3.5 ft.-min.	19 lbs (8.6 kgs)

Replacement Feed Cutters	
Part Number	For Tool
AVT-3010	AVT-3003 to AVT-3006
AVT-3012	AVT-3008
AVT-3014	AVT-3009

Replacement Roll Cutters	
Part Number	For Tool
AVT-3011	AVT-3003 & AVT-3005
AVT-3013	AVT-3004 & AVT-3006
AVT-3015	AVT-3008
AVT-3016	AVT-3009

Sioux® Pneumatic Shears



Excellent for sheet metal work - also plastic & similar mat. to 3/32".

Note: 1/4" NPT.

Pistol Grip 1.0 hp (0.75 kW)				
Part No.	Cap. (steel)	SPM	O.A.L.	Weight
AVT-3001	18 Gauge	2,600	10" (255 mm)	2.9 lbs (1.3 kgs)

Lever Grip 1.0 hp (0.75 kW)				
Part No.	Cap. (steel)	SPM	O.A.L.	Weight
AVT-3002	18 Gauge	2,600	11" (280 mm)	2.75 lbs (1.25 kgs)

Dewalt® 20V MAX Cordless Power Shear Kit



- Head swivels 360° for great control & access to tight quarters.
- Cuts 7/32" strip that curls away for consistent & accurate cuts.

Kit Includes:

Cordless Swivel Head Shears, Battery Charger, Two 20V MAX Battery Packs, Blade Wrench & Contractor Bag

Part Number	Cap. (steel)	Min. Radius	SPM	Tool Weight
AVT-3007	18 Gauge	5-1/2"	0 to 2300	3.9 lbs (1.8 kgs)



Kett® Heavy-Duty Pneumatic Scissor

Powerful & Easily Maneuverable



Variable Speed

- Specially designed for fast, accurate cutting of mild steel (to 24 gauge), wire mesh (to 18 gauge), soft plastic or rubber (to 1/4"), rigid PVC & other plastics (to 1/8").
- Unique swiping action leaves a clean edge without fouling.

Note: Replacement blades available, please inquire.

Part No.	Cap. (steel)	RPM	Overall Length	Weight
AVT-3017	24 Gauge	0-2500	11-3/4" (299 mm)	5.0 lbs (2.3 kgs)

Utility Cut-Off Tool

Cuts Metal Up To 3/4" Thick



Aluminum Housing

- 360° rotating spark guard & safety lock throttle.
- Built-in speed regulator & ball bearing construction.

AVT-1825

Note: 1/4" NPT. Includes 3" cutting wheel.

0.5 hp (0.37 kW), 3/8" Arbor			
Part Number	Free RPM	O.A.L.	Weight
AVT-1825	20,000	7-5/16" (186 mm)	2.0 lbs (0.9 kgs)

Replacement Cutting Discs

- Small Type 1, double reinforced resinoid cut-off discs.
- Super thin (.035"), provides a clean, fine-finished burr free cut.

AVT-3023



1/4" Arbor Disc	3/8" Arbor Disc	Diameter	Max. RPM
—	AVT-3022	2"	30,000
AVT-3023	AVT-3024	3"	25,000
AVT-3026	AVT-3027	4"	19,000



AVT-3029

AVT-3030

AVT-1889

1/4" Shank Cutting Disc Mandrels

AVT-1889 includes the 1/4" shank mandrel and both 1/4" and 3/8" arbor endpieces (for use with 1/4" and 3/8" arbor discs).

Mandrel & 1/4" Arbor	Mandrel & 3/8" Arbor	Mandrel & Both Arbors
AVT-3029	AVT-3030	AVT-1889

Tab Shear



Regrindable Tool Steel Blades

For Precision Shearing Of Router Tabs

- Full length bosses with bolts & self-locking nuts.
- Hard anodized aluminum frame with carbide wear faces.

Note: 1/4" NPT. Replacement blades available, please inquire.

Part Number	Capacity (steel, alum.)	Max. Throat Opening	Shearing Force	Weight
AVT-3018	1/16", 3/32"	1/8" x 3" (area)	4,200 lbs (1,905 kgs)	7.0 lbs (3.2 kgs)

APEX® Straight Routers

AVT-3019



Note: 1/4" NPT. Includes collet & wrenches. Router guide not included, see next page.

Front Exhaust 0.3 hp (.22 kW)				
Part Number	Free RPM	Shank Cap.	O.A.L.	Weight
AVT-3019	34,000	1/4"	6-3/4"	1.4 lbs (0.6 kgs)
AVT-3020	30,000	1/4"	(172 mm)	

Front Exhaust 0.6 hp (.45 kW)				
Part Number	Free RPM	Shank Cap.	O.A.L.	Weight
AVT-3021	25,000	1/4"	7-1/2"	2.0 lbs (0.9 kgs)
			(191 mm)	

Rear Exhaust 0.6 hp (.45 kW)				
Part Number	Free RPM	Shank Cap.	O.A.L.	Weight
AVT-3025	25,000	1/4"	7-1/2"	2.0 lbs (0.9 kgs)
			(191 mm)	

Front Exhaust 0.9 hp (.67 kW)				
Part Number	Free RPM	Shank Cap.	O.A.L.	Weight
AVT-1885	23,000	1/4"	7-1/8"	2.6 lbs (1.2 kgs)
			(181 mm)	

Rear Exhaust 0.9 hp (.67 kW)				
Part Number	Free RPM	Shank Cap.	O.A.L.	Weight
AVT-3028	23,000	1/4"	7-1/8"	2.6 lbs (1.2 kgs)
AVT-3031	23,000	3/8"	(181 mm)	

MATERIAL REMOVAL TOOLS

APEX® High Power Straight Router

AVT-3032



Note: 1/2" NPT. Includes collet & wrenches. Router guide not included, see on right.

Front Exhaust 1.7 hp (1.27 kW)				
Part Number	Free RPM	Shank Cap.	O.A.L.	Weight
AVT-3032	18,000	1/4"	11-3/8" (289 mm)	4.2 lbs (1.9 kgs)

APEX® High Power Routers w/Base Mount



AVT-3057

Note: 1/2" NPT. Includes collet and wrenches.

Rear Exhaust 1.7 hp (1.27 kW) With Base Mount				
Part Number	Free RPM	Shank Cap.	O.A.L.	Weight
AVT-3057	18,000	1/2"	7-1/8" (181 mm)	7.5 lbs (3.4 kgs)
AVT-3058	16,000			
AVT-3059	9000			

Rear Exhaust 1.7 hp (1.27 kW) Power Unit Only				
Part Number	Free RPM	Shank Cap.	O.A.L.	Weight
AVT-3060	18,000	1/2"	7-1/8" (181 mm)	5.5 lbs (2.5 kgs)

APEX® Two Handed Router Base

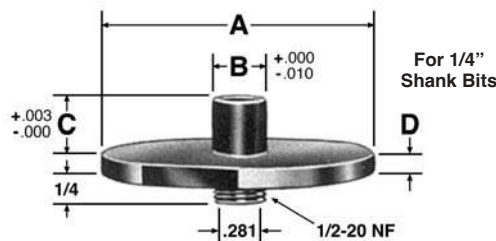
Easy Depth
Adjustment



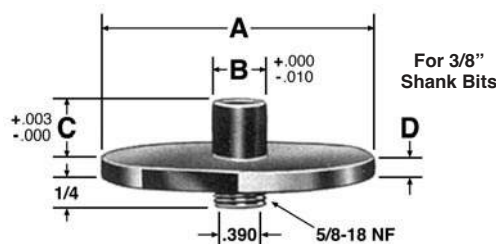
- For use with either front or rear exhaust models on previous page.
- Can also be used with 10-43 template guides, please inquire.

Part Number	For Series
AVT-3075	12-10
AVT-1891	12-20 & 12-25

APEX® Router Guides



For 1/4" Shank Bits				
Part No.	'A'	'B'	'C'	'D'
AVT-3033	3/4"	3/8"	1/2"	1/8"
AVT-3034	1"	3/8"	1/8"	1/8"
AVT-3035	1"	3/8"	1/4"	1/8"
AVT-3036	1"	3/8"	3/8"	1/8"
AVT-3037	1"	7/16"	1/8"	1/8"
AVT-3038	1"	7/16"	1/4"	1/8"
AVT-3039	1"	7/16"	3/8"	1/8"
AVT-3040	1"	1/2"	1/4"	1/8"
AVT-3041	1"	1/2"	1/2"	1/8"
AVT-3042	1"	1/2"	5/8"	1/8"
AVT-3043	1"	1/2"	3/4"	1/8"
AVT-3044	1"	9/16"	1/8"	1/8"
AVT-3045	1"	5/8"	1/8"	1/8"
AVT-3046	1"	5/8"	5/8"	1/8"
AVT-3047	1-1/2"	3/8"	1/8"	1/8"
AVT-3048	1-1/2"	3/8"	1/4"	1/8"
AVT-3049	1-1/2"	3/8"	3/8"	1/8"
AVT-3050	1-1/2"	7/16"	1/8"	1/8"
AVT-3051	1-1/2"	7/16"	1/4"	1/8"
AVT-3052	1-1/2"	7/16"	3/8"	1/8"
AVT-3053	1-1/2"	1/2"	1/4"	1/8"
AVT-3054	1-1/2"	1/2"	3/8"	1/8"
AVT-3055	1-1/2"	1/2"	1/2"	1/8"
AVT-3056	2-1/2"	1/2"	1/2"	3/16"



For 3/8" Shank Bits				
Part No.	'A'	'B'	'C'	'D'
AVT-3061	1-1/2"	1/2"	3/8"	1/8"
AVT-3062	1-1/2"	1/2"	1/2"	1/8"
AVT-3063	1-1/2"	1/2"	5/8"	1/8"
AVT-3064	1-1/2"	9/16"	3/8"	1/8"
AVT-3065	1-1/2"	9/16"	5/8"	1/8"
AVT-3066	1-1/2"	5/8"	3/8"	1/8"
AVT-3067	1-1/2"	5/8"	1/2"	1/8"
AVT-3068	1-1/2"	5/8"	5/8"	1/8"
AVT-3069	2-1/2"	1/2"	3/8"	1/8"
AVT-3070	2-1/2"	1/2"	1/2"	1/8"
AVT-3071	2-1/2"	1/2"	5/8"	1/8"
AVT-3072	2-1/2"	9/16"	3/8"	1/8"
AVT-3073	2-1/2"	9/16"	1/2"	1/8"
AVT-3074	2-1/2"	5/8"	3/8"	1/8"
AVT-3076	2-1/2"	5/8"	1/2"	1/8"
AVT-3077	2-1/2"	5/8"	5/8"	1/8"

APEX® Router Assemblies



- All assembly components available separately, please inquire.
- For use with APEX straight routers shown on page 97.

For 12-10 Series Type Routers

Part Number	Thread Size	Cutter Shank Dia.
AVT-3081	1/4"-20	1/4"

For 12-20 & 12-25 Series Type Routers

Part Number	Thread Size	Cutter Shank Dia.
AVT-3082	1/4"-20	1/4"
AVT-3083	5/8"-18	3/8"

H.S.S. Taper Router Bits



For clearance cutting or routing & trimming of aircraft assemblies.

Part Number	Size	Point Dia.	Shank Dia.
AVT-3087	1	.081"	.098"
AVT-3088	2	.110"	.128"
AVT-3089	3	.165"	.1875"
AVT-3090	4	.224"	.250"



Taper Router Kit:

Four Routers (one each above) & Plastic Case (not shown)

Part Number	Description
AVT-3097	Complete 5 PC Kit

H.S.S. Aircraft Router Bit



For routing and trimming aluminum, non-abrasive plastics and similar materials

2 Downcut Flutes with Drill Point, Left Hand Helix, Right Hand Cut		
Part Number	Shank Diameter	Overall Length
AVT-3101	1/4"	2-3/8" (60 mm)

Solid Carbide Router Bits



For edge routing when the end is not in contact with the work piece.

Diamond Pattern, Right Hand Cut, No End Cut

Part Number	Shank Diameter	Overall Length
AVT-3078	3/16"	2" (51 mm)
AVT-1863	1/4"	2-1/2" (64 mm)
AVT-3079	3/8"	2-1/2" (64 mm)
AVT-3080	1/2"	3" (76 mm)



- Drill point plunges through the work piece before routing begins.
- Designed to produce an even edge & leave burr-free surfaces.

Diamond Pattern, 135° Drill Point End

Part Number	Shank Diameter	Overall Length
AVT-3084	3/16"	2" (51 mm)
AVT-1865	1/4"	2-1/2" (64 mm)
AVT-3085	3/8"	2-1/2" (64 mm)
AVT-3086	1/2"	3" (76 mm)



For bottom cuts requiring a smooth surface & square corners.

Diamond Pattern, End Mill End Cut

Part Number	Shank Diameter	Overall Length
AVT-3091	3/16"	2" (51 mm)
AVT-1867	1/4"	2-1/2" (64 mm)
AVT-3092	3/8"	2-1/2" (64 mm)
AVT-3093	1/2"	3" (76 mm)



Diamond Pattern, Burr Style End Cut

Part Number	Shank Diameter	Overall Length
AVT-3094	3/16"	2" (51 mm)
AVT-3095	1/4"	2-1/2" (64 mm)
AVT-3096	3/8"	2-1/2" (64 mm)
AVT-3098	1/2"	3" (76 mm)



2 Flute Pattern, Left Hand Spiral, Right Hand Cut, No End Cut

Part Number	Shank Diameter	Overall Length
AVT-3099	3/16"	2" (51 mm)
AVT-1861	1/4"	2-1/2" (64 mm)
AVT-3100	3/8"	2-1/2" (64 mm)
AVT-3102	1/2"	3" (76 mm)

AVT-3103 Lightweight CherryMAX® Power Riveter



The AVT-3103 is a pneumatic-hydraulic tool designed specifically for installation of CherryMAX and nut plate rivets. Its durable, all metal housing makes this tool ideal for use in rugged shop environments.

This tool utilizes straight, offset and right angle pulling heads, all of which can install -4, -5 and -6 diameter CherryMAX bulb type rivets in all head styles, materials and grip lengths.

- 10° angled head allows user to work using a natural hand position.
- Comfortable grip for one handed operation in any position.
- Same weight as the AVT-3163, with the power of much larger tools.

Specifications

Air Pressure 90 PSI (6.2 bar) min./110 PSI (7.6 bar) max.

Cycle Time approximately one second

Noise Level 71 dB (A)

Vibration less than 2.5 m/s²

Air Consumption .09 SCFM / cycle (2.55 L / cycle)

AVT-3103 Power Riveter

Part Number	Stroke	Pulling Force	Weight
AVT-3103	.437"	2100 lbf (9.34 kN)	3.5 lbs (1.6 kgs)

AVT-3103 Routine Maintenance Kit for more info)

Part Number	Includes
AVT-3104	All Required Seals, 'O' Rings, Gaskets & Hardware

AVT-3103 Pulling Heads

- Pulling heads not included with riveter, please order from chart below.
- Interchangeable nosepiece pulling heads also available on page 113.
- For full specifications on pulling heads below please see pages 114-115.
- Extensions are available for extending the pulling heads to reach limited access areas, see page 116.

AVT-3103 Pulling Heads

Part Number	Head Style	Required Adapter	Rivet Type	Rivet Diameters	Max. Grip
AVT-3105	Straight	—	CherryMAX	1/8", 5/32", 3/16" **	All
			CherryMAX 'AB'	1/8", 5/32", 3/16" †	-4*
			SST	1/8", 5/32", 3/16" **	All
AVT-3106	Straight	—	Nut Plate	3/32"	-4*
AVT-3107	Right Angle	—	CherryMAX	1/8", 5/32", 3/16" **	All
			CherryMAX 'AB'	1/8", 5/32", 3/16" †	-4
			SST	1/8", 5/32", 3/16" **	All
AVT-3108 AVT-3109	Offset	—	CherryMAX	1/8", 5/32", 3/16" **	All
			CherryMAX 'AB'	1/8", 5/32", 3/16" †	-4*
			SST	1/8", 5/32", 3/16" **	All
AVT-3110	Straight	AVT-3319	MS / Nut Plate††	3/32"	-4*
AVT-3111	Straight	AVT-3319	MS / Nut Plate††	1/8"	-4*
AVT-3112	Straight	AVT-3319	MS / Nut Plate††	5/32"	-4*
AVT-3113	Straight	AVT-3319	MS / Nut Plate††	3/16"	-4*
AVT-3114	Straight	—	CherryLOCK 'A' ***	3/32"	-4*
AVT-3115	Straight	—	CherryLOCK 'A' ***	1/8"	-4*
AVT-3116	Straight	—	CherryLOCK 'A' ***	5/32"	-4*
AVT-3117	Straight	—	CherryLOCK 'A' ***	3/16"	-4*
AVT-3118	Straight	—	Std. MBC	1/8"	-4*
AVT-3120	Straight	—	Std. MBC	5/32"	-4*
AVT-3121	Straight	—	Std. MBC	3/16"	-4*

*May be double stroked for longer grips. **Nominal and oversize.

***When installing CherryLOCK 'A' rivets, the proper diameter pulling head must be used.

†Will not install 3/16" diameter aluminum (stainless steel & monel only). ††Serrated stems only.

‡See page 113 for more information on AVT-3109 pulling head and interchangeable nosepieces.

AVT-3103 Power Riveter Kit



AVT-3103 Power Riveter Kit

Part Number	Installs
AVT-3119	NAS 9301 to 9312 (1/8" to 3/16"), MS90353/4, MS21140/1, TAF 'S' Type (1/8" & 5/32") & MS20604/5 (3/32")

Pulling Heads Included: AVT-3105 (Straight), AVT-3108 (Offset), AVT-3107 (Right Angle) & AVT-3106 (3/32" Nut Plate) **Accessories Included:** 700A77 Bleeder Bottle, AVT-3312 Grip Selector Gauge, 670A20 Stem Catcher Bag, P1393 Molded Plastic Case & All Necessary Manuals

AVT-3122 CherryMAX® Power Riveter



AVT-3122

The AVT-3122 is a pneumatic-hydraulic tool designed specifically for installation of CherryMAX Bulb, CherryMAX 'AB' wiredraw and CherryLOCK 'A' wiredraw rivets. Its durable, all metal housing makes this tool ideal for use in rugged shop environments.

This tool utilizes straight, offset and right angle pulling heads.

Comfortable grip for one handed operation in any position.

Specifications

Air Pressure 90 PSI (6.2 bar) min./110 PSI (7.6 bar) max.

Cycle Time approximately one second

Noise Level 72 dB (A)

Vibration less than 2.5 m/s²

Air Consumption .25 SCFM / cycle (7.08 L / cycle)

AVT-3122 Power Riveter			
Part Number	Stroke	Pulling Force	Weight
AVT-3122	.875"	1850 lbf (8.23 kN)	4.25 lbs (1.9 kgs)

AVT-3122 Routine Maintenance Kit (see page 117 for more info)	
Part Number	Includes
AVT-3123	All Required Seals, 'O' Rings, Gaskets & Hardware

AVT-3122 Pulling Heads

- Pulling heads not included with riveter, please order from chart below.
- Interchangeable nosepiece pulling heads also available on page 113.
- For full specifications on pulling heads below please see pages 114-115.
- Extensions are available for extending the pulling heads to reach limited access areas, see page 116.

AVT-3122 Pulling Heads					
Part Number	Head Style	Required Adapter	Rivet Type	Rivet Diameters	Max. Grip
AVT-3105	Straight	—	CherryMAX	1/8", 5/32", 3/16" ** ††	All
			CherryMAX 'AB'	1/8", 5/32", 3/16" ***	-9*
			MBC L/C	1/8", 5/32", 3/16"	-9*
			SST	1/8", 5/32", 3/16" **	All
AVT-3107	Right Angle	—	CherryMAX	1/8", 5/32", 3/16" ** ††	All
			CherryMAX 'AB'	1/8", 5/32", 3/16" ***	-4
			SST	1/8", 5/32", 3/16" **	All
AVT-3108 AVT-3109	Offset	—	CherryMAX	1/8", 5/32", 3/16" ** ††	All
			CherryMAX 'AB'	1/8", 5/32", 3/16" ***	-4*
			SST	1/8", 5/32", 3/16" **	All
AVT-3110	Straight	AVT-3319	MS††	3/32"	All
AVT-3111	Straight	AVT-3319	MS††	1/8"	All
AVT-3112	Straight	AVT-3319	MS††	5/32"	All
AVT-3113	Straight	AVT-3319	MS††	3/16"	All
AVT-3114	Straight	—	CherryLOCK 'A'	3/32"	-9*
AVT-3115	Straight	—	CherryLOCK 'A'	1/8"	-9*
AVT-3116	Straight	—	CherryLOCK 'A'	5/32"	-9*
AVT-3117	Straight	—	CherryLOCK 'A'	3/16"	-9*
AVT-3118	Straight	—	Std. MBC	1/8"	All
AVT-3120	Straight	—	Std. MBC	5/32"	All
AVT-3121	Straight	—	Std. MBC	3/16"	All

*May be double stroked for longer grips.

**Nominal and oversize.

***When installing CherryLOCK 'A' rivets, the proper diameter pulling head must be used.

††Serrated stems only. †††Will not install 3/16" diameter Inconel 600 rivets.

†See page 113 for more information on AVT-3109 pulling head and interchangeable nosepieces.

AVT-3122 Power Riveter Kits



AVT-3125

AVT-3122 CherryMAX Kit	
Part Number	Installs
AVT-3124	-4, -5, -6 CherryMAX*

Pulling Heads Included: AVT-3105, AVT-3108 & H735A-456 **Accessories Incl.:** 700A77 Bleeder Bottle, AVT-3312 Grip Selector Gauge, 670A20 Stem Catcher Bag, P1393 Molded Plastic Case & All Necessary Manuals

*Except 3/16" inconel and oversize.

AVT-3122 CherryLOCK Kit	
Part Number	Installs
AVT-3125	SST & -3, -4, -5, -6 CherryLOCK "A"

Pulling Heads Included: AVT-3114, AVT-3115, AVT-3116 & AVT-3117 **Accessories Included:** 700A77 Bleeder Bottle, AVT-3312 Grip Selector Gauge, 670A20 Stem Catcher Bag, P1393 Molded Plastic Case & All Necessary Manuals

AVT-3126 CherryMAX® Power Riveter



AVT-3126

The AVT-3126 is a pneumatic-hydraulic tool designed specifically for installation of CherryMAX and nut plate rivets. Its durable, all metal housing makes this tool ideal for use in rugged shop environments.

This tool utilizes straight, offset and right angle pulling heads, all of which can install -4, -5 and -6 diameter CherryMAX bulb type rivets in all head styles, materials and grip lengths.

Comfortable grip for one handed operation in any position.

Specifications

Air Pressure 90 PSI (6.2 bar) min./110 PSI (7.6 bar) max.

Cycle Time approximately one second

Noise Level 71 dB (A)

Vibration less than 2.5 m/s2

Air Consumption .16 SCFM / cycle (4.53 L / cycle)

AVT-3126 Power Riveter			
Part Number	Stroke	Pulling Force	Weight
AVT-3126	.510"	3100 lbf (13.79 kN)	4.25 lbs (1.9 kgs)

AVT-3126 Routine Maintenance Kit (for more info)	
Part Number	Includes
AVT-3127	All Required Seals, 'O' Rings, Gaskets & Hardware

AVT-3126 Pulling Heads

- Pulling heads not included with riveter, please order from chart below.
- Interchangeable nosepiece pulling heads also available on page 113.
- For full specifications on pulling heads below please see pages 114-115.
- Extensions are available for extending the pulling heads to reach limited access areas, see page 116.

AVT-3126 Pulling Heads					
Part Number	Head Style	Required Adapter	Rivet Type	Rivet Diameters	Max. Grip
AVT-3105	Straight	—	CherryMAX	1/8", 5/32", 3/16" **	All
			CherryMAX 'AB'	1/8", 5/32", 3/16" †	-4*
			MBC L/C	1/8", 5/32", 3/16"	-4*
			SST	1/8", 5/32", 3/16" **	All
AVT-3107	Right Angle	—	CherryMAX	1/8", 5/32", 3/16" **	All
			CherryMAX 'AB'	1/8", 5/32", 3/16" †	-4
			SST	1/8", 5/32", 3/16" **	All
			SST	1/8", 5/32", 3/16" **	All
AVT-3108 AVT-3109	Offset	—	CherryMAX	1/8", 5/32", 3/16" **	All
			CherryMAX 'AB'	1/8", 5/32", 3/16" †	-4*
			SST	1/8", 5/32", 3/16" **	All
			SST	1/8", 5/32", 3/16" **	All
AVT-3110	Straight	AVT-3319	MS††	3/32"	-4*
AVT-3111	Straight	AVT-3319	MS††	1/8"	-4*
AVT-3112	Straight	AVT-3319	MS††	5/32"	-4*
AVT-3113	Straight	AVT-3319	MS††	3/16"	-4*
AVT-3114	Straight	—	CherryLOCK 'A'	3/32" †	-4*
AVT-3115	Straight	—	CherryLOCK 'A'	1/8" †	-4*
AVT-3116	Straight	—	CherryLOCK 'A'	5/32" †	-4*
AVT-3117	Straight	—	CherryLOCK 'A'	3/16" †	-4*
AVT-3128	Straight	—	Std. MBC	1/8"	-4*
AVT-3130	Straight	—	Std. MBC	5/32"	-4*
AVT-3131	Straight	—	Std. MBC	3/16"	-4*

*May be double stroked for longer grips. **Nominal and oversize.

†Will not install 3/16" diameter aluminum (stainless steel & monel only). ††Serrated stems only.

‡See page 113 for more information on AVT-3109 pulling head and interchangeable nosepieces.

AVT-3126 Power Riveter Kit



AVT-3126 CherryMAX Kit	
Part Number	Installs
AVT-3129	-4, -5, -6 CherryMAX

Pulling Heads Included: AVT-3105, AVT-3108 & H735A-456

Accessories Included: 700A77 Bleeder Bottle, AVT-3312 Grip Selector Gauge, 670A20 Stem Catcher Bag, P1393 Molded Plastic Case & All Necessary Manuals

AVT-3132 & AVT-3133 CherryMAX® Split Power Riveters



Perfect For Limited Access Areas



The CherryMAX AVT-3132 & AVT-3133 split power riveters were designed specifically for the installation of CherryMAX rivets in applications with extremely limited access.

The tool transmits power from the power unit through a flexible hose to a small, lightweight head. By utilizing the proper pulling head, design problems and operator fatigue can be greatly reduced.

The SR model is equipped with a three foot hose and the 40SH model is equipped with an eight foot hose.

AVT-3132 & AVT-3133 Pulling Heads

- Pulling heads not incl. with riveter, please order from chart below.
- Interchangeable nosepiece pulling heads also avail. on page 113.
- For full specs on pulling heads below please see pages 114-115.
- Extensions are available for extending the pulling heads to reach limited access areas, see page 116.

AVT-3132 & AVT-3133 Pulling Heads				
Part Number	Head Style	Rivet Type	Rivet Diameters	Max. Grip
AVT-3105	Straight	CherryMAX	1/8", 5/32", 3/16" **	All
		CherryMAX 'AB'	1/8", 5/32", 3/16" †	-4*
		MBC L/C	1/8", 5/32", 3/16"	-4*
		SST	1/8", 5/32", 3/16" **	All
AVT-3107	Right Angle	CherryMAX	1/8", 5/32", 3/16" **	All
		CherryMAX 'AB'	1/8", 5/32", 3/16" †	-4
		SST	1/8", 5/32", 3/16" **	All
AVT-3108	Offset	CherryMAX	1/8", 5/32", 3/16" **	All
		CherryMAX 'AB'	1/8", 5/32", 3/16" †	-4*
		SST	1/8", 5/32", 3/16" **	All

Specifications

Air Pressure 90 PSI (6.2 bar) min./110 PSI (7.6 bar) max.

Noise Level does not exceed 85 dB (A)

Air Consumption 4 CFM @ 20 cycles per minute

AVT-3132 & AVT-3133 Split Power Riveters				
Part Number	Hose Length	Stroke	Pulling Force	Weight
AVT-3132	3' (91.5 cm)	.518"	3136 lbf (13.9 kN)	4.5 lbs (2.0 kgs) (power unit only)
AVT-3133	10' (305 cm)			

G704B-__ Routine Maintenance Kits (see page 117 for more info)		
Part Number	For Tool	Includes
AVT-3127	AVT-3132	All Req'd Seals, 'O' Rings, Gaskets & Hardware
AVT-3134	AVT-3133	

AVT-3132 & AVT-3133 Pulling Heads					
Part Number	Head Style	Required Adapter	Rivet Type	Rivet Diameters	Max. Grip
AVT-3110	Straight	AVT-3319	MS††	3/32"	-4*
AVT-3111	Straight	AVT-3319	MS††	1/8"	-4*
AVT-3112	Straight	AVT-3319	MS††	5/32"	-4*
AVT-3113	Straight	AVT-3319	MS††	3/16"	-4*
AVT-3114	Straight	—	CherryLOCK 'A'	3/32" †	-4*
AVT-3115	Straight	—	CherryLOCK 'A'	1/8" †	-4*
AVT-3116	Straight	—	CherryLOCK 'A'	5/32" †	-4*
AVT-3117	Straight	—	CherryLOCK 'A'	3/16" †	-4*
AVT-3128	Straight	—	Std. MBC	1/8"	-4*
AVT-3130	Straight	—	Std. MBC	5/32"	-4*
AVT-3131	Straight	—	Std. MBC	3/16"	-4*

*May be double stroked for longer grips. **Nominal and oversize. †Will not install 3/16" diameter aluminum (stainless steel & monel only). ††Serrated stems only.

AVT-3135 Double Action CherryLOCK Power Riveter



The AVT-3135 is a heavy duty double action pneumatic-hydraulic riveter designed for installation of CherryLOCK® Wiredraw rivets.

This tool is equipped with a custom mounting system only compatible with double action pulling heads (H681), but with proper adapters it can be used with other front or side eject pulling heads.

Comfortable grip for one handed operation in any position.

Specifications

Air Pressure 90 PSI (6.2 bar) min./110 PSI (7.6 bar) max.

Noise Level 74.1 dB (A)

Vibration less than 2.5 m/s2

Air Consumption .50 SCFM / cycle (14.2 L / cycle)

AVT-3135 Power Riveter			
Part Number	Stroke	Pulling Force	Weight
AVT-3135	1.475"	3,800 lbf (16.9 kN)	12.85 lbs (5.9 kgs)

AVT-3135 Routine Maintenance Kit (For more info)	
Part Number	Includes
AVT-3136	All Required Seals, 'O' Rings, Gaskets & Hardware

AVT-3135 Pulling Heads

- Pulling heads not included with riveter, please order from charts below.
- For full specifications on pulling heads and adapters below please see pages 114-117.

AVT-3135 Pulling Heads For Standard Wiredraw CherryLOCK Rivets (NAS1398 & NAS1399)								
Rivet Material		Aluminum & Monel		Stainless Steel		—	Aluminum & Monel	Stainless Steel
Rivet Part Number		CR2163 CR2263 CR2563	CR2162 CR2262 CR2562	CR2643 CR2653 CR2663	CR2642 CR2652 CR2662	—	CR2164 CR2564	CR2644 CR2664
Pulling Head	Rivet Dia.	Universal Head	Flush Head	Universal Head	Flush Head	Pulling Head	Flush Head NAS1097	Flush Head NAS1097
AVT-3137	-3	—	—	All	All	—	—	—
AVT-3138	-4	All	All	All	All	AVT-3139	All	All
AVT-3140	-5	All	All	All	All	AVT-3141	All	All
AVT-3142	-6	All	All	All	All	AVT-3143	All	All
AVT-3144	-8	All	All	All	All	AVT-3145	All	All

AVT-3135 Pulling Heads For Bulb Type CherryLOCK Rivets (NAS1738 & NAS1399)			
Rivet Part Number		CR2249 CR2539 CR2839	CR2238 CR2248 CR2538 CR2838
Pulling Head	Rivet Dia.	Universal Head	Flush Head
AVT-3138	-4	All	All
AVT-3140	-5	All	All
AVT-3142	-6	All	All

Other AVT-3135 Pulling Heads					
Part Number	Head Style	Required Adapter	Rivet Type	Rivet Diameters	Max. Grip
AVT-3146	Straight	AVT-3315	MS	3/32", 1/8", 5/32" & 3/16"	All
AVT-3147	Straight	AVT-3315	CherryLOCK 'A'	3/32", 1/8", 5/32" & 3/16"	All
AVT-3150	Straight	AVT-3316	MS	3/32", 1/8", 5/32" & 3/16"	All
AVT-3108	Offset	AVT-3322	CherryMAX	1/8", 5/32" & 3/16"	All
AVT-3107	Right Angle	AVT-3322	CherryMAX	1/8", 5/32" & 3/16"	All
AVT-3155	Straight	—	CherryMAX	1/8", 5/32" & 3/16"	All
AVT-3156	Straight	—	CherryMAX	1/8", 5/32" & 3/16"	All

AVT-3135 Pulling Heads For Bulb Type CherryLOCK Rivets (NAS1738 & NAS1399)				
Rivet Part Number		CR2540 CR2840	—	CR2235 CR2245 CR2545 CR2845
Pulling Head	Rivet Dia.	156° Flush Head	Pulling Head	Unisink Head
AVT-3148	-4	All	AVT-3149	All
AVT-3151	-5	All	AVT-3152	All
AVT-3153	-6	All	AVT-3154	All

AVT-3157 Hydro-Shift CherryLOCK® Power Riveter



AVT-3157

The AVT-3157 is a pneumatic-hydraulic tool designed specifically for installation of CherryLOCK rivets. Its durable, all metal housing makes this tool ideal for use in rugged shop environments.

This tool will install nearly all diameters of CherryLOCK rivets up to a half-inch grip, 'A' group only.

With proper adapters & pulling heads this tool can be used to install other types of rivets, see charts below and page 117.

Comfortable grip for one handed operation in any position.

Specifications

Air Pressure 90 PSI (6.2 bar) min./110 PSI (7.6 bar) max.

Noise Level 69.7 dB (A)

Vibration less than 2.5 m/s2

Air Consumption .27 SCFM / cycle (7.65 L / cycle)

AVT-3157 Power Riveter

Part Number	Stroke	Pulling Force	Weight
AVT-3157	7/8"	2,600 lbf (11.57 kN)	8 lbs (3.6 kgs)

AVT-3157 Routine Maintenance Kit for more info)

Part Number	Includes
AVT-3158	All Required Seals, 'O' Rings, Gaskets & Hardware

AVT-3157 Pulling Heads

- Pulling heads not included with riveter, please order from charts below.
- For full specifications on pulling heads below please see page 114.

AVT-3157 Pulling Heads For Standard CherryLOCK Rivets (NAS1398 & 1399)

Rivet Part Number		CR2163 CR2263	CR2162 CR2164† CR2262	CR2563	CR2562 CR2564 †	CR2643 CR2653 CR2663	CR2642 CR2652 CR2662 CR2664† CR2644†
Pulling Head	Rivet Dia.	Aluminum Univ. Head	Aluminum Ctsk. Head	Monel Univ. Head	Monel Ctsk. Head	St. Steel Univ. Head	St. Steel Ctsk. Head
AVT-3137	-3	—	—	—	—	All	All
AVT-3138	-4	All	All	All	All	All	All
AVT-3140	-5	-8	-9	-8	-9	-8	-9
AVT-3142	-6	-8	-9	-8	-9	-8	-9
AVT-3144	-8	-8	-9	-8	-9	—	—

AVT-3157 Pulling Heads For Bulbed CherryLOCK Rivets (NAS1738 & 1739)

Rivet Part Number		CR2235* CR2239 CR2245* CR2249	CR2238 CR2248	CR2539 CR2545*	CR2538 CR2540*	CR2839 CR2845*	CR2838 CR2840**
Pulling Head	Rivet Dia.	Aluminum Univ. Head	Aluminum Ctsk. Head	Monel Univ. Head	Monel Ctsk. Head	Inconel Univ. Head	Inconel Ctsk. Head
AVT-3138	-4	All	All	All	All	All	All
AVT-3140	-5	All	All	All	All	All	All
AVT-3142	-6	All	All	All	All	All	All

Other AVT-3157 Pulling Heads***

Part Number	Head Style	Required Adapter	Rivet Type	Rivet Diameters	Max. Grip
AVT-3155	Straight	—	CherryMAX	1/8", 5/32", 3/16"	All
AVT-3156	Straight	—	CherryMAX	1/4"	All
AVT-3107	Right Angle	AVT-3322	CherryMAX	1/8", 5/32", 3/16"	All
AVT-3108	Offset	AVT-3322	CherryMAX	1/8", 5/32", 3/16"	All

†Use part no. H681-(-)S *Use part no. H681B166-(-) **Use part no. H681-(-)JF

***The AVT-3157 riveter will also accept pulling heads to install CherryLOCK 'A' rivets (AVT-3315 adapter required) and MS rivets (AVT-3315 or AVT-3316 adapter required), please see page 117.

AVT-3157 Power Riveter Kits



AVT-3159

AVT-3157 CherryLOCK Kit

Part Number	Installs
AVT-3159	1/8" to 3/16", NAS 1398/9 '-' Type & CherryLOCK

Pulling Heads Included: AVT-3138, AVT-3140 & AVT-3142

Accessories Included: 700A77 Bleeder Bottle, AVT-3312 Grip Selector Gauge, 680A159 Stroke Setting Gauge, P1395 Molded Plastic Case & All Necessary Manuals

AVT-3157 Basic Kit

Part Number	Installs
AVT-3160	No Pulling Heads Included

Accessories Included: 700A77 Bleeder Bottle, AVT-3312 Grip Selector Gauge, P1395 Molded Plastic Case & All Necessary Manuals

AVT-3163 Lightweight Nut Plate Power Riveter



AVT-3163

The AVT-3163 is a pneumatic-hydraulic tool designed specifically for installation of nut plate rivets. Its durable, all metal housing makes this tool ideal for use in rugged shop environments.

The AVT-3169 pulling head fits directly on the tool to install -3, -4, 2.5 mm & 3mm nut plate rivets.

- 10° angled head allows user to work using a natural hand position.
- Comfortable grip for one handed operation in any position.

Specifications

Air Pressure	90 PSI (6.2 bar) min./110 PSI (7.6 bar) max.
Cycle Time	approximately one second
Noise Level	71 dB (A)
Vibration	less than 2.5 m/s2
Air Consumption	.09 SCFM / cycle (2.55 L / cycle)

AVT-3163 Power Riveter			
Part Number	Stroke	Pulling Force	Weight
AVT-3163	3/4"	1,100 lbf (4.9 kN)	3.5 lbs (1.6 kgs)

AVT-3163 Routine Maintenance Kit (for more info)	
Part Number	Includes
AVT-3164	All Required Seals, 'O' Rings, Gaskets & Hardware

AVT-3163 Pulling Head & Inserts

- Pulling heads not incl. with riveter, please order from chart below.
- For full specs on pulling head below please see page 115.

AVT-3163 Pulling Head & Inserts					
Part Number	Head Style	Rivet Insert	Rivet Type	Rivet Diameters	Max. Grip
AVT-3169	Straight	AVT-3168*	Nut Plate	3/32", 2.5 mm	-12**
		AVT-3170*	Nut Plate	1/8", 3.0 mm	-12**
		AVT-3168	SPR	3/32"	All

*Included with pulling head. **On the first stroke.

AVT-3161 Lightweight Nut Plate Power Riveters



AVT-3161

AVT-3162

Durable All Metal Housing

Limited Access Extensions Available, Please Inquire

The AVT-3161 (feed through) & AVT-3162 (side eject) are all-pneumatic tools designed specifically for installation of nut plate rivets.

This tool utilizes straight pulling heads which can install 3/32" and 1/8" pull-through type nut plate rivets & 3/32" CherryLOCK 'A' rivets.

Specifications

Air Pressure	90 PSI (6.2 bar) min./120 PSI (8.2 bar) max.
Cycle Time	approximately one second
Noise Level	60 dB (A)
Vibration	less than 2.5 m/s2
Air Consumption	.05 SCFM / cycle (1.42 L / cycle)

AVT-3161 & AVT-3162 Power Riveters				
Part Number	Type	Stroke	Pulling Force*	Weight
AVT-3161	Feed-Through	3/4"	550 lbf (2.45 kN)	2 lbs (0.9 kgs)
AVT-3162	Side Eject			

*Force rated at 90 PSI. Pulling force at 120 PSI is 730 lbf (3.25 kN).

AVT-3161 & AVT-3162 Pulling Heads

- Pulling heads not incl. with riveter, please order from chart below.
- For full specs on pulling heads below please see pages 114-115.

AVT-3161 Pulling Heads			
Part Number	Rivet Type	Rivet Diameters	Maximum Grip
AVT-3165	Nut Plate	3/32", 2.5 & 3 mm	-8*
	SPR	3/32"	-8*
AVT-3166	CherryLOCK 'A'	3/32"	-8*
AVT-3167	Nut Plate	1/8"	-8*
AVT-3105			

AVT-3162 Pulling Heads			
Part Number	Rivet Type	Rivet Diameters	Max. Grip
AVT-3110	Nut Plate	3/32", 2.5 & 3 mm	-9*
	SPR	3/32"	-9*
AVT-3166	CherryLOCK 'A'	3/32"	-9*
AVT-3111	Nut Plate	1/8"	-9*

*On the first stroke.

AVT-3171 Lightweight Lockbolt Power Riveter



The AVT-3171 pneumatic-hydraulic tool is a heavy-duty production tool designed for high speed, reliable installation of the most popular sizes of aircraft Lockbolts. Its durable, all metal housing makes this tool ideal for use in rugged shop environments.

By bending the rubber pin deflector sideways, 1-1/2" additional clearance can be obtained. This tool can also be used to install blind bolts and blind rivets.

Comfortable grip for one handed operation in any position.

Specifications

Air Pressure 90 PSI (6.2 bar) min./110 PSI (7.6 bar) max.

Cycle Time approximately one second

Noise Level 78.4 dB (A)

Vibration less than 2.5 m/s²

Air Consumption .16 SCFM / cycle (4.53 L / cycle)

AVT-3171 Power Riveter			
Part Number	Stroke	Pulling Force*	Weight
AVT-3171	7/16"	3,750 lbf (16.7 kN)	4.95 lbs (2.3 kgs)

*800 lbf (3.56 kN) on return stroke.

AVT-3171 Routine Maintenance Kit (for more info)	
Part Number	Includes
AVT-3172	All Required Seals, 'O' Rings, Gaskets & Hardware

AVT-3171 Pulling Heads

- Pulling heads not included with riveter, please order from charts below.
- For full specifications on pulling heads below please see pages 114-116.

AVT-3171 Straight Lockbolt Pulling Heads*				
Basic Pulling Short Pintail	Swivel Nose	Self Releasing Swivel Nose	Self Releasing Swivel Nose, Chisel Shape	Lockbolt Diameter
AVT-3173	—	—	—	1/8"
AVT-3174	—	—	—	
AVT-3175	—	—	—	
—	AVT-3176	AVT-3177	AVT-3178	5/32"
AVT-3179	AVT-3180	AVT-3181	AVT-3182	
AVT-3183	—	—	—	
AVT-3184	AVT-3185	AVT-3186	AVT-3187	3/16"
—	AVT-3188	AVT-3189	AVT-3190	
AVT-3191	—	—	—	

*For .08 diameter, installs aluminum and titanium lockbolts only.

Note: The last component of the part number indicates attached length of the pulling gun. For example part number AVT-3173 indicates the pulling head extends 2.0" beyond the gun line. The straight Lockbolt chart on page 116 shows all installed lengths and additional sizes.

AVT-3171 Offset Lockbolt Pulling Heads		
Basic Pulling	Basic Pulling Short Pintail	Lockbolt Dia.
AVT-3193	AVT-3194	5/32"
AVT-3195	AVT-3196	3/16"

AVT-3171 Maxibolt Pulling Heads (S Type)		
Part Number	Head Style	Maxibolt Diameters
AVT-3198	Straight	5/32"
AVT-3199	Straight	3/16"
AVT-3201	Straight	5/32", 3/16"

AVT-3171 CherryMAX Pulling Heads**			
Part Number	Head Style	Required Adapter	Rivet Diameters
AVT-3105	Straight	AVT-3204	1/8", 5/32", 3/16"
AVT-3108	Offset		
AVT-3107	Right Angle		
AVT-3197	Straight	—	1/4"

**CherryMAX adapter and pulling heads allow user to install CherryMAX, CherryMAX 'AB' & SST rivets.

AVT-3171 & AVT-3205 Adapters	
Part Number	To Adapt To Tool Mounting System
AVT-3202	G85D & AVT-3225
AVT-3203	G744
AVT-3204	AVT-3126, AVT-3103 & AVT-3122

Note: For 'U' type blind bolts use 652-066 for -5 and 652-067 insert for -06.

AVT-3171 Power Riveter Kits



AVT-3171 Deluxe Installation Kit	
Part Number	Installs
AVT-3192	5/32" & 3/16" MS Blind Bolt & LockBOLT, 1/8", 5/32" & 3/16" CherryMAX

Pulling Heads Included: AVT-3105, AVT-3108, H735A-456, AVT-3198, AVT-3199, AVT-3176 & AVT-3185

Accessories Included: 700A77 Bleeder Bottle, AVT-3313 Grip Selector Gauge, AVT-3314 Grip Selector Gauge, 670A20 Stem Catcher Bag, P1393 Molded Plastic Case & All Necessary Manuals

AVT-3171 Installation Kit	
Part Number	Installs
AVT-3200	5/32" & 3/16" MS Blind Bolt & NAS Style LockBOLT

Pulling Heads Included: AVT-3198, AVT-3199, AVT-3176 & AVT-3185

Accessories Included: 700A77 Bleeder Bottle, AVT-3313 Grip Selector Gauge, AVT-3314 Grip Selector Gauge, P1393 Molded Plastic Case & All Necessary Manuals

AVT-3205 Lightweight Lockbolt Power Riveter



*Compatible With
Huck AVT-3363 & 2025
Pulling Heads*

The AVT-3205 pneumatic-hydraulic tool is a heavy-duty production tool designed for high speed, reliable installation of the most popular sizes of aircraft Lockbolts. Its durable, all metal housing makes this tool ideal for use in rugged shop environments.

This tool incorporates a bayonet attachment for quick change of pulling heads. This tool can also be used to install blind bolts and blind rivets.

Comfortable grip for one handed operation in any position.

Specifications

Air Pressure	90 PSI (6.2 bar) min./110 PSI (7.6 bar) max.
Cycle Time	approximately one second
Noise Level	80 dB (A)
Vibration	less than 2.5 m/s ²
Air Consumption	.29 SCFM / cycle (8.21L / cycle)

AVT-3205 Power Riveter			
Part Number	Stroke	Pulling Force*	Weight
AVT-3205	9/16"	5,750 lbf (25.6 kN)	7.7 lbs (3.5 kgs)

*1200 lbf (5.34 kN) on return stroke.

AVT-3205 Routine Maintenance Kit (For more info)	
Part Number	Includes
AVT-3206	All Required Seals, 'O' Rings, Gaskets & Hardware

AVT-3205 Pulling Heads

- Pulling heads not included with riveter, please order from chart below.
- For full specifications on pulling heads below please see pages 114-116.

AVT-3205 Pulling Heads					
Part Number	Head Style	Required Adapter	Rivet Type	Rivet Diameters	Max. Grip
AVT-3207*	Straight	—	Lockbolt	1/8", 5/32", 3/16", 1/4"	All
			Aluminum Lockbolt		
**	Straight	—	Titanium Lockbolt	1/8", 5/32", 3/16", 1/4"	All
AVT-3208	Offset	—	Lockbolt	1/8", 5/32", 3/16"	All
AVT-3209*	Offset	—	Lockbolt	3/16", 1/4"	All
AVT-3198	Straight	—	Maxibolt	5/32"	All
AVT-3199	Straight	—	Maxibolt	3/16"	All
AVT-3210***	Straight	—	Maxibolt	1/4"	All
AVT-3201	Straight	—	Maxibolt Plus	5/32", 3/16", 1/4"	All
AVT-3105	Straight	AVT-3204	CherryMAX	1/8", 5/32", 3/16" †	All
			CherryMAX 'AB'		
AVT-3197	Straight	—	CherryMAX	1/4"	All
AVT-3212	Straight	—	CherryLOCK 'A'	1/4"	All
			CherryMAX 'AB'		

*Use adapter AVT-3202 to accept pulling head design used on G85D, AVT-3225 and 353 style tools.

**Use of special pulling head required, please inquire.

***Use 652-106 'U' type nosepiece for 'U' type -8 diameter.

†Will not pull 3/16" aluminum CherryMAX 'AB' rivets; pulls 3/16 in monel and stainless steel only.

AVT-3171 & AVT-3205 Adapters	
Part Number	To Adapt To Tool Mounting System
AVT-3202	G85D & AVT-3225
AVT-3203	G744
AVT-3204	AVT-3126, AVT-3103 & AVT-3122

††Requires removal of bayonet mount.

AVT-3205 Power Riveter Kits



AVT-3205 Lockbolt Kit	
Part Number	Installs
AVT-3211	5/32", 3/16" & 1/4" NAS Style LockBOLT

Pulling Heads Included: AVT-3176*, AVT-3185* & AVT-3238*

Accessories Included: 700A77 Bleeder Bottle, AVT-3313 Grip Selector Gauge, 670A20 Stem Catcher Bag, P1395 Molded Plastic Case & All Necessary Manuals

*Small heads for use on AVT-3205, AVT-3171 & Huck 352.

AVT-3205 Maxibolt Kit	
Part Number	Installs
AVT-3213	5/32", 3/16" & 1/4" MS Blind Bolt

Pulling Heads Included: AVT-3198, AVT-3199 & AVT-3210

Accessories Included: 700A77 Bleeder Bottle, AVT-3314 Grip Selector Gauge, 670A20 Stem Catcher Bag, P1395 Molded Plastic Case & All Necessary Manuals

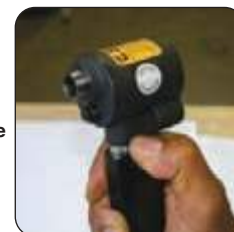
AVT-3214 Split Power Riveter



The AVT-3214 pneumatic-hydraulic installation tool is a heavy-duty production tool designed for high-speed, reliable installation of the most popular sizes of blind rivets, lockbolts and blind bolts. The base unit transmits its power through 10 feet of hose to a lightweight head cylinder. This facilitates fastener installation in many limited access areas and also reduces operator fatigue.

The trigger is incorporated in the head cylinder, providing comfortable, one-handed operation. Furthermore, the head cylinder can be configured for straight (inline) or pistol grip operation. The recoil absorbing design reduces shock transmitted to the user.

In combination with Cherry pulling heads and adapters, this tool installs all Lockbolt, blind bolts and blind rivets to 1/4" diameter, as well as Cherry rivetless nut plate in all sizes.



Specifications

Air Pressure 90 PSI (6.2 bar) min./110 PSI (7.6 bar) max.

Noise Level 66.5 dB (A)

Vibration 4.0 m/s²

Air Consumption .34 SCFM / cycle (9.63L / cycle)

AVT-3214 Split Power Installation Tool			
Part Number	Stroke	Pulling Force	Weight
AVT-3214	0.53"	5700 lbf (25.32 kN)	11.8 lbs (5.4 kgs)

AVT-3214 Routine Maintenance Kit (for more info)	
Part Number	Includes
AVT-3215	All Required Seals, 'O' Rings, Gaskets & Hardware

AVT-3214 Pulling Heads

- Pulling heads not included with riveter, please order from charts below.
- For full specifications on pulling heads below please see page 115.

AVT-3214 Pulling Heads			
Part Number	Head Style	Req. Adapter	Installs
AVT-3198	Straight	AVT-3223	MS90353S05xxW
			MS90354S05xxW
AVT-3217	Straight	AVT-3223	MS90353U05xx
			MS90354U05xx
AVT-3219	Right Angle	AVT-3221	MS21140S05xxW
			MS21140U05xx*
			MS21141S05xxW
			MS21141U05xx*
AVT-3199	Straight	AVT-3223	MS90353S06xxW
AVT-3220	Straight	AVT-3223	MS90354S06xxW
			MS90353U06xx
AVT-3224	Right Angle	AVT-3221	MS90354U06xx
			MS21140S06xxW
			MS21140U06xx**
			MS21141S06xxW
			MS21141U06xx**

AVT-3214 Pulling Heads			
Part Number	Head Style	Req. Adapter	Installs
AVT-3210	Straight	AVT-3223	MS90353U08xxW
			MS90354U08xxW
AVT-3216	Straight	AVT-3223	MS90353U08xx
			MS90354U08xx
AVT-3218	Right Angle	AVT-3221	MS21140U08xxW
			MS21140U08xx***
			MS21141U08xxW
			MS21141U08xx***

AVT-3214 Adapters	
Part Number	To Adapt To Tool Mounting System
AVT-3221	G744
AVT-3222	AVT-3126, AVT-3103 & AVT-3122
AVT-3223	AVT-3171 & AVT-3205 Bayonet

*Requires optional 828-035 nosepiece to install, please inq. **Requires optional 828-036 nosepiece to install, please inq. ***Requires optional 837-016 nosepiece to install, please inq.

AVT-3225 Lockbolt Power Riveter



The AVT-3225 pneumatic-hydraulic tool is a heavy-duty production tool designed for high speed, reliable installation of the most popular sizes of aircraft Lockbolts. Its durable, all metal housing makes this tool ideal for use in rugged shop environments.

By bending the rubber pin deflector sideways, 1-1/2" additional clearance can be obtained. This tool can also be used to install blind bolts and blind rivets.

Comfortable grip for one handed operation in any position.

Specifications

Air Pressure 90 PSI (6.2 bar) min./110 PSI (7.6 bar) max.

Noise Level 74.2 dB (A)

Vibration less than 2.5 m/s²

Air Consumption .60 SCFM / cycle (17 L / cycle)

AVT-3225 Power Riveter

Part Number	Stroke	Pulling Force	Weight
AVT-3225	9/16"	9,500 lbf (42.3 kN)	10.75 lbs (4.9 kgs)

AVT-3225 Routine Maintenance Kit (For more info)

Part Number	Includes
AVT-3226	All Required Seals, 'O' Rings, Gaskets & Hardware

AVT-3225 Pulling Heads

- Pulling heads not included with riveter, please order from charts below.
- For full specifications on pulling heads below please see pages 114-116.

AVT-3225 Straight Lockbolt Pulling Heads					
Basic Pulling Short Pintail	Swivel Nose	Self Releasing Swivel Nose	Self Releasing Swivel Nose, Chisel Shape	Installed Length	Lockbolt Diameter
AVT-3173*	—	—	—	2" (51 mm)	1/8"
AVT-3174*	—	—	—	3-1/2" (89 mm)	
AVT-3175*	—	—	—	6" (152 mm)	
—	AVT-3176*	AVT-3177*	AVT-3178*	2" (51 mm)	5/32"
AVT-3179*	AVT-3180	AVT-3181	AVT-3182*	3-1/2" (89 mm)	
AVT-3183*	—	—	—	6" (152 mm)	
AVT-3184*	AVT-3185*	AVT-3186*	AVT-3187*	2" (51 mm)	3/16"
—	AVT-3230	AVT-3231	—	2-3/8" (60 mm)	
—	AVT-3188*	AVT-3189*	AVT-3190*	3-1/2" (89 mm)	
—	AVT-3232	AVT-3233	—	4-13/16" (122 mm)	1/4"
AVT-3191*	—	—	—	6" (152 mm)	
—	AVT-3235	AVT-3236	—	2-3/8" (60 mm)	
AVT-3238*	AVT-3239*	—	—	3-1/2" (89 mm)	5/16"
—	AVT-3240	AVT-3241	AVT-3242	4-13/16" (122 mm)	
—	AVT-3243	AVT-3244	—	2-11/16" (68 mm)	
—	AVT-3245	AVT-3246	—	4-3/16" (106 mm)	3/8"
—	AVT-3247	AVT-3248	—	2-11/16" (68 mm)	
—	AVT-3249	AVT-3250	—	4-3/16" (106 mm)	

*Fits directly on Cherry AVT-3171 & Huck 352, requires the 552 adapter when used on Cherry AVT-3225, G85D or Huck 353.

AVT-3225 Offset Lockbolt Pulling Heads		
Basic Pulling	Basic Pulling Short Pintail	Lockbolt Diameter
AVT-3227*	AVT-3228*	1/8"
AVT-3193*	AVT-3194	5/32"
AVT-3195*	AVT-3196*	3/16"
AVT-3229	—	1/4"

*Fits directly on Cherry AVT-3171 & Huck 352, requires the 552 adapter when used on Cherry AVT-3225, G85D or Huck 353.

AVT-3225 CherryMAX Pulling Heads**			
Part Number	Head Style	Required Adapter	Rivet Diameter
AVT-3197	Straight	552	1/4"
AVT-3234	Offset	AVT-3326	1/4"
AVT-3237	Right Angle	AVT-3326	1/4"

**CherryMAX adapter and pulling heads allow user to install CherryMAX, CherryMAX 'AB' & SST rivets.

AVT-3225 Maxibolt Pulling Heads			
Part Number	Head Style	Required Adapter	Maxibolt Diameter
AVT-3251	Straight	—	1/4"
AVT-3198	Straight	552	5/32"
AVT-3199	Straight	552	3/16"
AVT-3252	Straight	AVT-3326	5/32"
AVT-3253	Straight	AVT-3326	3/16"
AVT-3254	Offset	AVT-3326	3/16"
AVT-3219	Right Angle	AVT-3326	5/32"
AVT-3224	Right Angle	AVT-3326	3/16"

AVT-3255 CherryMAX® Hydraulic Hand Riveter

Adjustable, Compact & Powerful



AVT-3255

*High Strength
Steel & Aluminum
Construction*

*Made In
The USA*

Tool Includes AVT-3263 Pulling
Head & AVT-3257 Nosepiece

The AVT-3255 is an ergonomic, lightweight hand powered riveter capable of installing a wide variety of blind fasteners. The all metal design makes this compact and robust tool ideal for use in rugged shop environments or field repair.

- Exceptional power with low hand effort for increased productivity.
- Mounting system (same as AVT-3126) compatible with popular pulling heads including AVT-3109, AVT-3108 & AVT-3107.
- Leak-proof design with advanced seals & built-in redundancies.
- Ergo design with internal shock absorber & cushioned handle.
- Adjustable lever easily accommodates different hand sizes.

AVT-3255 Hand Riveter

Part Number	Stroke	Pulling Force (adj.)	Weight
AVT-3255	3/4"	Up To 6000 lbf (26.7 kN)	1.7 lbs (0.8 kgs)

AVT-3255 Routine Maintenance Kit (for more info)

Part Number	Includes
AVT-3256	All Required Seals, 'O' Rings, Gaskets & Hardware

AVT-3255 Pulling Heads

- AVT-3263 pulling head & AVT-3257 nosepiece included with tool.
- For full specifications on pulling heads below please see pages 113-114.

AVT-3255 Pulling Heads

Part Number	Jaw	Follower	Nosepiece	Rivet Type	Rivet Diameter
AVT-3263 (straight)	AVT-3258*	AVT-3259*	AVT-3257*	CherryMAX, CherryMAX 'AB'	-4, -5, -6 **
				Blindbolt 'S' Type	-04, -05
				MBC	-4, -5, -6
				NAS1900 'U' Type	-4, -5
AVT-3107 (rt. angle)†	AVT-3264	AVT-3265	AVT-3260	CherryLOCK 'A'	-3
			AVT-3261	CherryLOCK 'A'	-4
			AVT-3262	CherryLOCK 'A'	-5
			AVT-3266	CherryLOCK 'A'	-6
AVT-3109 (offset)††	AVT-3264	AVT-3271	AVT-3267	Blindbolt 'U' Type	-05
			AVT-3268	Standard MBC	-4
			AVT-3269	Standard MBC	-5
			AVT-3270	Standard MBC	-6
	AVT-3258	AVT-3259	AVT-3272	CherryMAX 'AB' Aluminum	-6
				NAS1900	-4, -5, -6
				SPR	3/32"
			AVT-3273	NP Pull Through	-3
AVT-3264	AVT-3271	AVT-3276	AVT-3274	NAS1900 (no shift washer)	-4
			AVT-3275	NAS1900 (no shift washer)	-5
			AVT-3276	NAS1900 (no shift washer)	-6

AVT-3255 Heavy-Duty Pulling Head

Part Number	Jaw	Nosepiece	Rivet Type	Rivet Diameter
AVT-3281 (straight)	AVT-3278*	AVT-3277*	CherryMAX, 'AB', 'A'	-8
		AVT-3279	Maxibolt Plus	-5, -6, -8
	AVT-3283	AVT-3282	Maxibolt 'S' Type	-8
		AVT-3279	Maxibolt 'U' Type	-8
	AVT-3284	AVT-3285	Maxibolt 'S' Type	-6

*Standard components included with pulling head. **Except -6 all aluminum.

†AVT-3107 also installs NAS1400 single action & 1722 rivets up to -04 grip (with optional components, please inquire). ††AVT-3109 pulling head does not require or include jaw followers.

AVT-3255 Installation Tool Kit



AVT-3255 Installation Kit

Part Number	Installs
AVT-3280	-4, -5 & -6 CherryMAX / CherryMAX AB*, Blind Bolt 'S' Type -04 & -05, MBC Lock Creator -4, -5 & -6, NAS1900 'U' -4 & -5

Pulling Heads Included: AVT-3263, AVT-3109 & AVT-3107 **Nosepieces Included:** AVT-3257, AVT-3260 & AVT-3267 **Accessories Included:** AVT-3313 Grip Selector Gauge, Molded Plastic Case & All Necessary Manuals

*Except -6 all aluminum.

BLIND RIVETERS & ACCESSORIES

Cherry® AVT-3286 CherryMAX® Hand Riveter



- Pulling head is an integral part of tool.
- Great in areas with limited access or power limitations.

The AVT-3286 is an efficient, compact and lightweight tool for installing CherryMAX rivets. Includes the AVT-3288 insert shown in the chart shown below.

Part Number	Overall Length	Weight
AVT-3286	9-1/4" (23.5 cm)	0.8 lbs (0.4 kgs)

Replacement AVT-3286 CherryMAX Insert			
Part Number	Installs		
	CherryMAX	SST	MBC L / C
AVT-3288	CR3212-4	CR6222-4	4901-04
	CR3213-4	CR6223-4	4904-04
	CR3222-4	CR6224-4	4705-04
	CR3223-4	CR6252-4	4907-04
	CR3523-4	CR6253-4	4911-04
	CR3522-4		4917-04
	CR3214-4		4967-04
	CR3224-4		
	CR3524-4		
	CR3242-4		
	CR3243-4		
	CR3252-4		
	CR3253-4		
	CR3852-4		
	CR3853-4		

Cherry® AVT-3287 Nut Plate Hand Riveter



*Convenient Handle
Storage Of Nosepieces*

- Pulling head is an integral part of tool.
- Great in areas with limited access or power limitations.

The AVT-3287 is an efficient, compact and lightweight tool for installing nut plate and SPR rivets. Includes both the AVT-3168 and AVT-3170 inserts shown in the chart below.

Part Number	Overall Length	Weight
AVT-3287	9-1/4" (23.5 cm)	0.8 lbs (0.4 kgs)

Replacement AVT-3287 Inserts			
Part Number	Installs		
	Rivet Type	Rivet	Rivet Diameter
AVT-3168	SPC	CR1122	-3
	Nut Plate	CCR244	-3
		CCR264	-3
		CCR274	-3
	Metric Nut Plate	CCMR244	-25
		CCMR264	-25
CCMR274		-25	
AVT-3170	Nut Plate	CCR244	-4
		CCR264	-4
		CCR274	-4
	Metric Nut Plate	CCMR244	-30, -35
		CCMR264	-30, -35
		CCMR274	-30, -35

Cherry® AVT-3289 CherryLOCK® Hand Riveter



- Pulling head is an integral part of tool.
- Great in areas with limited access or power limitations.

The AVT-3289 is an efficient, compact and lightweight tool for installing CherryLOCK 'A' rivets. Includes the AVT-3290 insert shown in the chart on right.

Part Number	Overall Length	Weight
AVT-3289	9-1/4" (23.5 cm)	0.8 lbs (0.4 kgs)

Replacement AVT-3289 CherryLOCK Insert			
Part Number	Installs		
	Rivet Type	Rivet	Rivet Diameter
AVT-3290	CherryLOCK 'A'	CR2672	3/32"
		CR2673	3/32"
		NAS1399C3A()	3/32"
		NAS1398C3A()	3/32"

AVITORQ CAN HELP WITH YOUR CHERRY TOOLING SELECTION

For Cherry tooling enquiries, quote the fastener series, rivet number, size, material and application. Include the required installation tool or pulling head and the AVT ordering code.

Confirm tool compatibility, availability, lead time and documentation before ordering. For service enquiries, include the maker, model, serial number and a description of the fault.

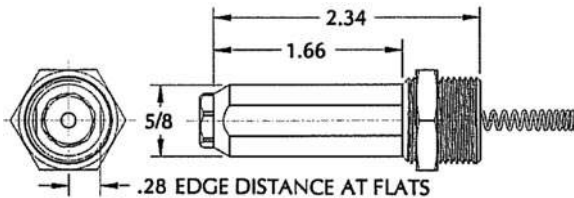
Cherry® AVT-3291 Straight Universal Pulling Head



Simple & Versatile

- A more versatile pulling head for aerospace applications.
- Simple interchangeable threaded nosepieces (offered below).

The AVT-3291 as purchased will install CherryMAX, CherryMAX AB, MBC L/C & MaxiBolt -04 & -05 products. Additional nosepieces offered below.



Note: Uses CherryMAX mounting system (AVT-3126, AVT-3122, AVT-3103).

Part Number	Stroke	Force	Weight
AVT-3291	w/G704B: 1/2" w/G746A: 7/8" w/G747: 7/16"	w/G704B: 3100 lbf w/G746A: 1850 lbf w/G747: 2200 lbf	0.15 lbs (0.07 kgs)

Available Nosepieces

Part Number	Installs
AVT-3257 (included with pulling head)	CherryMAX & CherryMAX AB -4, -5 & -6*
	Blindbolt 'S' Type -04 & -05
	MBC Lock Creator -4, -5 & -6
	NAS1900 'U' Type -4 & -5
AVT-3274	NAS1900 -4 (no shift washer)
AVT-3275	NAS1900 -5 (no shift washer)
AVT-3276***	NAS1900 -6 (no shift washer)
AVT-3268	Standard MBC -4
AVT-3269	Standard MBC -5
AVT-3270***	Standard MBC -6
AVT-3273**	3/32" SPR & -3 pull thru Nut Plate
AVT-3267	Blindbolt 'U' Type -05
AVT-3272***	CherryMAX AB -6 Alum., NAS1900 -4, -5 & -6
AVT-3260**	CherryLOCK 'A' Code -3
AVT-3261	CherryLOCK 'A' Code -4
AVT-3262	CherryLOCK 'A' Code -5
AVT-3266***	CherryLOCK 'A' Code -6

*Except -6 diameter all aluminum (use AVT-3272).

**Nosepiece requires AVT-3292 jaw follower, see below.

***Nosepiece requires AVT-3264 jaw & AVT-3271 jaw follower, see below.

Replacement Parts

Jaw	Jaw Follower	Notes
AVT-3258	AVT-3259	AVT-3258 & AVT-3259 Included with Tool
	AVT-3292	Req'd for AVT-3260 & AVT-3273 Nosepieces
AVT-3264	AVT-3265	Req'd for AVT-3266, AVT-3270, AVT-3272 & AVT-3276 Nosepieces

Cherry® AVT-3109 Offset Universal Pulling Head

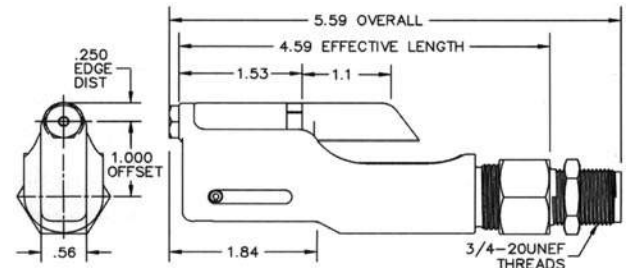
Strong Yet Compact & Lightweight



Two-Jaw Offset Design Eliminates Stem Slippage

- A more versatile pulling head for aerospace applications.
- Simple interchangeable threaded nosepieces (offered below).

The AVT-3109 is capable of installing CherryMAX, CherryLOCK 'A' code, MaxiBolt 'S' type blind bolts, MBC, SPR, NAS1398 A & AB code products, MS90353/4, MS21140/1 'U' 05, NAS1719, 1720 & 1721 and pull-through type nut plate rivets.



Note: Uses CherryMAX mounting system (AVT-3126, AVT-3122, AVT-3103).

Part Number	Stroke	Force	Weight
AVT-3109	w/G704B: 1/2" w/G746A: 7/8" w/G747: 7/16" w/G800: 0.78"	w/G704B: 3100 lbf w/G746A: 1850 lbf w/G747: 2200 lbf w/G800: 4200 lbf	0.84 lbs (0.36 kgs)

Available Nosepieces

Part Number	Installs
AVT-3257 (included with pulling head)	CherryMAX & CherryMAX AB -4, -5 & -6*
	Blindbolt 'S' Type -04 & -05
	MBC Lock Creator -4, -5 & -6
	NAS1900 'U' Type -4 & -5
AVT-3274	NAS1900 -4
AVT-3275	NAS1900 -5
AVT-3268	Standard MBC -4
AVT-3269	Standard MBC -5
AVT-3270**	Standard MBC -6
AVT-3273	3/32" SPR & -3 pull thru Nut Plate
AVT-3267	Blindbolt 'U' Type -05
AVT-3272**	CherryMAX AB -6 Aluminum
AVT-3260	CherryLOCK 'A' Code -3
AVT-3261	CherryLOCK 'A' Code -4
AVT-3262	CherryLOCK 'A' Code -5
AVT-3266**	CherryLOCK 'A' Code -6

*Except -6 diameter all aluminum (use AVT-3272).

**These nosepieces require AVT-3264 jaws, see replacement parts chart on left.

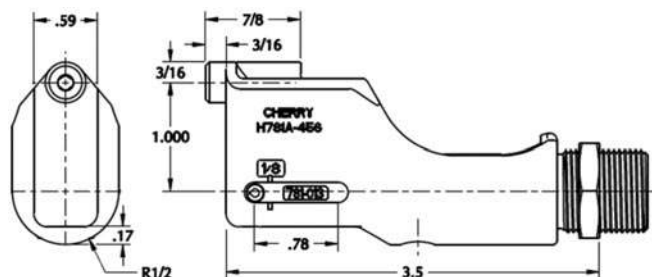
BLIND RIVETERS & ACCESSORIES

Cherry® Compact Single Jaw Offset Pulling Head



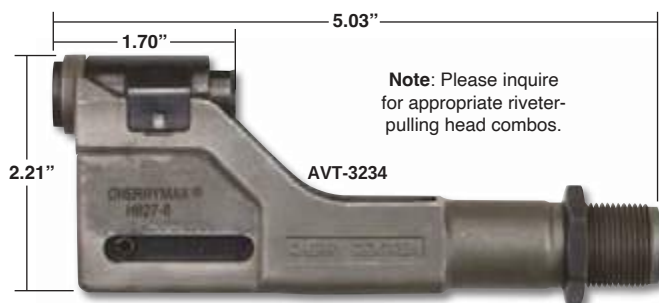
- Works directly with AVT-3122, AVT-3103, AVT-3126 & AVT-3255 (no adapters).
- Continuously adjustable jaw grip to compensate for wear.

The AVT-3108 will install CherryMAX Bulb & 'AB' (-4, -5 & -6), Maxibolt 'S' Type (-04 & -05), Cherry 1900 'U' type (-04 & -05) and MBC Lock Creator (-4, -5 & -6).



Part Number	Stroke	Weight
AVT-3108	3/4"	0.5 lbs (0.23 kgs)

CherryMAX® Offset Pulling Head



Note: Please inquire for appropriate riveter-pulling head combos.

Part Number	Installs
AVT-3234	1/4" Nominal & Oversize CherryMAX (G744 Only)

CherryMAX® Right Angle Pulling Heads



Note: Please inquire for appropriate riveter-pulling head combos.

Part Number	Installs
AVT-3107	1/8", 5/32" & 3/16" Nominal & Oversize CherryMAX
AVT-3237	1/4" Nominal & Oversize CherryMAX (G744 Only)

CherryMAX® Straight Pulling Heads



Note: Please inquire for appropriate riveter-pulling head combos.

Part Number	Installs
AVT-3105	1/8", 5/32" & 3/16" Nominal & Oversize CherryMAX
AVT-3293	Same As Above (G744 Only)
AVT-3294	1/4" Nominal & Oversize CherryMAX (G744 Only)

CherryLOCK® H681 Straight Pulling Heads



- Fits directly on all Cherry hydroshift riveters, 2-9/16" installed.
- Separate pulling head is required for each style & diameter rivet.

Univ. Countersunk (MS 20426)		Countersunk (NAS 1097)	
Part Number	Rivet Dia.	Part Number	Rivet Dia.
AVT-3137	3/32"	AVT-3139	1/8"
AVT-3138	1/8"	AVT-3141	5/32"
AVT-3140	5/32"	AVT-3143	3/16"
AVT-3142	3/16"	AVT-3145	1/4"
AVT-3144	1/4"		

Countersunk (156°)		Uni-Sink	
Part Number	Rivet Dia.	Part Number	Rivet Dia.
AVT-3148	1/8"	AVT-3149	1/8"
AVT-3151	5/32"	AVT-3152	5/32"
AVT-3153	3/16"	AVT-3154	3/16"

CherryLOCK® 'A' H955 Straight Pulling Heads



Note: Please inquire for appropriate riveter-pulling head combos.

H955 Part Number	AVT-3147 Part Number	Rivet Diameter
AVT-3114	AVT-3166	3/32"
AVT-3115	AVT-3295	1/8"
AVT-3116	AVT-3296	5/32"
AVT-3117	AVT-3297	3/16"

Cherry® MS Straight Pulling Heads



Note: Please inquire for appropriate riveter-pulling head combos.

Part Number	Rivet Diameter
AVT-3110	3/32"
AVT-3111	1/8"
AVT-3112	5/32"
AVT-3113	3/16"

Part Number	Rivet Diameter
AVT-3300	3/32"
AVT-3301	1/8"
AVT-3302	5/32"
AVT-3303	3/16"

Cherry® Nut Plate Pulling Heads



For AVT-3163 Riveter	
Part Number	Installs
AVT-3169*	3/32" & 1/8", 2.5 mm & 3 mm Nut Plate

*Includes nosepieces: AVT-3168 (3/32") & AVT-3170 (1/8").

Note: SPR nosepiece also available, AVT-3168(3/32"), please inquire.

For AVT-3103 Riveter	
Part Number	Installs
AVT-3106*	3/32" & 1/8", 2.5 mm & 3 mm Nut Plate

*Includes nosepieces: AVT-3168 (3/32") & AVT-3170 (1/8").



For AVT-3164 Riveter (3 mm grip)	
Part Number	Installs
AVT-3165	3/32", 2.5 mm & 3 mm Nut Plate, 3/32" SPR
AVT-3167	1/8" Nut Plate

For AVT-3162 Riveter (3 mm grip)	
Part Number	Installs
AVT-3110	3/32", 2.5 mm & 3 mm Nut Plate & SPR
AVT-3111	1/8" Nut Plate
AVT-3166	3/32" CherryLOCK 'A'

Cherry® TFS Rivetless Nut Plate Pulling Heads



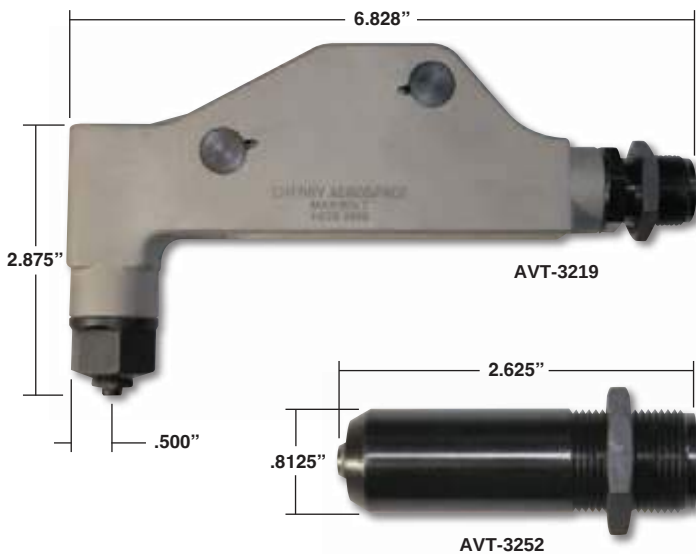
- Rivetless nut plates require a single drilled hole only.
- Improves the fatigue life of structure compared to rivet nut plates.
- Meets or exceeds NASM25027 specs (0.062" & longer grips).

Part Number	Type	Available Diameters	For Riveters
AVT-3298	NP	.233 to .358	AVT-3126, AVT-3255 & G750A*
AVT-3299	NPC Composite Applications	.249 to .368	

*Use with G750A requires 750A-088 adapter (not included, please inquire).

Ordering Instructions: Add the desired diameter to the part number of the pulling head required. **Example:** For a NP type pulling head with a .249" hole diameter the part number would be H704-249NP.

Maxibolt® Pulling Heads



Note: Please inquire for appropriate riveter-pulling head combos.

Straight Heads		Right Angle Heads	
Part Number	MaxiBolt Dia.	Part Number	MaxiBolt Dia.
AVT-3251	1/4"	AVT-3219	5/32"
AVT-3252	5/32"	AVT-3224	3/16"
AVT-3253	3/16"	AVT-3218	1/4"
AVT-3198	5/32"	Offset Head	
AVT-3199	3/16"	Part Number	MaxiBolt Dia.
AVT-3201	5/32" & 3/16"	AVT-3254	3/16"

BLIND RIVETERS & ACCESSORIES

Cherry® LockBOLT Pulling Heads

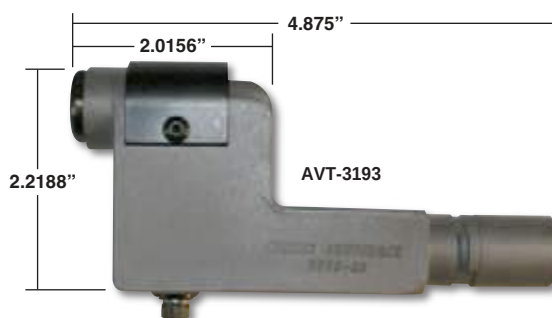


Straight Pulling Heads					
Basic Pulling Short Pintail	Swivel Nose	Self Releasing Swivel Nose	Self Releasing Swivel Nose, Chisel Shape	Installed Length	Lockbolt Diameter
AVT-3173*	—	—	—	2" (51 mm)	1/8"
AVT-3174*	—	—	—	3-1/2" (89 mm)	
AVT-3175*	—	—	—	6" (152 mm)	
—	AVT-3176*	AVT-3177*	AVT-3178*	2" (51 mm)	5/32"
AVT-3179*	AVT-3180	AVT-3181	AVT-3182*	3-1/2" (89 mm)	
AVT-3183*	—	—	—	6" (152 mm)	
AVT-3184*	AVT-3185*	AVT-3186*	AVT-3187*	2" (51 mm)	3/16"
—	AVT-3230	AVT-3231	—	2-3/8" (60 mm)	
—	AVT-3188*	AVT-3189*	AVT-3190*	3-1/2" (89 mm)	
—	AVT-3232	AVT-3233	—	4-13/16" (122 mm)	
AVT-3191*	—	—	—	6" (152 mm)	1/4"
—	AVT-3235	AVT-3236	—	2-3/8" (60 mm)	
AVT-3238*	AVT-3239*	—	—	3-1/2" (89 mm)	
—	AVT-3240	AVT-3241	AVT-3242	4-13/16" (122 mm)	
—	AVT-3243	AVT-3244	—	2-11/16" (68 mm)	5/16"
—	AVT-3245	AVT-3246	—	4-3/16" (106 mm)	
—	AVT-3247	AVT-3248	—	2-11/16" (68 mm)	3/8"
—	AVT-3249	AVT-3250	—	4-3/16" (106 mm)	

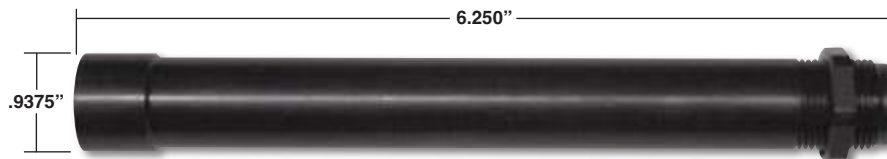
*Fits directly on Cherry G83 & Huck 244, requires a 552 adapter (see next page) when used on Cherry AVT-3225, G85D or Huck 245.

Offset Pulling Heads		
Basic Pulling	Basic Pulling Short Pintail	Lockbolt Diameter
AVT-3227*	AVT-3228*	1/8"
AVT-3193*	AVT-3194	5/32"
AVT-3195*	AVT-3196*	3/16"
AVT-3229	—	1/4"

*Fits directly on Cherry G83 & Huck 244, requires a 552 adapter (see next page) when used on Cherry AVT-3225, G85D or Huck 245.



Pulling Head Extensions



• Great for limited access areas. • Any combination may be used to reach desired length.

For G701A, AVT-3126, G749A, G746 & AVT-3103 Riveters			
Part Number	Length	Part Number	Length
AVT-3304	2" (51 mm)	AVT-3305	6" (152 mm)
AVT-3308	4" (102 mm)	AVT-3309	12" (305 mm)

For G744 Riveters			
Part Number	Length	Part Number	Length
AVT-3306	2" (51 mm)	AVT-3307	6" (152 mm)
AVT-3310	4" (102 mm)	AVT-3311	12" (305 mm)

Adapters For Pulling Heads



For AVT-3135, G700 & AVT-3157 Riveters	
Part Number	Allows
AVT-3315	AVT-3146 & AVT-3147
AVT-3316	AVT-3150 Type

For AVT-3126, AVT-3122 & AVT-3103 Riveters	
Part Number	Allows
AVT-3318	AVT-3150 Type
AVT-3319	AVT-3146 & 9055 Screw On Type

For G744 Riveter	
Part Number	Allows
AVT-3320	AVT-3107 & AVT-3108
AVT-3321	Huck 244 (352) Style Blind Bolt Pulling Head

For G686B-S, AVT-3135, G700 & AVT-3157 Riveters	
Part Number	Allows
AVT-3322	AVT-3107 & AVT-3108

For G740A & G86A Riveters	
Part Number	Allows
AVT-3323	AVT-3107 & AVT-3108

For AVT-3205 Riveters	
Part Number	Allows
AVT-3202	AVT-3225 & Huck 245 (353) Pulling Head
AVT-3203	AVT-3294, AVT-3234, AVT-3219 & AVT-3224
AVT-3204	AVT-3105, AVT-3107 & AVT-3108

For AVT-3214 Riveter	
Part Number	To Adapt To Tool Mounting System
AVT-3221	G744
AVT-3222	AVT-3126, AVT-3103 & AVT-3122
AVT-3223	G83 & AVT-3205 Bayonet

For AVT-3225 Riveter	
Part Number	Allows
AVT-3325	AVT-3197, AVT-3198, AVT-3199
AVT-3326	AVT-3234, AVT-3237, AVT-3252, AVT-3253, AVT-3254, AVT-3219, & AVT-3224

Cherry® Gauges



Part Number	Description
AVT-3312	CherryMAX/CherryLOCK Grip & Diameter Gauge
AVT-3313	Lockbolt Grip Gauge
AVT-3314	Maxibolt Grip Gauge

Cherry® 209 Type Hand Nipper



Part Number	Description
AVT-3317	Rivet Trimmer

Cherry® Riveter Service Kits



All the seals, 'O'-rings, gaskets and hardware required for routine maintenance of your Cherry blind riveters.

Part No.	For Tool	Part No.	For Tool
AVT-3136	AVT-3135	AVT-3256	AVT-3255
AVT-3164	AVT-3163	AVT-3324	G83
AVT-3127	AVT-3126, AVT-3132	AVT-3172	AVT-3171
AVT-3123	AVT-3122	AVT-3206	AVT-3205
AVT-3104	AVT-3103	AVT-3215	AVT-3214
AVT-3158	AVT-3157		

Part Number	For Tool
AVT-3134	AVT-3133
AVT-3226	AVT-3225

BLIND RIVETERS & ACCESSORIES

Huck® 200 Power Riveter



AVT-3327

Installs a wide range of Huck fasteners as well as competitive products with the appropriate nose assembly (below).

Part Number	Stroke	Pulling Force	Weight
AVT-3327	1.190"	2950 lbf (13.1 kN)	10.5 lbs (4.8 kgs)

Note: Nose assemblies ordered separately from chart below.

Nose Assemblies		
Part Number Straight	Fastener Diameter	Installs Fasteners
AVT-3329	-4	NAS1919B/21B NAS1919M/21M NAS1919C/21C MLSP/MLS100 7MLS100-M
AVT-3330*		
AVT-3331		
AVT-3333*	-5	MS21140 (B100-EU), MS21141 (BP-EU) MS90353 (B100-T), MS90354 (BP-T) OBP-EU, OB100EU, OBP-T & OB100-T 7B100-EU & 7B120-EU 4B100-T06/EU06
AVT-3335	-6	
AVT-3337*	-6	
AVT-3339	-5	MS21140 (B100-EU), MS21141 (BP-EU) MS90353 (B100-T), MS90354 (BP-T) OBP-EU, OB100EU, OBP-T & OB100-T 7B100-EU & 7B120-EU 4B100-T06/EU06
AVT-3341	-6	

*Requires 104406 adapter.

Huck® 2012 Power Riveter



AVT-3328

- Installs a wide range of Huck fasteners as well as competitive products with the appropriate nose assembly (below).
- A lightweight tool for fast, uniform installations.

Part Number	Stroke	Pulling Force	Weight
AVT-3328	0.650"	2670 lbf (11.9 kN)	4.4 lbs (2.0 kgs)

Note: Nose assemblies ordered separately from chart below.

Nose Assemblies		
Part Number Straight	Fastener Diameter	Installs Fasteners
AVT-3332	-4	NAS1919/21"S", OSMLSP OSMLS100, SMLSP-BT SMLS100-BT, OSR
AVT-3334	-5	
AVT-3336	-6	
AVT-3338	-5	MS90353/54"S" or "U", MS21140/41"S" or "U" OBP-EU/OBP-T/OB100-EU, OB100-T OSBP-EU/OSB100-T UBP-MV/UBP100-MV SB100T05 & 06, SB100EU-05 & 06 S7B100-EU/S4B100-T06
AVT-3340	-6	

Huck® 2013 'CherryMAX' Power Riveter



Uses Your Existing
CherryMAX Tooling

A Durable,
Production
Rated Riveter

AVT-3342

- Uses your existing CherryMAX noses without an adapter.
- Longer stroke than AVT-3126 or AVT-3103 - less double stroking.
- Less O-rings and seals than comparable Cherry tools for less maintenance and downtime.

Part Number	Stroke	Pulling Force	Weight
AVT-3342	0.650"	2670 lbf (11.9 kN)	4.5 lbs (2.0 kgs)

Note: Nose assemblies ordered separately from chart below.

Nose Assemblies				
Part Number Straight	Part Number Offset	Part Number Rt. Angle	Fastener Diameter	Installs Fasteners
AVT-3105	AVT-3343	AVT-3344	-4 thru -6	M7885 NAS9301/9312 BACR15FR/FP
AVT-3345	AVT-3108	AVT-3107		"Allmax"
AVT-3346	—	—		"CherryMAX" "HuckMax" "Huck-Clinch"

Huck® 202 Power Riveter



AVT-3348

- Installs a wide range of Huck fasteners as well as competitive products with the appropriate nose assembly (below).
- Installs at a high production rate with minimum fatigue.
- Can be used to install 3/16" & 1/4" blind rivets & blind bolts.

Part Number	Stroke	Pulling Force	Weight
AVT-3348	0.750"	3900 lbf (17.4 kN)	5.5 lbs (2.5 kgs)

Note: Nose assemblies ordered separately from chart below.

Nose Assemblies		
Part Number Straight	Fastener Diameter	Installs Fasteners
AVT-3332	-4	NAS1919/21"S" OSMLSP OSMLS100 SMLSP-BT SMLS100-BT OSR
AVT-3334	-5	
AVT-3336	-6	
AVT-3349	-8	
AVT-3338	-5	MS90353/54"S" or "U" MS21140/41"S" or "U" OBP-EU/OBP-T/OB100-EU OB100-T OSBP-EU/OSB100-T UBP-MV/UBP100-MV SB100T05 & 06 SB100EU-05 & 06 S7B100-EU/S4B100-T06
AVT-3340	-6	

Huck® 2025 Power Riveter



AVT-3347

Part Number	Stroke	Pulling Force	Weight
AVT-3347	0.675"	5290 lbf (23.5 kN)	5.75 lbs (2.6 kgs)

Note: Nose assemblies ordered separately from chart below.

Nose Assemblies		
Part Number Straight	Fastener Diameter	Installs Fasteners
AVT-3332	-4	NAS1919/21"S" OSMLSP OSMLS100 SMLSP-BT SMLS100-BT OSR
AVT-3334	-5	
AVT-3336	-6	
AVT-3349	-8	
AVT-3338	-5	MS90353/54"S" or "U" MS21140/41"S" or "U" OBP-EU/OBP-T/OB100-EU OB100-T OSBP-EU/OSB100-T UBP-MV/UBP100-MV SB100T05 & 06 SB100EU-05 & 06 S7B100-EU/S4B100-T06
AVT-3340	-6	
AVT-3350	-8	
AVT-3351	-5*	
AVT-3352	-6*	Huckrimp NAS4450/52 NAS4458S/66S 03KSP-DT/OKS200-DT
AVT-3353	13/64 (06)	
AVT-3354	17/64 (08)	
AVT-3355	21/64 (10)	

*Aluminum only. **ASP drivers: 13/64 = 106524, 17/64 = 106525, 21/64 = 107735.

AVITORQ CAN HELP WITH YOUR HUCK TOOLING SELECTION

For Huck tooling enquiries, quote the fastener series, rivet number, size, material and application. Identify the required riveter, pulling head and AVT ordering code.

Confirm compatibility, availability, lead time and documentation before ordering. For repair or service enquiries, provide the maker, model, serial number and fault details.

BLIND RIVETERS & ACCESSORIES

Huck® AVT-3364 Power Riveter



AVT-3364

A lightweight and powerful tool designed to install at high volumes lockbolt & blind fasteners through 1/4".

Part Number	Stroke	Pulling Force	Weight
AVT-3363	0.5620"	4606 lbf (20.5 kN)	5.7 lbs (2.6 kgs)
AVT-3364	0.6245"		

Note: Nose assemblies ordered separately from chart below.

Nose Assemblies			
Part Number Straight	Fastener Diameter	Installs Fasteners	
AVT-3332	-4	NAS1919/21"S" OSMLS, OSMLS100 SMLS-BT, SMLS100-BT OSR	
AVT-3334	-5		
AVT-3336	-6		
AVT-3349	-8		
AVT-3338	-5	MS90353/54"S" or "U" MS21140/41"S" or "U" OBP-EU/OBP-T/OB100-EU, OB100-T OSBP-EU/OSB100-T UBP-MV/UBP100-MV	
AVT-3340	-6		
AVT-3350	-8		
AVT-3365	-4	NAS Shear Lockbolts: NAS1436-1442/1446-1452 NAS7024-7032/7034-7042 NAS7004-7012/7014-7022 NAS2406V-2412V/2506V-2512V NAS Tension Lockbolts: NAS1456-1462/1465-1472 NAS1475-1482/1516-1522 NAS1525-1532/1535-1542 NAS2005V-2012V/2105V-2112V NAS2115V-2122V NAS2125-2132/6935-6942 NAS6946-6952/6955-6962 NAS6965-6972	
AVT-3366	-5		
AVT-3367	-6		
AVT-3368	-8		
AVT-3365	-4		
AVT-3366	-5		
AVT-3367	-6		
AVT-3368	-8		
AVT-3370	4mm		
AVT-3372	5mm		
AVT-3373	6mm		

Huck® AVT-3364 Power Riveter (cont'd)

Nose Assemblies			
Part Number Straight	Fastener Diameter	Installs Fasteners	
AVT-3356	-4	LGP Lockbolts	
AVT-3357	-5		
AVT-3358	-6		
AVT-3359	-8		
AVT-3360	4mm	MLGP Lockbolts	
AVT-3361	5mm		
AVT-3362	6mm		
AVT-3351	-5*	Huckrimp NAS4450/52, NAS4458S/66S 03KSP-DT/OKS200-DT	
AVT-3352	-6*		
AVT-3353	13/64 (06)	ASP Fasteners** ASPFF/2ASP509F/P 2ASPFF/FP 2ASPPF/PP	
AVT-3354	17/64 (08)		
AVT-3355	21/64 (10)		

*Aluminum only. **ASP drivers: 13/64 = 106524, 17/64 = 106525, 21/64 = 107735.

Huck® 245 & 255 Power Riveters

Factory Tested
For 2000 Cycles



AVT-3369

AVT-3371

- High-speed production tool with optimum stroke for one-cycle installation of a wide range of fasteners.
- Chrome plated piston rods extend the life of the seals, and relief valves in both air & hydraulics offer double protection.

Note: Nose assemblies ordered separately from chart on next page.

Part Number	Stroke	Pulling Force	Weight
AVT-3369	0.625"	7500 lbf (33.4 kN)	9.3 lbs (4.2 kgs)

Part Number	Stroke	Pulling Force	Weight
AVT-3371	0.625"	7750 lbf (34.5 kN)	8.8 lbs (4.0 kgs)

Applicable Nose Assemblies Shown On Next Page

Huck® 245 & 255 Power Riveters (cont'd)

Nose Assemblies			
Part No. Straight	Part No. Offset***	Fastener Diameter	Installs Fasteners
AVT-3332*	AVT-3374	-4	NAS1919/21"S" OSMLS100 SMLS100-BT SMLS100-BT OSR
AVT-3334*	AVT-3375	-5	
AVT-3336*	AVT-3376	-6	
AVT-3377	AVT-3378	-8	
AVT-3379	—	-10	
AVT-3380	AVT-3381	-5	MS90353/54"S" or "U" MS21140/41"S" or "U" OBP-EU/OBP-T/OB100-EU OB100-T OSBP-EU/OSB100-T UBP-MV/UBP100-MV SB100T05 & 06 SB100EU-05 & 06 S7B100-EU/S4B100-T06
AVT-3382	AVT-3383	-6	
AVT-3384	AVT-3385	-8	
AVT-3386	—	-10	
AVT-3387	AVT-3388	-5	NAS Shear Lockbolts: NAS1436-1442/1446-1452 NAS7024-7032/7034-7042 NAS7004-7012/7014-7022 NAS2406V-2412V/2506V-2512V NAS Tension Lockbolts: NAS1456-1462/1465-1472 NAS1475-1482/1516-1522 NAS1525-1532/1535-1542 NAS2005V-2012V/2105V-2112V NAS2115V-2122V NAS2125-2132/6935-6942 NAS6946-6952/6955-6962 NAS6965-6972
AVT-3389	AVT-3390	-6	
AVT-3391	AVT-3392	-8	
AVT-3393	AVT-3394	-10	
AVT-3395	AVT-3388	-5	GP Lockbolts GPL3S/6S/7T/8T
AVT-3396	AVT-3390	-6	
AVT-3398	AVT-3392	-8	
AVT-3399	AVT-3394	-10	
AVT-3400	AVT-3401	4mm	MGP Lockbolts MGPL28T
AVT-3402	AVT-3403	5mm	
AVT-3404	AVT-3405	6mm	
AVT-3406	—	8mm	
AVT-3407	—	10mm	
AVT-3408	AVT-3409	-5	LGP Lockbolts
AVT-3410	AVT-3411	-6	
AVT-3412	AVT-3413	-8	
AVT-3414	AVT-3415	-10	
AVT-3416	AVT-3417	4mm	MLGP Lockbolts
AVT-3418	AVT-3419	5mm	
AVT-3420	AVT-3421	6mm	
AVT-3422	AVT-3423	8mm	
AVT-3353*	AVT-3424	13/64 (06)	ASP Fasteners*** ASPFF/2ASP509F/P 2ASPFF/FP 2ASPFF/PP
AVT-3354*	AVT-3426	17/64 (08)	
AVT-3355*	AVT-3427	21/64 (10)	

*Use adapter 102463, please inquire.

**Use adapter 119400-1 & stroke limiter 118362, please inquire.

***ASP drivers: 13/64 = 106524, 17/64 = 106525, 21/64 = 107735.

Huck® 246 Power Riveter



- High-speed production tool with optimum stroke for one-cycle installation of a wide range of fasteners.
- Can be used with a wide range of HUCKBOLT® fasteners and huck blind fasteners including 5/16" & 3/8" diameter GP® and LGP® fasteners.
- Chrome plated piston rods extend the life of the seals, and relief valves in both air & hydraulics offer double protection.

Part Number	Stroke	Pulling Force	Weight
AVT-3397	0.875"	9986 lbs (44.4 kN)	12.3 lbs (5.6 kgs)

Note: Nose assemblies ordered separately from chart below.

Nose Assemblies		
Part Number Straight	Fastener Diameter	Installs Fasteners
AVT-3386	-10	MS21141U() (UBR-EU) MS21140U() (UB100-EU) MS90354U() (UBR-T) MS90353U() (UB100-T) MS90353S(SB100-T) MS21140S(SB100-EU) MS90354S(SBP-T) MS21141S(UBP-EU) OSBP-EU() OSB100-EU() OSBP-T() OSB100-T() OBP-EU() OB100-EU() OBP-T() OB100-T() UBP-MV() UB100-MV() SB100-T05 & 06 SB100-EU05 & 06 S7B100-EU S4B100-T06 4B100-T08
AVT-3425	-12	

Note: Other nose assemblies available, please inquire.

BLIND RIVETERS & ACCESSORIES

POP® ProSet XT Riveters



Comfortable, Low Force Activation Trigger

- Class-leading lightweight construction with balanced handling.
- Patented quick disconnect nose housing and jaw case for rapid, tool-free cleaning and maintenance of the front end.
- Clear quick release mandrel collector bottle reduces downtime.
- Adjustable vacuum exhaust direction.
- "On/Off" switch reduces air consumption and noise.

Included Nosepieces:

AVT-3429 3/32", 1/8" & 5/32" AVT-3430 1/8", 5/32" & 3/16"

AVT-3431 1/8", 5/32", 3/16" & 1/4" AVT-3432 1/8", 5/32", 3/16" & 1/4"

NOTE: Optional nosepieces available for all models, please inquire.

Part Number	Stroke	Cycle Time	Pulling Force	Weight
AVT-3429	0.71"	0.4 s	1461 lbf (6.5 kN)	2.6 lbs (1.2 kgs)
AVT-3430	0.79"	0.6 s	2001 lbf (8.9 kN)	2.8 lbs (1.3 kgs)
AVT-3431	1.02"	0.9 s	3822 lbf (17 kN)	4.7 lbs (2.1 kgs)
AVT-3432	0.71"	1.0 s	5171 lbf (23 kN)	4.8 lbs (2.2 kgs)

510A Type Pneumatic Riveter

Strong & Compact



Tool Includes:

Riveter, Three Nosepieces (1/8", 5/32" & 3/16") & Air Line Ass'y

PRG510A Installs:

POP Type Rivets In Most Materials To 3/16"

Note: Air Inlet 1/8" NPT.

Part Number	Stroke	Pulling Force	Weight
AVT-3428	5/8"	1000 lbf (4.5 kN)	3.7 lbs (1.7 kgs)

540 Type Pneumatic Riveter

Tool Includes:

Riveter, Four Nosepieces (1/8", 5/32", 3/16" & 1/4"), & Air Line Assembly

AVT-3433 Installs:

POP Type Rivets In Most Materials To 1/4"

A High-Volume Production Tool

Strong, Robust & Reliable



Note: Air Inlet 1/4" NPT.

Part Number	Stroke	Pulling Force	Weight
AVT-3433	11/16"	3000 lbf (13.3 kN)	4.9 lbs (2.2 kgs)

POP® Hand Riveter

- Robust aluminum casting and vanadium steel handle design.
- For all popular rivets to 3/16" - includes nosepiece wrench.
- POP hand riveter kit shown on next page.

Part Number	Included Nosepieces	Overall Length	Weight
AVT-3434	3/32", 1/8", 5/32" & 3/16"	9.65" (245 mm)	1.3 lbs (0.6 kgs)

One Handed Operation



POP® Hand Riveter Kit

Complete Kit Includes:

AVT-3434 POP Hand Riveter, Four Nosepieces (3/32", 1/8", 5/32" & 3/16"), Nosepiece Wrench, 200 PC Rivet Assortment (various popular materials and sizes), 60 Backup Plates (washers) & Fitted Plastic Carrying Case



Part Number	Description
AVT-3435	265 PC Kit

Cordless Blind Riveter Tool Kit

A Powerful & Portable Riveting Tool



AVT-3460

- Fast & efficient, this tool rivals air powered performance in a highly portable package.
- Installs almost all straight pull blind rivets including CherryMAX style (M7885) through 3/16" dia. and most 1/4" dia. all aluminum blind bolts.
- Includes battery charger & 2 quick charge battery packs (1 hour recharge).

Installs (but not limited to) virtually all CherryMAX (M7885), Avdel, or Cherry Monobolts, Cherry Interlock, Huck MagnaLok, and POP type rivets. The tool will also install 5/32" and 3/16" Blind Bolts (MS90353/54-S/U) with the included nosepieces.

Part Number	Stroke	Pulling Force	Case Size	Weight
AVT-3460	0.787"	4000 lbf (17.8 kN)	14" x 11-1/2" x 4-1/2"	15 lbs (6.8 kgs)

360° Swivel Hand Riveter

Sets Up To 3/16" Steel Rivets



- Patented, positive-ratchet locking swivel head rotates 360° and will hold in place in any of the over forty positions.
- High-strength steel body & cast aluminum head.

Part Number	Nosepieces Included
AVT-1844	3/32", 1/8", 5/32" & 3/16"

Wrench Type Upsetters

Quick & Economical



Slotted
C1000
Series
(plus type)

For installing aluminum and/or steel engineered threaded fasteners.



Large Size
C722 Series



Standard
C845 Series

For Standard Rivnuts*		
Part Number	Size	Thread
AVT-3436	#4	4-40
AVT-3438	#6	6-32
AVT-3440	#8	8-32
AVT-3442	#10	10-24
AVT-3444	#10	10-32
AVT-3446	1/4"	1/4"-20
AVT-3448	1/4"	1/4"-28
AVT-3451	M4	M4 x 0.7
AVT-3452	M5	M5 x 0.8
AVT-3453	M6	M6 x 1.0

For Large Size Rivnuts*		
Part Number	Size	Thread
AVT-3437	5/16"	5/16"-18
AVT-3439	5/16"	5/16"-24
AVT-3441	3/8"	3/8"-16
AVT-3443	3/8"	3/8"-24
AVT-3445	1/2"	1/2"-13
AVT-3447	1/2"	1/2"-20
AVT-3449	M8	M8 x 1.25
AVT-3450	M10	M10 x 1.50

*Includes allen wrench.

For Slotted Rivnuts (plus type)		
Part Number	Size	Thread
AVT-3454	#4	4-40
AVT-3456	#6	6-32
AVT-3458	#8	8-32
AVT-3461	#10	10-24

For Slotted Rivnuts (plus type)		
Part Number	Size	Thread
AVT-3455	#10	10-32
AVT-3457	M4	M4 x 0.7
AVT-3459	M5	M5 x 0.8
AVT-3462	M6	M6 x 1.0

BLIND RIVETERS & ACCESSORIES

AVITORQ RIVETNUT Drivers



AVT-3469

*High Speed Push-Pull
Spiral Action*

Note: Metric sizes also available, please inquire.

Part Number	Conversion Kit Part Number	Replacement Stud Part No.	Thread Size
AVT-3463	AVT-3464	AVT-3465	4-40
AVT-3466	AVT-3467	AVT-3468	6-32
AVT-3469	AVT-3470	AVT-3471	8-32
AVT-3472	AVT-3473	AVT-3474	10-32
AVT-3476*	AVT-3477	AVT-3478	1/4"-28
AVT-3479	AVT-3480	AVT-3481	1/4"-20

*Aluminum only.



RIVETNUT Driver Kit:

Driver, 6-32, 8-32 & 10-32 Large Flange Alum. RIVETNUTS (25 each), Two Nosepieces w/Conversion Kits & Molded Plastic Case

Part Number	Description
AVT-3482	Complete 81 PC Kit

Notcher/Key Seating Tools



AVT-3483

*3/32" Alum. & 1/32"
Steel Capacity*

Note: Extra blades should be ordered with tool.

Part Number	For Use With	Size
AVT-3483	Flat Head Rivnuts	#4
AVT-3485	100° Countersunk & Flat Head Rivnuts	#6
AVT-3486	100° Countersunk & Flat Head Rivnuts	#8
AVT-3487	100° Countersunk & Flat Head Rivnuts	#10
AVT-3488	Flat Head Rivnuts	1/4"

Replacement Cutter Blades	For Use With
AVT-3489	#6, 8, 10 & 1/4"
AVT-3491	#4

Aluminum Klik Thread-Sert Kit



Includes:

Thread-Sert Tool, Seven Mandrels, Four Nosepieces, 5/16"-18 & 3/8"-16 Thread-Serts (6 each), 6-32, 8-32, 10-32, 10-24 & 1/4"-20 Thread-Serts (10 each) & Plastic Case

Part Number	Description
AVT-3475	Complete 75 PC Kit

Pneumatic Threaded Insert Driver Kits



AVT-3484

- Automatically threads, installs the fastener & spins out the mandrel.
- Totally adjustable stroke length to suit any grip range.
- Includes swivel air inlet for increased mobility.
- No complicated tear down required to change stroke or thread.

AVT-3484 Includes:

Pneumatic Insert Driver, 6-32 to 1/4"-20 Mandrels & Nosepieces, Extra Driver Base, Accessories & Molded Plastic Case

Part Number	Capacity*	Weight
AVT-3484	4 to 6 mm 6-32 to 1/4"-20	4.9 lbs (2.2 kgs)

AVT-3490 Includes:

Pneumatic Insert Driver, 6-32 to 3/8"-16 Mandrels & Nosepieces, Extra Driver Base, Accessories & Molded Plastic Case

Part Number	Capacity*	Weight
AVT-3490	3.5 to 10 mm 4-40 to 1/2"-20	6 lbs (2.7 kgs)

*In aluminum or steel. Full line of mandrels & nosepieces available, please inquire.

Reversible Ratchet Wrench Assemblies

For Hi-Lok®
& Hi-Light®
Fasteners

Includes
Wrench, Socket
& Hex Key



AVT-3516

Assembly interchangeable
with Hi-Shear® assemblies.

Note: Assembly models AVT-3512 to AVT-3533 for large size collars (3 components).

1/4" Drive (AVT-3492)

Part Number	Socket Hex	Hex Key Size
AVT-3496	3/16"	1/16"
AVT-3498	7/32"	1/16"
AVT-3500	1/4"	1/16"
AVT-3502	9/32"	1/16"
AVT-3504	5/16"	1/16"
AVT-3507	11/32"	1/16"
AVT-3509	7/32"	5/64"
AVT-3511	1/4"	5/64"
AVT-3513	9/32"	5/64"
AVT-3516	5/16"	5/64"
AVT-3517	11/32"	5/64"
AVT-3518	5/16"	3/32"
AVT-3519	11/32"	3/32"
AVT-3521	3/8"	3/32"

3/4" Drive (AVT-3495)

Part Number	Socket Hex	Hex Key Size
AVT-3525	15/16"	1/4"
AVT-3529	1"	1/4"
AVT-3533	1-1/8"	5/16"

3/8" Drive (AVT-3493)

Part Number	Socket Hex	Hex Key Size
AVT-3497	7/16"	3/32"
AVT-3499	1/2"	3/32"
AVT-3501	3/8"	1/8"
AVT-3503	7/16"	1/8"
AVT-3505	1/2"	1/8"
AVT-3508	7/16"	5/32"
AVT-3510	1/2"	5/32"
AVT-3512	3/8"	5/64"
AVT-3514	1/2"	3/32"
AVT-3515	1/2"	1/8"

1/2" Drive (AVT-3494)

Part Number	Socket Hex	Hex Key Size
AVT-3520	9/16"	1/8"
AVT-3522	9/16"	5/32"
AVT-3523	9/16"	3/16"
AVT-3524	5/8"	5/32"
AVT-3526	11/16"	5/32"
AVT-3530	11/16"	7/32"
AVT-3534	3/4"	3/16"
AVT-3537	7/8"	7/32"

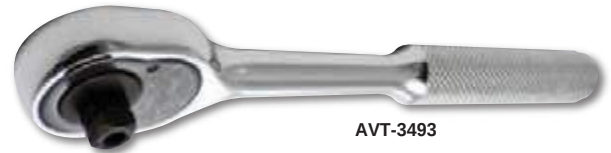
Mini Reversible Ratchet Wrench



Compact & low profile for better maneuverability in tight areas.

Part Number	Square Drive	Head Width	Side To Center	Head Height	Overall Length
AVT-3549	1/4"	0.92"	0.46"	0.40"	4.60" (11.7 cm)

Reversible Ratchet Wrenches



AVT-3493

72 tooth spindle engages ratchet in only 5° of handle movement.

Part Number	Square Drive	Head Width	Side To Center	Head Height	Overall Length
AVT-3492	1/4"	15/64"	1/4"	3/8"	5" (12.7 cm)
AVT-3493	3/8"	1-1/4"	3/8"	1/2"	7" (17.8 cm)
AVT-3494	1/2"	1-3/4"	1/2"	0.687"	10" (25.4 cm)
AVT-3495	3/4"	2-5/8"	3/4"	1-1/8"	20" (50.8 cm)

Tilting Head Reversible Ratchet Wrench



90 Degree Head Tilt

Tilting head is perfect for maneuvering in limited access areas.

Part Number	Square Drive	Head Width	Side To Center	Head Height	Overall Length
AVT-3506	1/4"	0.90"	0.45"	0.40"	6-1/4" (15.9 cm)

Hi-Lok® & Hi-Lite® Installation Sockets



AVT-3531



AVT-3547

- For the installation of Hi-Lok® & Hi-Lite® fasteners.
- Anti-FOD set screw provides positive square drive engagement.

1/4" Drive Socket

Part Number	Hex
AVT-3527	3/16"
AVT-3531	7/32"
AVT-3535	1/4"
AVT-3538	9/32"
AVT-3541	5/16"
AVT-3542	11/32"
AVT-3543	3/8"

1/2" Drive Socket

Part Number	Hex
AVT-3528	9/16"
AVT-3532	5/8"
AVT-3536	11/16"
AVT-3539	3/4"
AVT-3540	7/8"

3/4" Drive Socket

Part Number	Hex
AVT-3544	15/16"
AVT-3545	1"
AVT-3546	1-1/8"

3/8" Drive Socket

Part Number	Hex
AVT-3547	3/8"
AVT-3548	7/16"
AVT-3550	1/2"

HI-SHEAR INSTALLATION & REMOVAL

Hex Drivers



- General use & production assembly using socket screw products.
- Includes adjustable, replaceable Allen bit & bit change key.

NOTE: For more hex drivers, keys & sets see pages 161-162.

Part Number	Key Size	Part Number	Key Size
AVT-3551	.028"	AVT-3552	7/64"
AVT-3553	1/16"	AVT-3554	1/8"
AVT-3556	5/64"	AVT-3555	9/64"
AVT-3557	3/32"		

'Tight Squeeze' Installation Tool Assemblies

Single-Handed Operation



AVT-3583 Tool Only

- Newly designed, full function Hi-Lok® and Hi-Lite® installation tool.
- Unique profile for operation in tight spots and around corners.
- Toothless ratcheting system for quick tool engagement.

Part Number	Socket Size	Hex Key Size
AVT-3564	7/32"	1/16"
AVT-3565	1/4"	1/16"
AVT-3566	9/32"	1/16"
AVT-3567	5/16"	1/16"
AVT-3568	9/32"	5/64"
AVT-3569	5/16"	5/64"
AVT-3570	11/32"	5/64"
AVT-3571	7/16"	5/64"
AVT-3574	5/16"	3/32"
AVT-3577	11/32"	3/32"
AVT-3580	7/16"	3/32"
AVT-3583*	—	—

*Tool only - applicable sockets on previous page and 'Tight Squeeze' hex keys below.



Replacement 'Tight Squeeze' Hex Keys	
Part Number	Key Size
AVT-3592	1/16"
AVT-3593	5/64"
AVT-3598	3/32"

Roller Ratchet Installation Tools

Single Head Type



Quick Ratchet Engagement

- Ideal for installing Hi-Lok® & other fasteners in confined areas.
- Uses standard drive sockets & Hi-Shear® style set screw sockets.
- Allen wrench through hole for Hi-Lock® & Hi-Lite® pins.

1/4" Square Drive			
Part Number	Max. Torque	Head Height	Overall Length
AVT-3558	150 in-lbs	0.91"	3-1/2" (89 mm)
AVT-3559	150 in-lbs	0.91"	6" (152 mm)
AVT-3560	200 in-lbs	1.37"	6" (152 mm)
AVT-3561	250 in-lbs	0.92"	7" (178 mm)

3/8" Square Drive			
Part Number	Max. Torque	Head Height	Overall Length
AVT-3562	400 in-lbs	1.21"	8" (203 mm)
AVT-3563	600 in-lbs	1.21"	9" (229 mm)

Double Box Ratchet Wrenches



AVT-3575



AVT-3579

- Perfect for installing Hi-Lok® fasteners in tight areas.
- Shoulder ring prevents collar from slipping through the socket.
- Optional ejector pin quickly discards removed collar.

Note: All tools are 3/8" thick except AVT-3586 (5/16" thick).

Standard Models				
Straight	25° Offset	Hex #1	Hex #2	Overall Length
AVT-3572	AVT-3573	7/32"	1/4"	4-3/32" (104 mm)
AVT-3575	AVT-3576	1/4"	9/32"	4-3/32" (104 mm)
AVT-3578	AVT-3579	5/16"	11/32"	4-3/32" (104 mm)
AVT-3581	AVT-3582	5/16"	3/8"	5-7/32" (133 mm)
AVT-3584	AVT-3585	7/16"	1/2"	5-7/32" (133 mm)

Ejector Models				
Straight	25° Offset	Hex #1	Hex #2	Overall Length
AVT-3586	AVT-3587	7/32"	1/4"	4-3/32" (104 mm)
AVT-3588	AVT-3589	1/4"	9/32"	4-3/32" (104 mm)
AVT-3590	AVT-3591	5/16"	11/32"	4-3/32" (104 mm)
AVT-3594	AVT-3595	5/16"	3/8"	5-7/32" (133 mm)
AVT-3596	AVT-3597	7/16"	1/2"	5-7/32" (133 mm)

'Savi-Socket' Collar Removal Sockets

High Strength, Heat-Treated Tool Steel

Made In
The USA



AVT-3629

Corrosion
Resistant
Coating

- Conical/tapered shape with helical teeth to quickly remove Hi-Lok®, Hi-Lite®, Eddie Bolt® and Huck® threaded collars.
- Socket is firmly drawn onto the collar, removing it with minimal wear and effort - all without jamming the collar into the socket.
- For use on aluminum, steel, titanium and all coated collars.
- Anti-FOD set screw for positive retention.

1/4" Square Drive			
Part Number	Nominal Collar Size	Collar 'Dash' Number	Top Of Collar Diameter*
AVT-3601	5/32" EB	5 EB	0.21" (5.5 mm)
AVT-3602	5/32", 3/16" EB	5, 6 EB	0.24" (6.2 mm)
AVT-3604	5/32"	5	0.25" (6.5 mm)
AVT-3605	5/32", 3/16"	5, 6	0.26" (6.7 mm)
AVT-3606	5/32", 3/16"	5, 6	0.27" (7.0 mm)
AVT-3608	3/16"	6	0.28" (7.2 mm)
AVT-3609	3/16"	6	0.29" (7.5 mm)
AVT-3610	1/4", 1/4" EB	8, 8 EB	0.32" (8.2 mm)
AVT-3611	1/4"	8	0.33" (8.5 mm)
AVT-3612	1/4"	8	0.34" (8.7 mm)
AVT-3613	1/4"	8	0.35" (9.0 mm)
AVT-3614	1/4"	8	0.36" (9.2 mm)
AVT-3615	1/4"	8	0.37" (9.5 mm)
AVT-3616	5/16" EB	10 EB	0.39" (10.0 mm)

3/8" Square Drive			
Part Number	Nominal Collar Size	Collar 'Dash' Number	Top Of Collar Diameter*
AVT-3617	5/16"	10	0.43" (11.0 mm)
AVT-3618	5/16"	10	0.45" (11.5 mm)
AVT-3619	5/16"	10	0.47" (12.0 mm)
AVT-3620	5/16"	10	0.50" (12.7 mm)
AVT-3623	3/8"	12	0.51" (13.0 mm)
AVT-3626	3/8"	12	0.55" (14.0 mm)
AVT-3629	3/8"	12	0.56" (14.3 mm)
AVT-3632	7/16"	14	0.59" (15.0 mm)
AVT-3634	7/16"	14	0.63" (16.0 mm)

1/2" Square Drive			
Part Number	Nominal Collar Size	Collar 'Dash' Number	Top Of Collar Diameter*
AVT-3635	1/2"	16	0.67" (17.0 mm)
AVT-3636	1/2"	16	0.69" (17.5 mm)

*Collar opening diameter where socket just fits over the top of the collar.

'Savi-Socket' Collar Removal Socket Sets

Convenient Sets Of The
Most Popular Sizes



AVT-3603

*See reference chart on left for individual collar specifications.

4PC Eddie Bolt® Set - 1/4" Square Drive		
Part Number	Included Sockets*	Dash Size
AVT-3599	AVT-3601, 24, 32 & 39	-5, -6, -8 & -10

12PC Hi-Lok® & Hi-Lite® Set - 1/4" Square Drive		
Part Number	Included Sockets*	Dash Size
AVT-3600	AVT-3602 to 29 & AVT-3610 to 37	-5, -6 & -8

6PC Hi-Lok® Set - 1/4" Square Drive		
Part Number	Included Sockets*	Dash Size
AVT-3603	AVT-3604, 26, 28, 29, 36 & 37	-5, -6 & -8

6PC Hi-Lok® & Hi-Lite® Large Size Set - 3/8" Square Drive		
Part Number	Included Sockets*	Dash Size
AVT-3607	AVT-3617, 45, 50, 51, 55 & 56	-10 & -12

Frangible Collar Removal Sockets

3581
Series



AVT-3627



AVT-3630

- Removes Hi-Lok, Hi-Lite and Eddie Bolt fastener collars.
- Innovative design features six-start, left hand internal threads.
- Hardened tool steel sockets have a female square drive and external hex drive - can be used with hand or air ratchets.
- Immediate collar engagement with minimal downforce.
- For use on aluminum, stainless steel and titanium collars.

1/4" Sq. Drive - 7/16" Ext. Hex		
Part Number	Collar Size	Dash Size
AVT-3621	5/32"	-5
AVT-3624	3/16"	-6
AVT-3627	1/4"	-8
AVT-3630	5/16"	-10

3/8" Sq. Drive - 3/4" Ext. Hex		
Part Number	Collar Size	Dash Size
AVT-3622	3/8"	-12
AVT-3625	7/16"	-14
AVT-3628	1/2"	-16
AVT-3631	9/16"	-18
AVT-3633	5/8"	-20

NEW



AVT-3637

Part Number	Description
AVT-3637	Set of 4 (-5, -6, -8 & -10)

HI-SHEAR INSTALLATION & REMOVAL

Hi-Lok® & Eddie-Bolt® Collar Removal Sockets



-5 to -8 Style



-10 to -14 Style

- Driven with hand or pneumatic tools with a 3/8" square drive.
- Sockets 'bite' into the collar allowing it to be unscrewed.

Note: -8 requires plier loosening prior to removal (pliers avail. below right & next page).

Part Number	Nominal Pin Diameter	Part Number	Nominal Pin Diameter
AVT-3638	5/32"	AVT-3639	5/16"
AVT-3640	3/16"	AVT-3641	3/8"
AVT-3642	1/4"	AVT-3643	7/16"

K-Fast® 8-Spline Installation & Removal Sockets



*Tamper
Proof*

- Uses standard square drive ratchet wrenches.
- For Kaynar KFN fasteners (Airbus aircraft, A10 Thunderbolt etc.).

1/4" Square Drive		1/2" Square Drive	
Part Number	Size	Part Number	Size
AVT-3650	#8	AVT-3651	7/16"
AVT-3653	#10	AVT-3654	1/2"
AVT-3655	1/4"	AVT-3656	9/16"
		AVT-3658	5/8"

3/8" Square Drive	
Part Number	Size
AVT-3662	5/16"
AVT-3663	3/8"

Thd. Shank Huck® & Hi-Shear® Collar Removers

*Four-Flute
H.S.S.*



- Cleanly cut off swaged collar of Huck® & Hi-Shear® type fasteners.
- Internal stop prevents contact with the work surface.

Note: 1/4"-28 thread. For use with microstop countersink cages.

Part Number	Fastener Size	Overall Dia.	Part Number	Fastener Size	Overall Dia.
AVT-3664	3/32" HS47	.365"	AVT-3665	3/16" L6	.323"
AVT-3666	1/8" HS47	.365"	AVT-3667	1/4" L8	.413"
AVT-3668	5/32" HS47	.365"	AVT-3669	1/4" OS8	.372"
AVT-3670	3/16" HS47	.438"	AVT-3671	5/16" L10	.528"
AVT-3672	1/4" HS47	.500"	AVT-3673	5/16" OS10	.465"
AVT-3675	5/16" HS47	.562"	AVT-3674	3/8" OS12	.465"
AVT-3676	3/8" HS47	.625"			

Hi-Shear® Six-Wing Collar Removal Assemblies



Straight Handle, Only 3/8" Thick

Standard Socket

AVT-3644

- Tapered splines developed specifically for six-wing collars.
- Removes collar while preventing collar re-use or re-installation.
- Assemblies include box ratchet handle and drive socket.

Standard Socket, 4-1/4" Overall Length					
Complete Assembly	Socket Only	Pin Dash	Pin Size	Socket Length	Socket Dia.
AVT-3644	AVT-3645	-5	5/32"	1/2"	.35"
AVT-3646	AVT-3647	-6	3/16"	1/2"	.35"
AVT-3648	AVT-3649	-8	1/4"	1/2"	.47"

Frangible Collar Hand Removal Tools



AVT-3652

- Slips down over Hi-Lok® or similar collar and gently unscrews.
- Clean removal in limited access areas with no cutting or prying.

Part Number	Pin Dash Number	Nominal Pin Dia.	Head Width	Overall Length
AVT-3652	-5	5/32"	.42"	5.6" (142 mm)
	-6	3/16"	.42"	
AVT-3657	-8	1/4"	.55"	5.8" (147 mm)
AVT-3659	-10	5/16"	.67"	6.9" (175 mm)
AVT-3660	-12	3/8"	.75"	7.9" (200 mm)
AVT-3661	-14	7/16"	.95"	9.9" (251 mm)

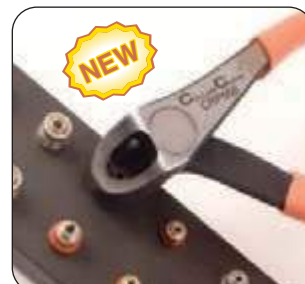
Collar Claw Removal Tool



This revolutionary tool fits over collars like a socket leaving plenty of clearance between fasteners and easy access for hex keys if needed.

- Ergonomic, gentle squeeze action with up to 250 in-lb of torque.
- For use with any threaded collar: Hi-Lite/Lok & Threaded Huck (-5 to -8), Eddie Bolt (-5 to -10) as well as standard nuts and fasteners.

Part Number	Overall Length
AVT-3677	7" (178 mm)



Hi-Lok® & Hi-Tique® Collar Removal Assemblies



Great For Limited Access Areas

These low profile tools can be driven directly with a standard hand ratchet, or fitted to an extension for deeper access in tight spots.

Note: Open end "crow foot" and other styles also available, please inquire.

1/4" Square Drive - 90° Offset				
Part Number	Size	'A' Height	'B' Width	'C' Overall Length
AVT-3682	3/16"	0.35"	0.56"	1.1" (28 mm)
AVT-3683	1/4"	0.35"	0.67"	1.2" (30 mm)

3/8" Square Drive - 90° Offset				
Part Number	Size	'A' Height	'B' Width	'C' Overall Length
AVT-3684	5/16"	0.40"	0.79"	1.5" (38 mm)
AVT-3685	3/8"	0.50"	0.90"	1.6" (41 mm)
AVT-3686	7/16"	0.63"	1.17"	2.1" (53 mm)
AVT-3687	1/2"	0.63"	1.26"	2.3" (58 mm)

Hi-Lok® & Hi-Tique® Collar Removal Tool Kit



Provides close quarter tools to remove Hi-Lok® & Hi-Tique® collars.

Kit Includes:

Six 90° Offset Collar Removal Tools (3/16", 1/4", 5/16", 3/8", 7/16" & 1/2"), 1/4" Drive Breaker Bar (5-3/4" L), 3/8" Drive Breaker Bar (10" L), Two 3" Drive Extensions (1/4" & 3/8") & Fitted Plastic Carrying Case

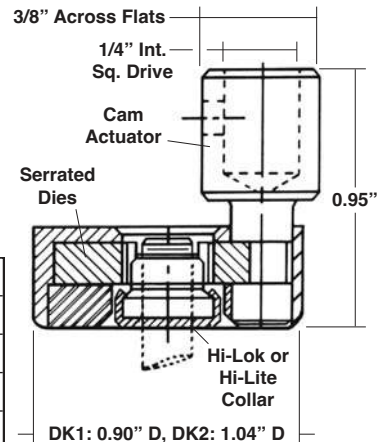
Part Number	Description
AVT-3692	Complete 10 PC Kit

DK Series Hi-Lok® & Hi-Lite® Collar Rem. Tools



Great For Limited Access Areas

Remove Hi-Lok® & Hi-Lite® collars with or without captive washers.



Part No.	Collar Dia. Range
AVT-3678	.239" to .262"
AVT-3679	.269" to .290"
AVT-3680	.332" to .350"
AVT-3681	.370"

Note: Use with 1/4" male square drive or 3/8" open end wrench (not included).

Hi-Lok® Collar Removal Pliers



Diamond cut jaws for a patterned grip on fasteners from any angle.

Part Number	Capacity	Overall Length
AVT-3688	Up to 5/16"	7-3/8" (187 mm)

Hi-Lok® Collar Removal Pliers



Hot Forged Construction

- Quick & inexpensive alternative for removing frangible hex collars such as Hi-Lok®, Hi-Lite®, Hi-Tique®, Veri-Lite® and C-Lok®.
- Hardened steel jaws designed to maximize gripping surface.

Part Number	Style	Capacity	Overall Length
AVT-3689	Standard	5/32", 3/16", 1/4" & 5/16"	7-3/8" (187 mm)
AVT-3690	Offset		6-1/2" (165 mm)
AVT-3691	Standard	5/16", 5/8" & 3/4"	9" (229 mm)



Ergonomic Offset Model

Ergonomic design with a 42° offset for better leverage.

Part Number	Style	Capacity	Overall Length
AVT-3693	Ergo Offset	5/16", 5/8" & 3/4"	8-1/4" (210 mm)

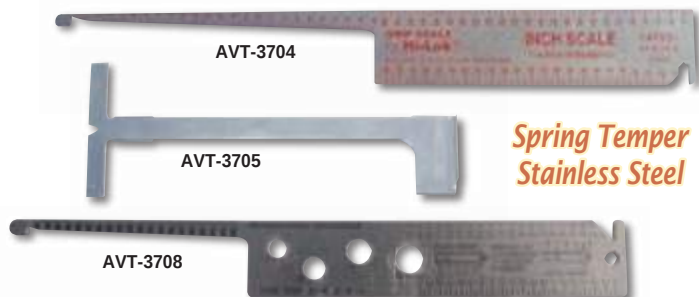
HI-SHEAR INSTALLATION & REMOVAL

Pin Protrusion Gauges



Part Number	Type	Included Sizes
AVT-3694	Hi-Lok® Standard	-5, -6, -8, -10 & -12
AVT-3695	Hi-Lite® Standard	
AVT-3696	Hi-Lok® Aerospace 'B'	
AVT-3697	Hi-Lite® Aerospace 'B'	
AVT-3698	Hi-Lok® / Hi-Tigue® Metric	4, 5, 6, 8, 10 & 12 mm
AVT-3701	Hi-Lite® Metric	
AVT-3702	Hi-Lok® Large Diameter	-14, -16, -18, -20 & -24
AVT-3703	Hi-Lite® Large Diameter	-14, -16, -18 & -20

Grip Gauges



Part Number	Description
AVT-3704	1/16" Increments To 3", 1 mm Increments To 75 mm
AVT-3705	Grip Gauge Slide (to assure a more accurate grip reading, for gauge AVT-3704 above)
AVT-3706	Grip Gauge Assembly (incl. AVT-3704 & AVT-3705 above)
AVT-3707	For Visu-Lok® Jo-Bolt® Fasteners
AVT-3708	For Composi-Lok® Fasteners

Hi-Lok® Fastener Ratchet Extensions



- Continuous through-hole for hex key insertion. AVT-3710
- Set screw secures extension to ratchet.

Part Number	Drive	Overall Length
AVT-3709	1/4"	2" (51 mm)
AVT-3710	3/8"	3" (76 mm)
AVT-3711	1/4"	4" (102 mm)

Rivet Stem Shaver



- Unique tool shaves corebolt breakoffs on Composi-Lok®, Visu-Lok®, Radial-Lok® & OSI-Bolt® fasteners with a swift, 30,000 RPM 'slicing' action.
- Precision setup with depth adjustment gauge.
- Long lasting abrasive cutting discs for smooth, uninterrupted cuts.

Rivet Stem Shaver	Replacement Cutting Disc	Free RPM	Depth Adj.	Weight
AVT-3699	AVT-3700	30,000	0.001"	1.25 lbs (0.6 kgs)

Reversible Ratchet Wrench Installation Kit



Install Hi-Lite®, Hi-Lok® & Hi-Tigue® pin and collar combinations.

Kit Includes:

Nine Ratchet Assemblies (5/16" x 1/16", 5/16" x 5/64", 11/32" x 5/64", 11/32" x 3/32", 7/16" x 3/32", 7/16" x 1/8", 1/2" x 5/32", 9/16" x 3/16" & 11/16" x 7/32"), Two Flat Box Ratchets (5/16" x 11/32" & 7/16" x 1/2"), Three T-Handle Hex Keys (5/32", 3/16" & 7/32"), Six Hex Drivers (1/16", 2X 5/64", 2X 3/32" & 1/8"), Grip Gauge, Pin Protrusion Gauge Set & Fitted Plastic Carrying Case

Part Number	Description
AVT-3712	Complete 22 PC Kit

Hi-Lok® Installation & Removal Kits

Other Tool Kits Available, Please Inquire



AVT-3714

Deluxe Ratchet & Socket Kit:

1/4" & 3/8" Drive Reversible Ratchets, Ten Sockets (3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16" & 1/2"), 1/16" Hex Key, Four T-Hex Keys (5/64", 3/32", 1/8" & 5/32"), Two Extensions (2" & 3") & Fitted Plastic Case

Part Number	Description
AVT-3714	Complete 20 PC Kit



AVT-3716

Ratchet & Socket Kit:

1/4" Drive Reversible Ratchet, Seven Sockets (3/16", 7/32", 1/4", 9/32", 5/16", 11/32" & 3/8"), Two Extensions (2" & 4"), 1/16" Hex Key, Two T-Hex Keys (5/64" & 3/32") & Fitted Plastic Case

Part Number	Description
AVT-3716	Complete 14 PC Kit

Hi-Lok® Installation & Removal Kits (cont'd)



AVT-3713

Deluxe Roller Clutch Ratchet Kit:

Two 1/4" Drive Wrenches (1 installation, 1 removal), Six Hex Installation Wrenches (7/32", 1/4", 5/16", 11/32", 3/8" & 7/16"), Diamond Cut Removal Pliers & Fitted Plastic Case

Part Number	Description
AVT-3713	Complete 10 PC Kit

'Liberator' Ratchet Set



*Includes
Fitted
Plastic
Case*

AVT-3715

- 90° & 360° ratchet heads are great for confined spaces.
- Various length handles accept 1/4"-28 bits & countersinks.
- Threaded 1/4" drive socket adapter for multi-function ratchet use.

Part Number	Description
AVT-3715	Complete 12 PC Kit

HI-SHEAR INSTALLATION & REMOVAL

Hi-Lok® Pneumatic Installation & Removal Kit



Kit includes:

AVT-3739

Pneumatic 1/4" Square Drive Ratchet (with through hole), Nine Hi-Lok® Sockets (5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8" & 7/16"), Four Hi-Lok® Collar Removal Sockets (5/32", 3/16", 1/4" & 5/16") Three Hex Keys (1/16", 5/64" & 3/32") & Fitted Plastic Case

Part Number	Description
AVT-3739	Complete 18 PC Kit

AVITORQ TOOL REPAIR

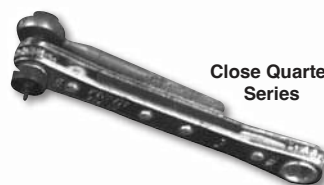
For repair enquiries, provide the maker, model and fault details.
Confirm service arrangements with AVITORQ before sending a tool.

Jo-Bolt® & Visu-Lok® Installation Hand Tools



Standard Series

Standard Ratchet Hand Tools (includes driver assembly)				
Part No. Flush	Part No. Protruding	Part No. Millable	Part No. Reduced Flush	Driver Assembly
AVT-3717	AVT-3718	AVT-3719	AVT-3720	-5 (5/32")
AVT-3721	AVT-3722	AVT-3723	AVT-3724	-6 (3/16")
AVT-3725	AVT-3726	AVT-3727	AVT-3728	-8 (1/4")
AVT-3729	AVT-3730	—	AVT-3731	-10 (5/16")
AVT-3732	AVT-3733	—	AVT-3734	-12 (3/8")

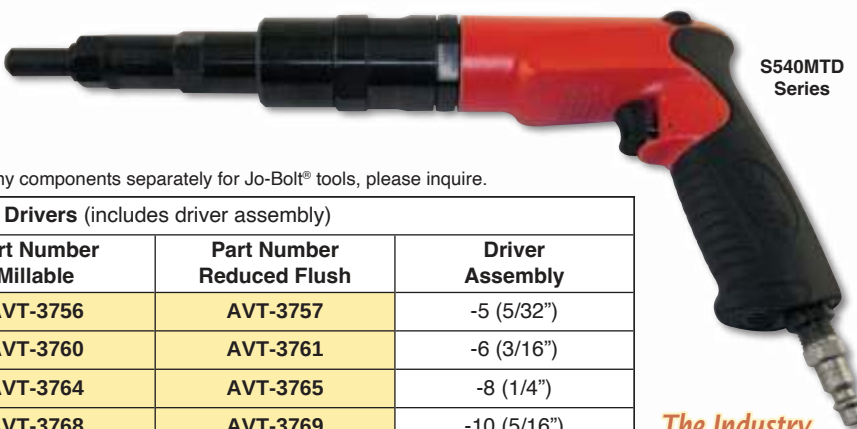


Close Quarter Series

Close Quarter Ratchet Hand Tools (includes driver assembly)				
Part No. Flush	Part No. Protruding	Part No. Millable	Part No. Reduced Flush	Driver Assembly
AVT-3735	AVT-3736	AVT-3737	AVT-3738	-5 (5/32")
AVT-3740	AVT-3741	AVT-3742	AVT-3743	-6 (3/16")
AVT-3744	AVT-3745	AVT-3746	AVT-3747	-8 (1/4")
AVT-3748	AVT-3749	—	AVT-3750	-10 (5/16")
AVT-3751	AVT-3752	—	AVT-3753	-12 (3/8")

Pneumatic Installation Tools For Jo-Bolt®, Visu-Lok® & Composi-Lok® Fasteners

Specifically designed for the installation of 5/32" to 3/8" Jo-Bolt®, Visu-Lok®, Visu-Lok II®, Composi-Lok® & Composi-Lok II® blind bolts.



S540MTD Series

Note: For more detailed information and/or assistance in ordering any components separately for Jo-Bolt® tools, please inquire.

Pistol Grip Master Torque Drivers (includes driver assembly)				
Part Number Flush	Part Number Protruding	Part Number Millable	Part Number Reduced Flush	Driver Assembly
AVT-3754	AVT-3755	AVT-3756	AVT-3757	-5 (5/32")
AVT-3758	AVT-3759	AVT-3760	AVT-3761	-6 (3/16")
AVT-3762	AVT-3763	AVT-3764	AVT-3765	-8 (1/4")
AVT-3766	AVT-3767	AVT-3768	AVT-3769	-10 (5/16")
AVT-3770	AVT-3771	AVT-3772	AVT-3773	-12 (3/8")

The Industry Standard

Lever Grip Torque Responsive Adapters (includes driver assembly)				
Part No. Flush	Part No. Protruding	Part No. Millable	Part No. Reduced Flush	Driver Assembly
AVT-3774	AVT-3775	AVT-3776	AVT-3777	-5 (5/32")
AVT-3782	AVT-3783	AVT-3784	AVT-3785	-6 (3/16")
AVT-3790	AVT-3791	AVT-3792	AVT-3793	-8 (1/4")

Lever Grip Close Quarter Tools (includes driver assembly)				
Part No. Flush	Part No. Protruding	Part No. Millable	Part No. Reduced Flush	Driver Assembly
AVT-3778	AVT-3779	AVT-3780	AVT-3781	-5 (5/32")
AVT-3786	AVT-3787	AVT-3788	AVT-3789	-6 (3/16")
AVT-3794	AVT-3795	AVT-3796	AVT-3797	-8 (1/4")

Visu-Lok® Tool Kits



AVT-3805

Visu-Lok® Ratchet Hand Tool Kit:

HW300 Ratchet Hand Tool, Fastener Drivers (-5, -6, -8, -10 & -12), Flush Nose (-5, -6, -8, -10 & -12), Protruding Nose (-5, -6, -8, -10 & -12), Millable Nose (-5, -6 & -8), Reduced Flush Nose (-5, -6, -8, -10 & -12), Visu-Lok® Grip Gauge & Tool Box

Part Number	Description
AVT-3798	Complete 26 PC Kit

Visu-Lok® Right Angle Torque Responsive Kit:

7440M Complete Driver Assembly, Fastener Drivers (-5, -6 & -8), Flush Nose (-5, -6 & -8), Protruding Nose (-5, -6 & -8), Millable Nose (-5, -6 & -8), Reduced Flush Nose (-5, -6 & -8), Visu-Lok® Grip Gauge & Tool Box

Part Number	Description
AVT-3800	Complete 18 PC Kit

Visu-Lok® Pistol Grip Master Torque Driver Kit:

S540MTD Pneumatic Motor, PT Nose (flush & protruding), Flush Nose (-5, -6, -8 & -10), Protruding Nose (-5, -6 & -8), Millable Nose (-5, -6, -8 & -10), Visu-Lok® Grip Gauge & Tool Box

Part Number	Description
AVT-3802	Complete 16 PC Kit

Visu-Lok® Flush & Protruding Ratchet Hand Tool Kit:

HW300 Ratchet Hand Tool, HW100 & HW400 Close Quarter Tools, Fastener Drivers (-5, -6, -8 & -10), Flush Nose (-5, -6, -8 & -10), Protruding Nose (-5, -6, -8 & -10), Close Quarter Flush Nose (-5, -6, -8 & -10), Close Quarter Protruding Nose (-5, -6, -8 & -10), Close Quarter Millable Nose (-5, -6, -8 & -10) & Visu-Lok® Grip Gauge

Part Number	Description
AVT-3804	Complete 28 PC Kit

Visu-Lok® Flush & Protruding Ratchet Hand Tool Kit:

HW300 Ratchet Hand Tool, Fastener Drivers (-5, -6 & -8), Flush Nose (-5, -6 & -8), Protruding Nose (-5, -6 & -8) & Visu-Lok® Grip Gauge

Part Number	Description
AVT-3805	Complete 11 PC Kit

Composi-Lok® Tool Kits

Convenient & Versatile



AVT-3799

Composi-Lok® Right Angle Master Torque Driver Ass'y Kit:

7440M-BF Complete Driver Assembly, MTD502-BF Master Torque Driver, Fastener Drivers (-5, -6 & -8), Flush Nose (-5, -6 & -8), Protruding Nose (-5, -6 & -8), Reduced Flush Nose (-5, -6 & -8), Composi-Lok® Grip Gauge & Tool Box

Part Number	Description
AVT-3799	Complete 16 PC Kit

Composi-Lok® Pistol Grip Master Torque Driver Kit:

S540MTD-BF Pneumatic Motor, Fastener Drivers (-5, -6, -8, -10 & -12), Flush Nose (-5, -6, -8, -10 & -12), Protruding Nose (-5, -6, -8, -10 & -12), Reduced Flush Nose (-5, -6, -8, -10 & -12), Two Composi-Lok® Grip Gauges & Tool Box

Part Number	Description
AVT-3801	Complete 24 PC Kit

Composi-Lok® Ratchet Hand Tool Kit:

HW300 Ratchet Hand Tool, HW100 & HW400 Close Quarter Tools, Fastener Drivers (-5, -6, -8 & -10), Protruding Wrench Adapters (-7 & -8), Flush Nose (-5, -6, -7, -8, -9 & -10), Protruding Nose (-5, -6, -7, -8, -9 & -10), Close Quarter Fastener Drivers (-5, -6, -7, -8, -9 & -10), Close Quarter Flush Nose (-5, -6, -7, -8, -9 & -10), Close Quarter Protruding Nose (-5, -6, -7, -8, -9 & -10) & Two Composi-Lok® Grip Gauges

Part Number	Description
AVT-3803	Complete 41 PC Kit

Composi-Lok® Ratchet Hand Tool Kit:

HW300 Ratchet Hand Tool, HW100 & HW400 Close Quarter Tools, Wrench Adapters (-5, -6, -7, -8 & -10), Three Universal Nose Tips (for -5 to -12), Three Nose Tip Connectors (for -5 to -12), Close Quarter Wrench Adapters (-5, -6, -7, -8 & -10), Three Close Quarter Nose Tip Connectors (for -5 to -12) & Two Composi-Lok® Grip Gauges

Part Number	Description
AVT-3806	Complete 24 PC Kit

HI-SHEAR INSTALLATION & REMOVAL

Hi-Shear® Pistol Grip Pneumatic Inst. Tooling



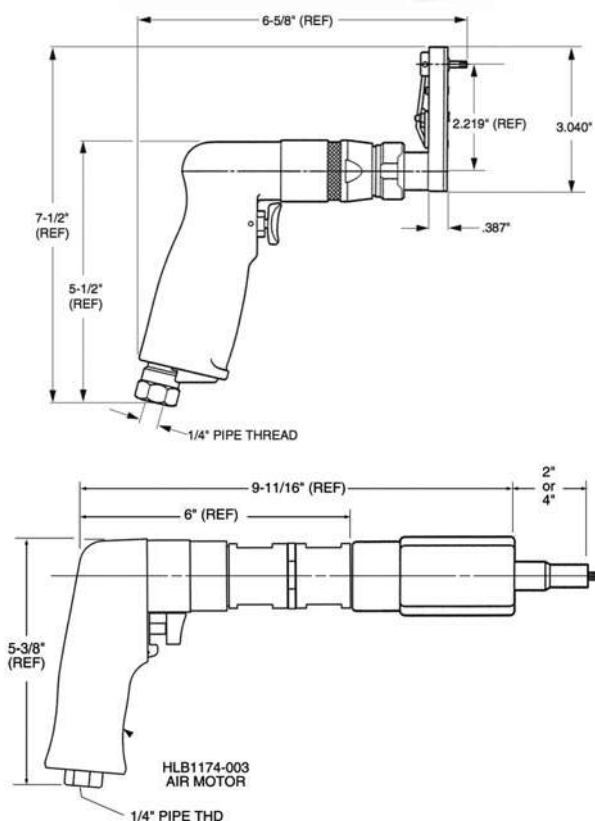
HLA1051

*Straight Driver Assembly
With Extended Socket And
Super Key (T-Series)*



AVT-3809

*Offset Mini Driver Assembly
With Thin Flush Socket And
Super Key (T-Series)*



Specifications		
Tool	AVT-3809	AVT-3810
Operating Pressure	90 PSIA	90 PSIA
Max. Torque Rating	60 in-lbs @ 90 PSIA	300 in-lbs @ 90 PSIA
Socket Speed	500 RPM	250 RPM
Horsepower	0.20 HP (0.15 kW)	0.70 HP (0.52 kW)
Air Consumption	20 SCFM	22 SCFM
Weight	2.0 lbs (0.9 kgs)	3.8 lbs (1.7 kgs)

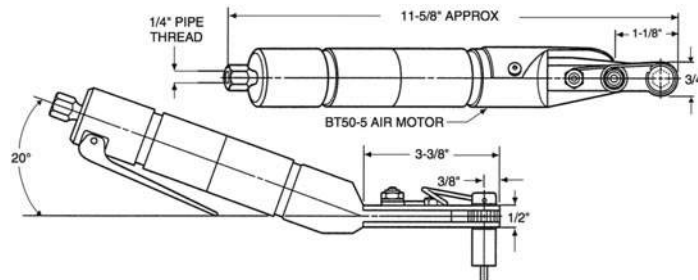
For additional ordering information and assistance, or to order specific assembly components where applicable, please inquire.

Hi-Shear® Lever Grip Pneumatic Inst. Tooling



AVT-3807

*20° Offset Ratchet Wrench Driver Assembly With
Multi-Length Socket And Super Key (T-Series)*

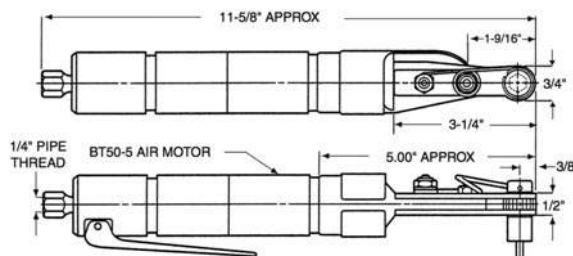


AVT-3807 Available Socket Lengths						
1/2"	1"	1-1/2"	2"	3/4"	1-3/4"	4"



AVT-3808

*Straight Ratchet Wrench Driver Assembly With
Multi-Length Socket And Super Key (T-Series)*



AVT-3808 Available Socket Lengths						
1/2"	1"	1-1/2"	2"	3/4"	1-3/4"	4"

Specifications		
Tool	AVT-3807	AVT-3808
Operating Pressure	90 PSIA	90 PSIA
Max. Torque Rating	110 in-lbs @ 90 PSIA	110 in-lbs @ 90 PSIA
Socket Speed	250 RPM	250 RPM
Horsepower	0.50 (0.35 kW)	0.50 HP (0.35 kW)
Air Consumption	22 SCFM	22 SCFM
Weight	2.0 lbs (0.9 kgs)	2.0 lbs (0.9 kgs)

For additional ordering information and assistance, or to order specific assembly components where applicable, please inquire.

AVITORQ HI-SHEAR® TOOLING

AVITORQ offers a full selection of Hi-Shear® pneumatic tools and accessories that are too numerous to list here. If you don't see what you are looking for please contact us for assistance.

JET® Impact Wrenches


*Includes
Bumper Guards*

- Lightweight aluminum construction reduces weight.
- One hand forward/reverse button for easy adjustments.
- The inline AVT-3812 features a single hammer clutch mechanism, pistol grip AVT-3813 a powerful pin clutch hammer mechanism.

Note: Air Inlet 1/4" NPT - use 3/8" (9.5 mm) air hose.

3/8" Capacity Inline, 3/8" Square Drive					
Part No.	Torque Range	RPM	BPM	O.A.L.	Weight
AVT-3812	5 to 50 ft-lbs (75 ft-lbs max.)	12,000	700	5-7/8" (149 mm)	2.0 lbs (0.91 kgs)

1/2" Capacity Pistol Grip, 1/2" Square Drive					
Part No.	Working Torque	RPM	BPM	O.A.L.	Weight
AVT-3813	50 to 200 ft-lbs (250 ft-lbs max.)	7000	600	7-1/4" (184 mm)	5.0 lbs (2.27 kgs)

Master Power® Inline Impact Wrench


Full Power Forward & Reverse

- Butterfly throttle & swivel air inlet.
- Built-in power regulator with 4 settings for varying torque output.

Note: Air Inlet 1/4" NPT - use 1/4" (6.4 mm) air hose. Rated @ 90 psi.

3/8" Capacity, 3/8" Square Drive					
Part No.	Torque Range	RPM	BPM	O.A.L.	Weight
AVT-3815	40 to 50 ft-lbs	10,500	900	7" (mm)	2.2 lbs (1.0 kgs)

JET® Stubby Impact Wrench


*Lightweight
& Durable*

*Easy Touch
Teasing Trigger*

*Deliver More Torque
In Tighter Spaces*

- Lightweight yet high impact resistant composite housing.
- Unmatched balance to reduce fatigue over long usage.
- Easy, one handed side-to-side forward/reverse toggle.
- Comfortable non-slip molded rubber handle.

Note: Air Inlet 1/4" NPT - use 3/8" (9.5 mm) air hose.

3/8" Capacity, 3/8" Square Drive					
Part No.	Torque Range	RPM	BPM	O.A.L.	Weight
AVT-3811	90 to 370 ft-lbs (430 ft-lbs max.)	8500	1500	4-3/8" (mm)	2.5 lbs (1.0 kgs)

JET® Ratchet Wrenches

Ball Bearing Construction



AVT-3814

Hardened Steel Gears



AVT-3816

Durable, Quality Tools

- Steel ball retainers for rapid socket changing.
- Variable-speed throttle for better speed control.

Note: Air Inlet 1/4" NPT - use 3/8" (9.5 mm) air hose.

3/8" Square Drive				
Part Number	Torque Range	RPM	O.A.L.	Weight
AVT-3814	10-50 ft-lbs	200	10-1/2" (267 mm)	2.6 lbs (1.2 kgs)

1/2" Square Drive				
Part Number	Torque Range	RPM	O.A.L.	Weight
AVT-3816	10-50 ft-lbs	200	10-1/2" (267 mm)	2.6 lbs (1.2 kgs)

ASSEMBLY TOOLS

Chicago Pneumatic® Ratchet Wrench

Fast Rundown

Improved Head Design



AVT-3817

Short & Wide Lever

- Aluminum body with composite housing to insulate from cold.
- New, easy-to-use power regulator (0 to 280 RPM).
- Flat forward and reverse button.
- Back exhaust avoids blowing dirt and dust.



Note: Air Inlet 1/4" NPT - use 3/8" (9.5 mm) air hose.

1/4" Square Drive				
Part Number	Torque Range	RPM	O.A.L.	Weight
AVT-3817	4-18 ft-lbs (26 ft-lbs max.)	280	6-5/8" (169 mm)	1.1 lbs (0.5 kgs)

Chicago Pneumatic® Ratchet Wrenches



AVT-3819



AVT-3820

- For light duty assembly & repair work.
- Teasing throttle.

Note: Air Inlet 1/4" NPT - use 3/8" (9.5 mm) air hose.

3/8" Square Drive				
Part Number	Torque Range	RPM	O.A.L.	Weight
AVT-3819	10-50 ft-lbs (50 ft-lbs max.)	150	10" (254 mm)	2.4 lbs (1.1 kgs)

1/2" Square Drive				
Part Number	Torque Range	RPM	O.A.L.	Weight
AVT-3820	10-50 ft-lbs (50 ft-lbs max.)	150	10" (254 mm)	2.4 lbs (1.1 kgs)

Keyless Impact Chucks

Superior Holding Power



AVT-0044

Square Drive, Keyless Design

Transform your impact wrench into an efficient drilling tool.

Part Number	Capacity Range	Square Drive Mount	Overall Length (open)
AVT-0042	3/32" to 3/8"	3/8"	2-3/32" (53 mm)
AVT-0044	1/8" to 1/2"	1/2"	2-5/8" (67 mm)

Master Power® Impact Nutrunner



AVT-3818

Ideal For Soft Joint Work

Power Of An Impact, Speed Of A Screwdriver

Lightweight & Compact

Detachable Belt Clip & Suspension Bail Included

- Smooth & efficient impact mechanism creates no torque action.
- Forward/reverse lever can be positioned for right or left hand use.
- Built-in power regulator with 4 settings for precise control.

Note: Air Inlet 1/4" NPT - use 1/4" (6.4 mm) air hose. Rated @ 90 psi.

1/2" Capacity, 3/8" Square Drive					
Part No.	Torque Range	RPM	BPM	O.A.L.	Weight
AVT-3818	10 to 100 ft-lbs	10,000	1700	6" (152 mm)	2.2 lbs (1.0 kgs)

100 PC Master Driver Bit Set

Modified S2 Shock Resistant Steel, Precision Machined Tips



AVT-3821



Includes:

Assorted Popular Sized Bits: 10 Phillips, 8 Pozidriv, 6 Square, 13 Torx, 3 Clutch, 10 Hex, 7 Slotted, 4 Triple Square, 5 Torq-Set, 5 Spanner, 11 Torx Tamper, 10 Hex Tamper, 5 Tri-Wing, 2 Socket Adapters, 'Y' Adapter, 1/4" Sq. Drive Holder, Magnetic Holder & Molded Plastic Case

Part Number	Description
AVT-3821	Complete 100 PC Set

Micro-Adjustable, Click Type Dual Scale Torque Wrenches


AVT-3825

- Dual scale, calibrated dual direction.
- Easy to read laser marked scales.
- Positive lock spring-loaded pull down lock ring.
- Certificate of calibration traceable to N.I.S.T..

*Fast, Accurate
& Easy To Set*

Dual Scale - Inch Pound & Nm					
Part Number	Square Drive	Torque Range, In-lbs (Nm)	Increments, In-lbs (Nm)	Overall Length	Weight
AVT-3822	1/4"	10 to 50 (1.4 to 5.4)	0.5 (0.5)	10-1/8" (25.6 cm)	0.85 lbs (0.4 kgs)
AVT-3823	3/8"	30 to 200 (4.0 to 22.0)	1 (0.12)	10-1/8" (25.6 cm)	0.85 lbs (0.4 kgs)
AVT-3824	3/8"	100 to 750 (14.1 to 81.9)	5 (0.6)	16" (40.6 cm)	2.5 lbs (1.1 kgs)
AVT-3825	3/8"	150 to 1000 (19.8 to 110.2)	5 (0.6)	16" (40.6 cm)	2.5 lbs (1.1 kgs)

Dual Scale - Foot Pound & Nm					
Part Number	Square Drive	Torque Range, Ft-lbs (Nm)	Increments, Ft-lbs (Nm)	Overall Length	Weight
AVT-3826	3/8"	5 to 75 (10.2 to 98.3)	0.5 (0.7)	16" (40.6 cm)	2.5 lbs (1.1 kgs)
AVT-3827	1/2"	20 to 150 (34.0 to 197.0)	1 (1.4)	19" (48.3 cm)	3.2 lbs (1.4 kgs)
AVT-3828	1/2"	30 to 250 (47.0 to 332.0)	1 (1.4)	24-3/8" (61.9 cm)	3.2 lbs (1.4 kgs)
AVT-3829	3/4"	100 to 500 (169.0 to 779.0)	5 (6.8)	42" (106.6 cm)	11.9 lbs (5.4 kgs)
AVT-3830*	1"	200 to 1000 (305.0 to 1322.0)	5 (6.8)	70" (177.8 cm)	25.1 lbs (11.4 kgs)

Note: Accuracy: $\pm 4\%$ CW $\pm 6\%$ CCW of indicated value, CW, from 20% to 100% of full scale.

*Includes one extension handle & is packed in a metal box.

Ratchet Screwdriver Kit


*A Wide Variety
Of The Most
Used Adapters*

*Crush
Resistant
Case*

Includes:

Ratchet Wrench, Extension, Screwdriver Handle, Twelve Allen Hex Adapters (.050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4" & 5/16"), Two Slotted Head Adapters (1/4" & 3/8"), Two Phillips Head Adapters (#1 & #2), Square Drive Adapter & Molded Plastic Case

Part Number	Description
AVT-3832	Complete 20 PC Set

Ratchet Offset Screwdriver Set


- Nickel plated steel ratchet drive handle reverses instantly.
- Tool is hardened & tempered steel with black oxide bits.
- Conforms to government specification GGG-S-1408.

Screwdriver Set:

Reversible Ratchet Screwdriver Handle, Two Cross Point Bits (#1 & 2) & Two Straight Bits (1/4" & 3/8")

Part Number	Description
AVT-3831	Complete 5 PC Set

Williams® Magnetic Ratcheting Screwdriver


- Heavy-duty 3 way (on-off-locked) ratcheting mechanism.
- Stainless steel shank with powerful holding magnet.
- Ergonomically designed hi-impact plastic handle.
- Accepts all standard 1/4" hex bits, easy bit storage in handle.

Part Number	Included Bits	O.A.L.
AVT-3833	2 Slotted, T-15 Torx, #1 & #2 Phillips	9" (229 mm)

ASSEMBLY TOOLS

Williams® T-Handle Ratcheting Screwdrivers

Includes #2
Phillips Bit



Comfort Grip
T-Handle

- Heavy-duty 3 way (on-off-locked) ratcheting mechanism.
- Ergonomically designed hi-impact plastic t-handle.
- Stainless steel shank accepts all standard 1/4" hex bits.

Part Number	Blade Length	Overall Length
AVT-3834	2" (51 mm)	3-7/8" (98 mm)
AVT-3835	3-7/8" (98 mm)	5-13/16" (148 mm)
AVT-3836	7-7/8" (200 mm)	9-13/16" (249 mm)

Gearwrench® 6PC Mini Torx Screwdriver Set



- Tri-lobe, dual material handles for comfort and performance.
- Black oxide non-slip tips and color coded caps.

Part Number	Included Tips	Blade Length	Overall Length
AVT-3838	T-5 to T10	2-3/8" (60 mm)	6" (152 mm)

Gearwrench® 6PC Combo Screwdriver Set



Oil And Solvent
Resistant

- Tri-lobe, dual material handles for comfort and performance.
- Black oxide non-slip tips and laser etched size on shanks.

Part Number	Included Screwdrivers
AVT-3840	2 Phillips (#1 x 3" & #2 x 4") 4 Slotted (1/8" x 3", 1/4" x 4", 5/16" x 6" & 3/8" x 8")

Gearwrench® 6PC Convertible Snap Ring Plier Set



Cushion
Grip
Handles

Cam-Lock
Style

Includes Popular
Tip Diameters

- Fits internal and external rings from 1/4" to 2" in diameter.
- Patented quick change design for easy, one-step conversion.

Part Number	Included Tips
AVT-3837	0.038", 0.047 & 0.070" (3 in both 18° and 90° tips)

Taylor® Adjustable Clutch Screwdrivers



AVT-3839

NEW

Lightweight &
Comfortable

- Precision bearings & gears.
- Internally adjustable clutch.
- Ergonomic handle with rear exhaust.



AVT-3841

Note: Air Inlet 1/4" NPT.

Pistol Grip - 1/4" Capacity - 1800 RPM			
Part Number	Torque Range	Overall Length	Weight
AVT-3839	45-115 in-lbs	7" (178 mm)	2.5 lbs (1.1 kgs)

Lever Grip - 1/4" Capacity - 800 RPM			
Part Number	Torque Range	Overall Length	Weight
AVT-3841	45-115 in-lbs	11" (279 mm)	2.7 lbs (1.2 kgs)

Desoutter® Adjustable Clutch Screwdrivers


- Designed to handle high-volume assembly line tasks.
- Ergonomically designed housing is low vibration & lightweight.
- Many other styles available, please inquire.

Note: Air Inlet 1/4" NPT.

Pistol Grip Shut-Off Type - 1/4" Capacity				
Part Number	Torque Range	RPM	Overall Length	Weight
AVT-3845	3.5 to 38 in-lbs	1100	9" (229 mm)	1.8 lbs (0.8 kgs)
AVT-3847	3.5 to 18.6 in-lbs	2300	9" (229 mm)	1.9 lbs (0.9 kgs)

Sioux® Adjustable Clutch Screwdrivers


- Lightweight aluminum housing with soft textured grip.
- Three idler gear system for increased tool life & load capacity.
- With teasing throttle & adjustable clutch.

Note: Air Inlet 1/4" NPT. Bit shown not included.

Pistol Grip - 0.6 hp (0.45 kW) - 1/4" Capacity				
Part Number	Max. Torque	RPM	Overall Length	Weight
AVT-3861	40 in-lbs	2500	8-1/2" (216 mm)	2.6 lbs (1.2 kgs)
AVT-3862	100 in-lbs	1200	10-1/4" (260 mm)	3.0 lbs (1.4 kgs)

Pistol Grip - 1.0 hp (0.75 kW) - 1/4" Capacity				
Part Number	Max. Torque	RPM	Overall Length	Weight
AVT-3863	140 in-lbs	700	10-1/4" (260 mm)	3.2 lbs (1.5 kgs)

Sioux® Adjustable Clutch Screwdrivers (cont'd)


Lever Grip - 1.0 hp (0.75 kW) - 1/4" Capacity				
Part Number	Max. Torque	RPM	Overall Length	Weight
AVT-3842	120 in-lbs	1200	12-1/4" (311 mm)	2.8 lbs (1.3 kgs)

APEX® ACR Anti-Camout Phillips Insert Bits


Special wing-face ribs grip screw recesses to prevent stripping.

1/4" Hex Insert ACR, 1" Overall Length		
Part Number	Type	Point Size
AVT-3843	Removal	1
AVT-3844	Driving	1
AVT-3846	Driving & Removal	1
AVT-3848	Removal	2
AVT-3849	Driving	2
AVT-3850	Driving & Removal	2
AVT-3851	Driving (limited clearance)	2
AVT-3852	Removal	3
AVT-3853	Driving	3
AVT-3854	Driving & Removal	3

1/4" Hex Insert ACR, 2" Overall Length		
Part Number	Type	Point Size
AVT-3855	Removal	2
AVT-3856	Driving & Removal	2

5/16" Hex Insert ACR, 1-1/4" Overall Length		
Part Number	Type	Point Size
AVT-3857	Removal	2
AVT-3858	Driving & Removal	2
AVT-3859	Driving & Removal	3
AVT-3860	Driving & Removal	4



For Screw & Bolt Removal Tools See Pages 226-227

ASSEMBLY TOOLS

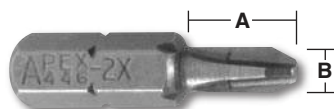
APEX® Phillips Insert Bits



Note: Many other sizes available, please inquire.

1/4" Hex Drive, 1" O.A.L.		5/16" Hex Drive, 1-1/4" O.A.L.	
Part Number	Point Size	Part Number	Point Size
AVT-3865	1	AVT-3866	2
AVT-3868	2	AVT-3869	3
AVT-3871	3	AVT-3872	4

APEX® Limited Clearance Phillips Insert Bits



*Great For Shallow
Screw Recesses*

1/4" Hex Insert, 1" Overall Length			
Part Number	Point Size	Turned Length (A)	Turned OD (B)
AVT-3877	0	7/16" (11.1 mm)	.108" (4.1 mm)
AVT-3879	1	7/16" (11.1 mm)	.108" (4.1 mm)
AVT-3881	2	7/16" (11.1 mm)	.108" (4.1 mm)

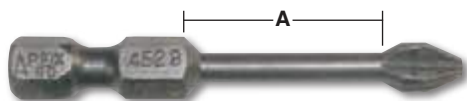
APEX® Phillips Power Drive Bits



Note: Many other sizes available, please inquire.

1/4" Hex Power Drive			1/4" Hex Power Drive		
Part Number	Point Size	Overall Length	Part Number	Point Size	Overall Length
AVT-3883	1	1-15/16"	AVT-3884	3	2-3/4"
AVT-3886	2	1-15/16"	AVT-3887	1	3-1/2"
AVT-3889	3	1-15/16"	AVT-3890	2	3-1/2"
AVT-3893	1	2-3/4"	AVT-3892	3	3-1/2"
AVT-3895	2	2-3/4"			

APEX® ACR Harpoon Phillips Power Drive Bits



With ACR anti-camout wing-face ribs for better grip.

1/4" Hex Power Drive ACR				
Part Number	Point Size	Body Diameter	Turned Length (A)	Overall Length
AVT-3901	2	9/64" (3.5 mm)	1-1/8" (28 mm)	1-15/16" (49 mm)
AVT-3904	2	9/64" (3.5 mm)	1-7/8" (48 mm)	2-3/4" (70 mm)
AVT-3906	2	9/64" (3.5 mm)	3" (76 mm)	6" (152 mm)

APEX® Slotted Insert Bits



Note: Many other sizes available, please inquire.

1/4" Hex Insert, 1" Overall Length			
Part Number	Screw Size	Blade Thickness	Blade Width
AVT-3864	4F-5R	.034"	3/16"
AVT-3867	6F-8R	.040"	7/32"
AVT-3870	8F-10R	.042"	1/4"
AVT-3873	10F-12R	.046"	9/32"

1/4" Hex Insert, 1-1/2" Overall Length			
Part Number	Screw Size	Blade Thickness	Blade Width
AVT-3874	12F-14R	.050"	5/16"
AVT-3875	14F-16R	.055"	23/64"

5/16" Hex Insert, 1-1/2" Overall Length			
Part Number	Screw Size	Blade Thickness	Blade Width
AVT-3876	4F-5R	.034"	3/16"
AVT-3878	6F-8R	.040"	7/32"
AVT-3880	8F-10R	.042"	1/4"
AVT-3882	10F-12R	.046"	.296"

APEX® Hi-Torque Bits



1/4" Hex Insert, 1-1/4" Overall Length				
Part Number	Screw Size	Body Diameter	Blade Thickness	Blade Width
AVT-3885	1	9/32"	.049"	.274"
AVT-3888	2	5/16"	.059"	.295"
AVT-3891	3	3/8"	.059"	.377"
AVT-3894	4	1/2"	.073"	.502"

1/4" Square Drive Insert, 1" Overall Length				
Part Number	Screw Size	Body Diameter	Blade Thickness	Blade Width
AVT-3896	0	1/2"	.029"	.167"
AVT-3897	1	1/2"	.049"	.274"
AVT-3898	2	1/2"	.059"	.295"
AVT-3899	3	1/2"	.059"	.377"
AVT-3900	4	1/2"	.073"	.502"

3/8" Square Drive Insert					
Part Number	Screw Size	Body Diameter	Blade Thickness	Blade Width	Overall Length
AVT-3902	1	3/4"	.059"	.377"	1"
AVT-3903	2	3/4"	.073"	.502"	1"
AVT-3905	3	3/4"	.079"	.629"	1-1/4"
AVT-3907	4	3/4"	.095"	.745"	1-1/4"

APEX® Hi-Torque Bits (cont'd)


1/2" Square Drive Insert					
Part Number	Screw Size	Body Diameter	Blade Thickness	Blade Width	Overall Length
AVT-3909	7	1"	.112"	.884"	1-5/8"
AVT-3911	8	1"	.142"	.995"	1-5/8"
AVT-3913	9	1-1/4"	.162"	1.136"	1-5/8"
AVT-3915	10	1-1/4"	.182"	1.250"	1-5/8"
AVT-3917*	12	1-1/4"	.216"	1.500"	2-3/8"

*AVT-3917 is 3/8" square drive (special order).

2 PC Replaceable Blade Hi-Torque Drivers


- Hardened & shock resistant tool steel replaceable blades.
- Blades can also be turned several times for longer life.
- Meets gov't specs MIL-B-9946E, MIL-B-9946/2 & ANSI B107.4.

1/4" Square Drive Socket, 1/2" Shank Dia. (A)				
Complete Assembly	Blade Only	Bolt Nom. Diameter	Blade Dia. (B)	Overall Length
AVT-3929	AVT-3930	#8	0.500"	1.25" (32 mm)
AVT-3932	AVT-3933	#10	0.552"	1.36" (35 mm)

3/8" Square Drive Socket, 3/4" Shank Dia. (A)				
Complete Assembly	Blade Only	Bolt Nom. Diameter	Blade Dia. (B)	Overall Length
—	AVT-3938	1/4"	0.864"	2.67" (68 mm)
AVT-3939	AVT-3940	5/16"	0.990"	2.73" (69 mm)
AVT-3941	AVT-3942	3/8"	1.240"	2.73" (69 mm)

1/2" Square Drive Socket, 1" Shank Dia. (A)				
Complete Assembly	Blade Only	Bolt Nom. Diameter	Blade Dia. (B)	Overall Length
AVT-3943	AVT-3942	3/8"	1.240"	3.17" (81 mm)
AVT-3944	AVT-3945	7/16"	1.375"	3.23" (82 mm)
AVT-3948	AVT-3949	1/2"	1.500"	3.30" (84 mm)
AVT-3952	AVT-3953	9/16"	1.750"	3.42" (87 mm)
AVT-3956	AVT-3957	5/8"	2.000"	3.55" (90 mm)

1/4" Hex Drive, 1/2" Shank Dia. (A)				
Complete Assembly	Blade Only	Bolt Nom. Diameter	Blade Dia. (B)	Overall Length
AVT-3961	AVT-3933	#10	0.552"	3.50" (89 mm)
AVT-3963	AVT-3938	1/4"	0.864"	3.50" (89 mm)

APEX® Torx Bits


Note: Other sizes & styles available, please inquire.

1/4" Hex Insert, 1" Overall Length		
Part Number	Driver Size	Point Diameter
AVT-3908	T-5	.055"
AVT-3910	T-6	.065"
AVT-3912	T-7	.077"
AVT-3914	T-8	.090"
AVT-3916	T-9	.097"
AVT-3918	T-10	.107"
AVT-3919	T-15	.128"
AVT-3920	T-20	.151"
AVT-3921	T-25	.173"
AVT-3922	T-27	.195"
AVT-3923	T-30	.216"
AVT-3924	T-40	.260"
AVT-3925	T-45	.306"
AVT-3926	T-50	.346"



5/16" Hex Insert, 1-1/4" Overall Length		
Part Number	Driver Size	Point Diameter
AVT-3927	T-25	.173"
AVT-3928	T-27	.195"
AVT-3931	T-30	.216"
AVT-3934	T-40	.260"
AVT-3935	T-45	.306"
AVT-3936	T-50	.346"
AVT-3937	T-55	.440"

APEX® Socket Head Bits


1/4" Hex Insert, 1" O.A.L.	
Part Number	Hex Size
AVT-3947	5/64"
AVT-3951	3/32"
AVT-3955	7/64"
AVT-3959	1/8"
AVT-3960	9/64"

1/4" Hex Insert, 1-5/16" O.A.L.	
Part Number	Hex Size
AVT-3946	5/32"
AVT-3950	3/16"
AVT-3954	7/32"
AVT-3958	1/4"

Note: Other sizes available, please inquire.

1/4" Hex Insert, 1-1/4" O.A.L.	
Part Number	Hex Size
AVT-3962	5/16"
AVT-3964	3/8"

ASSEMBLY TOOLS

APEX® Torq-Set Bits



1/4" Hex Insert, 1" Overall Length	
Part Number	Point Size
AVT-3970	0
AVT-3973	1
AVT-3976	2
AVT-3979	3
AVT-3982	4
AVT-3983	5
AVT-3984	6
AVT-3986	8
AVT-3988	10
AVT-3990	1/4"

5/16" Hex Insert, 1-1/4" Overall Length	
Part Number	Point Size
AVT-3971	8
AVT-3974	10
AVT-3977	1/4"
AVT-3980	5/16"
AVT-3981	3/8"

5/16" Hex Insert ACR*, 1-1/4" Overall Length	
Part Number	Point Size
AVT-3989	1/4"
AVT-3991	5/16"

1/4" Hex Insert ACR*, 1-1/4" Overall Length	
Part Number	Point Size
AVT-3993	6
AVT-3996	8
AVT-3999	10
AVT-4002	1/4"

5/16" Hex Power Drive, 1-1/4" Overall Length	
Part Number	Point Size
AVT-3994	8
AVT-3997	10
AVT-4000	1/4"
AVT-4003	5/16"
AVT-4005	3/8"

1/4" Hex Power Drive, 1-1/4" Overall Length	
Part Number	Point Size
AVT-4009	0
AVT-4011	1
AVT-4013	2
AVT-4015	3
AVT-4017	4
AVT-4019	5
AVT-4021	6
AVT-4022*	6
AVT-4023	8
AVT-4025*	8
AVT-4028	10
AVT-4031*	10
AVT-4032	1/4"
AVT-4033	5/16"
AVT-4034	3/8"

7/16" Hex Power Drive, 1-1/4" Overall Length	
Part Number	Point Size
AVT-4012	1/4"
AVT-4014	5/16"
AVT-4016	3/8"
AVT-4018	3/8"
AVT-4020	7/16"

7/16" Hex Power Drive ACR*, 1-1/4" Overall Length	
Part Number	Point Size
AVT-4026	1/4"
AVT-4029	5/16"

5/8" Hex Power Drive, 1-1/4" Overall Length	
Part Number	Point Size
AVT-4035	1/2"
AVT-4037	9/16"
AVT-4039	5/8"

*ACR anti-camout ribs for removal only.

APEX® Tri-Wing Bits



1/4" Hex Insert, 1" Overall Length			
Part Number	Point Size	Screw Size Tension Head	Screw Size Shear Head
AVT-3965	0	0-80	—
AVT-3966	1	2-56	4-40
AVT-3967	2	4-40	6-32
AVT-3968	3	6-32	8-32
AVT-3969	4	8-32	10-32
AVT-3972	5	10-32	1/4"-28
AVT-3975	6	1/4"	5/16"
AVT-3978	7	5/16"	3/8"

1/4" Hex Insert ACR*, 1-1/4" Overall Length			
Part Number	Point Size	Screw Size Tension Head	Screw Size Shear Head
AVT-3985	4	8-32	10-32
AVT-3987	5	10-32	1/4"-28

* ACR anti-camout ribs for removal only.

1/4" Hex Power Drive, 1-1/4" Overall Length			
Part Number	Point Size	Screw Size Tension Head	Screw Size Shear Head
AVT-3992	0	0-80	—
AVT-3995	1	2-56	4-40
AVT-3998	2	4-40	6-32
AVT-4001	3	6-32	8-32
AVT-4004	4	8-32	10-32
AVT-4006	5	10-32	1/4"-28
AVT-4007	6	1/4"-28	5/16"-24
AVT-4008	7	5/16"-24	3/8"-24
AVT-4010	8	3/8"-24	7/16"-20

APEX® Bit Extensions



1/4" Male Hex Drive with 1/4" Male Square		
Part Number	Lock Type	Overall Length
AVT-4024	Pin	1-3/8"
AVT-4027	Ball	1-3/8"
AVT-4030	Pin	2"

1/4" Male Hex Drive with 3/8" Male Square		
Part Number	Lock Type	Overall Length
AVT-4036	Pin	1-5/8"
AVT-4038	Ball	1-5/8"
AVT-4040	Pin	2"

Wilton® Light Industrial C-Clamps



Ductile Iron Frames

Black-Ox Spindle With Tilt Head

Deep reach models ideal for many aerospace applications.

Standard			
Part Number	Holding Cap.	Jaw Reach	Jaw Gap
AVT-4048	820 lbs	1-1/2" (60 mm)	0 - 1-1/2" (38 mm)
AVT-4049	1430 lbs	2" (51 mm)	0 - 3" (76 mm)
AVT-4050	1400 lbs	3-1/4" (83 mm)	0 - 6" (152 mm)
AVT-4051	1700 lbs	4" (102 mm)	0 - 8" (203 mm)

Deep Reach			
Part Number	Holding Cap.	Jaw Reach	Jaw Gap
AVT-4052	350 lbs	3" (76 mm)	0 - 1" (25 mm)
AVT-4053	450 lbs	3-1/2" (89 mm)	0 - 2" (51 mm)
AVT-4054	600 lbs	4" (102 mm)	0 - 2-1/2" (64 mm)
AVT-4055	700 lbs	4-1/2" (114 mm)	0 - 3" (76 mm)
AVT-4056	1600 lbs	4-3/4" (121 mm)	0 - 2-1/2" (64 mm)
AVT-4057	1600 lbs	6-1/4" (159 mm)	0 - 2-1/2" (64 mm)

Wilton® Junior C-Clamps



Features a heat treated forged steel frame, zinc plated steel spindle.

Part Number	Holding Cap.	Jaw Reach	Jaw Gap
AVT-4065	500 lbs	1" (51 mm)	0 - 1" (25 mm)
AVT-4066	500 lbs	1-1/2" (60 mm)	0 - 1" (25 mm)
AVT-4067	800 lbs	1-1/4" (70 mm)	0 - 1-1/4" (32 mm)
AVT-4068	850 lbs	1-1/2" (92 mm)	0 - 1-1/2" (38 mm)
AVT-4069	875 lbs	1-1/4" (114 mm)	0 - 2" (51 mm)
AVT-4070	1100 lbs	1-3/8" (137 mm)	0 - 3" (76 mm)
AVT-4072	850 lbs	2-1/2" (146 mm)	0 - 2-1/2" (64 mm)

Wilton® Hi-Vis Safety C-Clamps



- Drop forged frame and ACME rolled spindle for maximum strength.
- V-grooved anvil for secure holding of rounds, squares and flats.

Part Number	Holding Cap.	Jaw Reach	Jaw Gap
AVT-4041	3500 lbs	2-1/4" (57 mm)	0 - 2-1/8" (54 mm)
AVT-4042	3500 lbs	2-7/16" (62 mm)	0 - 3" (76 mm)
AVT-4043	6200 lbs	3-1/4" (83 mm)	0 - 4-1/4" (108 mm)
AVT-4044	6600 lbs	4-1/16" (103 mm)	0 - 6-1/16" (154 mm)
AVT-4045	6900 lbs	4-15/16" (125 mm)	0 - 8-1/4" (210 mm)
AVT-4046	8000 lbs	5-7/8" (149 mm)	2 - 10-1/8" (257 mm)
AVT-4047	9300 lbs	6-1/4" (159 mm)	2 - 12-1/4" (311 mm)

Wilton® Economy C-Clamps



Part Number	Holding Cap.	Jaw Reach	Jaw Gap
AVT-4058	3500 lbs	2-1/4" (57 mm)	0 - 2" (51 mm)
AVT-4059	3500 lbs	2-7/16" (62 mm)	0 - 3" (76 mm)
AVT-4060	6200 lbs	3-1/4" (83 mm)	0 - 4" (102 mm)
AVT-4061	6600 lbs	4-1/16" (103 mm)	0 - 6" (152 mm)
AVT-4062	6900 lbs	4-15/16" (125 mm)	0 - 8" (203 mm)
AVT-4063	8000 lbs	5-7/8" (149 mm)	0 - 10" (254 mm)
AVT-4064	9300 lbs	6-1/4" (159 mm)	0 - 12" (305 mm)

Nylon Tip C-Clamps

Perfect For Aerospace Work

- High strength to weight ratio.
- Nylon tip cap & nylon inserts securely fastened to clamp.
- 550 lbs holding capacity.



Part Number	Jaw Reach	Jaw Gap	Weight
AVT-4071	1-3/16" (30 mm)	1-1/4" (32 mm)	0.25 lbs (0.11 kgs)
AVT-4073	2-5/16" (59 mm)	2-1/2" (64 mm)	0.95 lbs (0.43 kgs)

CLAMP & FASTENING TOOLS

Bessey® Deep Reach Malleable Cast C-Clamp

A Handy General Purpose Clamp



Galvanized Finish

AVT-4074

Part Number	Holding Cap.	Jaw Reach	Jaw Gap	Weight
AVT-4074	900 lbs	4-1/2" (102 mm)	0 - 3" (76 mm)	1.5 lbs (0.68 kgs)

Aluminum 90° Angle Clamp

- Square machined sides and base for secure & precise clamping.
- Base includes two bench mounting slots.



Part Number	Jaw Size (l x h)	Miter Capacity	Weight
AVT-4079	2-1/4" x 1-3/8"	2-3/4"	3.0 lbs (1.4 kgs)

Metal Body Spring Clamps

Ergonomic Shape



Corrosion Resistant

AVT-4081

Includes protective handles & tips.

Part Number	Jaw Reach	Jaw Gap	Overall Length
AVT-4080	1-1/4" (32 mm)	1" (25 mm)	4" (102 mm)
AVT-4081	2-1/4" (57 mm)	2" (51 mm)	6" (152 mm)
AVT-4082	3-5/16" (84 mm)	3" (76 mm)	9" (229 mm)
AVT-4083	5" (127 mm)	4" (102 mm)	12" (305 mm)

Plastic Body Spring Clamps

Soft, Non-Marring Pads



Non-Slip Handles

AVT-4101

Jaws configured to hold odd shapes.

Part Number	Jaw Reach	Jaw Gap
AVT-4097	1" (25 mm)	1" (25 mm)
AVT-4099	2" (51 mm)	2" (51 mm)
AVT-4101	3" (76 mm)	3" (76 mm)

Wilton® Light Duty Steel F-Clamps

Classic Design Is Simple & Sturdy



AVT-4075

Tilt Pad For Firm Grip

- Black oxide spindle resists wear and tear while impeding rust.
- Drop forged arm provides minimal flex under heavy work loads.

Part Number	Holding Cap.	Jaw Reach	Jaw Gap
AVT-4075	1200 lbs	4-3/4" (121 mm)	0 - 8" (20.3 cm)
AVT-4076	1200 lbs	4-3/4" (121 mm)	0 - 12" (30.5 cm)
AVT-4077	1200 lbs	4-3/4" (121 mm)	0 - 18" (45.7 cm)
AVT-4078	1200 lbs	4-3/4" (121 mm)	0 - 24" (60.9 cm)

Fast Action Universal Clamps



AVT-4090

Self-Centering Jaws



AVT-4102

Lightweight & Rugged

- Plates made from high tensile steel.
- Meets federal spec. GGG-406, Type V.

'T' Handle	
Part Number	Jaw Capacity
AVT-4084	1" (25 mm)
AVT-4086	2" (51 mm)
AVT-4088	3" (76 mm)
AVT-4091	6" (152 mm)
AVT-4092	9" (229 mm)
AVT-4093	12" (305 mm)

Round Handle	
Part Number	Jaw Capacity
AVT-4098	3/4" (19 mm)
AVT-4100	1" (25 mm)
AVT-4102	2" (51 mm)

'T' Handle No Mar Rubber Pads	
Part Number	Jaw Capacity
AVT-4085	1" (25 mm)
AVT-4087	2" (51 mm)
AVT-4089	3" (76 mm)
AVT-4090	4-1/2" (114 mm)

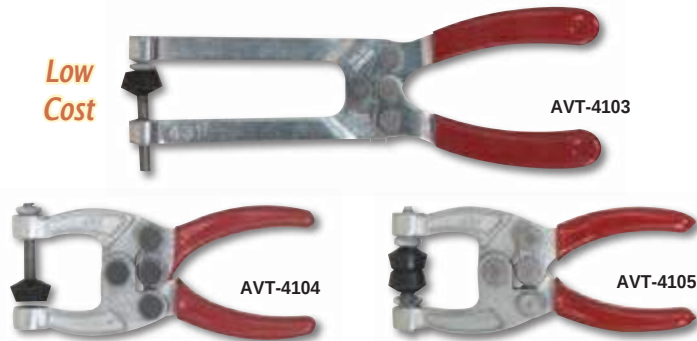
'T' Handle Deep Throat	
Part Number	Jaw Capacity
AVT-4094	4-1/2" (114 mm)
AVT-4095	6" (152 mm)
AVT-4096	10" (254 mm)

Toggle Clamps

- Extra strong, quality construction.
- Myriad of uses in assembly operations.
- More styles available, please inquire.

*Great Where
Space Is Limited*

*Low
Cost*



1/4"-20 Spindle Thread				
Part Number	Holding Cap.	Jaw Reach	Jaw Gap	Overall Length
AVT-4103	100 lbs	2-5/16"	1-1/16" (27 mm)	6-7/8" (175 mm)
AVT-4104	200 lbs	1-1/4"	1-1/16" (27 mm)	4-5/16" (110 mm)
AVT-4105	200 lbs	1-1/4"	1-1/16" (27 mm)	4-5/16" (110 mm)



5/16"-18 Spindle Thread				
Part Number	Holding Cap.	Jaw Reach	Jaw Gap	Overall Length
AVT-4108	350 lbs	1-7/8"	1-1/16" (27 mm)	5-11/16" (144 mm)



Note: Includes swivel spindle.

Quick-Release, 3/8"-16 Spindle Thread				
Part Number	Holding Cap.	Jaw Reach	Jaw Gap	Overall Length
AVT-4109	700 lbs	2-1/2"	1-5/8" (41 mm)	9-1/2" (241 mm)



3/8"-24 Spindle Thread				
Part Number	Holding Cap.	Jaw Reach	Jaw Gap	Overall Length
AVT-4114	10-45 lbs	1-3/16"	15/16" (24 mm)	4-3/4" (121 mm)
AVT-4116	65-125 lbs	2-1/4"	1-3/4" (44 mm)	8-3/8" (213 mm)

Toggle Clamps (cont'd)



Quick-Release, 5/16"-24 Spindle Thread				
Part Number	Holding Cap.	Jaw Reach	Jaw Gap	Overall Length
AVT-4106	700 lbs	2-3/8"	3" (76 mm)	8-1/16" (205 mm)

Offset, 5/16"-24 Spindle Thread				
Part Number	Holding Cap.	Jaw Reach	Jaw Gap	Overall Length
AVT-4107	Varies	4"	1-1/16" (27 mm)	11-3/32" (282 mm)

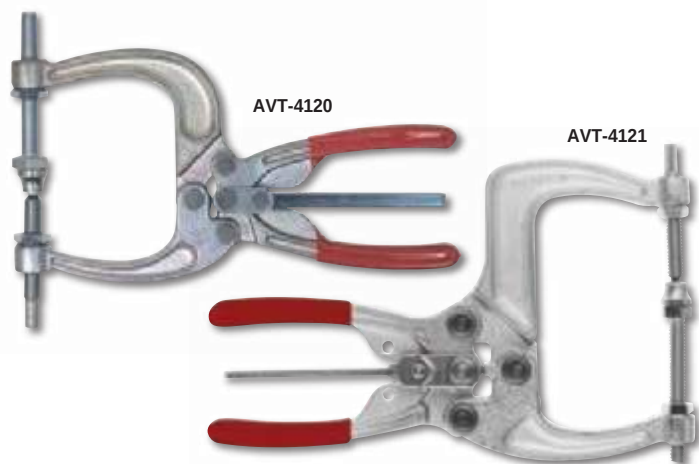


AVT-4110, AVT-4111 & AVT-4112

3/8"-24 Spindle Thread				
Part Number	Holding Cap.	Jaw Reach	Jaw Gap	Overall Length
AVT-4110	600 lbs	4"	1-3/4" (44 mm)	10-7/16" (265 mm)
AVT-4111	400 lbs	6"	1-3/4" (44 mm)	12-7/16" (316 mm)
AVT-4112	300 lbs	8"	1-3/4" (44 mm)	14-7/16" (367 mm)
AVT-4113	1200 lbs	2-1/4"	3-17/32" (90 mm)	8-3/8" (213 mm)
AVT-4115	1600 lbs	2-1/4"	4-17/32" (115 mm)	9-3/4" (248 mm)
AVT-4117	1600 lbs	2-1/4"	6-17/32" (166 mm)	9-3/4" (248 mm)

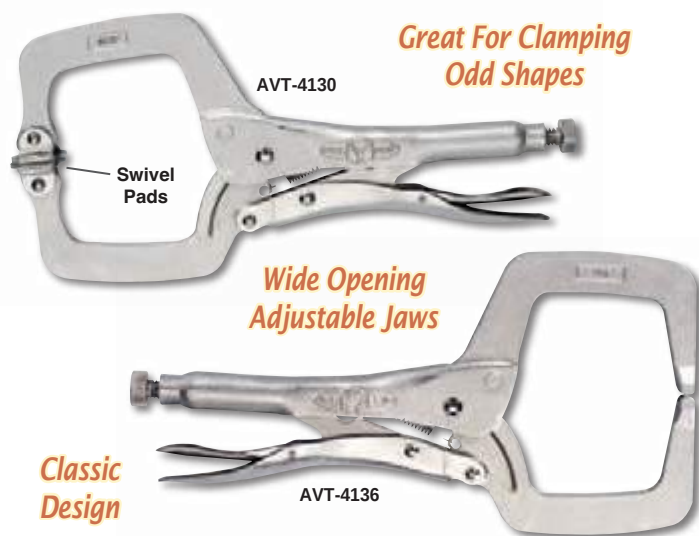
CLAMP & FASTENING TOOLS

Toggle Clamps (cont'd)



Quick-Release, 3/8"-16 Spindle Thread				
Part Number	Holding Cap.	Jaw Reach	Jaw Gap	Overall Length
AVT-4120	700 lbs	2-1/2"	3" (76 mm)	9-1/2" (241 mm)
AVT-4121	1200 lbs	2-1/2"	4-1/4" (108 mm)	9-1/2" (241 mm)

Locking C-Clamps

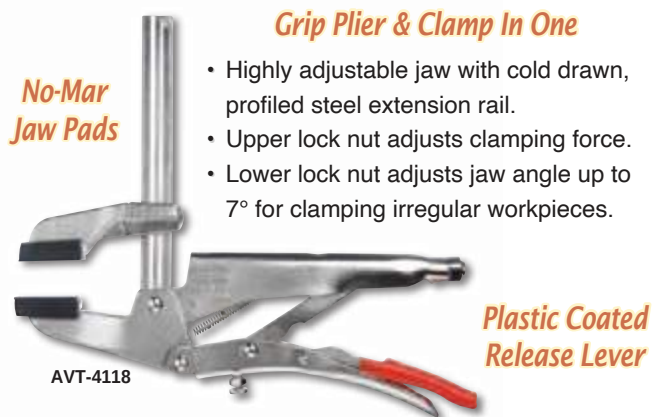


Steel Swivel Pad Tips				
Part Number	Throat Depth	Jaw Adjust	Weight	Overall Length
AVT-4128	1-1/4"	0 to 1-5/8"	0.3 lbs (0.13 kgs)	4" (102 mm)
AVT-4129	1-1/2"	0 to 2-1/8"	0.6 lbs (0.27 kgs)	6" (152 mm)
AVT-4130	2-5/8"	0 to 4"	1.8 lbs (0.8 kgs)	11" (279 mm)
AVT-4131	9-1/2"	0 to 8"	2.8 lbs (1.3 kgs)	18" (457 mm)
AVT-4132	15-1/2"	0 to 10"	3.6 lbs (1.6 kgs)	24" (609 mm)

Regular Tips				
Part Number	Throat Depth	Jaw Adjust	Weight	Overall Length
AVT-4134*	1-1/2"	0 to 2-1/8"	0.5 lbs (0.22 kgs)	6" (152 mm)
AVT-4136*	2-5/8"	0 to 4"	1.7 lbs (0.7 kgs)	11" (279 mm)

*Also available with fast release cushioned grips, please inquire.

Bessey® SuperGrips® Locking Clamp Pliers



Part Number	Holding Capacity	Jaw Reach	Jaw Gap	Weight
AVT-4118	440 lbs	2-1/2" (64 mm)	4" (102 mm)	2.4 lbs (1.1 kgs)
AVT-4119	440 lbs	2-1/2" (64 mm)	8" (203 mm)	2.6 lbs (1.2 kgs)

Quick-Clamp Lever Locks



Snaps open or shut with the flick of a thumb.

Part Number	Jaw Capacity	Throat Depth	Overall Length
AVT-1841	1"	0 to 5/32"	3-1/4" (83 mm)
AVT-4122	1-3/8"	0 to 5/32"	3-3/4" (93 mm)
AVT-4123	1/8" to 3/8"	1-3/8"	3-3/4" (93 mm)
AVT-4124	3/16" to 1/2"	1-3/8"	3-3/4" (93 mm)
AVT-4125	1/2" to 3/4"	1"	3-5/8" (92 mm)
AVT-4126	3/4" to 1"	7/8"	3-1/2" (89 mm)
AVT-4127	0 to 3/16"	2"	4-3/4" (121 mm)

Spring Tension Clamps



- Apply in a fraction of the time required for ordinary screw clamps.
- Zamac alloy yoke & steel spring provides 70 lbs of force.

Note: Requires sheet metal fastener pliers for installation (see next page).

Part Number	Jaw Reach	Jaw Gap
AVT-4133	1-3/4"	0" to 7/16"
AVT-4135	3"	1/4" to 15/32"
AVT-1850	3-1/2"	9/16" to 1"

Monogram® Sheet Metal Fasteners (CLECOS)



'MM' Type Mini



'ML' Type



'M' Type Std.



'MHD' Type



'Side Grip' Type

'MM' Type Mini	
0 To 1/4" Material Capacity	
Part Number	Drill Size
AVT-4138	#40
AVT-4140	#30
AVT-4142	#20
AVT-4144	#10

'ML' Type	
1/4" To 1/2" Material Capacity	
Part Number	Drill Size
AVT-4139	#40
AVT-4141	#30
AVT-4143	#20
AVT-4145	#10

'M' Type Standard	
0 To 1/4" Material Capacity	
Part Number	Drill Size
AVT-4146	#50
AVT-1743	#40
AVT-1746	#30
AVT-1814	#20
AVT-1749	#10
AVT-4149	#2
AVT-4150	1/4"

'MHD' Type	
0 To 1/2" Material Capacity	
Part Number	Drill Size
AVT-1817	#40
AVT-1819	#30
AVT-1821	#20
AVT-1823	#10
AVT-4147	#2
AVT-4148	1/4"

'Side Grip' Type	
0 To 1/2" Material Capacity	
Part Number	Drill Size
AVT-1839	1/2"
AVT-1808	1"

'Side Grip' Type	
0 To 3/4" Material Capacity	
Part Number	Drill Size
AVT-1851	1/2"
AVT-1810	1"

AVITORQ Sheet Metal Fastener Kit

A Great Starter Kit



Complete 45 PC Kit Includes:

Forty 'M' Type Fasteners (10 each: 3/32", 1/8", 5/32" & 3/16", Four 'Side Grip' Type Fasteners (3/4" Capacity, 1" Reach), Comfort Grip Fastener Pliers & Plastic Kit Box (not shown)

Part Number	Description
AVT-4137	Complete 45 PC Kit

Sheet Metal Fastener Installation Tools

AVT-4152

For All M Type & Side Grip Fasteners

Quiet Pneumatic Operation



AVT-4151

- Eliminates constant repetitive motion related to cleco pliers.
- Ergo handle & 360° swivel mount for comfortable operation.
- Includes 8' polyurethane hose, 1/4" NPT (not shown).

Part Number	Style	Weight
AVT-4151	Lever Grip	0.75 lbs (0.34 kgs)
AVT-4152	Pistol Grip	1.25 lbs (0.57 kgs)

Sheet Metal Fastener Pliers



AVT-4153

Installs MM, M, ML, MHD & Side Grip Fasteners

Also compatible with all spring loaded type fasteners.

Part Number	Type
AVT-1738	Standard
AVT-4153	With Comfort Grip Handles
AVT-4154	With Black-Ox Coating

CLAMP & FASTENING TOOLS

Monogram® Wedgelock Installation Tool



- Patent pending installation tool for Wedgelock cylindrical body fasteners (shown on following pages).
- 29% lighter than competitor designs.
- Offset rollers prevent cam over and assure fastener engagement.
- Spring loaded driver and integrated guide bushing.
- Easier maintenance with access to roller cages and components.

Note: Air Inlet 1/4" NPT.

Part Number	RPM (max.)	Torque	Weight
AVT-4157	2600	14 in-lbs	1.6 lbs (0.7 kgs)

Cylindrical Body Fastener Installation Tools



- No 'fastener to tool' orientation problems.
- Drives all diameter & grip accommodations.
- Roller bearing drive system allows faster installation & removal.
- Adjustable clamping loads from 100 to 600 lbs.

Note: Air Inlet 1/4" NPT.

Part Number	RPM	Torque
AVT-4160	3,000	25 in-lbs
AVT-4161*	3,000	25 in-lbs
AVT-4162	2,000	32 in-lbs
AVT-4163	1,000	64 in-lbs

*AVT-4161 includes guide bushing for easier fastener installation.

Monogram® Wedgelock Installation Tools



- New Atlas Copco installation tool for Wedgelock cylindrical body fasteners (shown on following pages).
- Lead angle of bushing guides tool onto fastener.
- Adjustable RPM with built in metered air flow.

Note: Air Inlet 1/4" NPT.

Part Number	Front End	RPM (max.)	Torque	Weight
AVT-4155	Standard	1600	18 in-lbs	2.7 lbs (1.2 kgs)
AVT-4156	Guide Bushing			

Note: 550 lbs clamp up (average yield as tested with CBX series fasteners). Motor output exceeds max. recommended clamping load for fasteners smaller than 1/4" dia.

Monogram® Wedgelock Torque Control Inst. Tool



- New Atlas Copco torque control installation tool for CBX Wedgelock cylindrical body fasteners (shown on following pages).
- Dual torque control ranges are fully adjustable within each range.
- Operates with only 87-102 PSI air supply.

AVT-4158

Note: Air Inlet 1/4" NPT.

Part Number	Front End	RPM (max.)	Torque Ranges	Weight
AVT-4158	Standard	760	3.5 to 16, 10.6 to 44 in-lbs	2.4 lbs (1.1 kgs)
AVT-4159	Guide Bushing			

Manual Cylindrical Body Fastener Tool

Hand Actuated, For Both Installation & Removal



Part Number	Weight
AVT-4164	0.5 oz (14.2 g)

Cylindrical Body Temporary Fasteners



- Cylindrical design eliminates fastener-to-tool orientation issues.
- Lasting reusability with high installation & removal efficiency.
- Larger blind side bearing area reduces potential material damage in both metal and composites.
- Spring loaded models shown on next page.

Cylindrical Body - Fractional					
Hole Dia.	Color Code	Grip Range	Part Number	Body Installed	Overall Length
3/32" (#40)	Zinc	0 - 0.5"	AVT-4175	4-1/32"	3-23/64"
		0 - 1"	AVT-4177	5-1/32"	4-23/64"
		0.5 - 1.5"	AVT-4179	5-17/32"	4-23/64"
1/8" (#30)	Copper	0 - 0.5"	AVT-4181	4-1/16"	3-23/64"
		0 - 1"	AVT-4183	5-1/16"	4-23/64"
		0.5 - 1.5"	AVT-4185	5-9/16"	4-23/64"
		1.5 - 2.5"	AVT-4187	6-9/16"	4-23/64"
5/32" (#20)	Black	0 - 0.5"	AVT-4188	4-3/32"	3-23/64"
		0 - 1"	AVT-4190	5-3/32"	4-23/64"
		0.5 - 1.5"	AVT-4192	5-9/16"	4-23/64"
		1.5 - 2.5"	AVT-4194	6-5/8"	4-23/64"
3/16" (#10)	Brass	0 - 0.5"	AVT-4196	4-1/8"	3-23/64"
		0 - 1"	AVT-4198	5-1/8"	4-23/64"
		0.5 - 1.5"	AVT-4200	5-5/8"	4-23/64"
		1.5 - 2.5"	AVT-4202	6-5/8"	4-23/64"
7/32" (#2)	Zinc	0 - 0.5"	AVT-4204	4-9/64"	3-23/64"
		0 - 1"	AVT-4206	5-9/64"	4-23/64"
		0.5 - 1.5"	AVT-4208	5-41/64"	4-23/64"
		1.5 - 2.5"	AVT-4210	6-41/64"	4-23/64"
1/4" ("F")	Copper	0 - 0.5"	AVT-4212	4-5/32"	3-23/64"
		0 - 1"	AVT-4214	5-5/32"	4-23/64"
		0.5 - 1.5"	AVT-4216	5-21/32"	4-23/64"
		1.5 - 2.5"	AVT-4218	6-21/32"	4-23/64"
9/32" ("L")	Brass	0 - 0.5"	AVT-4220	4-5/32"	3-23/64"
		0 - 1"	AVT-4222	5-5/32"	4-23/64"
		0.5 - 1.5"	AVT-4224	5-21/32"	4-23/64"
		1.5 - 2.5"	AVT-4226	6-21/32"	4-23/64"
5/16" ("O")	Black	0 - 0.5"	AVT-4228	4-5/32"	3-23/64"
		0 - 1"	AVT-4230	5-5/32"	4-23/64"
		0.5 - 1.5"	AVT-4232	5-21/32"	4-23/64"
		1.5 - 2.5"	AVT-4234	6-21/32"	4-23/64"
3/8" ("V")	Black With Brass Cap	0 - 0.5"	AVT-4236	4-1/4"	3-23/64"
		0 - 1"	AVT-4238	5-1/4"	4-23/64"
		0.5 - 1.5"	AVT-4240	5-3/4"	4-23/64"
		1.5 - 2.5"	AVT-4242	6-3/4"	4-23/64"

Cylindrical Body - Metric					
Hole Dia.	Color Code	Grip Range	Part Number	Body Installed	Overall Length
2.5 mm	Black w/Zinc Nut	0 - 13 mm	AVT-4165	97.7 mm	115.1 mm
		13 - 25 mm	AVT-4166	97.7 mm	128.8 mm
3.0 mm	Copper	0 - 13 mm	AVT-4167	97.7 mm	115.9 mm
		13 - 25 mm	AVT-4168	97.7 mm	128.6 mm
3.5 mm	Copper With Brass Nut	0 - 13 mm	AVT-4169	97.7 mm	116.3 mm
		13 - 25 mm	AVT-4170	97.7 mm	129.0 mm
		25 - 38 mm	AVT-4171	97.7 mm	147.7 mm
4.0 mm	Black	0 - 13 mm	AVT-4172	97.7 mm	116.7 mm
		13 - 25 mm	AVT-4173	97.7 mm	129.4 mm
		25 - 38 mm	AVT-4174	97.7 mm	142.1 mm
		51 - 64 mm	AVT-4176	97.7 mm	155.1 mm
4.5 mm	Brass With Zinc Nut	0 - 13 mm	AVT-4178	97.7 mm	117.1 mm
		13 - 25 mm	AVT-4180	97.7 mm	129.8 mm
		25 - 38 mm	AVT-4182	97.7 mm	142.5 mm
		51 - 64 mm	AVT-4184	97.7 mm	155.5 mm
5.0 mm	Brass With Copper Nut	0 - 13 mm	AVT-4186	97.7 mm	117.5 mm
		13 - 25 mm	AVT-4189	97.7 mm	130.2 mm
		25 - 38 mm	AVT-4191	97.7 mm	142.9 mm
		51 - 64 mm	AVT-4193	97.7 mm	155.9 mm
5.5 mm	Zinc With Black Nut	0 - 13 mm	AVT-4195	97.7 mm	117.9 mm
		13 - 25 mm	AVT-4197	97.7 mm	130.6 mm
		25 - 38 mm	AVT-4199	97.7 mm	143.3 mm
		51 - 64 mm	AVT-4201	97.7 mm	156.0 mm
6.0 mm	Copper	0 - 13 mm	AVT-4203	97.7 mm	118.3 mm
		13 - 25 mm	AVT-4205	97.7 mm	131.0 mm
		25 - 38 mm	AVT-4207	97.7 mm	143.7 mm
		51 - 64 mm	AVT-4209	97.7 mm	156.4 mm
6.5 mm	Copper With Black Nut	0 - 13 mm	AVT-4211	97.7 mm	118.3 mm
		13 - 25 mm	AVT-4213	97.7 mm	131.0 mm
		25 - 38 mm	AVT-4215	97.7 mm	143.7 mm
		51 - 64 mm	AVT-4217	97.7 mm	156.4 mm
7.0 mm	Copper With Zinc Nut	0 - 13 mm	AVT-4219	97.7 mm	118.3 mm
		13 - 25 mm	AVT-4221	97.7 mm	131.0 mm
		25 - 38 mm	AVT-4223	97.7 mm	143.7 mm
		51 - 64 mm	AVT-4225	97.7 mm	156.4 mm
7.5 mm	Black With Brass Nut	0 - 13 mm	AVT-4227	97.7 mm	118.3 mm
		13 - 25 mm	AVT-4229	97.7 mm	131.0 mm
		25 - 38 mm	AVT-4231	97.7 mm	143.7 mm
		51 - 64 mm	AVT-4233	97.7 mm	156.4 mm
8.0 mm	Black	0 - 13 mm	AVT-4235	97.7 mm	118.3 mm
		13 - 25 mm	AVT-4237	97.7 mm	131.0 mm
		25 - 38 mm	AVT-4239	97.7 mm	143.7 mm
		51 - 64 mm	AVT-4241	97.7 mm	156.4 mm

Spring Loaded Cylindrical Body Temporary Fasteners



- For use in wet sealant & liquid shim applications.
- Eliminate the need for re-torquing after installation.
- Internal spring compression retains a max. of 100 lb of clamping pressure even with minor thickness variations due to sealant flow.

Spring Loaded Cylindrical Body - Fractional					
Hole Dia.	Color Code	Grip Range	Part Number	Body Installed	Overall Length
3/32" (#40)	Zinc	0 - 0.5"	AVT-4251	4-17/32"	3-27/32"
		0.5 - 1"	AVT-4253	5-1/32"	3-27/32"
		1 - 1.5"	AVT-4255	5-17/32"	3-27/32"
1/8" (#30)	Copper	0 - 0.5"	AVT-4257	4-9/16"	3-27/32"
		0.5 - 1"	AVT-4259	5-1/16"	3-27/32"
		1 - 1.5"	AVT-4261	5-9/16"	3-27/32"
		2 - 2.5"	AVT-4263	6-9/16"	3-27/32"
5/32" (#20)	Black	0 - 0.5"	AVT-4265	4-19/32"	3-27/32"
		0.5 - 1"	AVT-4267	5-3/32"	3-27/32"
		1 - 1.5"	AVT-4269	5-19/32"	3-27/32"
		2 - 2.5"	AVT-4271	6-5/8"	3-27/32"
3/16" (#10)	Brass	0 - 0.5"	AVT-4273	4-5/8"	3-27/32"
		0.5 - 1"	AVT-4275	5-1/8"	3-27/32"
		1 - 1.5"	AVT-4277	5-5/8"	3-27/32"
		2 - 2.5"	AVT-4279	6-5/8"	3-27/32"
7/32" (#2)	Zinc	0 - 0.5"	AVT-4281	4-39/64"	3-27/32"
		0.5 - 1"	AVT-4283	5-7/64"	3-27/32"
		1 - 1.5"	AVT-4285	5-39/64"	3-27/32"
		2 - 2.5"	AVT-4287	6-41/64"	3-27/32"
1/4" ('F')	Copper	0 - 0.5"	AVT-4289	4-21/32"	3-27/32"
		0.5 - 1"	AVT-4291	5-5/32"	3-27/32"
		1 - 1.5"	AVT-4293	5-21/32"	3-27/32"
		2 - 2.5"	AVT-4295	6-21/32"	3-27/32"
9/32" ('L')	Brass	0 - 0.5"	AVT-4297	4-21/32"	3-27/32"
		0.5 - 1"	AVT-4299	5-5/32"	3-27/32"
		1 - 1.5"	AVT-4301	5-21/32"	3-27/32"
		2 - 2.5"	AVT-4303	6-21/32"	3-27/32"
5/16" ('O')	Black	0 - 0.5"	AVT-4305	4-21/32"	3-27/32"
		0.5 - 1"	AVT-4307	5-5/32"	3-27/32"
		1 - 1.5"	AVT-4309	5-21/32"	3-27/32"
		2 - 2.5"	AVT-4311	6-21/32"	3-27/32"
3/8" ('V')	Black With Brass Cap	0 - 0.5"	AVT-4313	4-3/4"	3-7/8"
		0.5 - 1"	AVT-4315	5-1/4"	3-7/8"
		1 - 1.5"	AVT-4317	5-3/4"	3-7/8"
		2 - 2.5"	AVT-4319	6-3/4"	3-7/8"

Spring Loaded Cylindrical Body - Metric					
Hole Dia.	Color Code	Grip Range	Part Number	Body Installed	Overall Length
2.5 mm	Black w/Zinc Nut	0 - 13 mm	AVT-4243	97.7 mm	115.1 mm
		13 - 25 mm	AVT-4244	97.7 mm	128.8 mm
3.0 mm	Copper	0 - 13 mm	AVT-4245	97.7 mm	115.9 mm
		13 - 25 mm	AVT-4246	97.7 mm	128.6 mm
3.5 mm	Copper With Brass Nut	0 - 13 mm	AVT-4247	97.7 mm	116.3 mm
		13 - 25 mm	AVT-4248	97.7 mm	129.0 mm
		25 - 38 mm	AVT-4249	97.7 mm	147.7 mm
4.0 mm	Black	0 - 13 mm	AVT-4250	97.7 mm	116.7 mm
		13 - 25 mm	AVT-4252	97.7 mm	129.4 mm
		25 - 38 mm	AVT-4254	97.7 mm	142.1 mm
		51 - 64 mm	AVT-4256	97.7 mm	155.1 mm
4.5 mm	Brass With Zinc Nut	0 - 13 mm	AVT-4258	97.7 mm	117.1 mm
		13 - 25 mm	AVT-4260	97.7 mm	129.8 mm
		25 - 38 mm	AVT-4262	97.7 mm	142.5 mm
		51 - 64 mm	AVT-4264	97.7 mm	155.5 mm
5.0 mm	Brass With Copper Nut	0 - 13 mm	AVT-4266	97.7 mm	117.5 mm
		13 - 25 mm	AVT-4268	97.7 mm	130.2 mm
		25 - 38 mm	AVT-4270	97.7 mm	142.9 mm
		51 - 64 mm	AVT-4272	97.7 mm	155.9 mm
5.5 mm	Zinc With Black Nut	0 - 13 mm	AVT-4274	97.7 mm	117.9 mm
		13 - 25 mm	AVT-4276	97.7 mm	130.6 mm
		25 - 38 mm	AVT-4278	97.7 mm	143.3 mm
		51 - 64 mm	AVT-4280	97.7 mm	156.0 mm
6.0 mm	Copper	0 - 13 mm	AVT-4282	97.7 mm	118.3 mm
		13 - 25 mm	AVT-4284	97.7 mm	131.0 mm
		25 - 38 mm	AVT-4286	97.7 mm	143.7 mm
		51 - 64 mm	AVT-4288	97.7 mm	156.4 mm
6.5 mm	Copper With Black Nut	0 - 13 mm	AVT-4290	97.7 mm	118.3 mm
		13 - 25 mm	AVT-4292	97.7 mm	131.0 mm
		25 - 38 mm	AVT-4294	97.7 mm	143.7 mm
		51 - 64 mm	AVT-4296	97.7 mm	156.4 mm
7.0 mm	Copper With Zinc Nut	0 - 13 mm	AVT-4298	97.7 mm	118.3 mm
		13 - 25 mm	AVT-4300	97.7 mm	131.0 mm
		25 - 38 mm	AVT-4302	97.7 mm	143.7 mm
		51 - 64 mm	AVT-4304	97.7 mm	156.4 mm
7.5 mm	Black With Brass Nut	0 - 13 mm	AVT-4306	97.7 mm	118.3 mm
		13 - 25 mm	AVT-4308	97.7 mm	131.0 mm
		25 - 38 mm	AVT-4310	97.7 mm	143.7 mm
		51 - 64 mm	AVT-4312	97.7 mm	156.4 mm
8.0 mm	Black	0 - 13 mm	AVT-4314	97.7 mm	118.3 mm
		13 - 25 mm	AVT-4316	97.7 mm	131.0 mm
		25 - 38 mm	AVT-4318	97.7 mm	143.7 mm
		51 - 64 mm	AVT-4320	97.7 mm	156.4 mm

Protective Caps For Sheet Metal Fasteners

Available user-installed in soft vinyl or hard plastic, or pre-installed with the temporary fastener in soft vinyl, hard plastic or aluminum.

Soft
Vinyl
Cap



*Easy To
Install*

Cap Only - Soft Vinyl		
Part Number	Hole Diameter	For Fastener Series
AVT-4321	3/32" to 3/16"	BNX, CBX, CSX, HNX & WNX
AVT-4322	7/32" to 5/16"	
AVT-4323	3/8" Only	
AVT-4324	3/32" to 3/16"	M, MM, ML & MEL
AVT-4325	7/32" to 1/4"	
AVT-4326	3/32" to 3/16"	MHD
AVT-4327	7/32" to 1/4"	



Hard
Plastic
Caps

Cap Only - Hard Plastic		
Part Number	Hole Diameter	For Fastener Series
AVT-4328	3/32" to 1/8"	BNX, CBX, CSX, HNX & WNX
AVT-4329	5/32" to 3/16"	
AVT-4330	7/32" to 1/4"	
AVT-4331	5/16" Only	
AVT-4333	3/8" Only	



Full Assembly

Cap & Fastener Assemblies (see instructions below)		
Part Number Suffix	Type	For Fastener Series
-VC	Soft Vinyl	All Series
-PC	Hard Plastic	CBX & CSX
-ALC	Aluminum	HNX & WNX

Note: To order a cap and fastener assembly, add the required suffix (chart above) to the end of the fastener part number.

Example: To order a 1/4" hex body temporary fastener with an aluminum protective cap, the part number would be: **04-HNX-1/4-ALC**.

Hex & Wing Nut Installation Tool



- Designed to install hex & wing nut fasteners fast & economically.
- Use with any 1/4" chuck or 1/4" female sq. drive power tool.

Note: Fasteners shown not included.

Part Number	Overall Length
AVT-4336	3-1/2" (89 mm)

Sioux® Hex Body Temporary Fastener Runners



AVT-4332

AVT-4334

*Works With All
Brands & Styles Of
Hex Fasteners*

*Ergonomic
Pistol Grip*

Pistol Grip Model

Includes ergonomic comfort grip & shuttle reverse.

Pistol Grip - 0.40 hp (0.30 kW)				
Part Number	Free RPM	Torque	Overall Length	Weight
AVT-4332	2500	48 in-lbs	9-1/4" (235 mm)	2.7 lbs (1.2 kgs)

'Z' Handle Model

Smaller profile 'Z' handle perfect for limited access areas.

'Z' Handle - 0.33 hp (0.25 kW)				
Part Number	Free RPM	Torque	Overall Length	Weight
AVT-4334	2200	48 in-lbs	5-3/4" (146 mm)	2.6 lbs (1.2 kgs)

Hex Body Fastener Installation Tool



W800-10-821-CHIR

*Compact &
Lightweight*

- Drives all diameter and grip accommodations.
- Roller bearing drive system allows faster installation & removal.

Part Number	RPM	Torque
AVT-4335	2,000	32 in-lbs
AVT-4337	1,000	64 in-lbs

Hex Body Temporary Fasteners



- High clamping loads and easy installation.
- Spin-free design allows nut to completely back off stud while remaining intact on stud body.

Hex Body - Fractional					
Hole Dia.	Color Code	Grip Range	Part Number	Body Installed	Overall Length
3/32" (#40)	Zinc	0 - 0.3125"	AVT-4338	2-7/32"	2-3/8"
		0 - 0.5"	AVT-4340	2-11/16"	2-7/8"
		0 - 1"	AVT-4342	3-11/16"	3-7/8"
		0.5 - 1.5"	AVT-4344	3-47/64"	4-3/8"
1/8" (#30)	Copper	0 - 0.3125"	AVT-4346	2-7/32"	2-3/8"
		0 - 0.5"	AVT-4348	2-11/16"	2-7/8"
		0 - 1"	AVT-4350	3-11/16"	3-7/8"
		0.5 - 1.5"	AVT-4352	3-47/64"	4-3/8"
		1.5 - 2.5"	AVT-4354	3-47/64"	5-3/8"
5/32" (#20)	Black	0 - 0.3125"	AVT-4356	2-7/32"	2-3/8"
		0 - 0.5"	AVT-4358	2-11/16"	2-7/8"
		0 - 1"	AVT-4360	3-11/16"	3-7/8"
		0.5 - 1.5"	AVT-4362	3-47/64"	4-3/8"
		1.5 - 2.5"	AVT-4364	3-47/64"	5-3/8"
3/16" (#10)	Brass	0 - 0.3125"	AVT-4366	2-7/32"	2-3/8"
		0 - 0.5"	AVT-4368	2-11/16"	2-7/8"
		0 - 1"	AVT-4370	3-11/16"	3-7/8"
		0.5 - 1.5"	AVT-4372	3-47/64"	4-3/8"
		1.5 - 2.5"	AVT-4374	3-47/64"	5-3/8"
7/32" (#2)	Zinc	0 - 0.5"	AVT-4376	2-11/16"	2-7/8"
		0 - 1"	AVT-4378	3-11/16"	3-7/8"
		0.5 - 1.5"	AVT-4380	3-47/64"	4-3/8"
1/4" ('F')	Copper	0 - 0.3125"	AVT-4382	2-7/32"	2-3/8"
		0 - 0.5"	AVT-4384	2-11/16"	2-7/8"
		0 - 1"	AVT-4386	3-11/16"	3-7/8"
		0.5 - 1.5"	AVT-4388	3-47/64"	4-3/8"
		1.5 - 2.5"	AVT-4390	3-47/64"	5-3/8"
9/32" ('L')	Brass	1.5 - 2.5"	AVT-4393	3-47/64"	5-3/8"
5/16" ('O')	Black	0 - 0.5"	AVT-4395	2-11/16"	2-7/8"
		0 - 1"	AVT-4397	3-11/16"	3-7/8"
		0.5 - 1.5"	AVT-4399	3-47/64"	4-3/8"
		1.5 - 2.5"	AVT-4401	3-47/64"	5-3/8"
3/8" ('V')	Black With Brass Cap	0 - 1"	AVT-4403	3-11/16"	3-7/8"
		0.5 - 1.5"	AVT-4405	3-47/64"	4-3/8"
		1.5 - 2.5"	AVT-4407	3-47/64"	5-3/8"

Hex Body - Metric					
Hole Dia.	Color Code	Grip Range	Part Number	Body Installed	Overall Length
2.5 mm	Silver	0 - 13 mm	AVT-4339	68.8 mm	73.7 mm
		0 - 25 mm	AVT-4341	94.5 mm	99.3 mm
3.0 mm	Copper	0 - 13 mm	AVT-4343	68.8 mm	73.7 mm
		0 - 25 mm	AVT-4345	94.5 mm	99.3 mm
3.5 mm	Copper With Brass Nut	0 - 13 mm	AVT-4347	68.8 mm	73.7 mm
		0 - 25 mm	AVT-4349	94.5 mm	99.3 mm
		13 - 38 mm	AVT-4351	95.6 mm	112.2 mm
4.0 mm	Black	0 - 13 mm	AVT-4353	68.8 mm	73.7 mm
		0 - 25 mm	AVT-4355	94.5 mm	99.3 mm
		13 - 38 mm	AVT-4357	95.6 mm	112.2 mm
4.5 mm	Brass With Silver Nut	0 - 13 mm	AVT-4359	68.8 mm	73.7 mm
		0 - 25 mm	AVT-4361	94.5 mm	99.3 mm
		13 - 38 mm	AVT-4363	95.6 mm	112.2 mm
5.0 mm	Brass With Copper Nut	0 - 13 mm	AVT-4365	68.8 mm	73.7 mm
		0 - 25 mm	AVT-4367	94.5 mm	99.3 mm
		13 - 38 mm	AVT-4369	95.6 mm	112.2 mm
5.5 mm	Silver With Black Nut	0 - 13 mm	AVT-4371	68.8 mm	73.7 mm
		0 - 25 mm	AVT-4373	94.5 mm	99.3 mm
		13 - 38 mm	AVT-4375	95.6 mm	112.2 mm
6.0 mm	Copper	0 - 13 mm	AVT-4377	68.8 mm	73.7 mm
		0 - 25 mm	AVT-4379	94.5 mm	99.3 mm
		13 - 38 mm	AVT-4381	95.6 mm	112.2 mm
6.5 mm	Copper With Black Nut	0 - 13 mm	AVT-4383	68.8 mm	73.7 mm
		0 - 25 mm	AVT-4385	94.5 mm	99.3 mm
		13 - 38 mm	AVT-4387	95.6 mm	112.2 mm
7.0 mm	Silver With Copper Nut	0 - 13 mm	AVT-4389	68.8 mm	73.7 mm
		0 - 25 mm	AVT-4391	94.5 mm	99.3 mm
		13 - 38 mm	AVT-4392	95.6 mm	112.2 mm
7.5 mm	Black With Brass Nut	0 - 13 mm	AVT-4394	68.8 mm	73.7 mm
		0 - 25 mm	AVT-4396	94.5 mm	99.3 mm
		13 - 38 mm	AVT-4398	95.6 mm	112.2 mm
8.0 mm	Black	38 - 63 mm	AVT-4400	95.6 mm	137.8 mm
		0 - 13 mm	AVT-4402	68.8 mm	73.7 mm
		0 - 25 mm	AVT-4404	94.5 mm	99.3 mm
		13 - 38 mm	AVT-4406	95.6 mm	112.2 mm
		38 - 63 mm	AVT-4408	95.6 mm	137.8 mm

Wing Nut Manual Temporary Fasteners



- Hand operated - for structures requiring limited fastening or have limited access.
- User controlled clamping forces of 50-300 lbs.

Wing Nut - Fractional					
Hole Dia.	Color Code	Grip Range	Part Number	Body Installed	Overall Length
3/32" (#40)	Zinc	0 - 0.3125"	AVT-4409	2-7/32"	2-3/8"
		0 - 0.5"	AVT-4411	2-11/16"	2-7/8"
		0 - 1"	AVT-4413	3-11/16"	3-7/8"
		0.5 - 1.5"	AVT-4415	3-47/64"	4-3/8"
1/8" (#30)	Copper	0 - 0.3125"	AVT-4417	2-7/32"	2-3/8"
		0 - 0.5"	AVT-4419	2-11/16"	2-7/8"
		0 - 1"	AVT-4421	3-11/16"	3-7/8"
		0.5 - 1.5"	AVT-4423	3-47/64"	4-3/8"
		1.5 - 2.5"	AVT-4425	3-47/64"	5-3/8"
5/32" (#20)	Black	0 - 0.3125"	AVT-4427	2-7/32"	2-3/8"
		0 - 0.5"	AVT-4429	2-11/16"	2-7/8"
		0 - 1"	AVT-4431	3-11/16"	3-7/8"
		0.5 - 1.5"	AVT-4433	3-47/64"	4-3/8"
		1.5 - 2.5"	AVT-4435	3-47/64"	5-3/8"
3/16" (#10)	Brass	0 - 0.3125"	AVT-4437	2-7/32"	2-3/8"
		0 - 0.5"	AVT-4439	2-11/16"	2-7/8"
		0 - 1"	AVT-4441	3-11/16"	3-7/8"
		0.5 - 1.5"	AVT-4443	3-47/64"	4-3/8"
		1.5 - 2.5"	AVT-4445	3-47/64"	5-3/8"
7/32" (#2)	Zinc	0 - 0.5"	AVT-4447	2-11/16"	2-7/8"
		0 - 1"	AVT-4449	3-11/16"	3-7/8"
		0.5 - 1.5"	AVT-4451	3-47/64"	4-3/8"
1/4" (F)	Copper	0 - 0.3125"	AVT-4453	2-7/32"	2-3/8"
		0 - 0.5"	AVT-4456	2-11/16"	2-7/8"
		0 - 1"	AVT-4457	3-11/16"	3-7/8"
		0.5 - 1.5"	AVT-4458	3-47/64"	4-3/8"
		1.5 - 2.5"	AVT-4459	3-47/64"	5-3/8"
5/16" (O)	Black	0 - 0.5"	AVT-4460	2-11/16"	2-7/8"
		0 - 1"	AVT-4461	3-11/16"	3-7/8"
		0.5 - 1.5"	AVT-4462	3-47/64"	4-3/8"
		1.5 - 2.5"	AVT-4463	3-47/64"	5-3/8"
3/8" (V)	Black With Brass Cap	0 - 0.5"	AVT-4464	2-11/16"	2-7/8"
		0 - 1"	AVT-4465	3-11/16"	3-7/8"
		0.5 - 1.5"	AVT-4466	3-47/64"	4-3/8"
		1.5 - 2.5"	AVT-4467	3-47/64"	5-3/8"

Wing Nut - Metric					
Hole Dia.	Color Code	Grip Range	Part Number	Body Installed	Overall Length
2.5 mm	Silver	0 - 13 mm	AVT-4410	68.6 mm	73.7 mm
		0 - 25 mm	AVT-4412	94.5 mm	99.3 mm
3.0 mm	Copper	0 - 13 mm	AVT-4414	68.6 mm	73.7 mm
		0 - 25 mm	AVT-4416	94.5 mm	99.3 mm
3.5 mm	Copper w/Brass Rivet	0 - 13 mm	AVT-4418	68.6 mm	73.7 mm
		0 - 25 mm	AVT-4420	94.5 mm	99.3 mm
4.0 mm	Black	0 - 13 mm	AVT-4422	68.6 mm	73.7 mm
		0 - 25 mm	AVT-4424	94.5 mm	99.3 mm
4.5 mm	Brass w/Silver Rivet	0 - 13 mm	AVT-4426	68.6 mm	73.7 mm
		0 - 25 mm	AVT-4428	94.5 mm	99.3 mm
5.0 mm	Brass w/Cop. Rivet	0 - 13 mm	AVT-4430	68.6 mm	73.7 mm
		0 - 25 mm	AVT-4432	94.5 mm	99.3 mm
5.5 mm	Silver w/Black Rivet	0 - 13 mm	AVT-4434	68.6 mm	73.7 mm
		0 - 25 mm	AVT-4436	94.5 mm	99.3 mm
6.0 mm	Copper	0 - 13 mm	AVT-4438	68.6 mm	73.7 mm
		0 - 25 mm	AVT-4440	94.5 mm	99.3 mm
6.5 mm	Copper w/Black Rivet	0 - 13 mm	AVT-4442	68.6 mm	73.7 mm
		0 - 25 mm	AVT-4444	94.5 mm	99.3 mm
7.0 mm	Black w/Brass Rivet	0 - 13 mm	AVT-4446	68.6 mm	73.7 mm
		0 - 25 mm	AVT-4448	94.5 mm	99.3 mm
7.5 mm	Black w/Black Rivet	0 - 13 mm	AVT-4450	68.6 mm	73.7 mm
		0 - 25 mm	AVT-4452	94.5 mm	99.3 mm
8.0 mm	Black	0 - 13 mm	AVT-4454	68.6 mm	73.7 mm
		0 - 25 mm	AVT-4455	94.5 mm	99.3 mm

CLAMP & FASTENING TOOLS

Bar Nut Manual Temporary Fasteners

Easy To Operate



AVT-4482

- High clamping loads and easy installation.
- Spin-free design allows nut to completely back off stud while remaining intact on stud body.

Bar Nut - Fractional					
Hole Dia.	Color Code	Grip Range	Part Number	Body Installed	Overall Length
3/32" (#40)	Zinc	0 - 0.3125"	AVT-4471	2-7/32"	2-3/8"
		0 - 0.5"	AVT-4473	2-11/16"	2-7/8"
		0 - 1"	AVT-4475	3-11/16"	3-7/8"
		0.5 - 1.5"	AVT-4477	3-47/64"	4-3/8"
1/8" (#30)	Copper	0 - 0.3125"	AVT-4479	2-7/32"	2-3/8"
		0 - 0.5"	AVT-4481	2-11/16"	2-7/8"
		0 - 1"	AVT-4482	3-11/16"	3-7/8"
		0.5 - 1.5"	AVT-4483	3-47/64"	4-3/8"
5/32" (#20)	Black	0 - 0.3125"	AVT-4486	2-7/32"	2-3/8"
		0 - 0.5"	AVT-4488	2-11/16"	2-7/8"
		0 - 1"	AVT-4490	3-11/16"	3-7/8"
		0.5 - 1.5"	AVT-4492	3-47/64"	4-3/8"
3/16" (#10)	Brass	0 - 0.3125"	AVT-4496	2-7/32"	2-3/8"
		0 - 0.5"	AVT-4497	2-11/16"	2-7/8"
		0 - 1"	AVT-4498	3-11/16"	3-7/8"
		0.5 - 1.5"	AVT-4499	3-47/64"	4-3/8"
7/32" (#2)	Zinc	0 - 0.3125"	AVT-4501	2-11/16"	2-7/8"
		0 - 0.5"	AVT-4502	3-11/16"	3-7/8"
		0.5 - 1.5"	AVT-4503	3-47/64"	4-3/8"
		1.5 - 2.5"	AVT-4504	3-47/64"	5-3/8"
1/4" ('F')	Copper	0 - 0.3125"	AVT-4504	2-7/32"	2-3/8"
		0 - 0.5"	AVT-4505	2-11/16"	2-7/8"
		0 - 1"	AVT-4506	3-11/16"	3-7/8"
		0.5 - 1.5"	AVT-4507	3-47/64"	4-3/8"
5/16" ('O')	Black	0 - 0.3125"	AVT-4508	3-47/64"	5-3/8"
		0 - 0.5"	AVT-4509	2-11/16"	2-7/8"
		0 - 1"	AVT-4510	3-11/16"	3-7/8"
		0.5 - 1.5"	AVT-4511	3-47/64"	4-3/8"
3/8" ('V')	Black With Brass Cap	0 - 0.5"	AVT-4512	3-47/64"	5-3/8"
		0 - 0.5"	AVT-4515	2-11/16"	2-7/8"
		0 - 1"	AVT-4518	3-11/16"	3-7/8"
		0.5 - 1.5"	AVT-4521	3-47/64"	4-3/8"
		1.5 - 2.5"	AVT-4523	3-47/64"	5-3/8"

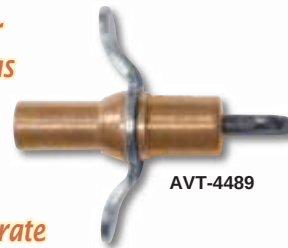
'MO' Type Manual Temporary Fasteners

Great For Tight Areas



AVT-4474

Easy To Operate



AVT-4489

Hand operated for minimal clamping loads up to 12 lbs.

MO Type - Fractional			
Hole Dia.	Color Code	Grip Range	Part Number
3/32" (#40)	Zinc	0 - 0.25"	AVT-4468
		0.25" - 0.5"	AVT-4469
1/8" (#30)	Copper	0 - 0.25"	AVT-4470
		0.25" - 0.5"	AVT-4472
5/32" (#20)	Black	0 - 0.25"	AVT-4474
		0.25" - 0.5"	AVT-4476
3/16" (#10)	Brass	0 - 0.25"	AVT-4478
		0.25" - 0.5"	AVT-4480

MO Type - Metric			
Hole Dia.	Color Code	Grip Range	Part Number
2.0 mm	Black With Brass Rivet	0 - 6.5 mm	AVT-4485
2.5 mm	Silver	0 - 6.5 mm	AVT-4487
3.0 mm	Copper	0 - 6.5 mm	AVT-4489
3.5 mm	Copper With Brass Rivet	0 - 6.5 mm	AVT-4491
4.0 mm	Black	0 - 6.5 mm	AVT-4493
4.5 mm	Silver With Brass Rivet	0 - 6.5 mm	AVT-4495

Skinpins No-Mar Manual Temporary Fasteners

AVT-4513



AVT-4516



AVT-4520



- Instantly spins up or down with the flick of a finger.
- Specially designed tip provides maximum gripping strength.
- No-mar plastic caps are color coded for easy identification.

Note: Other sizes and styles available, please inquire.

Part Number, Standard (0 to 1/2" capacity)	Part Number, Long (0 to 1" capacity)	Drill Size	Color Code
AVT-4513	AVT-4514	#40	Red
AVT-4516	AVT-4517	#30	Yellow
AVT-4519	AVT-4520	#20	Blue
—	AVT-4522	#10	Black
—	AVT-4524	1/4"	White

Aviation Snips



AVT-4527



AVT-4528



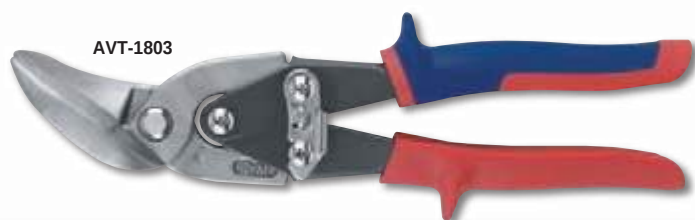
AVT-4529

- Easy cutting action on up to 18 gauge metal.
- Forged blades with serrated cutting edges to prevent slipping.
- Handles have smooth vinyl grips with thumb stops.

Part Number	Type	Cut Length	O.A.L.	Weight
AVT-4527	Straight	1-15/16" (33 mm)	10" (254 mm)	0.8 lbs (0.4 kgs)
AVT-4528	Right & Straight			
AVT-4529	Left & Straight			

Part Number	Description
AVT-1741	3 PC Set (left, right & straight)

Offset Snips



AVT-1803



AVT-1804

Part Number	Cut	Cut Length	Overall Length
AVT-1803	Left & Straight	1-15/16" (33 mm)	9-1/2" (241 mm)
AVT-1804	Right & Straight		

Note: Cuts straight, sharp angles in one direction & 5" circles in the other direction.

Part Number	Description
AVT-4535	2 PC Set (left & right)

Compound Action Offset Snips



AVT-4525

Ideal For Tight Spaces



AVT-4526

Made In The USA

- Long lasting, hot drop forged molybdenum alloy steel blades.
- Compound leverage handle action multiplies handle force.
- Ergonomic design can be used in a blade up or down position.

Part Number	Cut	Cut Length	Overall Length
AVT-4525	Left & Straight	1-3/4" (45 mm)	10-7/8" (276 mm)
AVT-4526	Right & Straight		

Standard Tinner Snips



AVT-4531

Flat inside edge guides straight cutting.

Note: For straight cuts, wide curves & notching.

Part No.	Cut Length	Overall Length	Weight
AVT-4530	1-1/2"	7" (178 mm)	0.5 lbs (0.2 kgs)
AVT-4531	2"	10" (254 mm)	0.6 lbs (0.3 kgs)
AVT-4532	2-3/4"	12-3/4" (320 mm)	1.6 lbs (0.7 kgs)

Duckbill Tinner Snips



AVT-4533

Hot Forged Molybdenum Steel

7" model great for cutting shims & gaskets.

Note: For cutting patterns & smooth, tight curves in either direction.

Part No.	Cut Length	Overall Length	Weight
AVT-4533	2"	7" (178 mm)	0.5 lbs (0.2 kgs)
AVT-4534	2"	10" (254 mm)	0.6 lbs (0.3 kgs)
AVT-4536	2-3/4"	12-3/4" (320 mm)	1.6 lbs (0.7 kgs)

HAND TOOLS

Bulldog Pattern Tinner Snips

Made In The USA



Heavy-Duty, High Leverage

- Hot drop forged molybdenum alloy steel construction.
- Long lasting blades will cut up to 16 gauge cold rolled steel.

Note: For straight cuts & heavy gauge notching.

Part No.	Cut Length	Overall Length	Weight
AVT-4537	2-1/4"	16" (406 mm)	3.8 lbs (1.7 kgs)

Malco® Aluminum Handle Snips

- Versatile snips with sleek head design and a full 3" cut length.
- Easy blade replacement and comfortable, larger handle loops.



*1/3 The Weight
Of Steel Types*

Note: Cuts straight & mild curve cuts. Will also cut multiple layered material.

Pattern Snips			
Part Number	Cut Length	Overall Length	Weight
AVT-4540	3"	12" (305 mm)	1.1 lbs (0.5 kgs)
AVT-4541	3-1/4"	14" (356 mm)	1.3 lbs (0.6 kgs)

*Made In
The USA*



Note: Cuts straight & left or right circles down to 6" diameter.

Combination Snips			
Part Number	Cut Length	Overall Length	Weight
AVT-4542	3"	12" (305 mm)	1.1 lbs (0.5 kgs)
AVT-4543	3-1/4"	14" (356 mm)	1.3 lbs (0.6 kgs)

Replacement Blades			
Part Number	For Tool	Part Number	For Tool
AVT-4544	AVT-4540	AVT-4545	AVT-4542
AVT-4546	AVT-4541	AVT-4547	AVT-4543

Light Metal Cutting Snips

*Forged, High Quality
Tool Steel*



AVT-4539

- Short & powerful precision ground blades.
- Superior hardened edges for cutting light metal.

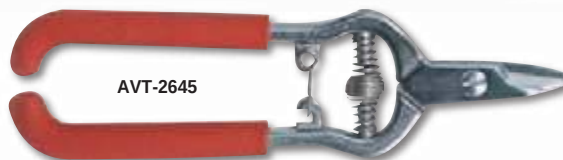
Part Number	Blade Type	Cut Length	Overall Length
AVT-4538	Straight	3/4"	7"
AVT-4539	Curved	(19 mm)	(178 mm)

Kevlar Fabric Hand Shears & Scissors

AVT-2638



AVT-2645



AVT-1879



Note: For cordless electric kevlar scissors see page 233.

Part Number	Type	Cut Length	Overall Length
AVT-2645	Trim Snip	3/4"	5" (127 mm)
AVT-2638	Knife Edge	2-3/4"	8-1/4" (210 mm)
AVT-1879	Serrated	4-1/2"	10" (254 mm)



For Pneumatic Shears & Scissors See Pages 96-97

Pinking Shears



- Lightweight & durable ABS plastic handle.
- Deep cut teeth are specially hardened for long wear.
- High quality stainless steel blades with ravel-resistant edge.

Part Number	Overall Length
AVT-4548	8" (203 mm)

Malco® Notcher



- Ergo handles with a powerful 7:1 mechanical advantage.
- Drop forged jaw makes clean, 30° v-shaped cuts in sheet metal.
- Hardened all-steel construction and a nickel chrome finish.

Part Number	Steel Capacity	Throat	Overall Length	Weight
AVT-4549	24 Gauge	13/16"	8" (203 mm)	16 oz (0.5 kgs)

Quick-Snip Hand Nibbler



- Heavy-duty, industrial quality.
- No distorting, burring or curling at edges of cut.

Part Number	Capacity Steel	Capacity Aluminum
AVT-4553	18 Gauge	15 Gauge

Malco® Hand Seamers



- Drop-forged jaws with graduated 1/4 inch depth markings.
- Easily bend flanges or completely flatten seams from 1/4 to 1-1/4 inch deep in 24 gauge galvanized or mild steel.
- Ergo handles with a powerful 7:1 mechanical advantage.

Part Number	Jaws	Overall Length	Weight
AVT-4550	3-1/4" W x 1-1/4" D	8-3/4" (222 mm)	24 oz (0.68 kgs)
AVT-4551	3-1/4" W x 1-1/4" D	8-1/2" (216 mm)	24 oz (0.68 kgs)
AVT-4552	6" W x 1-1/4" D	8-3/4" (222 mm)	30 oz (0.85 kgs)

Hand Seamer



Part Number	Jaws	Overall Length	Weight
AVT-1736	3-1/2" W x 1" D	8" (203 mm)	1.1 lbs (0.5 kgs)

HAND TOOLS

Narrow Type Fluting Pliers



AVT-1733

Makes narrow, precise flutes for straightening ribs and bulkheads.

Part Number	Overall Length
AVT-1733	10" (254 mm)

Malco® Crimpers



Made In The USA

Easy To Use

AVT-4558

AVT-4559

Ergo Handle

Single Blade Crimper

- Fast, easy to use & lightweight.
- Zinc plated steel construction with comfortable plastic grips.

Five Blade Crimper

- Ergo handles with a powerful 7:1 mechanical advantage.
- Handle closing stop maintains a consistent crimp.
- Hardened all-steel construction and a nickel chrome finish.

Part Number	Blade	Throat Depth	Overall Length	Weight
AVT-4558	Single	1-1/4" D	8" (203 mm)	8 oz (0.25 kgs)
AVT-4559	Five	1-5/8" D	7-5/8" (244 mm)	17 oz (0.5 kgs)

Camloc Pliers



- For Camloc fasteners.
- With black-ox coating & rubber grips.

Part Number	For Use With
AVT-1806	2600, 2700 & 4002 Stud Series

A-N Electrical Connector Pliers



Three Adjustment Positions

Powerful & Non-Marring

With replaceable nylon inserts for protection of A-N connectors.

Part Number	Description
AVT-4554	A-N Electrical Connector Pliers
AVT-4555	Replacement No-Mar Pads

Line Clamp Pliers



AVT-4557

- Holds the clamp bolt, compresses & retains the line clamp(s).
- Up to three clamps on one assembly can be held in position by the retaining pawl.
- More than three clamps or clamps with spacers can be handled manually.
- For use on #10 hex or #10 12 point screws (3/8" hex heads).

Part Number	For Use With
AVT-4556	Clamps or studs anchored on flat surfaces.
AVT-4557	Tubes and wires clamped with point of screw on back of the clamp.

Cushioned Clamp Installation Pliers



NEW

Notched-nose locking pliers and alignment awl help simplify the installation of single or multiple 'Adel' type cushioned clamps.

Part Number	Includes
AVT-4560	Pliers, Alignment Awl & Instructions

Locking Jaw Pliers



Classic Design

AVT-4567
Fast Release

Classic design is constructed from high-grade heat treated alloy steel for maximum toughness and durability.

NEW Fast Release Models

- Redesigned tactile grip zone helps improve user control and is suited for high-temperature applications.
- One-handed, triggerless release is two times easier to open than traditional locking pliers.
- 10" models feature a 20% reduced hand span for greater control and helps reduce hand strain.



AVT-4566
Original

Straight Jaw Locking Pliers

Original Part Number	Fast Release Part Number	Jaw Capacity	Overall Length	Weight
AVT-4566	AVT-4567	0 to 1-1/2"	7" (178 mm)	0.9 lbs (0.4 kgs)
AVT-4569	AVT-4570	0 to 1-7/8"	10" (254 mm)	1.3 lbs (0.6 kgs)



AVT-4580

Curved Jaw Locking Pliers

Original Part Number	Fast Release Part Number	Jaw Capacity	Overall Length	Weight
AVT-4572	AVT-4573	0 to 1-1/2"	7" (178 mm)	0.8 lbs (0.4 kgs)
AVT-4574	AVT-4575	0 to 1-7/8"	10" (254 mm)	1.2 lbs (0.5 kgs)

Curved Jaw Locking Pliers with Wire Cutter

Original Part Number	Fast Release Part Number	Jaw Capacity	Overall Length	Weight
AVT-4576	—	0 to 1"	4" (102 mm)	0.3 lbs (0.14 kgs)
AVT-4577	AVT-4578	0 to 1-1/8"	5" (127 mm)	0.4 lbs (0.18 kgs)
AVT-4579	AVT-4580	0 to 1-1/2"	7" (178 mm)	0.8 lbs (0.4 kgs)
AVT-4581	AVT-4582	0 to 1-7/8"	10" (254 mm)	1.2 lbs (0.5 kgs)

Locking Jaw Pliers (cont'd)

Other Models Available, Please Inquire



AVT-4563

Long Nose Tapered Jaw Locking Pliers

Original Part Number	Fast Release Part Number	Jaw Capacity	Overall Length	Weight
AVT-4561	—	0 to 1-5/8"	4" (102 mm)	0.3 lbs (0.14 kgs)
AVT-4562	AVT-4563	0 to 2"	6" (152 mm)	0.4 lbs (0.18 kgs)
AVT-4564	AVT-4565	0 to 2-3/4"	9" (229 mm)	0.9 lbs (0.4 kgs)



AVT-4568

Locking Large Jaw

Heavy-duty jaw locks around work of all shapes and will not slip.

Part Number	Maximum Opening	Overall Length
AVT-4568	3-1/8" (79 mm)	12" (305 mm)



AVT-4571

Locking Sheet Metal Tool

Makes bending, forming and crimping jobs faster and easier.

Part No.	Jaw Size	Overall Length	Weight
AVT-4571	1-3/4" D x 3-1/8" W	8" (203 mm)	1.3 lbs (0.6 kgs)



AVT-4583

Welding Clamp

Deep-throated U-shaped jaws hold work in proper alignment.

Part No.	Jaw Size	Overall Length	Weight
AVT-4583	2-3/4" D x 1-5/8" W	9" (229 mm)	1.4 lbs (0.6 kgs)

HAND TOOLS

Leatherman® Multi-Purpose Tools

Limited Warranty &
25 Year Guarantee



100%
Stainless
Steel

Leather Case
Included

Made In
The USA

Super Tool 300 Includes:

Needlenose Pliers; Regular Pliers; Wire Cutters; Hard Wire Cutters; Stranded Wire Cutters; Electrical Crimper; Wire Stripper; Knife; Serrated Knife; Saw; Awl w/Thread Loop, 9" Ruler (22 cm); Can Opener; Bottle Opener; Wood/Metal File; Phillips Screwdriver; Flat Screwdrivers (small, medium & large)

Part Number	Closed Length	Weight
AVT-4588	4-1/2" (11.5 cm)	9.6 oz (272 g)

Wave Includes:

Needlenose Pliers; Regular Pliers; Wire Cutters; Hard Wire Cutters; Wire Stripper; Knife; Serrated Knife; Saw; Spring Action Scissors, 8" Ruler (19 cm); Can Opener; Bottle Opener; Wood/Metal File; Diamond Coated File; Bit Drivers (small & large), Flat Screwdriver (medium)

Part Number	Closed Length	Weight
AVT-4590	4" (10 cm)	8.5 oz (241 g)

Crunch Includes:

Regular Pliers; Locking Pliers; Wire Cutters; Hard Wire Cutters; Wire Stripper; Serrated Knife; 8" Ruler (19 cm); Pin Vise; Bottle Opener; Wood/Metal File; 1/4" Hex Bit Driver, Phillips Screwdriver; Flat Screwdrivers (small, medium & large)

Part Number	Closed Length	Weight
AVT-4591	4" (10 cm)	6.9oz (196 g)

Cylinder Base Nut Wrenches

For
Continental
Engines

Forged Alloy
Steel

12 Point Hex
Wrench End



- Designed with a 1/2" square drive and built to last.
- Extra thin hex heads for easy access over the cylinder bolts.
- Made from tough, heat-treated alloy steel forging.

Part Number	Hex	For Use With Engine	Weight
AVT-4584	9/16"	C85, 0-200, 0-300, G0-300, E-185, E-225, 0 & IO-470, IO-360, IO-520	0.88 lbs (0.4 kgs)
AVT-4585	1/2"	A-65, C-85, 0-200, 0-300, G0-300, E-185, E-225, IO-360	
AVT-4586	5/8"	A-65, 0-470, IO-520	
AVT-4587	3/4"	Lycoming 0-390D, D2 and all wide deck lycoming engines.	

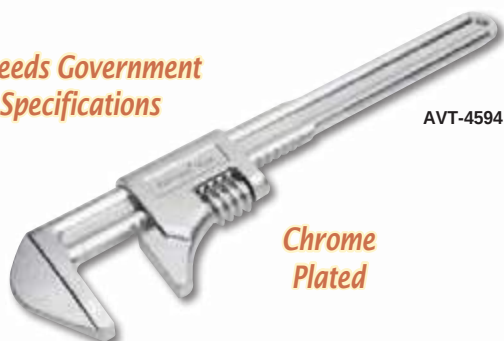
Part Number	Description
AVT-4589	Complete 4 PC Set



For Torque & Pneumatic Wrenches See Pages 135-137

Crescent® "Ford" Wrenches

Exceeds Government Specifications



AVT-4594

Chrome Plated

- Precision machined from Crescent® special analysis tool steel.
- Adjustable, smooth jaws for no-mar installation & removal of aircraft fittings manufactured by Crescent®. Chrome plated.

Part Number	Jaw Opening	Overall Length
AVT-4592	2-3/4" (70 mm)	9" (229 mm)
AVT-4593	3" (76 mm)	11" (279 mm)
AVT-4594	3-5/8" (92 mm)	15" (381 mm)
AVT-4595	4-3/8" (111 mm)	18" (457 mm)

Gearwrench® Socket Sets

Includes Fitted Case



AVT-4604

- 84 tooth full polish chrome thin profile ratchet.
- Knurled full polish chrome extensions*.
- Sockets feature Surface-drive® tech to reduce fastener rounding.
- Full polish chrome sockets with large hard stamp size markings.

Part Number	Type	Drive	Size Range
AVT-4604	21PC SAE Deep & Standard Set	3/8"	3/8" to 3/4"
AVT-4606	14PC Metric Set	1/4"	4 to 13 mm

*80326 includes 2" & 6", 80557 includes 3" & 6".

Bondhus® T-Handle Hex Key Sets

Graduated Lengths

- Handle & blade are securely welded and will never loosen.
- Ergonomic handles shaped for comfort & control.
- Handle sizes are engineered to match torque capabilities.
- High torque steel construction with corrosion resistant finish.

Made In The USA



AVT-4596



Balldriver Tip



Hex Tip

Note: Other sizes available, please inquire.

Part Number	Tip Style	Set	Size Range
AVT-4596	Balldriver*	10 PC Inch	3/32" to 3/8"
AVT-4597	Hex	10 PC Inch	3/32" to 3/8"
AVT-4598	Balldriver*	8 PC Metric	2 to 10 mm
AVT-4599	Hex	8 PC Metric	2 to 10 mm

*3/32 to 9/64" and 2 to 3 mm keys are straight hex to prevent breakage.

Bondhus® Hex Key Sets



AVT-4607

AVT-4602

Made In The USA

- Chamfered tips for fast insertion & full tool engagement.
- Marked & color coded case keeps keys organized.
- High torque steel construction with corrosion resistant finish.



ProHold Tip



Balldriver Tip



Hex Tip

Note: Other sizes available, please inquire.

Part Number	Tip Style	Set	Size Range
AVT-4600	ProHold	13 PC Inch	0.050" to 3/8"
AVT-4601	Balldriver	13 PC Inch	0.050" to 3/8"
AVT-4602	Hex	13 PC Inch	0.050" to 3/8"
AVT-4603	ProHold	9 PC Metric	1.5 to 10 mm
AVT-4605	Balldriver	9 PC Metric	1.5 to 10 mm
AVT-4607	Hex	9 PC Metric	1.5 to 10 mm

HAND TOOLS

Bondhus® Balldriver Hex Key Singles

Made In The USA



- Chamfered tips for fast insertion and full tool engagement.
- High torque steel construction with corrosion resistant finish.



Balldriver Tip

Note: Other sizes & styles available, please inquire.

Part Number	Hex Size	Overall Length
AVT-4611	0.050"	2.8" (72 mm)
AVT-4614	1/16"	3.0" (76 mm)
AVT-4617	5/64"	3.2" (81 mm)
AVT-4620	3/32"	3.4" (86 mm)
AVT-4623	7/64"	3.6" (90 mm)
AVT-4626	1/8"	3.8" (95 mm)
AVT-4629	9/64"	4.0" (101 mm)
AVT-4632	5/32"	4.2" (107 mm)
AVT-4633	3/16"	4.5" (114 mm)
AVT-4634	7/32"	4.9" (124 mm)
AVT-4636	1/4"	5.6" (141 mm)
AVT-4637	5/16"	6.0" (152 mm)
AVT-4638	3/8"	6.8" (171 mm)

Bondhus® GorillaGrip® Fold-Up Hex Key Sets



Handle 40% Stronger Than Steel Handles

Made In The USA

- Handle does not conduct heat or cold.
- High torque steel hex keys with corrosion resistant finish.
- 90° stop converts tool into a non-stop, time saving speed wrench.

Note: Other sizes & styles available, please inquire.

Part Number	Type	Size Range
AVT-4639	9 Key Inch Set	5/64" to 1/4"
AVT-4641	9 Key Inch Set	.050" to 3/16"
AVT-4643	7 Key Metric Set	2 to 8 mm

Bristol® Spline Drive Keys



4 & 6 Flute Design

Spline drive tools offer superior torque transmission because nearly 100% of the force is applied at right angles to the load bearing spline surfaces of the socket.

Major Diameter	Flute Count	Part Number Short*	Part Number Long*
0.033"	4	AVT-4608	—
0.048"	4	AVT-4609	AVT-4610
0.048"	6	AVT-4612	AVT-4613
0.060"	6	AVT-4615	AVT-4616
0.069"	4	AVT-4618	AVT-4619
0.072"	6	AVT-4621	AVT-4622
0.076"	4	AVT-4624	AVT-4625
0.096"	6	AVT-4627	AVT-4628
0.111"	6	AVT-4630	AVT-4631

*Approximate overall lengths: short keys 1-1/4" to 2-1/2", long keys 3" to 4".

Part Number	Description
AVT-4635	10 PC Kit: All Nine Short Keys & Carrying Case

Note: Other sizes, styles & kits available, please inquire.

Hex Drivers



- General use & production assembly using socket screw products.
- Includes adjustable, replaceable Allen bit & bit change key.

Part Number	Key Size	Part Number	Key Size
AVT-3551	.028"	AVT-3552	7/64"
AVT-3553	1/16"	AVT-3554	1/8"
AVT-3556	5/64"	AVT-3555	9/64"
AVT-3557	3/32"		

Ball Pein Hammers



- Ideal for driving punches, chisels & other metalwork.
- Heads are drop-forged and carefully heat treated for long life.

Note: Other sizes available, please inquire.

Part Number	Face Diameter	Overall Length	Weight
AVT-4640	1"	10-7/16" (27 cm)	8 oz (227 g)
AVT-4642	1-1/8"	12-1/2" (32 cm)	12 oz (340 g)
AVT-4644	1-1/4"	13-5/8" (35 cm)	16 oz (454 g)

Brass Hammers

Non-Slip Cushion Grip



AVT-4647

Non-Sparking

- The flat surface brass head absorbs impact blows, reduces rebound and helps eliminate marred work surfaces.
- Sturdy fiberglass handle with non-slip cushion grip for greater comfort & safety.

Part Number	Face Diameter	Overall Length	Weight
AVT-4647	1"	10" (25.4 cm)	24 oz (680 g)

Grobet® Double Face Nylon Hammers

Non-Marring Replaceable Faces



AVT-4650

Great For Forming & Bending

- Excellent for general metal work.
- Comfortable rubber grip plastic handle.
- Simple to replace screw off face sets (available below).

Part Number Hammer	Part Number Rep. Face Set	Face Diameter	Overall Length	Weight
AVT-4650	AVT-4651	1-1/4"	12-1/4" (31 cm)	1.2 lbs (0.5 kgs)
AVT-4652	AVT-4653	1-1/2"	12-1/4" (31 cm)	1.6 lbs (0.7 kgs)
AVT-4654	AVT-4655	1-3/4"	12-1/4" (31 cm)	2.1 lbs (0.9 kgs)
AVT-4656	AVT-4657	2"	15-1/2" (39 cm)	2.5 lbs (1.1 kgs)

Deadblow Hammers

Non-Marring & Non-Sparking



AVT-4662

Ergonomically Designed Handle

- Hard urethane construction resists head cuts & damage.
- Hammer will not absorb liquids - made in the USA.

Part Number	Face Diameter	Overall Length	Weight
AVT-4661	1-9/16"	12" (30.5 cm)	16 oz (454 g)
AVT-4662	1-3/4"	12-3/4" (32.4 cm)	24 oz (680 g)
AVT-4663	2"	13-1/2" (34.3 cm)	32 oz (907 g)

Garland® Mallets

Hickory Handles

AVT-4646



Made In The USA

Rawhide Mallets

- The best striking tool for metalwork, tool & die work.
- Prime-grade water buffalo hide head is tough & non-marring.

Part Number	Face Diameter	Head Length	Weight
AVT-4645	1-1/2"	3"	6 oz (170 g)
AVT-4646	2"	3-1/2"	11 oz (312 g)



AVT-4649

Plastic Mallets

Head made from ultra-high-molecular-weight plastic that is non-porous, easy to clean & non marring on most surfaces.

Part Number	Face Diameter	Head Length	Weight
AVT-4648	1-1/2"	3-1/2"	6 oz (170 g)
AVT-4649	2-1/2"	4-7/8"	19 oz (539 g)



AVT-4659

Bossing Mallets

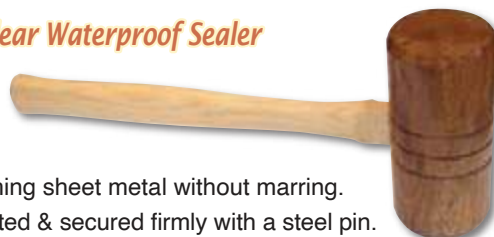
- Provides two different radii perfect for forming sheet metal.
- Head made from ultra-high-molecular-weight plastic that is nonporous, easy to clean & non marring on most surfaces.

Part Number	Face Diameter	Head Length	Weight
AVT-4658	2"	6-1/2"	16 oz (454 g)
AVT-4659	2-1/2"	6-3/4"	20 oz (567 g)
AVT-4660	3"	8"	24 oz (680 g)

Note: Many other sizes & styles available, please inquire.

Genuine Hickory Mallet

Coated In Clear Waterproof Sealer



- Ideal for forming sheet metal without marring.
- Head cemented & secured firmly with a steel pin.

Part Number	Head Size	Overall Length	Weight
AVT-4664	2-1/2" D x 5-1/2" L	13" (330 mm)	16 oz (454 g)

SANDERS & GRINDERS

Dynabrade® Orbital Action Sanders



- Thumb control for regulation of tool speed.
- High strength composite rotor with long lasting blades.
- Includes premium low profile sanding pad.

Note: All Models: Air Inlet 1/4" NPT (use 1/4" I.D. air hose).

Non-Vacuum, 0.25hp (0.19 kW) - 3/16" Orbit				
Part Number	Capacity	RPM	O.A.L.	Weight
AVT-4665	5" Disc	12,000	6-1/2" (165 mm)	1.4 lbs (0.5 kgs)
AVT-4666*	6" Disc	12,000	7" (178 mm)	1.5 lbs (0.6 kgs)

*NSN: 5130-01-516-2219



Central Vacuum & 1" Vacuum Port, 0.25hp (0.19 kW) - 3/16" Orbit				
Part Number	Capacity	RPM	O.A.L.	Weight
AVT-4671	5" Disc	12,000	7-1/4" (184 mm)	1.5 lbs (0.6 kgs)
AVT-4672*	6" Disc	12,000	7-3/4" (197 mm)	1.5 lbs (0.6 kgs)

*NSN: 5130-01-561-4875



Self-Generated Vacuum*, 0.25hp (0.19 kW) - 3/16" Orbit				
Part Number	Capacity	RPM	O.A.L.	Weight
AVT-4673	5" Disc	12,000	8-1/2" (216 mm)	1.5 lbs (0.6 kgs)
AVT-4674	6" Disc	12,000	9" (229 mm)	1.5 lbs (0.6 kgs)

*Self generating vacuum models use optional hose & floor bag, please inquire.

Dynabrade® Rotary/Orbital Action Sanders



- Two tools in one - easily change from a rotary disc sander to random orbital sander with the flip of a switch.
- Unique "wobble" drive geometry for aggressive interrupted work surface contact with less heat & loading for longer abrasive life.
- Great for sanding, shaping, forming & feather edging.
- Extra muffling & polypropylene motor cover for quiet operation.

Note: Air Inlet 1/4" NPT (use 3/8" I.D. air hose).

Non-Vacuum, 0.25hp (0.19 kW) - 3/8" Orbit				
Part Number	Capacity	RPM	O.A.L.	Weight
AVT-4667	5" Disc	10,000	9-1/2" (241 mm)	4.5 lbs (2.0 kgs)
AVT-4668	6" Disc	10,000	10" (254 mm)	4.5 lbs (2.0 kgs)

Central Vacuum, 0.25hp (0.19 kW) - 3/8" Orbit				
Part Number	Capacity	RPM	O.A.L.	Weight
AVT-4669	5" Disc	10,000	11-13/16" (30 cm)	5.3 lbs (2.4 kgs)
AVT-4670	6" Disc	10,000	11-13/16" (30 cm)	5.4 lbs (2.5 kgs)

Dynabrade® Dynabug® Orbital Action Sander



- Comfortable palm control with a 3/16" stroke that is aggressive enough for knock-down, but controllable enough for finish work.
- Great for feather edging, finish sanding, blending & blocking.

Note: Air Inlet 1/4" NPT (use 1/4" I.D. air hose).

Non-Vacuum, 0.24hp (0.18 kW) - 3/16" Orbit				
Part Number	Capacity	RPM	O.A.L.	Weight
AVT-4675	3-5/8" x 7" Pad	8000	7-1/4" (184 mm)	2.8 lbs (1.3 kgs)

Dynabrade® Dynafine® Vacuum Detail Sander



- Perfect for carbon fiber, fiberglass, painted aluminum etc.
- Accepts various pad shapes for countless applications.
- Efficiently diverts dust, captures debris & contaminants (including hexavalent chromium) for a safer workplace.
- Includes Dynaswivel, swivel cuff for added hose flexibility & tear-drop shaped, vinyl face vacuum sanding pad.
- 1-1/4" diameter vacuum port ready for connection to external or central vacuum system (not included).

Note: Air Inlet 1/4" NPT (use 1/4" I.D. air hose).

Please inquire for specially shaped tear-drop, triangle & round abrasives.

Central Vacuum, 0.12 hp (0.09 kW) - 1/32" Orbit, 7° Offset Handle				
Part Number	Capacity	RPM	O.A.L.	Weight
AVT-4677	See Below	15,000	11-3/8" (29 cm)	1.8 lbs (0.8 kgs)



AVT-4683



AVT-4684

Dynafine Vacuum Sanding Pads		
Vinyl Face	Hook Face	Shape
AVT-4681	AVT-4682	Tear-Drop
AVT-4683	AVT-4684	Triangular
AVT-4685	AVT-4686	Round



For Air Hose & Accessories See Pages 208-210

Dynabrade® Vacuum Shroud Disc Sanders



- Efficient & clean material removal on non-ferrous surfaces.
- Perfect for carbon fiber, fiberglass, painted aluminum etc.
- High quality clear urethane shroud with sanding disc viewport captures debris & contaminants (incl. hexavalent chromium).
- 6° shroud angle allows ideal surface contact & debris extraction.

3" Diameter, Right Angle - Self-Generated Vacuum

1" diameter vacuum port ready for connection to portable or external dust collection system (not included).

Self-Generated Vacuum 0.4 hp (0.30 kW)					
Part Number	Capacity	RPM	Shroud*	O.A.L.	Weight
AVT-4676	3" Disc	15,000	1" Height	9-11/16" (24.7 cm)	1.7 lbs (0.7 kgs)
AVT-4678	3" Disc	15,000	1-1/2" Height	9-11/16" (24.7 cm)	1.7 lbs (0.7 kgs)

3" Diameter, Right Angle - Central Vacuum

1-1/4" diameter vacuum port ready for connection to external or central vacuum system (not included).

Central Vacuum 0.4 hp (0.30 kW)					
Part Number	Capacity	RPM	Shroud*	O.A.L.	Weight
AVT-4679	3" Disc	15,000	1" Height	9-11/16" (24.7 cm)	1.7 lbs (0.7 kgs)
AVT-4680	3" Disc	15,000	1-1/2" Height	10" (25.4 cm)	1.7 lbs (0.7 kgs)



AVT-4687



AVT-4688

Replacement Vacuum Shrouds

Flexible shrouds can be trimmed for custom applications.

Part Number	Shroud Height*
AVT-4687	1" (25.4 mm)
AVT-4688	1-1/2" (38 mm)

*1" shroud models will accommodate 3" diameter locking-type abrasive discs, 1-1/2" shroud models will accommodate 3" diameter bristle-type discs. Air Inlet 1/4" NPT (use 1/4" I.D. air hose). 1/4"-20 male spindle thread. Rated @ 90 psi.

SANDERS & GRINDERS

Dynabrade® Vac. Shroud Disc Sanders (cont'd)



AVT-4689

2" Diameter, 7° Offset - Central Vacuum

1-1/4" diameter vacuum port ready for connection to external or central vacuum system (not included).

Central Vacuum 0.4 hp (0.30 kW) - 7° Offset Handle				
Part Number	Capacity	RPM	O.A.L.	Weight
AVT-4689	2" Disc	25,000	10-1/4" (24.7 cm)	1.7 lbs (0.7 kgs)

Part Number	Description
AVT-4690	Replacement Vacuum Shroud

Economy Mini Angle Sander Kit



AVT-4702

- Comfortable pistol grip design.
- 15,000 RPM direct drive motor (no angled gears) for longer life.

Complete Kit Includes:

Pistol Grip Mini Sander, 2" & 3" Sanding Pads, 2" & 3" Sanding Discs (62 total in assorted grits), & Sturdy Fitted Carrying Case

Part Number	Description
AVT-4702	Complete 66 PC Kit

APEX® Right Angle Disc Sanders



AVT-4691

AVT-4698

20% Higher
Working Speed

33%
More
Power

Simplified Maintenance,
No Shims Required

- 1/2" carbide burr, 1" mounted wheel capacity (disc capacity shown in charts below).
- Collet models use 300 series collet (included with tool).
- Many other models available, please inquire.

Composite Housing Models

Dual-material composite w/cushioned areas for comfort & control.

Note: Air Inlet 1/4" NPT. Rated @ 90 psi.

Composite Housing, 0.4 hp (0.30 kW) - 1/4" Collet					
F. Exhaust	R. Exhaust	Capacity	RPM	O.A.L.	Weight
AVT-4691	AVT-4692	3" Disc	12,000	6.6" (168 mm)	1.1 lbs (0.5 kgs)
AVT-4693	AVT-1887	2" Disc	20,000	6.6" (168 mm)	1.1 lbs (0.5 kgs)

Composite Housing, 0.4 hp (0.30 kW) - 1/4"-28 Int. Thread				
Front Exhaust	Capacity	RPM	O.A.L.	Weight
AVT-4694	3" Disc	12,000	6.6" (168 mm)	1.1 lbs (0.5 kgs)
AVT-4695	2" Disc	20,000	6.6" (168 mm)	1.1 lbs (0.5 kgs)

Aluminum Housing Models

Rugged aluminum body for maximum durability.

Note: Air Inlet 1/4" NPT. Rated @ 90 psi.

Aluminum Housing, 0.4 hp (0.30 kW) - 1/4" Collet					
F. Exhaust	R. Exhaust	Capacity	RPM	O.A.L.	Weight
AVT-4696	AVT-4697	3" Disc	12,000	6.6" (168 mm)	1.1 lbs (0.5 kgs)
AVT-4698	AVT-4699	2" Disc	20,000	6.6" (168 mm)	1.1 lbs (0.5 kgs)

Aluminum Housing, 0.4 hp (0.30 kW) - 1/4"-28 Int. Thread				
Front Exhaust	Capacity	RPM	O.A.L.	Weight
AVT-4700	3" Disc	12,000	6.6" (168 mm)	1.1 lbs (0.5 kgs)
AVT-4701	2" Disc	20,000	6.6" (168 mm)	1.1 lbs (0.5 kgs)

Dynabrade® Dynafile



*Quick Belt
Change Design*

- Work metal, plastic, fiberglass & composites.
- Motor easily adjusts for the most comfortable throttle lever position.
- Over 30 interchangeable contact arms available, please inquire.

0.5 hp (.37 kW) - Straight Handle				
Part Number	Capacity	RPM	O.A.L.	Weight
AVT-4703	1/8" to 1/2" x 24" Belt	20,000	14-5/8" (371 mm)	3.3 lbs (1.5 kgs)

Dynabrade® Dynafile II



*7° Offset
Ergo Handle*

*Grinding Head
Pivots 360°*

- Work metal, plastic, fiberglass & composites.
- Motor easily adjusts for the most comfortable throttle lever position.
- Over 30 interchangeable contact arms available, please inquire.

0.5 hp (.37 kW) - 7° Offset Handle				
Part Number	Capacity	RPM	O.A.L.	Weight
AVT-4706	1/4" to 3/4" x 18" Belt	20,000	14-1/4" (362 mm)	2.8 lbs (1.3 kgs)

NSN: 3419-01-502-3640

Dynabrade® Mini-Dynafile II



*7° Offset
Ergo Handle*

- Work metal, plastic, fiberglass & composites.
- Ergo handle with 7° offset design.
- Motor easily adjusts for the most comfortable throttle lever position.
- Over 30 interchangeable contact arms available, please inquire.

0.4 hp (.30 kW) - 7° Offset Handle				
Part Number	Capacity	RPM	O.A.L.	Weight
AVT-4709	1/8" to 1/2" x 12" Belt	25,000	11-3/4" (298 mm)	1.7 lbs (0.8 kgs)

Dynabrade® Versatility Kits



AVT-4704

Dynafile Versatility Kit:

Dynafile, Five Contact Arms, Abrasive Belt Assortment, Hard & Soft Platen Pads & Sturdy Carrying Case

Dynafile Versatility Kit	
Part Number	Description
AVT-4704	Complete 22 PC Kit

NSN: 5130-01-126-3260

Dynafile II Versatility Kit:

Dynafile II, Three Contact Arms, Abrasive Belt Ass't, Hard & Soft Platen Pads, Die Grinder Collet & Sturdy Carrying Case

Dynafile II Versatility Kit	
Part Number	Description
AVT-4705	Complete 20 PC Kit

NSN: 5130-01-279-4907

Mini Dynafile II Versatility Kit:

Mini Dynafile II, Three Contact Arms, Abrasive Belt Ass't, Hard & Soft Platen Pads, Die Grinder Collet & Sturdy Carrying Case

Mini Dynafile II Versatility Kit	
Part Number	Description
AVT-4707	Complete 21 PC Kit

APEX® Belt Sanders



AVT-4708

Note: Includes 2 sanding belts (80 & 120 grit), wrenches, grease gun & gear lube.

Composite Housing, 0.4 hp (.30 kW) - Rear Exhaust				
Part Number	Capacity	RPM	O.A.L.	Weight
AVT-4708	1/2" x 12" Belt	12,000	11.3" (287 mm)	1.3 lbs (0.6 kgs)
AVT-4710	1/2" x 24" Belt	20,000	17.3" (439 mm)	1.6 lbs (0.7 kgs)

SANDERS & GRINDERS

JET® R8 Series Belt Sanders



- Ergonomic grip absorbs vibration and reduces hand fatigue.
- 360° head rotation for use in confined spaces and difficult angles.

Note: 1/4" air inlet thread.

0.5 hp (.375 kW)				
Part Number	Capacity	RPM	O.A.L.	Weight
AVT-4711	3/8" x 13" Belt	20,000	13" (330 mm)	1.94 lbs (0.88 kgs)

0.6 hp (.45 kW)				
Part Number	Capacity	RPM	O.A.L.	Weight
AVT-4712	3/4" x 20-1/2" Belt	18,000	15-3/4" (400 mm)	2.98 lbs (1.35 kgs)

Chicago Pneumatic® Pencil Grinder Kit



Quiet & Lightweight

Quiet and lightweight, this easy to handle pencil grinder is ideal for limited space applications. A versatile general maintenance kit.

Complete Kit Includes:

Pencil Grinder, Silencer Hose, Two Collets (1/8" & 3 mm), Five Assorted Mounted Points, Five Assorted Carbide Burrs, Wrenches & Fitted Plastic Case

Part Number	Free RPM	Noise Level
AVT-4713	60,000	71 dB(A)

Master Power® High Speed Pencil Grinder

Double Bearings For Durability



- Lightweight, ergonomically designed & vibration free.
- Ideal for precision deburring, blending & smoothing applications.
- 1/4" carbide burr & 1/4" diamond pin capacity - HG series collet.

Note: Air Inlet 1/4" NPT - use 1/4" (6.4 mm) air hose. Includes 5' air hose & 1' overhose.

0.1 hp (0.07 kW) - Rear Exhaust				
Part Number	Collet	RPM	O.A.L.	Weight
AVT-4714	1/8"	70,000	5-3/8" (13.7 cm)	0.43 lbs (0.20 kgs)

APEX® Precision Pencil Grinders



1/4" carbide burr & 1/4" diamond pin capacity - HG series collet.

Note: Includes collet, wrenches, 5' air hose (1/8" NPT) & 1' overhose.

Composite Housing, 0.1 hp (0.074 kW) - Rear Exhaust				
Part Number	Collet	RPM	O.A.L.	Weight
AVT-4715	3 mm	60,000	5.8" (147 mm)	0.22 lbs (0.10 kgs)
AVT-4717	1/8"	60,000	5.8" (147 mm)	0.22 lbs (0.10 kgs)

APEX® Gearless Angle Head Pencil Grinders



- 1/4" carbide burr & 1/4" diamond pin cap. - HG collet.
- Gearless design reduces maintenance & downtime.

Note: Includes collet, wrenches, 5' air hose (1/8" NPT) & 1' overhose.

Composite Housing, 0.1 hp (0.074 kW) - Rear Exhaust				
Part Number	Collet	RPM	O.A.L.	Weight
AVT-4716	3 mm	80,000	5.5" (140 mm)	0.30 lbs (0.14 kgs)
AVT-4718	1/8"	80,000	5.5" (140 mm)	0.22 lbs (0.10 kgs)

APEX® Precision Turbine Grinders



AVT-4720

- Front exhaust motor requires no oil*.
- 3/16" carbide burr & 3/16" diamond pin capacity - HG series collet.

Note: Includes collet, wrenches, hose filter & 7' air hose (1/8" NPT).

*Use only dry air @ 90 PSI max. Do not attach quick-disconnect directly to tool.

Aluminum Housing, 0.06 hp (0.04 kW) - Front Exhaust				
Part Number	Collet	RPM	O.A.L.	Weight
AVT-4719	3 mm	100,000	5.4" (137 mm)	0.41 lbs (0.19 kgs)
AVT-4720	1/8"	100,000	5.4" (137 mm)	0.41 lbs (0.19 kgs)



AVT-4729

- Front exhaust motor with built-in speed regulator requires no oil*.
- 1/4" carbide burr & 3/16" diamond pin capacity - HG series collet.

Note: Includes collet, wrenches, hose filter, speed regulator & 8' air hose (1/4" NPT).

*Use only dry air @ 90 PSI max. Do not attach quick-disconnect directly to tool.

Aluminum Housing, 0.1 hp (0.07 kW) - Front Exhaust				
Part Number	Collet	RPM	O.A.L.	Weight
AVT-4729	1/8"	80,000	5.8" (147 mm)	1.98 lbs (0.90 kgs)

APEX® Precision Turbine Pencil Grinders

AVT-4733



- Rear exhaust motor with only one moving part, requires no oil*.
- 1/8" carbide burr & 1/8" diamond pin capacity - HG series collet.

Note: Includes collet, wrenches, collet guard & 5' air hose (1/8" NPT).

*Use only dry air @ 90 PSI max. Do not attach quick-disconnect directly to tool.

Composite Housing, 0.1 hp (0.074 kW) - Rear Exhaust				
Part Number	Collet	RPM	O.A.L.	Weight
AVT-4732	3 mm	65,000	5.8" (147 mm)	0.41 lbs (0.19 kgs)
AVT-4733	1/8"	65,000	5.8" (147 mm)	0.41 lbs (0.19 kgs)

Composite Housing, 0.1 hp (0.074 kW) - 2' Overhose, Rear Exhaust				
Part Number	Collet	RPM	O.A.L.	Weight
AVT-4735	1/8"	65,000	5.8" (147 mm)	0.41 lbs (0.19 kgs)

Composite Housing, 0.1 hp (0.074 kW) - 4' Overhose, Rear Exhaust				
Part Number	Collet	RPM	O.A.L.	Weight
AVT-4738	3 mm	65,000	5.8" (147 mm)	0.41 lbs (0.19 kgs)
AVT-4740	1/8"	65,000	5.8" (147 mm)	0.41 lbs (0.19 kgs)

APEX® Die Grinders

AVT-4721



1/2" carbide burr & 1" mtd. wheel capacity - incl. 300 series collet.

Note: All models include collet & wrenches. 1/4" NPT (use 1/4" I.D. air hose).

Composite Housing, 0.3 hp (.22 kW)					
F. Exhaust	R. Exhaust	Collet	RPM	O.A.L.	Weight
AVT-4721	AVT-4722	1/4"	34,000	6" (152 mm)	0.88 lbs (0.40 kgs)
AVT-4723	AVT-4724	1/4"	30,000	6" (152 mm)	0.88 lbs (0.40 kgs)
AVT-4725*	AVT-4726*	1/4"	25,000	6" (152 mm)	0.88 lbs (0.40 kgs)

* Oilless blades.

High Power Models

3/4" carbide burr & 1-1/2" mtd. wheel capacity** - incl. 200 series collet.

**0.9 HP models (AVT-4730 & AVT-4731) have a 1" carbide burr capacity.

Composite Housing, 0.6 hp (.45 kW)					
F. Exhaust	R. Exhaust	Collet	RPM	O.A.L.	Weight
AVT-4727	AVT-4728	1/4"	25,000	6.9" (175 mm)	1.32 lbs (0.60 kgs)

Composite Housing, 0.9 hp (.67 kW)					
F. Exhaust	R. Exhaust	Collet	RPM	O.A.L.	Weight
AVT-4730	AVT-4731	1/4"	23,000	7.3" (185 mm)	1.76 lbs (0.80 kgs)

Chicago Pneumatic® Die Grinders

*Streamlined
Safety Lever*

*Lightweight
& Ergonomic*



AVT-4739

- Industrial duty for long use and demanding applications.
- Compact body with comfortable, insulating composite cover.

Note: Use 3/8" (9.5 mm) I.D. air hose. Rated @ 90 psi.

0.5 hp (0.37 kW) - Rear Exhaust				
Part Number	Collet	RPM	O.A.L.	Weight
AVT-4734	1/4"	40,000	6-5/8" (169 mm)	0.84 lbs (0.38 kgs)
AVT-4736	1/4"	31,000	6-5/8" (169 mm)	0.84 lbs (0.38 kgs)
AVT-4737	1/4"	25,000	6-5/8" (169 mm)	0.84 lbs (0.38 kgs)
AVT-4739	1/4"	20,000	6-5/8" (169 mm)	0.84 lbs (0.38 kgs)
AVT-4741	1/4"	18,000	6-5/8" (169 mm)	0.84 lbs (0.38 kgs)

SANDERS & GRINDERS

APEX® Extension Die Grinders

AVT-4742



1/2" carbide burr & 1" mounted wheel capacity - 300 series collet.

Note: Incl. collet & wrenches. 1/4" NPT (use 1/4" I.D. air hose). * Oilless blades.

Composite Housing, 0.3 hp (.22 kW) - 3" Extension, Front Exhaust

Part Number	Collet	RPM	O.A.L.	Weight
AVT-4742	1/4"	28,000	8.9" (226 mm)	1.1 lbs (0.5 kgs)
AVT-4744*	1/4"	25,000	8.9" (226 mm)	1.1 lbs (0.5 kgs)

Composite Housing, 0.3 hp (.22 kW) - 5" Extension, Front Exhaust

Part Number	Collet	RPM	O.A.L.	Weight
AVT-4745	1/4"	28,000	10.9" (277 mm)	1.3 lbs (0.6 kgs)
AVT-4746*	1/4"	25,000	10.9" (277 mm)	1.3 lbs (0.6 kgs)

Chicago Pneumatic® Extension Die Grinder

*Streamlined
Safety Lever*



AVT-4747

Lightweight & Ergonomic

- Industrial duty for long use and demanding applications.
- Compact body with comfortable, insulating composite cover.

Note: Use 3/8" (9.5 mm) I.D. air hose. Rated @ 90 psi.

0.5 hp (0.37 kW) - Rear Exhaust

Part Number	Collet	RPM	O.A.L.	Weight
AVT-4747	1/4"	40,000	9-7/8" (249 mm)	1.26 lbs (0.57 kgs)
AVT-4748	1/4"	31,000	9-7/8" (249 mm)	1.26 lbs (0.57 kgs)
AVT-4749	1/4"	25,000	9-7/8" (249 mm)	1.26 lbs (0.57 kgs)
AVT-4750	1/4"	20,000	9-7/8" (249 mm)	1.26 lbs (0.57 kgs)



For Eye & Face Protection See Pages 230-231

APEX® Low Speed Die Grinder

*Excellent For Titanium
Blending & Buffing*

AVT-4743



1/4" carbide burr & 1/2" mtd. wheel capacity - incl. 200 series collet.

Note: Includes collet & wrenches. 1/4" NPT (use 1/4" I.D. air hose).

0.3 hp (0.22 kW) - Rear Exhaust

Part Number	Collet	RPM	O.A.L.	Weight
AVT-4743	1/4"	5000	7-1/4" (184 mm)	1.6 lbs (0.7 kgs)

APEX® Right Angle Die Grinders

*20% Higher
Working Speed*

AVT-4691



*33%
More
Power*

AVT-4698



*Simplified Maintenance,
No Shims Required*

1/2" burr & 1" mtd. wheel capacity - incl. 300 series collet.

Composite Housing Models

Dual-material composite w/cushioned areas for comfort & control.

Composite Housing, 0.4 hp (0.30 kW)

F. Exhaust	R. Exhaust	Collet	RPM	O.A.L.	Weight
AVT-4691	AVT-4692	1/4"	12,000	6.6" (168 mm)	1.1 lbs (0.5 kgs)
AVT-4693	AVT-1887	1/4"	20,000	6.6" (168 mm)	1.1 lbs (0.5 kgs)

Aluminum Housing Models

Rugged aluminum body for maximum durability.

Aluminum Housing, 0.4 hp (0.30 kW)

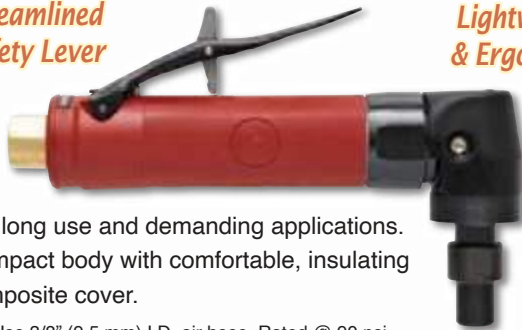
F. Exhaust	R. Exhaust	Collet	RPM	O.A.L.	Weight
AVT-4696	AVT-4697	1/4"	12,000	6.6" (168 mm)	1.1 lbs (0.5 kgs)
AVT-4698	AVT-4699	1/4"	20,000	6.6" (168 mm)	1.1 lbs (0.5 kgs)

Note: All tools: air inlet 1/4" NPT. Rated @ 90 psi.

Chicago Pneumatic® Right Angle Die Grinders

*Streamlined
Safety Lever*

*Lightweight
& Ergonomic*



- For long use and demanding applications.
- Compact body with comfortable, insulating composite cover.

AVT-4753

Note: Use 3/8" (9.5 mm) I.D. air hose. Rated @ 90 psi.

0.5 hp (0.37 kW) - 1/4" Collet - Rear Exhaust				
Part Number	Collet	RPM	O.A.L.	Weight
AVT-4751	1/4"	20,000	8-1/2" (216 mm)	1.1 lbs (0.5 kgs)
AVT-4753	1/4"	12,000	8-1/2" (216 mm)	1.1 lbs (0.5 kgs)

APEX® Precision Collets

200 Series



300 Series



200 & 300 Series			
200 Series	300 Series	Size	Capacity
—	301	3/64"	1/64" to 3/64"
—	302	5/64"	3/64" to 5/64"
—	303	3/32"	1/16" to 3/32"
204	304	1/8"	3/32" to 1/8"
205	305	5/32"	1/8" to 5/32"
206	306	3/16"	5/32" to 3/16"
207	307	7/32"	3/16" to 7/32"
208	308	1/4"	7/32" to 1/4"
209	—	9/32"	1/4" to 9/32"
210	—	5/16"	9/32" to 5/16"
211	—	11/32"	5/16" to 11/32"
212	—	3/8"	11/32" to 3/8"
—	309	3 mm	2.2 to 3 mm
213	310	6 mm	5.2 to 6 mm
216	—	8 mm	5.2 to 8 mm



HG Series

HG Series		
Part Number	Size	Capacity
AVT-4756	1/16"	1/16"
AVT-4757	3/32"	3/32"
AVT-4758	1/8"	1/8"
AVT-4759	1 mm	1 mm
AVT-4760	2.35 mm	2.35 mm
AVT-4762	3 mm	3 mm

JET® R12 Series Die Grinders

AVT-4752



*Impact
Resistant*

*Variable-Speed Throttle
With Safety Lock*

- Lightweight & durable composite grip.
- Precision beveled gears for lower vibration and longer life.

All Tools: 1/4" air inlet thread (3/8" air hose recommended). **Average Air Consumption:** AVT-4754, AVT-4755 & AVT-4752 = 2.6 CFM, JAT-481 = 5.3 CFM.

Straight Angle Grinder, 0.34 hp (0.25 kW) - Rear Exhaust				
Part Number	Collet	RPM	O.A.L.	Weight
AVT-4752	1/4"	25,000	6-1/8" (156 mm)	0.9 lbs (0.4 kgs)



AVT-4754



AVT-4755

90° Angle Grinder, 0.34 hp (0.25 kW) - Rear Exhaust				
Part Number	Collet	RPM	O.A.L.	Weight
AVT-4754	1/4"	20,000	6-1/8" (156 mm)	1.1 lbs (0.5 kgs)

115° Angle Grinder, 0.34 hp (0.25 kW) - Rear Exhaust				
Part Number	Collet	RPM	O.A.L.	Weight
AVT-4755	1/4"	18,000	7" (178 mm)	1.5 lbs (0.7 kgs)



AVT-4761

*Great For Limited
Access Areas*

5" Extension Angle Grinder, 0.5 hp (0.37 kW) - Rear Exhaust				
Part Number	Collet	RPM	O.A.L.	Weight
AVT-4761	1/4"	22,000	9-5/8" (245 mm)	1.5 lbs (0.7 kgs)

Carbide Rotary Files

Double Cut, 1/4" Shank



Tree Pointed		
Part Number	Head Diameter	Cut Length
AVT-4763	1/4"	5/8"
AVT-4767	3/8"	3/4"
AVT-4771	1/2"	3/4"
AVT-4775	1/2"	1"
AVT-4779	5/8"	1"
AVT-4783	3/4"	1-1/2"

Ball Shape		
Part Number	Head Diameter	Cut Length
AVT-4764	1/8"	1/8"
AVT-4768	3/16"	1/4"
AVT-4772	1/4"	1/4"
AVT-4776	5/16"	5/16"
AVT-4780	3/8"	3/8"
AVT-4784	7/16"	3/8"
AVT-4787	1/2"	1/2"
AVT-4788	5/8"	9/16"
AVT-4789	3/4"	11/16"
AVT-4790	1"	15/16"



Tree Radius		
Part Number	Head Diameter	Cut Length
AVT-4791	1/4"	5/8"
AVT-4792	3/8"	3/4"
AVT-4793	1/2"	1"
AVT-4794	5/8"	1"
AVT-4795	3/4"	1-1/2"



Cylindrical Round End		
Part Number	Head Diameter	Cut Length
AVT-4796	3/16"	5/8"
AVT-4797	1/4"	5/8"
AVT-4798	3/8"	3/4"
AVT-4799	1/2"	1"
AVT-4800	5/8"	1"
AVT-4801	3/4"	1"



Flame		
Part Number	Head Diameter	Cut Length
AVT-4802	5/16"	3/4"
AVT-4804	1/2"	1-1/4"
AVT-4806	5/8"	1-7/16"



Cylindrical Flat End		
Part Number	Head Diameter	Cut Length
AVT-4808	3/16"	5/8"
AVT-4809	1/4"	5/8"
AVT-4810	3/8"	3/4"
AVT-4811	1/2"	1"
AVT-4813	5/8"	1"
AVT-4815	3/4"	3/4"
AVT-4817	3/4"	1"
AVT-4818	1"	1"



Inverted Cone		
Part Number	Head Diameter	Cut Length
AVT-4812	1/4"	5/16"
AVT-4814	1/2"	1/2"
AVT-4816	3/4"	5/8"



Concave Radius		
Part Number	Head Diameter	Cut Length
AVT-4819	1/4"	3/16"

Carbide Rotary Files (cont'd)

Other Styles Available, Please Inquire



60° Deburring		
Part Number	Head Diameter	Cut Length
AVT-4765	1/4"	3/16"
AVT-4769	3/8"	5/16"
AVT-4773	1/2"	7/16"
AVT-4777	5/8"	9/16"
AVT-4781	3/4"	11/16"
AVT-4785	1"	15/16"

90° Deburring		
Part Number	Head Diameter	Cut Length
AVT-4766	1/4"	1/8"
AVT-4770	3/8"	3/16"
AVT-4774	1/2"	1/4"
AVT-4778	5/8"	5/16"
AVT-4782	3/4"	3/8"
AVT-4786	1"	1/2"

Rotary File Sets

Double Cut



Burr Holder Included

Ground From The Solid In Various Styles

Part Number	Shank	Description
AVT-4803	1/4"	8 PC H.S.S. Set
AVT-4805	1/4"	9 PC Carbide Set
AVT-4807	1/8"	12 PC Carbide Set



For Shop Vacuums & Accessories See Pages 228-229

Carbide Miniature Burrs

Double Cut, 1/8" Shank, 1-1/2" Overall Length

			
Part No.	Size	Part No.	Size
AVT-4820	1/8" x 9/16"	AVT-4821	1/8" x 1/4"
			
Part No.	Size	Part No.	Size
AVT-4822	3/32" x 7/16"	AVT-4823	1/8" x 1/2"
			
Part No.	Size	Part No.	Size
AVT-4828	1/16" x 1/4"	AVT-4829	1/8" x 1/4"
			
Part No.	Size	Part No.	Size
AVT-4834	1/8"	AVT-4835	1/8" x 5/8" (7° taper)
			
Part No.	Size	Part No.	Size
AVT-4836	1/8" x 9/16"	AVT-4837	1/8" x 7/16" (14° taper)
			
Part No.	Size	Part No.	Size
AVT-4844	3/32" x 7/16"	AVT-4845	1/8" x 11/32" (12° taper)
			
Part No.	Size	Part No.	Size
AVT-4848	1/8"	AVT-4849	1/8" x 1/2" (8° taper)
			
Part No.	Size	Part No.	Size
AVT-4850	3/32"	AVT-4851	1/8" x 3/8" (8° taper)
			
Part No.	Size	Part No.	Size
AVT-4852	1/8" x 1/4"	AVT-4853	1/8" (60° taper)
			
Part No.	Size	Part No.	Size
AVT-4854	1/8" x 1/4"	AVT-4855	1/8" (90° taper)
			
Part No.	Size	Part No.	Size
AVT-4856	1/8" x 1/2"	AVT-4857	1/8" x 3/16" (10° taper)
			
Part No.	Size	Part No.	Size
AVT-4859	1/8" x 3/32"	AVT-4860	3/32" x 1/8" (10° taper)

Aluminum 'Star Cut' Carbide Rotary Files

- Designed for aluminum & non-ferrous material, 1/4" shank.
- Star cut files are also great for medium to heavy stock removal of soft and/or sticky materials.



Cylindrical Flat End		
Part Number	Head Diameter	Cut Length
AVT-4824	3/8"	3/4"
AVT-4826	1/2"	1"
AVT-4830	5/8"	1"
AVT-4832	3/4"	1"

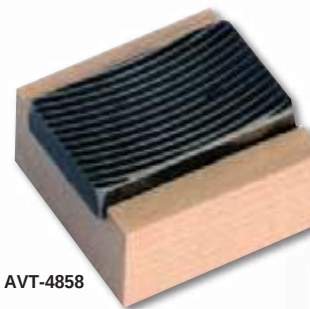
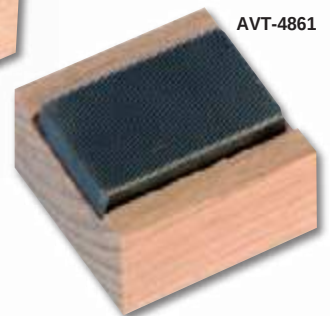
Ball Shape		
Part Number	Head Diameter	Cut Length
AVT-4825	3/8"	3/4"
AVT-4827	1/2"	1"
AVT-4831	5/8"	1"
AVT-4833	3/4"	1"



Cylindrical Round End		
Part Number	Head Diameter	Cut Length
AVT-4838	3/8"	3/4"
AVT-4840	1/2"	1"
AVT-4842	5/8"	1"
AVT-4846	3/4"	1"

Tree Radius		
Part Number	Head Diameter	Cut Length
AVT-4839	3/8"	3/4"
AVT-4841	1/2"	1"
AVT-4843	5/8"	1"
AVT-4847	3/4"	1"

Nib Files

*Easy To Use,
No Gouging**Perfect For
Dirt & Runs*

- Remove imperfections on paint jobs without respraying.
- Works on both primer & top coats (dry paint surface only).
- High-quality, precision ground steel for uniform results.
- Honed tips of teeth easily shave material without digging in.

Part Number	Style	Size
AVT-4858	Coarse	1-1/4" Square
AVT-4861	Fine	

FILES & ABRASIVES

Hand Files



Flat Files

Bastard Cut	Second Cut	Smooth Cut	Size	Overall Length
AVT-4863	AVT-4864	AVT-4865	5/8" x 5/32"	6" (152 mm)
AVT-1783	AVT-4866	AVT-4867	25/32" x 7/32"	8" (203 mm)
AVT-4869	AVT-4870	AVT-4871	31/32" x 1/4"	10" (254 mm)
AVT-4873	AVT-4874	AVT-4875	1-5/32" x 9/32"	12" (305 mm)



Round Files

Bastard Cut	Second Cut	Smooth Cut	Size	Overall Length
AVT-4876	AVT-4877	AVT-4878	7/32"	6" (152 mm)
AVT-1787	AVT-4880	AVT-4881	5/16"	8" (203 mm)
AVT-4883	AVT-4884	AVT-4885	3/8"	10" (254 mm)
AVT-4887	AVT-4888	AVT-4889	1/2"	12" (305 mm)



Half Round Files

Bastard Cut	Second Cut	Smooth Cut	Size	Overall Length
AVT-4891	AVT-4892	AVT-4893	19/32" x 5/32"	6" (152 mm)
AVT-1785	AVT-4894	AVT-4895	3/4" x 7/32"	8" (203 mm)
AVT-4896	AVT-4897	AVT-4898	15/16" x 9/32"	10" (254 mm)
AVT-4899	AVT-4900	AVT-4901	1-1/8" x 11/32"	12" (305 mm)



Mill Files

Bastard Cut	Second Cut	Smooth Cut	Size	Overall Length
AVT-4906	AVT-4907	AVT-4908	7/32"	6" (152 mm)
AVT-4910	AVT-4911	AVT-4912	5/16"	8" (203 mm)
AVT-4913	AVT-4914	AVT-4915	3/8"	10" (254 mm)
AVT-4916	AVT-4917	AVT-4918	1/2"	12" (305 mm)

Milled Curved Tooth Hand Files



- Designed for smooth, fast work on annealed steels & hard plastics.
- Shear non-ferrous metal such as aluminum & copper with ease.

Mill Curved Tooth Files

Bastard Cut	Size	Overall Length
AVT-4919	13/16" x 13/64"	8" (203 mm)
AVT-4920	1" x 7/32"	10" (254 mm)
AVT-4921	1-5/32" x 17/64"	12" (305 mm)

Aluminum Hand Files



Type 'A' Double Cut Aluminum Flat Files

Bastard Cut	Size	Overall Length
AVT-4862	5/8" x 5/32"	6" (152 mm)
AVT-1789	25/32" x 7/32"	8" (203 mm)
AVT-4868	31/32" x 1/4"	10" (254 mm)
AVT-4872	1-5/32" x 9/32"	12" (305 mm)



Type 'A' Double Cut Aluminum Half Round Files

Bastard Cut	Size	Overall Length
AVT-4879	19/32" x 5/32"	6" (152 mm)
AVT-4882	3/4" x 7/32"	8" (203 mm)
AVT-4886	15/16" x 9/32"	10" (254 mm)
AVT-4890	1-1/8" x 11/32"	12" (305 mm)

Plastic File Handles



- Comfortable shape with textured surface for non-slip grip.
- Metal threaded tang insert for a positive, properly aligned grip.

Part Number	Handle Number	Recommended File Size
AVT-4902	2	4" Round
AVT-4903	3	6" Round; 4" Flat, Half Round & Mill
AVT-4904	4	8" Round; 6" Flat, Half Round & Mill
AVT-4905	5	10" Round; 8" Flat, Half Round & Mill
AVT-4909	6	12" (all types); 10" Flat, Half Round & Mill

4 Piece File Handle Set

Part Number	Set Includes
AVT-1818	AVT-4902, 32-783, 32-784 & 32-785 (see above)

File Brush



- Waxed hardwood block & handgrip with slot for included scorer.
- Polypropylene bristle brush & card wire brushing surface.

Part Number	Overall Length
AVT-4922	9" (230 mm)

Swiss Pattern Needle File Set



- Finest steel precision files meet exacting tool maker requirements.
- Includes snap button plastic case (not shown).
- Set of 12, #2 single cut swiss pattern files with various profiles.

Part Number	Overall Length
AVT-4927	5-1/2" (140 mm)

Diamond Needle File Sets

Comfortable Plastic Grips



- Set of 6 files with various profiles.
- Includes plastic case.

Part Number	Diamond Grit	Shank Diameter	Overall Length
AVT-4932	Fine (600 Grit)	0.118"	5-1/2" (140 mm)
AVT-4933	Coarse (250 Grit)	0.118"	5-1/2" (140 mm)



For Flexible Diamond Sanding Pads See Page 89

6" x 9" Hand Pads



- For cleanup, light deburring, blending & satin finishing on all metals.
- Open structure prevents loading & can be used wet or dry.

Part Number	Type	Color
AVT-4923	General Purpose A/O	Maroon
AVT-4924	Heavy-Duty A/O	Tan
AVT-4925	Ultra-Fine S/C	Grey

Part Number	Description
AVT-4926	Hand Pad Holder

PSA Disc Holders

- Flex tested neoprene rubber pad.
- Hardened steel mandrel.

Part Number	Diameter	Maximum RPM
AVT-4928	1"	15,000
AVT-4929	2"	12,000
AVT-4930	3"	10,000
AVT-4931	4"	6,000



PSA Discs

- Pressure sensitive adhesive backing for uses up to 15,000 RPM.
- Protective liner speeds disc changing.
- Excellent heat resistant properties.



ALO Resin Bond Discs

Grit	Pack Of 100		Pack Of 50	
	1"	2"	3"	4"
24	—	AVT-4934	AVT-4935	AVT-4936
36	—	AVT-4937	AVT-4938	AVT-4939
40	—	AVT-4940	AVT-4941	AVT-4942
50	AVT-4943	AVT-4944	AVT-4945	AVT-4946
60	AVT-4947	AVT-4948	AVT-4949	AVT-4950
80	AVT-4951	AVT-4952	AVT-4953	AVT-4954
100	AVT-4955	AVT-4956	AVT-4957	AVT-4958
120	AVT-4959	AVT-4960	AVT-4961	AVT-4962

Merit® Quick-Change Discs



- The most aggressive quick-change sanding discs available in the industry.
- Laminated construction virtually eliminates the shredding that can occur with other discs.



Type I: Snap-On
(equivalent to Norton TP fastener)



Type II: Roll-On
(equivalent to Std. Abrasives Soc-Att® or Norton TS fastener)



Type III: Turn-On
(equivalent to 3M Roloc or Norton TR fastener)

Tough & Durable

Note: Quick-change disc holders shown on next page.

ALO Resin Bond Quick-Change Cloth Discs

These aluminum oxide discs are best used for general purpose deburring and blending on ferrous and nonferrous metals where greater edge durability is required.

ALO Resin Bond Discs				
Dia.	Grit	Type I	Type II	Type III
3/4"	24	AVT-4963	AVT-4964	AVT-4965
	36	AVT-4971	AVT-4972	AVT-4973
	40	AVT-4978	AVT-4979	AVT-4980
	50	AVT-4986	AVT-4987	AVT-4988
	60	AVT-4994	AVT-4995	AVT-4996
	80	AVT-5003	AVT-5004	AVT-5005
	100	AVT-5012	AVT-5013	AVT-5014
	120	AVT-5019	AVT-5020	AVT-5021
	150	AVT-5026	AVT-5027	AVT-5028
	180	AVT-5035	AVT-5036	AVT-5037
	240	AVT-5044	AVT-5045	AVT-5046
	320	AVT-5053	AVT-5054	AVT-5055
1"	24	AVT-5061	AVT-5062	AVT-5063
	36	AVT-5070	AVT-5071	AVT-5072
	40	AVT-5078	AVT-5079	AVT-5080
	50	AVT-5085	AVT-5086	AVT-5087
	60	AVT-5092	AVT-5093	AVT-5094
	80	AVT-5100	AVT-5101	AVT-5102
	100	AVT-5108	AVT-5109	AVT-5110
	120	AVT-5115	AVT-5116	AVT-5117
	150	AVT-5123	AVT-5124	AVT-5125
	180	AVT-5132	AVT-5133	AVT-5134
	240	AVT-5140	AVT-5141	AVT-5142
	320	AVT-5148	AVT-5149	AVT-5150
1-1/2"	24	AVT-5157	AVT-5158	AVT-5159
	36	AVT-5166	AVT-5167	AVT-5168
	40	AVT-5175	AVT-5176	AVT-5177
	50	AVT-5182	AVT-5183	AVT-5184
	60	AVT-5191	AVT-5192	AVT-5193
	80	AVT-5200	AVT-5201	AVT-5202
	100	AVT-5209	AVT-5210	AVT-5211
	120	AVT-5221	AVT-5222	AVT-5223
	150	AVT-5226	AVT-5227	AVT-5228
	180	AVT-5230	AVT-5231	AVT-5232
	240	AVT-5236	AVT-5237	AVT-5238
	320	AVT-5241	AVT-5242	AVT-5243

ALO Resin Bond Discs				
Dia.	Grit	Type I	Type II	Type III
2"	24	AVT-4966	AVT-4967	AVT-4968
	36	AVT-4974	AVT-4975	AVT-4976
	40	AVT-4981	AVT-4982	AVT-4983
	50	AVT-4989	AVT-4990	AVT-4991
	60	AVT-4997	AVT-4998	AVT-4999
	80	AVT-5006	AVT-5007	AVT-5008
	100	AVT-5015	AVT-5016	AVT-5017
	120	AVT-5022	AVT-5023	AVT-5024
	150	AVT-5029	AVT-5030	AVT-5031
	180	AVT-5038	AVT-5039	AVT-5040
	240	AVT-5047	AVT-5048	AVT-5049
	320	AVT-5056	AVT-5057	AVT-5058
3"	24	AVT-5064	AVT-5065	AVT-5066
	36	AVT-5073	AVT-5074	AVT-5075
	40	AVT-5081	AVT-5082	AVT-5083
	50	AVT-5088	AVT-5089	AVT-5090
	60	AVT-5095	AVT-5096	AVT-5097
	80	AVT-5103	AVT-5104	AVT-5105
	100	AVT-5111	AVT-5112	AVT-5113
	120	AVT-5118	AVT-5119	AVT-5120
	150	AVT-5126	AVT-5127	AVT-5128
	180	AVT-5135	AVT-5136	AVT-5137
	240	AVT-5143	AVT-5144	AVT-5145
	320	AVT-5151	AVT-5152	AVT-5153
4"	36	AVT-5160	AVT-5161	AVT-5162
	40	AVT-5169	AVT-5170	AVT-5171
	50	AVT-5178	—	AVT-5179
	60	AVT-5185	AVT-5186	AVT-5187
	80	AVT-5194	AVT-5195	AVT-5196
	100	AVT-5203	AVT-5204	AVT-5205
	120	AVT-5212	AVT-5213	AVT-5214
	180	AVT-5218	AVT-5219	AVT-5220

Quick-Change Discs In Other Styles & Grits Also Available, Please Inquire

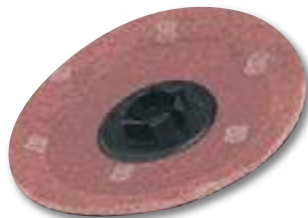
ALO Plus Quick-Change Cloth Discs

Featuring a grinding aid, these run cooler and more efficiently for grinding exotic alloys.

ALO Plus Discs				
Dia.	Grit	Type I	Type II	Type III
3/4"	36	AVT-4969	—	AVT-4970
	40	AVT-4977	—	—
	50	—	AVT-4984	AVT-4985
	60	AVT-4992	—	AVT-4993
	80	AVT-5000	AVT-5001	AVT-5002
	120	AVT-5009	AVT-5010	AVT-5011
1"	36	—	—	AVT-5018
	40	AVT-5025	—	—
	50	AVT-5032	AVT-5033	AVT-5034
	60	AVT-5041	AVT-5042	AVT-5043
	80	AVT-5050	AVT-5051	AVT-5052
	120	AVT-5059	—	AVT-5060
1-1/2"	36	AVT-5067	AVT-5068	AVT-5069
	40	AVT-5076	—	AVT-5077
	50	AVT-5084	—	—
	60	—	—	AVT-5091
	80	AVT-5098	—	AVT-5099
	120	AVT-5106	—	AVT-5107
2"	36	—	AVT-5114	—
	40	—	AVT-5121	AVT-5122
	50	AVT-5129	AVT-5130	AVT-5131
	60	—	AVT-5138	AVT-5139
	80	—	AVT-5146	AVT-5147
	120	AVT-5154	AVT-5155	AVT-5156
3"	36	AVT-5163	AVT-5164	AVT-5165
	40	AVT-5172	AVT-5173	AVT-5174
	50	AVT-5180	—	AVT-5181
	60	AVT-5188	AVT-5189	AVT-5190
	80	AVT-5197	AVT-5198	AVT-5199
	120	AVT-5206	AVT-5207	AVT-5208
4"	36	AVT-5215	AVT-5216	AVT-5217
	40	AVT-5224	AVT-5225	—
	50	—	AVT-5229	—
	60	AVT-5233	AVT-5234	AVT-5235
	80	—	AVT-5239	AVT-5240
	120	—	AVT-5244	—

Merit® Quick-Change FlexEdge Discs

- Manufactured with a flexible aluminum oxide abrasive cloth.
- Outer 3/8" is more flexible than the rest of the disc.
- Great for softer metals & contour grinding of structural pieces.
- Order discs one size larger than the quick-change holder you use.



Dia.	Grit	Type I	Type II	Dia.	Grit	Type I	Type II
1"	50	AVT-5245	AVT-5246	2"	50	—	AVT-5247
	60	AVT-5248	AVT-5249		60	AVT-5250	AVT-5251
	80	AVT-5252	AVT-5253		80	AVT-5254	AVT-5255
	100	AVT-5259	AVT-5260		100	—	AVT-5261
	120	AVT-5265	AVT-5266		120	AVT-5267	—
1-1/2"	180	—	—	180	AVT-5271	AVT-5272	
	50	—	AVT-5276		50	—	AVT-5277
	60	—	AVT-5281		60	AVT-5282	AVT-5283
	80	—	AVT-5287		80	AVT-5288	AVT-5289
	100	—	AVT-5293		100	AVT-5294	AVT-5295
100 per box	120	AVT-5299	AVT-5300	120	AVT-5301	AVT-5302	
	180	AVT-5306	AVT-5307		180	AVT-5308	AVT-5309

Type I	Type II	Description
AVT-5318	AVT-5319	2" Cam Lock Holder (required for 3" discs)

Note: 3" discs use the special cam lock holders shown above (max. 30,000 RPM). All other sizes use quick-change disc holders shown below.

Merit® Quick-Change Disc Holders

- Use hard pads for flat work & more aggressive removal.
- Use softer pads for feathering, edging, contour work, corners & fillets.

Quick-Change Type I:
Snap-on/snap-off fastener equivalent to Norton TP fastener.

Quick-Change Type II:
Roll-on/roll-off fastener equivalent to Std. Abrasives Soc-Att® or Norton TS fastener.

Quick-Change Type III:
Turn-on/turn-off fastener equivalent to 3M Roloc or Norton TR fastener.



Dia.	Max. RPM	Style	Type I	Type II	Type III
3/4"	40,000	Medium	AVT-5330	AVT-5331	AVT-5332
1"	40,000	Medium	AVT-5333	AVT-5334	AVT-5335
1-1/2"	30,000	Medium	AVT-5336	AVT-5337	AVT-5338
1-1/2"	30,000	Hard	AVT-5339	—	—
2"	30,000	Soft	AVT-5340	AVT-5341	AVT-5342
2"	30,000	Medium	AVT-5344	AVT-5345	AVT-5346
2"	30,000	Hard	AVT-5348	AVT-5349	AVT-5350
3"	20,000	Soft	AVT-5354	AVT-5355	AVT-5356
3"	20,000	Medium	AVT-5358	AVT-5359	AVT-5360
3"	20,000	Hard	AVT-5362	AVT-5363	AVT-5364
4"	15,000	Medium	AVT-5366	AVT-5367	AVT-5368

Merit® Quick-Change Buffing Discs



- Non-woven nylon fiber impregnated with abrasive.
- Produces a uniform finish at higher buffing speeds without fly-offs.

Note: Uses quick-change disc holders shown below left.

Diameter	Grit	Type I	Type II	Type III
1-1/2" (100 per box)	V-Fine	AVT-5256	AVT-5257	AVT-5258
	Fine	AVT-5262	AVT-5263	AVT-5264
	Medium	AVT-5268	AVT-5269	AVT-5270
	Coarse	AVT-5273	AVT-5274	AVT-5275
2" (50 per box)	V-Fine	AVT-5278	AVT-5279	AVT-5280
	Fine	AVT-5284	AVT-5285	AVT-5286
	Medium	AVT-5290	AVT-5291	AVT-5292
	Coarse	AVT-5296	AVT-5297	AVT-5298
3" (25 per box)	V-Fine	AVT-5303	AVT-5304	AVT-5305
	Fine	AVT-5310	AVT-5311	AVT-5312
	Medium	—	AVT-5313	AVT-5314
	Coarse	AVT-5315	AVT-5316	AVT-5317
4" (25 per box)	V-Fine	AVT-5320	AVT-5321	AVT-5322
	Fine	AVT-5323	AVT-5324	AVT-5325
	Medium	AVT-5326	—	AVT-5327
	Coarse	—	AVT-5328	AVT-5329

Merit® Quick-Change Surface Prep Discs



- Thick abrasive grain bonded to a reinforced non-woven nylon pad.
- More rigid & aggressive than buffing pads.
- Great for removing heavy rust & blending machine marks & flaws.

Note: Uses quick-change disc holders shown at left.

Diameter	Grit	Type I	Type II	Type III
1-1/2" (100 per box)	Coarse	AVT-5343	—	—
2" (50 per box)	V-Fine	—	—	AVT-5347
	Medium	AVT-5351	AVT-5352	AVT-5353
	Coarse	—	—	AVT-5357
3" (25 per box)	Medium	AVT-5361	—	—
	Coarse	—	—	AVT-5365
4" (25 per box)	Coarse	—	—	AVT-5369

FILES & ABRASIVES

Shur-Kut® Quick-Change Disc Kits



Includes:

Twenty Shur-Kut® Quick-Change Discs (five each: 36, 60, 80 & 120 grit) & 1/4" Shank Medium Density Holder

Part Number	Diameter	Maximum RPM
AVT-5373	2"	30,000
AVT-5377	3"	20,000

Shur-Kut® Cartridge Roll Test Kit



Includes:

Assortment of Straight & Tapered Rolls (1" & 1-1/2" long, resin bond) in 80 & 120 Grit & Two 1/4" Shank Mandrels

Part Number	Diameter	Maximum RPM
AVT-5387	1/4" to 1/2"	18,000 to 25,000

Shur-Brite® Quick-Change Disc Kits

Surface
Conditioning



Includes:

Fifteen Shur-Brite® Quick-Change Discs (five each: very fine, medium & coarse) & 1/4" Shank Medium Density Holder

Part Number	Diameter	Maximum RPM
AVT-5393	2"	30,000
AVT-5395	3"	20,000

Shur-Brite® Surface Conditioning Stars



- Die cut from reinforced surface conditioning material.
- Great for cleaning & polishing the I.D. of tubing & recessed areas.
- Will quickly provide a smooth finish on steel, aluminum or plastic.

Grade	23,000 Maximum RPM		20,000 Max. RPM
	1-1/2" Diameter	2" Diameter	3" Diameter
Very Fine	AVT-5370	AVT-5371	AVT-5372
Medium	AVT-5374	AVT-5375	AVT-5376
Coarse	AVT-5378	AVT-5379	AVT-5380

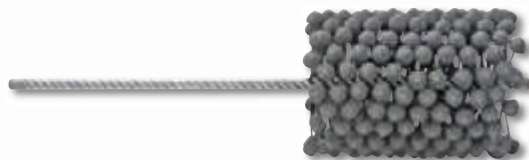
Shur-Brite® Mounted Duplex Wheels



- Interleaf design cushions abrasive flaps for extra smooth operation.
- For polishing, deburring & removal of pits, burrs & scratches.

Grit	8600 Maximum RPM	
	3" x 1" x 1/4"	3" x 2" x 1/4"
80	AVT-5381	AVT-5382
120	AVT-5383	AVT-5384
180	AVT-5385	AVT-5386

Heavy-Duty Flex Honers



- A resilient, flexible honing tool with a soft cutting action.
- Independently suspended abrasive points are self-centering.
- Tool will self-compensate for wear & self align to the bore.
- Extremely efficient for providing crosshatch oil retention grooves.

Part Number	Diameter	For Bore Sizes	Overall Length
AVT-5388	3-3/4"	3-1/2" to 3-3/4"	13-1/2" (343 mm)
AVT-5389	4"	3-3/4" to 4"	13-1/2" (343 mm)
AVT-5390	4-1/4"	4" to 4-1/4"	13-1/2" (343 mm)
AVT-5391	4-1/2"	4-1/4" to 4-1/2"	13-1/2" (343 mm)
AVT-5392	5"	4-1/2" to 5"	17-1/2" (445 mm)
AVT-5394	5-1/2"	5" to 5-1/2"	17-1/2" (445 mm)
AVT-5396	6"	5-1/2" to 6"	17-1/2" (445 mm)

Merit® Micro Mini Flap Wheels

1/8"
Shank

- Fast & light deburring of internal work spaces as small as 1".
- Many other sizes & styles available, please inquire.

Note: All diameters sold in packs of 10.

Dia. x Width	80 Grit	120 Grit	180 Grit	240 Grit	320 Grit
3/8" x 3/8"	AVT-5397	AVT-5398	AVT-5399	AVT-5400	AVT-5401
5/8" x 5/8"	AVT-5402	AVT-5403	AVT-5404	AVT-5405	AVT-5406
5/8" x 3/4"	AVT-5407	AVT-5408	AVT-5409	AVT-5410	AVT-5411
3/4" x 3/16"	AVT-5413	AVT-5414	AVT-5415	AVT-5416	AVT-5417
3/4" x 3/8"	AVT-5418	AVT-5419	AVT-5420	AVT-5421	AVT-5422
3/4" x 1/2"	AVT-5423	AVT-5424	AVT-5425	AVT-5426	AVT-5427
3/4" x 5/8"	AVT-5428	AVT-5429	AVT-5430	AVT-5431	AVT-5432
3/4" x 3/4"	AVT-5433	AVT-5434	AVT-5435	AVT-5436	AVT-5437
1-3/16" x 1/8"	AVT-5438	AVT-5439	AVT-5440	—	AVT-5441
1-3/16" x 3/16"	AVT-5442	AVT-5443	AVT-5444	AVT-5445	AVT-5446
1-3/16" x 3/8"	AVT-5447	AVT-5448	AVT-5449	AVT-5450	AVT-5451

Merit® Abrasive Test Kits

- Determine what abrasives are best suited to your application needs.
- Versatile & economical - selection continues on next page.

**'D' Quick-Change Disc Test Kit:**

150 Quick-Change Discs (1-3", assorted grits includes zirconia alumina & flex edge discs) & Three Quick-Change I Holders

Part Number	Description
AVT-1876	'D' Quick Change Disc Test Kit

Merit® Abrasive Test Kits (cont'd)**'BP' Bore Polisher Test Kit:**

Ten Bore Polishers & Two Mini Grind-O-Flex Wheels (assorted sizes & grits) mounted on 1/4" Mandrels

Part Number	Description
AVT-5412	BP Bore Polisher Test Kit

**'MMC' Micro-Mini Test Kit:**

Five Micro-Mini Grind-O-Flex Wheels (3/8" to 1-3/16" dia.) mounted on 1/8" Hardened Steel Shanks

Part Number	Description
AVT-5452	MMC Micro-Mini Test Kit

**'CMM' Mandrel-Mounted Mini Grind-O-Flex Test Kit:**

Ten Mini Grind-O-Flex Wheels (1" to 3" dia. in various grits) mounted on 1/4" Mandrels

Part Number	Description
AVT-5453	CMM Mini Grind-O-Flex Test Kit

**'CQ' Mini Grind-O-Flex Test Kit:**

Ten Mini Grind-O-Flex Wheels (1" to 3" diameter, 1/4"-20 thread) & 1/4" Quick Change Adapter

Part Number	Description
AVT-5454	CQ Mini Grind-O-Flex Test Kit

Merit® Blaze High Performance Abrasive Test Kit



*Next-
Generation
Ceramic
Grain*

- Handy kit includes mandrels and a variety of Blaze cartridge rolls & spiral rolls in popular sizes & grits.
- 50% to 300% longer life than any product currently available.
- Cuts cooler and lasts longer on stainless steel, cobalt, inconel, titanium & other hard-to-grind materials.

Part Number	Description
AVT-5456	Blaze Abrasive Test Kit

Rubberized Abrasive Kits

*Perfect For Light Deburring,
Smoothing, Cleaning & Polishing*

- Unique cushioned action cuts smoothly & softly without gouging or digging into the work surface and resists clogging.
- Ideal for metallic & non-metallic surfaces that must be worked without loss of dimensional tolerances or control.
- Abrasives can be shaped with conventional wheel dressers and will not harden or soften during use or in storage.
- Selection continues on next page.



AVT-5459

Tool Room Assortment:

100 Cylinder Points, 100 Bullet Points, 200 Tapered Wheels, 300 Straight Wheels (all in various grits), 48 Point Mandrels, 48 Wheel Mandrels & Carrying Case

Part Number	Description
AVT-5459	Complete 796 PC Kit

Rubberized Abrasive Kits (cont'd)



AVT-5455

Polishing Kit:

16 Cylinder Points, 32 Bullet Points, 16 Tapered Points (all in various grits), 4 Point Mandrels & Carrying Case

Part Number	Description
AVT-5455	Complete 68 PC Kit



AVT-5457

Cone Kit:

8 Tapered Cones, 4 Cylinder Cones, 4 Pointed Cones, 2 Bullet Cones (all in various grits), 2 Cone Mandrels & Carrying Case

Part Number	Description
AVT-5457	Complete 20 PC Kit



AVT-5458

Finishing Kit A:

4 Round Pencils, 4 Rectangular Sticks, 4 Tapered Cones, 4 Cylinder Cones, 4 Straight Wheels (all in various grits), 1 Cone Mandrel, 1 Wheel Mandrel & Carrying Case

Part Number	Description
AVT-5458	Complete 22 PC Kit

Finishing Kit B:

12 Bullet Points, 12 Tapered Wheels, 36 Straight Wheels (all in various grits), 1 Point Mandrel, 3 Wheel Mandrels & Carrying Case

Part Number	Description
AVT-5460	Complete 64 PC Kit

Rubberized Abrasive Kits (cont'd)



AVT-5461

Small Wheel Kit:

112 Straight Wheels, 8 Straight Points (all in various grits), 7 Wheel Mandrels & Carrying Case

Part Number	Description
AVT-5461	Complete 127 PC Kit



AVT-5462

Point Kit A:

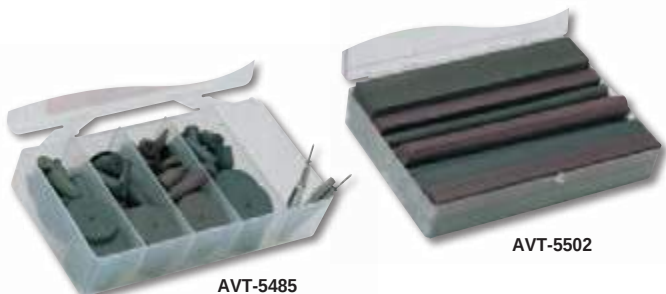
40 Bullet Points (various grits), 4 Point Mandrels & Carrying Case

Part Number	Description
AVT-5462	Complete 44 PC Kit

Point Kit B:

100 Bullet Points (various grits), 2 Point Mandrels & Carrying Case

Part Number	Description
AVT-5464	Complete 102 PC Kit



AVT-5485

AVT-5502

Utility Kit:

16 Cylinder Points, 24 Bullet Points, 8 Tapered Wheels, 24 Straight Wheels, 8 Straight Points (all in various grits), 4 Wheel Mandrels & Carrying Case

Part Number	Description
AVT-5485	Complete 84 PC Kit

Hand Finishing Kit:

8 Round Pencils, 4 Rectangular Sticks, 4 Square Sticks (all in various grits) & Carrying Case

Part Number	Description
AVT-5502	Complete 16 PC Kit

Sanding Drum & Sleeve Kits

True Running, No Wobble

AVT-1894



- Precision ground, extruded live rubber for better life & performance.
- Aluminum oxide, resin bond sanding sleeves with cloth backing.
- Abrasive sleeves are easily secured in place by user controlled expansion of the solid rubber drum spindle.
- Will not break apart even under the most demanding tasks.

General Purpose Kit:

Five Drums (1/2" x 1/2", 3/4" x 1", 1" x 1", 1-1/2" x 1-1/2", 2" x 1-1/2") & Ten Sleeves (1 fine & 1 coarse for each drum size)

2" Extra Long Kit:

Four Drums (1/2" x 2", 3/4" x 2", 1" x 2", 1-1/2" x 2") & Eight Sleeves (1 fine & 1 coarse for each drum size)

Part Number	Type	Shank Diameter
AVT-1894	General Purpose Kit	1/8" & 1/4"
AVT-5463	2" Extra Long Kit	1/4"

Replacement Spiral Coated Sanding Sleeves



- Aluminum oxide, resin bond with cloth backing.
- Will not break apart even under the most demanding tasks.
- Replacement drums shown on next page.

General Purpose 6 PC Sleeve Packs - For Kit AVT-1894

Dia. x Width	Coarse	Medium	Fine	9 PC Mix*
1/2" x 1/2"	AVT-5465	AVT-5466	AVT-5467	AVT-5468
3/4" x 1"	AVT-5469	AVT-5470	AVT-5471	AVT-5472
1" x 1"	AVT-5473	AVT-5474	AVT-5475	AVT-5476
1-1/2" x 1-1/2"	AVT-5477	AVT-5478	AVT-5479	AVT-5480
2" x 1-1/2"	AVT-5481	AVT-5482	AVT-5483	AVT-5484

2" Extra Long 6 PC Sleeve Packs - For Kit AVT-5463

Dia. x Width	Coarse	Medium	Fine	9 PC Mix*
1/2" x 2"	AVT-5486	AVT-5487	AVT-5488	AVT-5489
3/4" x 2"	AVT-5490	AVT-5491	AVT-5492	AVT-5493
1" x 2"	AVT-5494	AVT-5495	AVT-5496	AVT-5497
1-1/2" x 2"	AVT-5498	AVT-5499	AVT-5500	AVT-5501

*Mix packs include three sleeves in each grade.

FILES & ABRASIVES

Replacement Sanding Drums



1/4" Shank, Standard Lock Style

- Rubber expansion is controlled by turning hex nut
- Rubber spindle is seated directly on the mandrel (arbor).

NOTE: Other sizes and styles available, please inquire.

Part Number	Drum Diameter	Drum Width
AVT-5503	1/2"	1/2"
AVT-5504	1/2"	2"
AVT-5505	3/4"	1"
AVT-5506	3/4"	2"
AVT-5507	1"	1"
AVT-5508	1"	2"
AVT-5509	1-1/2"	1-1/2"
AVT-5510	1-1/2"	2"
AVT-5512	2"	1-1/2"

Seat Track Cleaners

Leaves A Superior Surface Finish



*Non-Loading
On Aluminum*

- Remove caked on dirt and grime from all interior surfaces of aircraft seat tracks in one operation.
- Controlled cleaning with chatter free operation.
- Each point will clean approximately 30 feet of seat track.

Part Number	Grit	Head Diameter	Shank	Overall Length
AVT-5511	Coarse	3/4"	1/4" x 1-1/2"	1-7/8" (48 mm)
AVT-5513	Medium	3/4"	1/4" x 1-1/2"	1-7/8" (48 mm)

Cotton Fiber Mounted Point Test Kits

- Non-loading on aluminum, brass, and other non-ferrous metals.
- Smooth chatter free grinding, deburr & polish in one easy step.
- Controlled metal removal without changing part geometry.
- Ideal for stainless steel, aluminum, mild steel & exotics.

Part Number	Description	Shank
AVT-5514	13 PC Mini Assortment	1/8"
AVT-5515	13 PC Standard Assortment	1/4"



High Performance Abrasive Belts

- Premium quality - recommended for medium to heavy grinding & finishing.
- For use on regular & high tensile steel, cast iron, non-ferrous materials & alloys.

Grain	Bond	Backing	Structure
Aluminum Oxide	Resin Over Resin	'X' Weight Poly Cotton	Closed Coat



Note: Many other styles & sizes available, please inquire.

Diameter x Width	36 Grit	40 Grit	50 Grit	60 Grit	80 Grit	100 Grit	120 Grit	180 Grit
12" x 1/4"	—	—	—	AVT-5516	AVT-5517	—	AVT-5518	AVT-5519
12" x 1/2"	AVT-5520	AVT-5521	AVT-5522	AVT-5523	AVT-5524	AVT-5525	AVT-5526	AVT-5527
12" x 1"	AVT-5528	—	AVT-5529	AVT-5530	AVT-5531	AVT-5532	AVT-5533	—
18" x 3/4"	AVT-5534	AVT-5535	AVT-5536	AVT-5537	AVT-5538	AVT-5539	AVT-5540	AVT-5541
24" x 1/8"	—	—	—	—	—	—	—	AVT-5542
24" x 1/4"	—	—	—	—	AVT-5543	—	—	—
24" x 1/2"	AVT-5544	AVT-5545	AVT-5546	AVT-5547	AVT-5548	AVT-5549	AVT-5550	AVT-5551
24" x 1"	—	—	—	—	—	—	—	AVT-5552
30" x 1"	—	AVT-5553	—	AVT-5554	AVT-5555	AVT-5556	AVT-5557	AVT-5558
48" x 6"	AVT-5559	AVT-5560	AVT-5561	AVT-5562	AVT-5563	AVT-5564	AVT-5565	AVT-5566
60" x 4"	AVT-5567	AVT-5568	AVT-5569	AVT-5570	AVT-5571	AVT-5572	AVT-5573	AVT-5574

Reciprocating Saw



AVT-5575

- Low vibration & excellent balance.
- Variable speed motor with ball & needle bearings.
- Includes two blades, protective boot & swivel air inlet.

Note: Air Inlet 1/4" NPT (use 3/8" I.D. air hose).

1.0 hp (0.7 kW) - 1800 Strokes Per Minute			
Part Number	Stroke	Overall Length	Weight
AVT-5575	5/8"	17-1/8" (435 mm)	7.8 lbs (3.5 kgs)

5-Pack Reciprocating Saw Blades			
Part Number	Overall Length	Teeth -Inch	Recommended Use
AVT-5576	6" (152 mm)	14	Metals Over 1/8" Thick
AVT-5577	6" (152 mm)	18	Metals To 1/8" Thick
AVT-5578	4" (102 mm)	18	Metals Over 1/8" Thick
AVT-5579	4" (102 mm)	14	Metals To 1/8" Thick
AVT-5580	6" (152 mm)	24	Metals To 18 Gauge
AVT-5581	6" (152 mm)	10	Metals, Hard Rubber & Fiber > 1/4"
AVT-5582	6" (152 mm)	6	Roughing In On Wood Composition & Non-Ferrous Materials
AVT-5583	6" (152 mm)	6	Roughing In, Pruning & Light To Medium Sections

Heavy-Duty Portable Hacksaw Kit



AVT-5587

- Lightweight, easy to handle unit cuts smoothly & quietly.
- Twin pistons provide for continuous smooth power during forward and rearward stroke.
- Uses standard hacksaw, sectional band, or modified reciprocating saw blades (1/2" high by 0.025" to 0.035" thick).
- A true all weather and condition tool - It can be safely used under fresh or salt water, fire retardant foam, oil, mud, slurries and hazardous material.
- Kit includes 6 blades, lubrication & steel carrying case.

6.5 CFM - 0 To 1200 Strokes Per Minute			
Part Number	Stroke	Overall Length	Weight
AVT-5587	1-3/4"	16" (406 mm)	5.6 lbs (2.5 kgs)

Note: Tool operates at 90-110 PSI. 3/8" ID air hose recommended.

Replacement Blades	
Part Number	Description
AVT-5590	10 PC Blade Pack

Bosch® Orbital Action Jigsaw



Rotating Handle

Low Vibration, Smooth & Comfortable Operation

NEW

Paddle On-Off Switch

- Four stage orbital action adjusts blade motion to match cutting task.
- Tool-free blade change system is fast and easy - simply turn the top handle to release blade.
- Adjustable steel footplate retracts and tilts left and right up to 45° in both directions.
- Exclusive blade clamp mechanism for superior hold.
- Tool comes complete with saw blade set, anti-splinter guard, hose nipple, silencer & allen key.

Note: Air Inlet 1/4" NPT (use 3/8" I.D. air hose).

27.5 CFM - 2200 Strokes Per Minute			
Part Number	Stroke	Overall Length	Weight
AVT-5584	1"	10" (254 mm)	4.2 lbs (1.9 kgs)

Note: See bottom of page 185 for applicable replacement blades.

Chicago Pneumatic® Reciprocating Saw

Heavy-Duty



AVT-5585

Very Low Vibration

- A premium tool with high power at 10,000 SPM.
- Perfect for cutting aluminum, plastic, fiberglass, wood, and sheet metal up to 16 gauge.
- Includes adjustable blade guide and 360° swivel air inlet.
- Kit includes fitted case and a pack of each type blade shown below.

Note: Air Inlet 1/4" NPT (use 3/8" I.D. air hose).

5.5 CFM - 10,000 Strokes Per Minute				
Tool Only	Complete Kit	Stroke	Overall Length	Weight
AVT-5585	AVT-5586	3/8"	9" (229 mm)	1.9 lbs (0.86 kgs)

5-Pack Reciprocating Saw Blades	
Part Number	Teeth Per Inch
AVT-5588	18
AVT-5589	24
AVT-5591	32

SAWS & ACCESSORIES

Air Body Saw



16 Gauge Mild Steel Capacity

AVT-5592

- Lightweight, slim design for cutting in confined areas.
- Positive blade retention with adjustable blade guide.
- Kick-off throttle & built in regulator for positive speed control.

9 CFM - 10,000 Strokes Per Minute			
Part Number	Stroke	Overall Length	Weight
AVT-5592	1/4"	7-1/8" (181 mm)	1.37 lbs (0.62 kgs)

Replacement Blades	
Part Number	Description
AVT-5593	10 PC Blade Pack

APEX® Adjustable Depth Control Saws



AVT-5598

- Used standard 1/4" arbor hole blades.
- Includes applicable wrenches & oilless blades.

Note: Air Inlet 1/4" NPT (use 3/8" I.D. air hose).

0.3 hp (0.22 kW) - 7/16" Cut Depth, 2" Blade Capacity				
Front Exhaust	Rear Exhaust	RPM	Overall Length	Weight
AVT-5597	AVT-5598	20,000	7-1/8" (181 mm)	1.3 lbs (0.6 kgs)
AVT-5599	AVT-5600	12,000	7-1/8" (181 mm)	1.3 lbs (0.6 kgs)
—	AVT-5601	3600	8-7/8" (225 mm)	1.5 lbs (0.7 kgs)

0.3 hp (0.22 kW) - 7/16" Cut Depth, 2" Blade Cap. - Vacuum Ready			
Part Number	RPM	Overall Length	Weight
AVT-5605	20,000	7-1/8" (181 mm)	2.2 lbs (1.0 kgs)
AVT-5607	12,000	7-1/8" (181 mm)	2.2 lbs (1.0 kgs)

Note: See next page for applicable replacement blades.

APEX® Oscillating Saws



AVT-5610

- Specially designed for cutting cured & uncured graphite composites.
- Performs equally well on wood, fiberglass, plaster & plastic.
- Uses 3/8" arbor hole oscillating blades.
- Includes applicable wrenches & oilless blades.

Kett® Panel Saws



AVT-5594

Variable Speed Trigger

16 Gauge Mild Steel Capacity

Plunge Cutting Head

- Highly maneuverable.
- Leaves a milled, ready to fabricate finish without burning.
- Easily cut through thicker plastics and other rigid materials.
- Used standard 7/16" arbor hole blades (see below).

Note: Air Inlet 1/4" NPT (use 3/8" I.D. air hose).

0.8 hp (0.6 kW) - 2200 RPM					
Part Number	Blade Sizes	Cutting Capacity	Max. Cut Depth	Overall Length	Weight
AVT-5594	2" to 2-1/2"	16 Gauge Steel 3/16" Aluminum	5/8"	14" (356 mm)	6 lbs (2.7 kgs)
AVT-5595	1-3/4" to 2"	16 Gauge Steel 1/8" Aluminum	3/8"	13-1/2" (343 mm)	5 lbs (2.3 kgs)

Vacuum Model

Accepts standard noses from canister type or in-plant systems.

0.8 hp (0.6 kW) - 2200 RPM Vacuum Head Model					
Part Number	Blade Sizes	Cutting Capacity	Max. Cut Depth	Overall Length	Weight
AVT-5596	2" to 2-1/2"	16 Gauge Steel 1/8" Aluminum	5/8"	13-1/2" (343 mm)	6 lbs (2.7 kgs)

High Speed Steel Saw Blades, 7/16" Arbor Hole			
Part No.	Dia.	Teeth	Recommended Use
AVT-5602	2-1/2"	44	1/4" Alum., 1/2" Plywood & 1/2" Phenolic
AVT-5603	2-1/2"	80	16 Gauge Steel
AVT-5604	3-3/8"	80	1/8" Alum., 1/2" Plywood & 1/2" Phenolic
AVT-5606	3-3/8"	80	20g Steel, Paneling & Plywood
AVT-5608	3-3/8"	100	20 Gauge Steel, Paneling & Soft Metals

Perfect For Composite Work

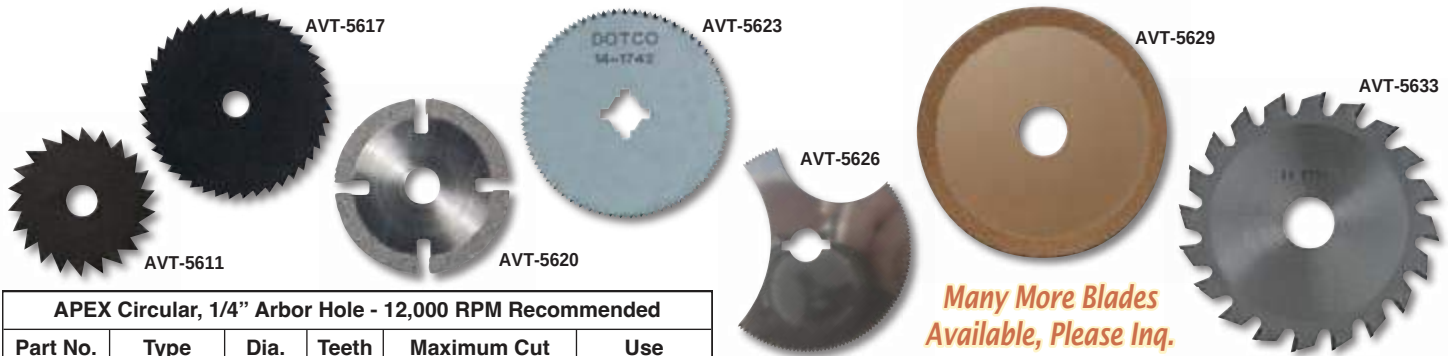
Note: Air Inlet 1/4" NPT (use 3/8" I.D. air hose).

0.6 hp (0.45 kW) - 9/16" Cut Depth, 14,000 CPM - Inline			
Part Number	Blade Cap.	Overall Length	Weight
AVT-5609	2-1/2"	8-7/8" (225 mm)	2.2 lbs (1.0 kgs)

0.6 hp (0.45 kW) - 9/16" Cut Depth, 14,000 CPM - Right Angle			
Part Number	Blade Cap.	Overall Length	Weight
AVT-5610	2-1/2"	10-7/8" (276 mm)	2.2 lbs (1.0 kgs)

Note: See next page for applicable replacement blades.

Saw Blades



APEX Circular, 1/4" Arbor Hole - 12,000 RPM Recommended					
Part No.	Type	Dia.	Teeth	Maximum Cut	Use
AVT-5611	High Speed Steel	1-1/4"	22	3/32" D x 1/16" W	Aluminum, Laminated Plastics, Pressboard & Wood
AVT-5612		1-1/4"	44	3/32" D x 1/16" W	
AVT-5613		1-1/2"	22	7/32" D x 1/16" W	
AVT-5615		2"	22	7/16" D x 1/16" W	
AVT-5617		2"	44	7/16" D x 1/16" W	
AVT-5619		2"	60	7/16" D x 1/16" W	

APEX Circular, 1/4" Arbor Hole - 20,000 RPM Recommended					
Part No.	Type	Dia.	Teeth	Maximum Cut	Use
AVT-5614*	Carbide Chip	1-1/2"	30/80	7/32" D x 3/32" W	Fiberglass & Rubber, Only Non-Metallic Materials
AVT-5616*		2"	Grit	7/16" D x 3/32" W	
AVT-5618*	Diamond Chip	1-1/2"	40/60	7/32" D x 5/64" W	
AVT-5620*		2"	Grit	7/16" D x 5/64" W	

APEX Circular Oscillating, 3/8" Arbor Hole					
Part No.	Type	Diameter	Teeth/Grit	Maximum Cut	Recommended Use
AVT-5621*	Carbide Chip	2"	36/80 Grit	7/16" D x 3/32" W	Fiberglass
AVT-5622*	Diamond Chip	2"	40/60 Grit	7/16" D x 5/64" W	Fiberglass & Carbon Composites
AVT-5623	Stainless Steel	2-1/2"	124	9/16" D x 3/64" W	Wood, Composites, Aluminum & Plastic
AVT-5624	Carbide	2-1/2"	120	9/16" D x 1/16" W	Cured Graphite Composites
AVT-5625	Razor	2-1/2"	—	9/16" D x 3/64" W	Cardboard & Light Plastic
AVT-5626	Stainless Steel	2-1/2"	120	9/16" D x 3/64" W	Cardboard & Light Plastic
AVT-5627	Flush Stainless	2-1/2"	124	9/16" D x 3/64" W	Wood, Composites, Aluminum & Plastic
AVT-5628	Razor	3"	—	9/16" D x 3/64" W	Cardboard & Light Plastic

APEX Circular, 3/4" Arbor Hole					
Part No.	Type	Diameter	Teeth/Grit	Maximum Cut	Recommended Use
AVT-5629*	Carbide Chip**	4"	36/80 Grit	1" D x 1/8" W	Fiberglass & Hard Rubber
AVT-5630*	Carbide Chip	4"	36 Grit	1" D x 11/64" W	Hard Rubber
AVT-5631*	Carbide Chip	4"	80 Grit	1" D x 1/8" W	Fiberglass
AVT-5632*	Carbide Tip	4"	20	1" D x 7/64" W	Thin Fiberglass, Plastic Laminates to 1/8"
AVT-5633*	Carbide Tip	4"	20	1" D x 7/64" W	Fiberglass, Plastic Laminates to 1/2"
AVT-5634*	Carbide Tip	4"	20	1" D x 7/64" W	Thin Non-Ferrous Materials to 1/8"
AVT-5635*	Carbide Tip	4"	12	1" D x 7/64" W	Non-ferrous Materials to 1/2"
AVT-5636*	Diamond Chip	4"	60/80 Grit	1" D x 5/64" W	Fiberglass

*For sawing non-metallic materials only. **Slim blade for fiberglass cutting with minimal dust.

5-Pack Jig Saw Blades					
Part No.	Type	Overall Length	Teeth Per Inch	Thickness & Width	Recommended Use
AVT-5637	Bi-Metal	3-5/8" (92 mm)	6	.032" x 5/16"	Particle & Fiber Board
AVT-5638	Bi-Metal	4" (102 mm)	6	.032" x 5/16"	Wood (fast cut), Particle & Fiber Board
AVT-5639	Wood	2-3/4" (70 mm)	10	.039" x 5/32"	Wood & Plastic (clean scroll cut)
AVT-5640	Bi-Metal	3-5/8" (92 mm)	10	.032" x 5/16"	Wood (medium/rough cut) & Plastic
AVT-5641	Metal	2-3/4" (70 mm)	14	.039" x 5/16"	Non-Ferrous Metal (1/8" to 1/4")
AVT-5642	Metal	2-3/4" (70 mm)	18	.039" x 5/16"	Mild Steel, Non-Ferrous Metal (1/8" to 3/16")*
AVT-5643	Bi-Metal	2-3/4" (70 mm)	18	.032" x 5/16"	Metal (1/8" to 3/16")*
AVT-5644	Bi-Metal	4" (102 mm)	10	.032" x 5/16"	Wood (clean cut), Particle & Fiber Board

AVITORQ Safety Wire Twister Kit



Includes:

9" Auto Return Safety Wire Twister, Manual Wire Twister, Three 1 lb Safety Wire Spools (.025", .032" & .041") & Canvas Tool Bag

Part Number	Description
AVT-5646	Complete 6 PC Kit

Milbar® Safety Wire Twisters



AVT-5650



AVT-5652

- High carbon alloy steel forgings.
- AVT-5654 features a left hand twist.
- Spring auto return feature for quick & easy production use.

Diagonal Nose

Part Number	Wire Capacity	Overall Length
AVT-5650	.041"	6" (152 mm)
AVT-5652	.060"	9" (229 mm)
AVT-5654	.060"	9" (229 mm)

Milbar® Tigerwave Rev. Safety Wire Twister

Reversible

AVT-5645

Diagonal Nose



Textured Non-Slip Grip

Narrow Head For Tight Spaces

- Reversible - with improved, smooth operating shift mechanism.
- Patented "One-Click" technology for easy opening and closing.
- Precision machined from high grade 4140 tool steel.
- Wave jaw holds work securely, eliminates wire damage.
- Heat and chemical resistant Viton® cushion throat traps wire cutoffs for no F.O.D..

Part Number	Wire Capacity	Overall Length
AVT-5645	.041"	9-5/16" (237 mm)

Milbar® Reversible Safety Wire Twisters

Aerospace Standard AS567

AVT-5648



AVT-5647



Reversible

Diagonal Nose

- Patented reversible twist action.
- Quick acting reversible sleeve.
- Spring auto return twist rod & sure grip clutch action knob.

Part Number	Wire Capacity	Overall Length
AVT-5647	.041"	6" (152 mm)
AVT-5648	.060"	9" (229 mm)
AVT-5649	.060"	12" (305 mm)

E.Z. Aircraft Manual Safety Wire Twisters

Great For Tight Areas



AVT-5651

Fast, One Handed Operation



AVT-5653

Part Number	Wire Capacity	Overall Length
AVT-5651	.060"	6" (152 mm)
AVT-5653	.060"	18" (457 mm)
AVT-5655	Special: Both Tools	

Milbar® Cushion Throat Safety Wire Twister



AVT-5657

Diagonal Nose

- High carbon alloy steel forgings.
- Spring auto return feature for quick & easy production use.
- Cushioned throat catches clipped ends to prevent F.O.D..

Part Number	Wire Capacity	Overall Length
AVT-5657	.060"	9" (229 mm)

Economy Safety Wire Twisters



AVT-1801

Tapered Nose

Affordable auto return models with a fast spiral action.

Part Number	Wire Capacity	Overall Length
AVT-5658	.060"	6" (152 mm)
AVT-1801	.060"	9" (229 mm)

Milbar® Safety Wire Twister Kits



AVT-5661

Pro Kit:

Three Wire Twisters (9" Auto, 6" Auto & 19" Deep Reach), Three 1/4 lb. Spools Of Safety Wire (.020", .032" & .041") & Kit Box

Limited Access Kit:

Two Wire Twisters (6" Mini & 19" Deep Reach), Three 1/4 lb. Spools Of Safety Wire (.020", .032" & .041") & Kit Box

Part Number	Description	Weight
AVT-5661	Pro Kit	4 lbs (1.8 kgs)
AVT-5662	Limited Access Kit	2.75 lbs (1.3 kgs)

Note: AVT-5661 NSN: 5180-90-986-8939, AVT-5662 NSN: 5180-01-337-9841.

Milbar® Deep Reach Manual Wire Twister



- Allows access to deep safety wiring jobs.
- Two included extensions provide an adjustable 13" to 19" reach.

Part Number	Overall Length
AVT-5656	19" (48.3 cm)

Stainless Steel Aircraft Safety Wire



AVT-5659



AVT-1795

- Conforms to government spec. QQW423, Milspec MS-20995-C.
- Convenient 1 pound center core top dispensers.

Part Number	Diameter	Length
AVT-5659	.020" (0.51 mm)	937' (286 m)
AVT-1791	.025" (0.63 mm)	599' (183 m)
AVT-1793	.032" (0.81 mm)	366' (112 m)
AVT-1795	.041" (1.04 mm)	223' (68 m)

Note: 1/4 lb spools and other diameters available, please inquire.

Bessey® Cable Cutter

Stainless Steel Blade

Ergo Handle

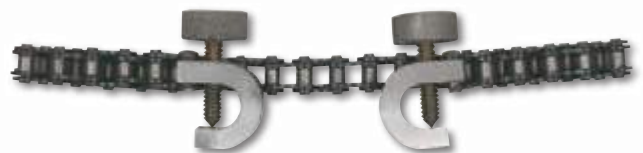


NEW

Easily cut multi-core cable up to 3/8".

Part Number	Capacity	Overall Length	Weight
AVT-5660	3/8"	6-1/2" (165 mm)	4 oz (113 g)

Turnbuckle Wrench Cable Rigging Tool



- Allows free adjustment of the turnbuckle.
- Accommodates all sizes of aircraft cable.
- Consists of two clamps joined by 12" of sprocket type chain.

Part Number	Description
AVT-5663	Cable Rigging Tool

CABLE, WIRE & TUBING TOOLS

3-Cavity Swaging Tool



Unit swages 1/16", 3/32" & 1/8" ovals.

Part Number	Overall Length	Weight
AVT-5664	14" (36 cm)	2.5 lbs (1.1 kgs)

5-Cavity Swaging Tools



Unit swages 1/16", 3/32", 1/8", 5/32" & 3/16" ovals, and 1/16", 3/32", 1/8", 5/32", 3/16" & 7/32" stops. AVT-5665

Part Number	Type	Overall Length	Weight
AVT-5665	Hand Held	26-1/2" (67 cm)	6 lbs (2.7 kgs)
AVT-5666	Bench Mounted	16" (41 cm)	5 lbs (2.3 kgs)

Locoloc® Hydraulic Hand Swager Kit

*Exerts 14 Tons
Of Pressure*



Rugged & Portable

A powerful two stage swager with 180° swivel head & relief valve.

Includes:

Hydraulic Hand Swager, Six Dies (1/4", 9/32", 5/16", 3/8", 7/16" & 1/2"), Six Matching Gauges & Carrying Case

Part Number	Swager Overall Length	Swager Weight
AVT-5670	23" (58 cm)	13 lbs (5.9 kgs)

Locoloc® Sleeve Gauges (Go/NoGo)



AVT-5671

Part Number	Sleeve Sizes
AVT-5671	1/32", 3/64", 1/16", 3/32", 1/8", 5/32" & 3/16"
AVT-5672	7/32", 1/4", 9/32" & 5/16"
AVT-5673	3/8", 7/16" & 1/2"

Portable Pneumatic Cable Terminal Swager Kit



AVT-5667

Certified & Calibrated

- All swaging & cutting dies of hardened, heat treated steel.
- Cut-off & trim dies manufactured in sizes to cut cable up to 1/4".
- Dies clearly marked for type & size swaged terminal or cable cut.
- Yoke assembly easily accessible for quick changing of dies.
- Meets government specification GGG-S-00825A (GSA-FSS).
- Includes heavy-duty steel carrying case.

Includes:

Cylinder & Yoke Ass'y, 27 Dies, Air Hose Ass'y, Single Action Foot Control Valve Ass'y With Lubricator & Air Filter, Baseplate, Hand Cable Cutters, Turnbuckle Wrench, Gauges & Manual

Part Number	Description	Weight
AVT-5667	New Kit	105 lbs (48 kgs)
AVT-5668	Rebuilt Kit*	105 lbs (48 kgs)
AVT-5669	Swager Only	19 lbs (8.6 kgs)

*Rebuilt kits subject to availability.

Swaged Terminal Gauge



Multiple gauges designed to check all swaged terminals within range of AVT-5667 swager shown above.

Part Number	Description
AVT-5674	Swaged Terminal Gauge

Hydraulic Swager With Enerpac®

- Swages by applying a designated number of pressure increments while rotating the cable terminal assembly.
- Included adapter accepts standard AT520 family of swaging dies (included w/520JK on prev. page*).



Part Number	Cable Capacity	Weight
AVT-5675	3/8"	100 lbs (45 kgs)

Note: Unit requires 100-120 psi. *Dies also available separately, please inq.

Hydraulic Pull Tester Kit



Pull-test swaged terminals made with the AVT-5675 shown above.

Part Number	Weight
AVT-5676	100 lbs (45 kgs)

Pneumatic Stationary Cable Swager

Swage Over
90% Of
Aircraft Type
Terminals



- Unit can swage ball terminals AN633 to -6 (3/16") & sleeve terminals to -8 (1/4").
- Features a heavy-duty yoke with shock absorber.
- Automatic swaging time controls, 2-stage foot switch.
- Die racks built into sides of unit, includes air filter & lubricator.

Part Number	Dimensions	Weight
AVT-5678	12"D x 24"W x 58"H	400 lbs (181 kgs)

Portable Manual Cable Swager Kit

Portable Roll
Type Swaging



Unit will swage MS type terminals onto galvanized and stainless steel cables from 1/16" to 3/16" diameter.

Includes:

Portable Manual Swager, Dies (rolls): 5 Straight Shank Sets (1/16" - 3/16"), 3 Ball Terminal Sets (1/16" - 1/8") & Gauges

Part Number	Weight
AVT-5677	64 lbs (29 kgs)

Bench Mount Manual Swaging Machine Kit

Geared Down Crank
For Easy Operation



Unit will swage AN or MS type fittings onto galvanized and stainless steel cables from 1/16" to 3/8" diameter.

Includes:

Swager With Bench Mount, Dies (rolls): 10 Straight Shank Sets (1/16" - 3/8") & 7 Ball Terminal Sets (1/16" - 1/4"), Straight Shank Die Auxiliary Adapter, Appropriate Gauges, Spring Clip & Adjustable Stop Guide Assemblies

Note: Bench not included.

Part Number	Weight
AVT-5679	240 lbs (136 kgs)

CABLE, WIRE & TUBING TOOLS

Portable Pneu. Swaged Terminal Pull Tester Kit



AVT-5680

- Can pull test all types and sizes of terminals to 1/4" diameter.
- Lightweight & compact, requires no experience to use.
- Includes heavy-duty steel carrying case.

Includes:

Pull Tester, Terminal Adapters: AN667 (5/32" - 1/4"), AN663/664 (1/16" - 3/16"), AN666/669 Right Thread (1/16" - 7/32"), AN666/669 Left Thread (1/16" - 1/4"), AN667/668 (3/16" - 3/8") Terminal Pins, Jaws (1/16" - 1/4" cables)

Part Number	Description	Weight
AVT-5680	Complete Kit	70 lbs (32 kgs)
AVT-5681	Rebuilt Kit*	70 lbs (32 kgs)

*Rebuilt kits subject to availability.

Pull Tester Calibration Kit

Save Time
& Money



- Includes adapters required to certify AVT-5680 shown above.
- A quality assurance tool recognized by the Boeing company.

Note: NSN: 4920-00-949-9409.

Part Number	Weight
AVT-5684	7 lbs (3.2 kgs)

AVITORQ 37° Single & Double Lap Flaring Tool Kit



AVT-5682

Foam Fitted Case Helps Prevent F.O.D.

- Portable or vise mounted, sliding handle for maximum leverage.
- Adapters revolve for quick size change.
- Unit can also flare single 37° S.A.E. standard & oversize.

Flaring Capacity:

3/16", 1/4", 5/16", 3/8" & 1/2" O.D. In Soft Copper & Aluminum

Flaring Tool Kit Includes:

Flaring Tool (AVT-5683), Inner-Outer Reamer (AVT-5685), Tubing Cutter (AVT-5705), Four Protrusion Gauges with Case, Instructions & Foam Fitted Carrying Case

Part Number	Description
AVT-5682	Complete 9 PC Kit
AVT-5683	Flaring Tool, Gauges & Case Only

Inner-Outer Reamers

Reams tube edges with three hollow ground tool steel cutters.



AVT-5685

Standard Model:

3/16" to 1-1/2" O.D. In Aluminum & Soft Metal

Heavy-Duty Model:

3/16" to 1-1/2" O.D. In Stainless, Copper, Brass & Other Metal

Standard	Heavy-Duty	Weight
AVT-5685	AVT-5686	0.6 lbs (0.3 kgs)

37° Flaring Tool

- Forms 37° tubing flares to government specifications.
- Positive stop gauge assures correct size of flare.
- Special burnishing action polishes flare face.
- Roller action cuts effort required to flare and maintains original wall thickness which eliminates stress concentration in the material.

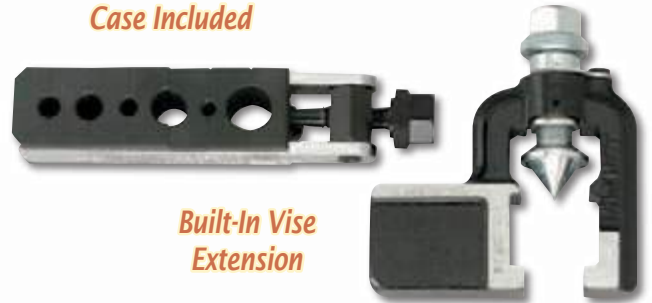
Flaring Capacity:

3/16", 1/4", 5/16", 3/8", 1/2" & 5/8" O.D. In Steel, Stainless Steel (including MIL-T-6845), Titanium & Other Metals

Part Number	Weight
AVT-5687	2.5 lbs (1.1 kgs)

Case Included

Built-In Vise Extension



Heavy-Duty 37° Flaring Tool



Case Included

AVT-5689

Flaring Capacity:

1/8", 3/16", 1/4", 5/16", 3/8" & 1/2" O.D. In Annealed Stainless (MIL-T-6345 or AMS5566), Cold Drawn Stainless, Annealed Copper & Aluminum

Part Number	Weight
AVT-5689	3.25 lbs (1.5 kgs)

Large Size 37° Flaring Tool



Built-In Vise Extension

Case Included

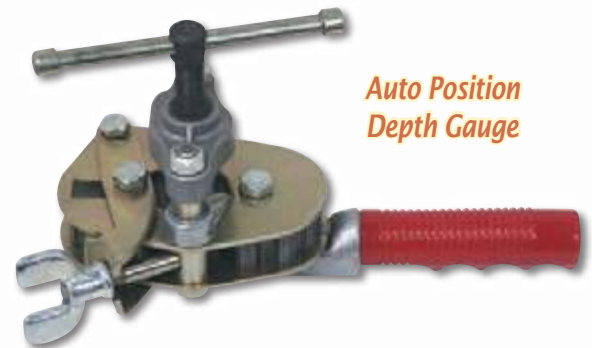
AVT-5690

Flaring Capacity:

3/4", 7/8", 1" & 1-1/4" O.D. In Soft Steel, Copper, Aluminum & Annealed Stainless

Part Number	Weight
AVT-5690	13 lbs (5.9 kgs)

Rolo-Flair® 37° Rotary Flaring Tool



Auto Position Depth Gauge

Flaring Capacity:

1/8", 3/16", 1/4", 5/16", 3/8", 1/2", 5/8" & 3/4" O.D. In Copper & Aluminum Alloys

Part Number	Weight
AVT-5688	3 lbs (1.4 kgs)

Rol-Air 37° Flaring Tool



Case Included

AVT-5691

- Faceted, hard chrome cone for perfect scoreless flares.
- Slip on yoke permits use in tight quarters.

Flaring Capacity:

3/16", 1/4", 5/16", 3/8", 1/2" & 5/8" O.D. In Soft Copper, Aluminum & Brass

Part Number	Weight
AVT-5691	1.8 lbs (0.8 kgs)

CABLE, WIRE & TUBING TOOLS

90° Triple Header Tube Benders



*Quick
& Easy*

- Make up to 90° bends on soft copper, alum. & thin wall steel tubing.
- Calibrated markings for accurate left, right or offset bends.
- 90° starting point requires less effort.

Part Number	O.D. Tube Capacity*	Weight
AVT-5693	1/8", 3/16" & 1/4"	0.5 lbs (0.2 kgs)
AVT-5694	3/16", 1/4", 5/16" & 3/8"	1.0 lbs (0.5 kgs)

*Radius to center of tube for AVT-5693: 1/8": 5/8", 3/16": 19/32", 1/4": 9/16".
Radius to center of tube for AVT-5694: 3/16" & 1/4": 1-1/64", 5/16": 1", 3/8": 15/16".

Lever Type Tube Benders



- Each tool bends one size, no scoring or flattening of tubing.
- Open side design slips over tube at any point.
- Calibrated markings with up to 180° bend.
- Wide hook grips tubing securely for smooth, tight radius bends.

Part Number	O.D. Tube Capacity	Radius To Center Of Tube	Weight
AVT-5696	3/16"	7/16"	0.5 lbs (0.2 kgs)
AVT-5697	1/4"	9/16"	1 lbs (0.5 kgs)
AVT-5698	5/16"	11/16"	1 lbs (0.5 kgs)
AVT-5699	3/8"	15/16"	1.75 lbs (0.8 kgs)
AVT-5700	1/2"	1-1/2"	3.5 lbs (1.6 kgs)

180° Triple Header Tube Bender



Lightweight Die-Cast Aluminum

Cushioned Grips & Adjustable Hook

- For soft copper, aluminum & thin wall steel tubing.
- Make smooth, tight radius bends up to 180°.
- Calibrated markings for accurate left, right & offset bends.

Part Number	O.D. Tube Capacity*	Weight
AVT-5692	3/16", 1/4", 3/8 & 1/2"	2.4 lbs (1.1 kgs)

*Radius to center of tube: 3/16" & 1/4": 11/16", 3/8": 1-1/8", 1/2": 1-1/2".

180° Roto-Lok™ Triple Header Tube Bender

Two-Stage, Indexed Handle For Easier Control



Lightweight & Compact Design

Rugged & Precise

Cushioned Grips

- For soft copper, aluminum & thin wall steel tubing.
- Makes smooth, tight radius bends up to 180° with less effort.
- Calibrated markings for accurate left, right & offset bends.

Part Number	O.D. Tube Capacity*	Weight
AVT-5695	3/16", 1/4", 5/16 & 3/8"	1.3 lbs (0.6 kgs)

*Radius to center of tube: 3/16" & 1/4": 9/16", 5/16": 11/16", 3/8": 15/16".

Cable Tie Tensioning Tool

- Designed to work with standard 175 lb as well as thinner 125 lb cable ties.
- Adjustment knob allows user to set desired tension (do not over tighten - adjust only with fingers).

NEW

Auto Cut-Off Feature

Adjustable Tension



Part Number	Length	Weight
AVT-5701	8-1/2" (22 cm)	15 oz (425 g)

Compact Tube Cutter

- Enclosed feed requires only 1-1/4" clearance.
- Replaceable hardened steel cutter wheel with two friction reducing steel rollers.



Part Number	Capacity	Weight
AVT-5702	1/8" to 5/8" O.D.	3 ozs (85 g)

Heavy-Duty Industrial Tube Cutter



Fold-Out Reamer

New Contoured Design

Easily cut copper, aluminum, brass & thin wall stainless steel.

Part Number	Capacity	Weight
AVT-5705	1/8" to 1-5/8" O.D.	6.5 ozs (184 g)

Pro Tube Beading Kit



- Makes perfect, mar-free beads in aluminum, copper, brass & mild steel tubes ranging from 1/4" to 1" diameter.
- Simple, reliable tools with ground, hardened & polished surfaces & high-polymer gripping jaws - lifetime guarantee.
- Meets MILSPEC MS33660D & SAE AS5131 standards.

Part Number	Description	Weight
AVT-5716	12 PC Kit	7 lbs (3.2 kgs)

Rapid Action Ratchet Tube Wrenches

Heavy-Duty Construction



Ideal For Closed System Fittings



- Unique open jaw design speeds installation of tube fittings & valves, hex nuts, bolts & fasteners in hard to reach areas.
- 12-point contact distributes torque pressure evenly in hex flats.
- Hardened steel jaws & heavy gauge alloy steel handles.

Part Number	Hex OD Size	Overall Length
AVT-5703	5/16"	5-1/2" (140 mm)
AVT-5704	3/8"	5-1/2" (140 mm)
AVT-5706	7/16"	5-3/8" (137 mm)
AVT-5707	1/2"	5-1/2" (140 mm)
AVT-5708	9/16"	7-1/4" (184 mm)
AVT-5709	5/8"	7-5/32" (182 mm)
AVT-5710	11/16"	7-1/4" (184 mm)
AVT-5711	3/4"	7-5/16" (186 mm)
AVT-5712	13/16"	9-1/8" (232 mm)
AVT-5713	7/8"	9-3/32" (231 mm)
AVT-5714	15/16"	9-1/4" (235 mm)
AVT-5715	1"	9-9/32" (236 mm)



7 PC Wrench Kit With Carrying Pouch	
Part Number	Sizes Included
AVT-5717	3/8", 7/16", 1/2", 9/16", 5/8", 11/16" & 3/4"

Steinel® Professional Heat Gun

AVT-5718

*Integrated
Upright Support
Stand*

*Ceramic
Heating
Element*

NEW

*Ergonomic
Design*

*Hanging
Loop*

- High-quality construction and optimum weight balance.
- Nine temperature settings and three airflow settings*.
- 6' industrial grade rubber power cord.
- Other models and options available, please inquire.

Part Number	Temperature Range	Power	Weight
AVT-5718	120° To 1100°F (50° To 600°C)	120V - 50/60Hz 13.2 A - 1500W	1.85 lbs (0.84 kgs)

*Air flow settings: 4 CFM, 4-8 CFM & 6-13 CFM.



AVT-5720

Heat Gun Kit Includes:

AVT-5718 Heat Gun, 20mm Reduction Nozzle, 9mm Reduction Nozzle, 75mm Spreader Nozzle, 14mm Reflector Nozzle, 39mm Reflector Nozzle & Heavy Duty Carrying Case

7PC Heat Gun Kit	
Part Number	Weight
AVT-5720	6 lbs (2.7 kgs)

Steinel® Professional Digital Heat Gun

AVT-5719

*Integrated
Upright Support
Stand*

*Ceramic
Heating
Element*

NEW

*Ergonomic
Design*

*LCD
Display*

*Hanging
Loop*

- LCD information display with residual heat indicator.
- Four customizable preset temperature programs.
- High-quality construction and optimum weight balance.
- Lockable toggle temperature control and three airflow settings*.
- 6' industrial grade rubber power cord.
- Other models and options available, please inquire.

Part Number	Temperature Range	Power	Weight
AVT-5719	120° To 1200°F (50° To 650°C)	120V - 50/60Hz 13.5 A - 1600W	1.66 lbs (0.75 kgs)

*Air flow settings: 4 CFM, 4-8 CFM & 6-13 CFM. Temp. control in 10°F increments.



AVT-5721

Heat Gun Kit Includes:

AVT-5719 Heat Gun, 9mm Reduction Nozzle, 14mm Reflector Nozzle, 39mm Reflector Nozzle, 9mm Reflector Nozzle & Heavy Duty Carrying Case

6PC Heat Gun Kit	
Part Number	Weight
AVT-5721	6 lbs (2.7 kgs)

T5 Aircraft Cable Tensiometers



- These highly accurate and reliable precision instruments won't suffer from temperature error.
- No need for preliminary adjustments and can be used continuously without resetting or checking.
- All models include appropriate riser blocks, cable gauge, documentation & soft fitted case*.

*Optional AVITORQ hard shell case shown on next page.

Replacement Riser Blocks				
#1	#2	#2C	#3	#3A
AVT-5722	AVT-5723	AVT-5724	AVT-5725	AVT-5726

T5-2000 Series				
Tensiometer Part Number	For Use On Cables	Reading Interval	Ranges	Riser Used
AVT-5727	1/16", 3/32" & 1/8"	5 (10 to 50) lbs	10 to 100 lbs	#1
	5/32" & 3/16"	10 (50 to 150) lbs	15 to 150 lbs	#2C
	7/32" & 1/4"	10 (50 to 150) lbs	25 to 150 lbs	#3
AVT-5728	1/16", 3/32" & 1/8"	10 (30 to 200) lbs	30 to 200 lbs	#1
	5/32" & 3/16"	20 (200 to 300) lbs	30 to 300 lbs	#2C
	7/32" & 1/4"	20 (200 to 300) lbs	30 to 300 lbs	#3
AVT-5729	1/16", 3/32" & 1/8"	5 (10 to 50) lbs	10 to 100 lbs	#1
	5/32" & 3/16"	10 (50 to 150) lbs	15 to 150 lbs	#2C
	7/32" & 1/4"		25 to 150 lbs	#3
	5 & 10 CWT	5 (10 to 50) lbs	10 to 100 lbs	#1
	15 CWT	10 (50 to 150) lbs	15 to 150 lbs	#2C
	20 & 25 CWT	10 (50 to 150) lbs	15 to 150 lbs	#2C
	70 CWT	10 (50 to 150) lbs	25 to 150 lbs	#3

T5-8000 Series				
Tensiometer Part Number	For Use On Cables	Reading Interval	Ranges	Riser Used
AVT-5730	1/16"	For All Cables	10 to 300 lbs	#1
	3/32" & 1/8"	5 (10 to 50) lbs	10 to 300 lbs	#2
	5/32" & 3/16"	10 (60 to 100) lbs	10 to 300 lbs	#2C
	7/32" & 1/4"	20 (120 to 300) lbs	10 to 300 lbs	#3A
AVT-5731	3/16"	50 (300 to 1600) lbs	300 to 1600 lbs	#2
	7/32" & 1/4"	50 (300 to 1600) lbs	300 to 1600 lbs	#2C
	5/16"	50 (300 to 1600) lbs	300 to 1600 lbs	#3A
AVT-5732	3/16"	50 (500 to 1000) lbs	500 to 2000 lbs	#2
	7/32" & 1/4"	100 (1000 to 2000) lbs	500 to 2000 lbs	#2C
	5/16"	100 (1000 to 2000) lbs	500 to 2000 lbs	#3A
AVT-5733	1/8" & 5/32"	20 (40 to 600) lbs	40 to 600 lbs	#2
	3/16"	20 (40 to 600) lbs	40 to 600 lbs	#2C
	1/4"	20 (40 to 600) lbs	40 to 600 lbs	#3

TESTING & MEASURING

Hard Shell T5 Tensiometer Case

*Helps
Prevent
F.O.D.*



*Protect
Your
Instrument*

Part Number	Description
AVT-5734	Foam Fitted Plastic Case

Type T60 Aircraft Cable Tensiometers

*Handy Built-In
Cable Gauge*



*Dial
Pointer
Lock*



Fitted Case Included

AVT-5738

- Positive 3-point cable gap & no alternate risers (no losable parts).
- Unit is not damaged by cable tensions above stated range.
- Unit includes fitted carrying case & instructions.

Part Number	Ranges	For Use On Cables
AVT-5738	10 to 200 lbs	1/16", 3/32", 1/8", 5/32", 3/16", 7/32" & 1/4"
AVT-5739	150 to 450 lbs	1/8", 5/32", 3/16", 7/32" & 1/4"

AVITORQ TENSIO METER CALIBRATION

For aircraft cable tensiometer repair, testing or calibration enquiries, provide the maker, model, serial number, cable sizes and required measurement range. Confirm the service location and documentation requirements with AVITORQ before dispatch.

Digital Protractor / Inclinometers

AVT-5735



- Versatile digital level, 360° protractor & inclinometer for instant and accurate measurements of level, angle & tilt.
- Rugged sensors & high-impact machined aluminum frame.
- Hold button freezes the displayed angle.
- 'V' grooves in edges for accurate reading on curved surfaces.
- Floating zero - provides zero selection anywhere in the 360° range.

Pro 360 - 0.10° Resolution			
Part Number	Range	Overall Length	Weight
AVT-5735	360° (4 x 90°)	6" (152 mm)	10.2 oz (289 g)

Accuracy: $\pm 0.1^\circ$ (level $\pm 10^\circ$), $\pm 0.1^\circ$ (plumb $\pm 10^\circ$), $\pm 0.2^\circ$ maximum error.



AVT-5736

Pro 3600

- Features greater accuracy & SPC output.
- SPC uses serial port (RS-232) & 10 pin rectangular connector.

Pro 3600 - 0.01° Resolution (0° to $\pm 10^\circ$), 0.10° (10° to 90°)			
Part Number	Range	Overall Length	Weight
AVT-5736	360° (4 x 90°)	6" (152 mm)	10.4 oz (295 g)

Accuracy: $\pm 0.05^\circ$ (0° to 10°), $\pm 0.20^\circ$ (10° to 80°), $\pm 0.10^\circ$ (80° to 90°).

Protractor & Depth Gauge



- Stainless steel construction with permanently etched gradations.
- Locking nut for making both depth & angle measurements.
- Narrow depth gauge has etched gradations in 32nds & 64ths.

Part Number	Depth Gauge	Angle Range
AVT-5737	6" x 1/4"	$\pm 180^\circ$

Starrett® Angle Protractor

*Hands-Free
Magnetic Base*



- Easily measure any angle for pitch or slope.
- Handy rise, run, angle and pitch information on back of the tool.

Part Number	Range
AVT-5740	0° to 90°



Fowler® IP54 Digital Micrometers



*Protected To IP54
Specification*

- Carbide measuring faces & large easy to read display.
- RS-232 output for data export readings to a computer*.
- Includes wrench, battery & fitted plastic case (not shown).

Friction Thimble - 0.00005" Resolution		
Part Number	Accuracy	Range
AVT-5741	± 0.0016"	0" to 1" (0 to 25 mm)
AVT-5742**	± 0.0016"	1" to 2" (25 to 51 mm)
AVT-5743**	± 0.0020"	2" to 3" (51 to 76 mm)

*Requires cable, not included.

**Includes standard.

Fowler® Digital Calipers



AVT-5747

- Absolute ceramic scale will never lose its reference point.
- Stainless steel frame & large easy to read display.
- Includes battery & fitted plastic case (not shown).

± 0.001" Accuracy - 0.0005" Resolution	
Part Number	Range
AVT-5746	0" to 4" (10.2 cm)
AVT-5747	0" to 6" (15.2 cm)
AVT-5748	0" to 8" (20.3 cm)
AVT-5749	0" to 12" (30.5 cm)

Mitutoyo® Digimatic Calipers



AVT-5752

- Delivers highly accurate, four-way measurement capabilities.
- Functions include zero setting, data hold & error alarm*.
- Includes battery & fitted plastic case (not shown).

± 0.001" Accuracy - 0.0005" Resolution	
Part Number	Range
AVT-5752	0" to 6" (15.2 cm)
AVT-5753	0" to 8" (20.3 cm)

*Many other sizes and models with SPC data output available, please inquire.

Mitutoyo® Digimatic Measurement Kits



AVT-5744

- Sturdy fitted mahogany case with accessory compartments.
- Kits include either a standard digital ratchet micrometer or a digital friction thimble micrometer which provides a higher degree of positive repeatability.
- Micrometers conform to IP65 specification.
- Calipers include Absolute Encode technology allowing the user to zero at any point for incremental comparison measurements.

Includes:

Digimatic Micrometer (0" to 1"), Digimatic Caliper (0" to 6"), Micrometer Spanner, Batteries & Mahogany Case

0.00005" Micrometer Resolution - 0.0005" Caliper Resolution	
Part Number	Description
AVT-5744	Measurement Kit with Ratchet Micrometer
AVT-5745	Measurement Kit with Friction Thimble Micrometer

Dividers & Calipers



AVT-5750



AVT-5751



AVT-5754

- Special caliper steel with hardened point dividers.
- Hardened & tempered bow springs & fulcrum spools assure uniform tension without side play.
- Meets government specification GGG-C-95.

Part Number	Description	Range	Reach
AVT-5750	Flat Leg Divider	0 to 6-1/4" (159 mm)	6" (152 mm)
AVT-5751	Outside Caliper	0 to 6-5/16" (161 mm)	6-1/8" (156 mm)
AVT-5754	Inside Caliper	0 to 6-1/2" (165 mm)	6-5/16" (161 mm)

TESTING & MEASURING

Fowler® Electronic Depth Gauge



- Six interchangeable extensions provide a large 0-22" capacity.
- Carbide contact point with two extra points for small work.
- Hardened steel base, ground and microlapped for accuracy*.
- Direct inch-metric conversion, zero reset and hold feature.

Part Number	Range	Travel**	Resolution
AVT-5758	0-22" (0-550mm)	0-1"	0.0005" (0.01mm)

*Base size is 4" x 0.630". **Electronic indicator stem is 3/8".

Telescoping Gauge Sets



- Contact points constructed of hardened tool steel that are precision ground on the end measuring radius.
- Self-centering rigid handle for uniform contact pressure.

Part Number	Type	Measuring Range
AVT-5760	Mitutoyo® Deluxe	5/16" to 6" (8 to 152 mm)
AVT-5762	Economy	

Feeler (Thickness) Gauges



- Knurled lock nut holds leaves in desired position.
- Easy to read numbers include thousandths and mm equivalents.

Part Number	Range	Leaves	Leaf Size
AVT-5755	0.0015" to 0.025"	26	3" (76 mm)
AVT-5756	0.002" to 0.025"	15	3" (76 mm)
AVT-5757	0.002" to 0.025"	15	6" (152 mm)

Precision Feeler Gauge Set

- Made of high-grade precision gauge steel.
- Meets government specification GG-G-86b.

Part Number	Range	Leaves	Leaf Size
AVT-5759	0.0015" to 0.025"	26	3" (76 mm)

SPI® Feeler (Thickness) Gauge Sets

Tempered Steel Hardened To 45 RC



- Thickness permanently etched on each leaf.
- Accuracy meets federal specifications.
- Plastic case with individual blade pockets included.

Part Number	Range	Leaves	Leaf Size
AVT-5761	0.001" to 0.025"	20	6" (152 mm)
AVT-5763	0.05 to 1.00 mm	20	6" (152 mm)

MORE GAUGES & MEASURING DEVICES



BRFZ (C'Sink Go / No-Go) 77

Cherry Blind Rivet Gauges 117

Drill Bit Gauges 15



Hi-Shear Grip Gauge 130

Hi-Shear Pin Protrusion Gauges 130

Rivet Gauges 39



Sleeve Gauges (Locoloc) 188

Swaged Terminal Gauges 188

Visu-Lok & Composi-Lok Gauges 130



SPI® Countersink Gauges

Simple, One Handed Operation

- Fast and accurate measurement of countersink diameter.
- Direct major reading of countersink angles to 0.002°.
- Dial readings are held until reset.
- Convenient 5" pocket size.
- Includes setting ring & foam lined, fitted storage case.



AVT-5766

± 0.0005" Accuracy		
Part Number	Diameter Range	Countersink Angle
AVT-5766	0.160 - 0.360"	100°
AVT-5768	0.360 - 0.560"	100°

SPI® Machinist Squares & Sets



AVT-5778

- Blades permanently secured to beam ensures rigidity.
- Hardened steel, precision ground for straightness & parallelism.
- Working edges of blades lapped to accuracy.

Part Number	Size (blade length)	Beam Length	Accuracy (square, parallel)
AVT-5778	2"	2"	0.0010", 0.0005"
AVT-5779	3"	2-1/2"	0.0011", 0.0006"
AVT-5780	4"	3"	0.0012", 0.0006"
AVT-5781	6"	4"	0.0014", 0.0007"
AVT-5782	9"	5-1/2"	0.0017", 0.0009"
AVT-5783	12"	7-1/2"	0.0020", 0.0010"

AVT-5789



Sets Include
Fitted Plastic Case

Machinist Square Sets		
Part Number	Description	Included Sizes
AVT-5787	3 PC Set	2, 3 & 4"
AVT-5788	3 PC Set	2, 4 & 6"
AVT-5789	4 PC Set	2, 3, 4 & 6"
AVT-5790	4 PC Set	4, 6, 9 & 12"

Ultratest® Steel Rulers



AVT-5764

AVT-5770



AVT-5765

- Ultra fine black graduations on hard satin chrome finish.
- Easy read type are black with white graduations.

5R Graduations				
Part Number Satin Chrome	Part Number Easy Read	Type	Width	Overall Length
AVT-5764	AVT-5765	Flex	1/2"	6" (152 mm)
AVT-5767	—	Rigid	3/4"	6" (152 mm)
AVT-1847	AVT-5769	Flex	1/2"	12" (305 mm)
AVT-5770	—	Rigid	1"	12" (305 mm)
AVT-5771	AVT-5772	Flex	3/4"	18" (457 mm)
AVT-5773	AVT-5774	Rigid	1-1/8"	18" (457 mm)
AVT-5775	AVT-5776	Flex	3/4"	24" (610 mm)
AVT-5777	—	Rigid	1-1/8"	24" (610 mm)

Lufkin® P1000 Tape Measures

AVT-5785



Hi-Visibility
Case

Accuracy Exceeds
NIST Standards

Comfortable & Durable

- Super tough ABS case with comfortable non-slip rubber overmold.
- Patented long-life end hook & full length clear-coated blade.

Part Number	Blade Width	Blade Length	Scale
AVT-5784	3/4" (19 mm)	16' (5 m)	Inch
AVT-5785	1" (25 mm)	25' (7.5 m)	Inch
AVT-5786	1" (25 mm)	25' (7.5 m)	Inch, 10ths, 100ths

Sheet Metal Gauge

Hardened & Tempered
Chrome Finished Tool Steel

- American standard wire gauge (0 to 36) for non-ferrous metals.
- Stamped numbers with decimal equivalents stamped on reverse.



Part Number	Thickness	Diameter
AVT-5791	3/32"	3-1/4" (83 mm)

TESTING & MEASURING

SPI® Pin Gauge Sets



Certificate Of Accuracy Included

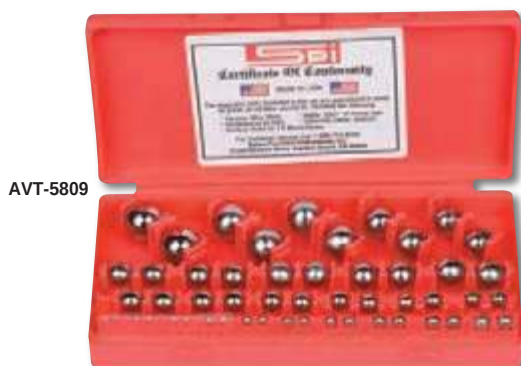
AVT-5796

Quick & Precise

- Measure hole size, slot width, use as go/nogo gaging, etc.
- Inspected with equipment calibrated & traceable to NIST.
- 2" hardened drill rod RC 60-62, 10 micro finish or better.
- Includes pin gauge holder & attractive molded plastic case.

Accuracy +0.0002" -0"	Accuracy -0.0002" +0"	Range	Set
AVT-5793	AVT-5794	0.011" to 0.060"	50 PC
AVT-5795	AVT-5796	0.061" to 0.250"	190 PC
AVT-5797	AVT-5798	0.251" to 0.500"	250 PC
AVT-5799	AVT-5800	0.501" to 0.625"	125 PC
AVT-5801	AVT-5802	0.626" to 0.750"	125 PC
AVT-5803	AVT-5804	0.751" to 0.832"	82 PC
AVT-5805	AVT-5806	0.833" to 0.916"	84 PC
AVT-5807	AVT-5808	0.917" to 1.000"	84 PC

SPI® Precision Inspection Gauge Ball Sets



AVT-5809

Meets All Grade 24 AFBMA Standards

- Within 0.0001" / 0.0025 mm of actual size.
- Spherical accuracy within 0.000025" / 0.0006 mm.
- 63 HRC chrome alloy steel - surface finish to 1.5 micro-inches.

Part Number	Type	Includes
AVT-5809	Inch	26 Pairs, 1/8" to 1"
AVT-5811	Metric	25 Pairs, 1 mm to 25 mm

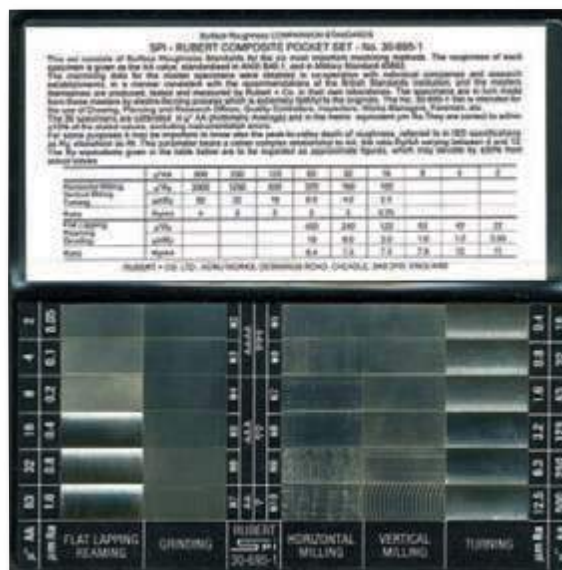
Bolt Gauge



- Sizes all bolts up to 5/8" diameter and 5" long.
- Complete instructions & bolt identification data on reverse.

Part Number	Overall Dimensions
AVT-5792	5-1/2" x 6"

SPI® Surface Roughness Standards Set



Economy set of 30 (7/8" x 3/8") electro formed, solid nickel specimens. Each type of surface finish is truly and consistently reproduced, offering a realistic idea of the feel, appearance & texture of the machined components. Conforms to S.A.E. & military specifications for visual & tactile inspections. Includes instructions and graph correlating inch & metric surface finish values plus ISO "N" scale.

Specimens Included:

Three Flat Lapping (2, 4 & 8 μ "), Three Reaming (16, 32 & 63 μ "), Six Grinding (2, 4, 8, 16, 32 & 63 μ "), Six Horizontal Milling (16, 32, 63, 125, 250 & 500 μ "), Six Vertical Milling (16, 32, 63, 125, 250 & 500 μ ") & Six Turning (16, 32, 63, 125, 250 & 500 μ ")

Part Number	Description
AVT-5810	Roughness Standards Set
AVT-5812	Roughness St. Set w/Long Form Calibration Report

SPI® Hardness Testing File Set



- Practical, inexpensive method to quickly determine approx. hardness of heat treated workpieces & materials.
- Handy, color coded set of size testing files covers nominal hardness from 40 RC to 65 RC in increments of 5 RC.
- Special curved design for easy access in hard to reach places.

Part Number	Description
AVT-5814	Hardness Testing File Set

Spring Scale



Accuracy Certified

Part Number	Capacity
AVT-5818	10 lbs (5 kgs), 4 oz (100 g) Increments

TTL® Analog Aircraft Tire Gauges



AVT-5820

- New inverted gauge orientation for easier reading.
- Includes custom fitted case and accredited certification.

Part Number	Range	Accuracy
AVT-5819	0-160 PSI	± 1% of Full Scale
AVT-5820	0-300 PSI	± 1% of Full Scale

Note: 2-1/2" gauge diameter, 1/4" NPT.

TTL® Digital Aircraft Tire Gauges



- Inverted gauge orientation for easier reading.
- Includes custom fitted case and accredited certification.

Part Number	Range	Accuracy
AVT-5813	0-300 PSI	± 0.25% of Full Scale

Note: 3" gauge diameter, 1/4" NPT.

Tire & Pressure Gauges

- Bourdin type dial gauge, 7" hose & 6" dual chuck.
- Includes recalibration screw for adjustments & metal carrying case.



Part Number	Range	Overall Length
AVT-5815	0 to 200 psi	18" (45.7 cm)
AVT-5816	0 to 400 psi	18" (45.7 cm)
AVT-5817*	0 to 400 psi	18" (45.7 cm)

*Includes three metal valve extensions.

TTL® Analog Aircraft Strut Gauge



- Accurate, wide range for proper strut inflation.
- Assembly includes strut fitting, soft seat valve & air bleed valve.

Part Number	Range	Accuracy
AVT-5821	0-3000 PSI	± 1% of Full Scale

Note: 2-1/2" gauge diameter, 1/4" NPT.

TESTING & MEASURING

Hydraulic Shock Strut Gauges



- Screw type locking chuck securely attaches to valve.
- Includes drain cock for bleeding pressure & plastic carrying case.

Part Number	Range	Overall Length
AVT-5822*	0 to 400 psi	18" (45.7 cm)
AVT-5823	0 to 1,500 psi	18" (45.7 cm)
AVT-5824	0 to 3,000 psi	18" (45.7 cm)

*8874 also includes three metal valve extensions (not shown).

TTL® Analog Aircraft Tire Inflator

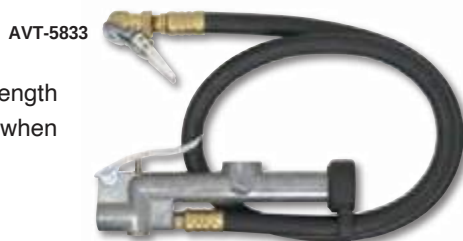


- Over pressure blow-off valve for safety & accuracy.
- Assembly also includes bleeder valve, clip-on chuck & inflation control ball valve.

Part Number	Range	Accuracy
AVT-5829	0-300 PSI	± 1% of Full Scale

Note: 2-1/2" gauge diameter, 1/4" NPT.

Schrader® Lever Control Type Inflating Gauges



Three foot hose length for safe distance when mounting tires.

Part Number	Air Chuck	Range
AVT-5833	Clip-On	10 to 120 psi
AVT-5834	Dual Foot	10 to 120 psi

TTL® Digital Aircraft Tire Master Kit



Ensure a safe flight with this accurate, certified kit.

Kit Includes:

Digital Pressure Gauge, Quick Connect Dual Foot Chuck, Long & Short Straight Chuck, Tire Tread Depth Tool & Fitted Case

Part Number	Range	Accuracy
AVT-5825	0-300 PSI	± 0.25% of Full Scale

Note: 3" gauge diameter, 1/4" NPT.

High Pressure Strut Valve

- A high pressure hose coupling in gooseneck or straight style.
- 1/8" NPT female thread.



Part Number	Style	Max. Working Pressure
AVT-5826	Gooseneck	5,000 psi
AVT-5827	Straight	5,000 psi
AVT-5828	Replacement Seal	

Replacement Lock Chucks

Part No.	Type	Thread
AVT-5830	T-Handle, Std. Bore	.307"-32
AVT-5831	T-Handle, Large Bore	.482"-26
AVT-5832	No Handle, Std. Bore	.307"-32



Note: 3/8"-24 side hose connector. 3000 psi maximum working pressure.

Valve Core Removal Tool

*Rapid & Safe
Tire Deflation*



- Knurled design for easy handling.
- Exhausts air towards wheel & traps the valve core within the tool.

Part Number	Description
AVT-5835	Valve Core Removal Tool

KH® Industrial LED Lights

Slim Design For Tight Spaces



Made In The USA

NEW

AVT-5836

- Reflective tube shields for focused & intensely bright task lighting.
- Long lasting LEDs are instant on - no humming or flickering.

2' Models - 10 Watt LED (1200 Lumens)

Part Number	Cord	Dimensions
AVT-5836	25' (7.5 m)	30-1/2" L x 2-1/8" OD (77 x 5 cm)
AVT-5837	50' (15 m)	

4' Models - 18 Watt LED (2160 Lumens)

Part Number	Cord	Dimensions
AVT-5841	25' (7.5 m)	53" L x 2-1/8" OD (135 x 5 cm)
AVT-5842	50' (15 m)	

Note: 120VAC/60HZ. Unit comes with two hanging clips (not shown).

KH® 'Add-A-Light' Industrial LED Lights

Slim Design For Tight Spaces



Made In The USA

NEW

AVT-5843

AVT-5845

- Reflective tube shields for focused & intensely bright task lighting.
- Long lasting LEDs are instant on - no humming or flickering.
- Heavy-duty KH flip seal plugs included.
- Feed through outlets for easy daisy chain or power tool plug in.

2' Models - 10 Watt LED (1200 Lumens) - Reflective Tube Shield*

Part Number	Cord	Type	Dimensions
AVT-5843	6' (1.75 m)	Feed Through Model	30-1/2" L x 2-1/8" OD (77 x 5 cm)
AVT-5844	25' (7.5 m)		
AVT-5845	6' (1.75 m)	End Cap Model	
AVT-5846	25' (7.5 m)		

4' Models - 18 Watt LED (2160 Lumens) - Reflective Tube Shield*

Part Number	Cord	Type	Dimensions
AVT-5849	6' (1.75 m)	Feed Through Model	53" L x 2-1/8" OD (135 x 5 cm)
AVT-5850	25' (7.5 m)		
AVT-5851	6' (1.75 m)	End Cap Model	
AVT-5853	25' (7.5 m)		

Note: 120VAC/60HZ. Includes hanging clips (not shown). *Clear avail., please inq.

KH® HazRay Hazardous Location LED Lights

Made In The USA



Ergo Handle & Hanging Hook

Great For Small Spaces

NEW

- 120° beam angle LED with shatter resistant glass lens also includes replaceable, protective diffused lens cover.
- Durable, impact-modified ESD engineered thermoplastic body.

17 Watt LED (1700 Lumens)

Part Number	Cord	Size & Weight
AVT-5838	25' (7.5 m)	5" Diameter (13 cm), 1.8 lbs (0.8 kgs)
AVT-5839	50' (15 m)	
AVT-5840	100' (30 m)	

Note: 120VAC/60HZ. Plug not included. Many options available, please inquire.

KH® 'Quad Light' Wide Area LED Lighting

Mounting Straps Included



Protected On/Off Switch

NEW

Made In The USA

AVT-5847

- Stand, mount or hang in a variety of positions for lighting flexibility.
- Long lasting LEDs are highly shock and vibration resistant.
- Tool free relamping & user serviceable replacement parts.
- Feed through ready - daisy chain up to twenty units.

All Models Include:

Quad Light Fixture, Four LED Lamps, SJOW 14/3 Cord, NEMA 5-15 Grounded Plug-Connector & Flexible Mounting Straps

2' Models - 40 Watt LED (5000 Lumens) - Clear Tube Shield*

Part Number	Cord	Dimensions
AVT-5847	10' (3 m)	27-3/4" x 7-1/4" x 5-3/4" (70 x 18 x 14 cm)
AVT-5848	25' (7.5 m)	

4' Models - 80 Watt LED (7200 Lumens) - Clear Tube Shield*

Part Number	Cord	Dimensions
AVT-5852	10' (3 m)	52" x 7-1/4" x 5-3/4" (132 x 18 x 14 cm)
AVT-5854	25' (7.5 m)	

Note: 120VAC/60HZ. *Reflective tube shield available, please inquire.

LIGHTING & INSPECTION

Mag-Lite® Flashlights

Made In The USA



Limited Lifetime Warranty

AVT-5858

- High-strength and durable aluminum alloy case is o-ring sealed for water resistance.
- Includes spare lamp safely secured in the tail cap.
- 3-position self cleaning rotary switch & cam action focus.

Note: Batteries not included. Battery life rated for continuous on (approximate).

Maglite - 14 Hour Battery Life

Part Number	Batteries*	Weight (with batteries)	Overall Length
AVT-5857	2 D-Cell	1.5 lbs (0.7 kgs)	10" (254 mm)
AVT-5858	3 D-Cell	1.9 lbs (0.9 kgs)	12-11/32" (314 mm)



AVT-5859

Mini Maglite - 6 Hour Battery Life

Part Number	Batteries*	Weight (with batteries)	Overall Length
AVT-5859	2 AA	3.78 oz (107 g)	5-3/4" (146 mm)



AVT-5861

Mini Maglite & Black Polypropylene Holster - 6 Hour Battery Life

Part Number	Batteries*	Weight (with batteries)	Overall Length
AVT-5861	2 AA	3.78 oz (107 g)	5-3/4" (146 mm)

Replacement Lamps

Part Number	For Use With	Pack Size
AVT-5862	Mini Maglite	2 Pack
AVT-5863	Maglite	1 Pack

Light Loupe Magnifying Flashlight

10X Magnification



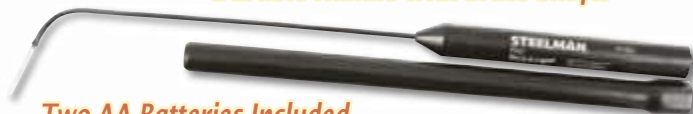
- Great for close inspection jobs in low light areas.
- Crystal clear 10X lens shielded by a hard plastic holder.
- Magnifier can be used with or without flashlight.

Part Number	Weight	Overall Length
AVT-5864	0.18 lbs (0.08 kgs)	6-7/8" (175 mm)

Note: Unit requires 2 'C' cell batteries, not included.

Steelman® Bend-A-Light Pro

Durable Handle With Brass Shafts



Two AA Batteries Included

AVT-5855

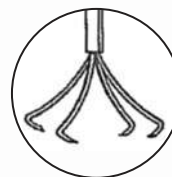
- High intensity flexible light bends & holds position.
- Protective cover can be used as handle extension.

Part Number	Description	Overall Length
AVT-5855	Bend-A-Light Pro	16" (40.6 cm)
AVT-5856	Replacement Bulb	

Flexible Spring Claw



Perfect For Objects Dropped In Hard To Reach Areas



Part Number	Overall Length
AVT-5860	23-1/2" (60 cm)

Bessey® Pyrometer-Thermometer



Probe Rated To 1200°F (650°C)

Probe & Flex Cord Included

- Multi-purpose measuring device for bearings, gears etc..
- Digital readout from -58°F (-50°C) to 2000°F (1300°C).

Note: Replacement probe with handle available, please inquire.

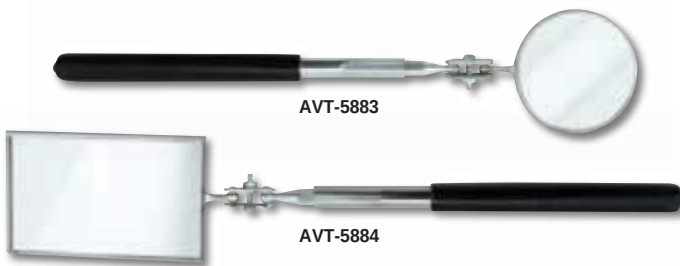
Part Number	Weight
AVT-5865	2.0 lbs (0.9 kgs)

Ullman® All-Angle Inspection Mirrors

- All-angle joints hold firm to allow fast & accurate 360° inspection.
- Replaceable clear glass mirror & insulating grip.
- Inner hex rods on telescoping models prevent mirror swing.



Standard (non-telescoping)		
Part Number	Mirror Size	Overall Length
AVT-5869	7/8" Diameter	7-1/2" (19.1 cm)
AVT-5870	1" x 2" Oval	8-1/2" (21.6 cm)
AVT-5873	1-1/4" Diameter	8" (20.3 cm)



Telescoping			
Part No.	Mirror Size	Overall Length	Extends To
AVT-5883	2-1/4" Diameter	10" (25.4 cm)	14" (35.6 cm)
AVT-5884	2-1/8" x 3-1/2"	11-1/4" (28.6 cm)	15-1/4" (38.7 cm)
AVT-5885	3-1/4" Diameter	11" (27.9 cm)	15" (38.1 cm)

Telescoping & Magnifying			
Part No.	Mirror Size	Overall Length	Extends To
AVT-5886	2-1/4" Diameter	10" (25.4 cm)	14" (35.6 cm)
AVT-5887	2-1/4" Diameter	16" (40.6 cm)	26" (66.0 cm)
AVT-5888	2-1/8" x 3-1/2"	11-1/4" (28.6 cm)	15-1/4" (38.7 cm)
AVT-5889	2-1/8" x 3-1/2"	17-1/4" (43.8 cm)	27-1/2" (69.9 cm)



Deluxe Telescoping Inspection Mirrors

- Stainless steel telescoping handle is strong & lightweight.
- Comfortable textured grip keeps hands secure even when wet.

Deluxe Telescoping			
Part No.	Mirror Size	Overall Length	Extends To
AVT-5893	1-1/4" Diameter	6-1/2" (16.5 cm)	35" (88.9 cm)
AVT-5894	2-1/4" Diameter	6-1/2" (16.5 cm)	36-3/8" (92.4 cm)
AVT-5895	3-1/4" Diameter	10-1/2" (26.7 cm)	29-1/2" (74.9 cm)

Ullman® All-Angle Inspection Mirrors (cont'd)



Pocket Telescoping With Magnetic Pick-Up			
Part No.	Mirror Size	Overall Length	Extends To
AVT-5866	7/8" Diameter	7-1/4" (18.4 cm)	27-1/2" (69.9 cm)
AVT-5867	1" x 2" Oval	8-1/4" (20.9 cm)	28-3/4" (73.0 cm)
AVT-5868	1-1/4" Diameter	7-5/8" (19.4 cm)	27-3/4" (70.5 cm)

Replacement Head Ass'y	
Part Number	For Model
AVT-5871	AVT-5869
AVT-5874	AVT-5870
AVT-5877	AVT-5883
AVT-5878	AVT-5873
AVT-5879	AVT-5884
AVT-5880	AVT-5885
AVT-5881	AVT-5886, AVT-5887
AVT-5882	AVT-5888, AVT-5889

Replacement Mirror Only	
Part Number	For Model
AVT-5872	AVT-5870
AVT-5875	AVT-5884
AVT-5876	AVT-5888, AVT-5889

Note: Other models available, please inq.

Ullman® All-Angle LED Light Inspection Mirrors



- Compact LED lights illuminate dark areas for perfect inspection.
- All-angle ball joint holds mirror firmly for easy viewing.
- Stainless steel telescoping mechanism & cushioned handle.

Part Number	Mirror Size	Extension
AVT-5890	1-3/8" Diameter	8-3/4" to 36"
AVT-5891	2-3/8" Diameter	10" to 37"
AVT-5892	3-3/8" Diameter	11" to 30-1/8"

Ullman® All-Angle Telescoping Magnifying Glass



- Durable shatter-resistant magnifying head.
- Stainless steel telescoping mechanism & cushioned handle.

Part No.	Mirror Size	Overall Length	Extends To
AVT-5896	2-3/8" Diameter	9-1/2" (24.1 cm)	36-1/4" (92.7 cm)

LIGHTING & INSPECTION

Ullman® All-Angle Inspection Mirror Kit

Versatile & Economical



Includes:

Three Standard (1" x 2" oval, 7/8" & 1-1/4" dia.) & Three Telescoping (2-1/8" x 3-1/2" rectangular, 2-1/4" & 3-1/4" dia.)

Part Number	Description
AVT-5900	Complete 6 PC Kit

Ullman® Spring Flex Magnetic Retrievers

Probe Easily Into The Most Inaccessible Areas

- Tightly wound flexible shaft of spring tempered steel links.
- High-power permanent magnet provide lifetime of pulling force.



Part Number	Overall Length
AVT-5903	17-1/2" (44.5 cm)

Ullman® All-Angle LED Light Magnetic Retrievers

Retrieve Objects Up To 8 Pounds



Steel Magnetic Head

- Compact LED light illuminates dark areas for perfect retrieval.
- Stainless steel telescoping mechanism & cushioned handle.

Part Number	Type	Extension
AVT-5904	Standard	8" to 32-3/4"
AVT-5906	Rotating Head*	6-3/4" to 27-3/4"

*Includes sliding magnet shield to prevent unwanted attachments.

Ullman® All-Angle Magnetic Retrievers

Perfect for Use In Water, Oil etc.



2

Molded Nylon Heads

High-power permanent magnet provides lifetime of pulling force.

Telescoping		
Part Number	Overall Length	Extends To
AVT-5897	16-3/4" (42.5 cm)	26-3/4" (68 cm)
AVT-5898	10-5/8" (27 cm)	14-5/8" (37 cm)

Standard (non-telescoping)	
Part Number	Overall Length
AVT-5899	6" (folded) to 8-1/2" (21.6 cm)



Pocket Telescoping		
Part Number	Overall Length	Extends To
AVT-5901	4" (10.2 cm)	19-1/2" (49.5 cm)



Mechanic's Insulated Pocket Retriever

- Insulating polypropylene unaffected by oil or gasoline.
- Pencil shaped with pocket clip - virtually unbreakable.

Mechanic's Pocket Retriever	
Part Number	Overall Length
AVT-5902	6" (152 mm)

Hook & Pick Sets



AVT-5905



AVT-5907

- Ideal for separating wires, removing or retrieving small parts.
- High-carbon polished steel permanently attached to alum. handle.

Part Number	Type	Picks Included
AVT-5905	4 PC Set	Straight, Complex, 90° & Hook
AVT-5907	5 PC Micro Set	Straight, Bayonet, Double Angle, 45° & Hook (Includes Vinyl Pouch)

4 PC Interchangeable Tip Hook & Pick Set

Zipper-Top Vinyl Pouch Included



*Built-In
Retrieval
Magnet*

- Ideal for separating wires, removing or retrieving small parts.
- Aluminum handle with magnet picks up small nuts, bolts etc.

Part Number	Tips Included
AVT-5908	Straight, 90°, Hook & Combination

General® Lighted Tweezer Set

Includes Heavy-Duty Nylon Carrying Case



Batteries Included

- Bright white LED illuminates dark & confined work areas.
- Anti-glare heat treated steel with non-slip comfort grips.
- Includes smooth point, serrated bent & serrated blunt tweezers.

Part Number	Description
AVT-5912	3 PC Lighted Tweezer Set

SPI® Stainless Steel Precision Tweezer Set



- Stainless steel construction for corrosion resistance and long life.
- This versatile set contains AA, OO, 2A, 3C, #5 & #7 pattern tip, SA-precision tweezers with a 4-3/4" overall length.
- Anti-magnetic - suitable for electronics use.
- Includes protective plastic pouch with closing snaps.

Part Number	Description
AVT-5921	6 PC Tweezer Set

Dykem® Cross-Check Torque Seal



AVT-5909

AVT-5910

AVT-5911

AVT-5913

AVT-5914



*Handy
1 oz
Tube*

- Provides a convenient visual method for identification of vibratory loosening or tampering in nuts, bolts, fasteners, and assemblies.
- Highly visible under ambient light and fluorescent under UV light.
- Excellent adhesion to metal and other substrates.
- Meets BOEING specification, BMS8-45 Type II.

Part Number	Color
AVT-5909	Orange
AVT-5910	Red
AVT-5911	Yellow
AVT-5913	Blue
AVT-5914	White

Dykem® Brite-Mark Paint Markers

AVT-5915

AVT-5922

AVT-5918

AVT-5919



- Non-xylene based formula makes bright, permanent marks on metal, rubber, plastic, glass, vinyl, etc..
- Heavy-duty aluminum body with valve actuated mechanism that stops paint from drying in the barrel when cap is off.
- The quick drying, indoor/outdoor paint resists fading and chipping.

Part Number	Color	Part Number	Color
AVT-5915	Blue	AVT-5916	Orange
AVT-5917	Black	AVT-5918	Red
AVT-5920	White	AVT-5919	Green
AVT-5922	Yellow		

AIR HOSE & ACCESSORIES

Flexeel® Reinforced Polyurethane Straight Hose



- An excellent alternative to bulkier rubber & plastic hoses.
- Lightweight & tough, retains flexibility even in cold environments.
- Reinforced construction & reusable strain relief fitting.

Temperature Range: -40°F to +165°F. Working Pressure: 200 PSI (@70°F).

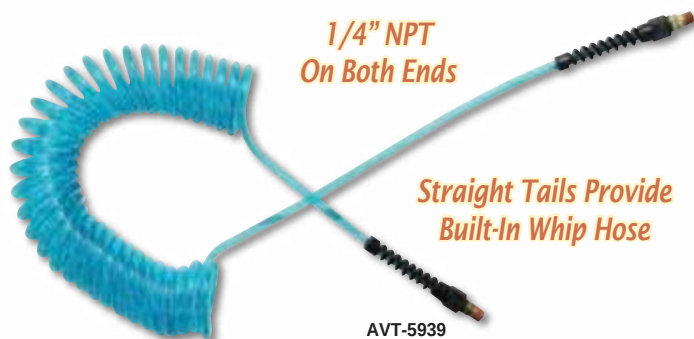
1/4" MPT Fitting, 1/4" I.D.	
Part Number	Length
AVT-5925	25' (7.6 m)
AVT-5927	50' (15.3 m)
AVT-5929	100' (30.5 m)

3/8" MPT Fitting, 3/8" I.D.	
Part Number	Length
AVT-5926	25' (7.6 m)
AVT-5928	50' (15.3 m)
AVT-5930	100' (30.5 m)

1/2" MPT Fitting, 1/2" I.D.	
Part Number	Length
AVT-5932	25' (7.6 m)
AVT-5933	50' (15.3 m)
AVT-5934	100' (30.5 m)

Note: 1/4" & 3/8" I.D. hose available in transparent blue, red or yellow (please specify when ordering). 1/2" I.D. hose available only in transparent blue.

Flexcoil® Polyurethane Self Storing Air Hose



- Toughest recoil hose available - highly kink & abrasion resistant.
- Resistant to most oils & fuels.
- Lightweight yet extremely durable with outstanding coil memory.

Part Number	Overall Length	I.D.	O.D.
AVT-5939	15' (4.6 m)	1/4"	3/8"
AVT-5940	25' (7.6 m)	1/4"	3/8"
AVT-5943	15' (4.6 m)	3/8"	9/16"
AVT-5946	25' (7.6 m)	3/8"	9/16"

Ultra Light Air Hose



- Approximately 1/3 to 1/2 the weight of ordinary air hose.
- Does not lose air flow characteristics because of lighter weight.
- Extremely flexible, less fatigue with continuous use.

Standard Hose - 200 PSI Max. Work Pressure			
Part Number	Overall Length	I.D.	O.D.
AVT-5923	25' (7.6 m)	1/4"	.472"
AVT-5924	50' (15.2 m)	1/4"	.472"

Leader Hose - 200 PSI Max. Work Pressure			
Part Number	Overall Length	I.D.	O.D.
AVT-5931	6' (1.8 m)	1/4"	.475"

General Purpose Safety Hose

- Flexible & abrasion resistant with non-marking cover.
- Complies with RMA Class B designation for medium oil resistance.

Safety Hose - 250 PSI Max. Work Pressure			
Part Number	Overall Length	I.D.	O.D.
AVT-5935	25' (7.6 m)	1/4"	1/2"
AVT-5936	50' (15.2 m)	1/4"	1/2"
AVT-5937	25' (7.6 m)	3/8"	5/8"
AVT-5938	50' (15.2 m)	3/8"	5/8"

Flexeel® Reinforced Polyurethane Leader Hose



- Helps eliminate stress and wear points from bending & pulling.
- Easier & wider range of motion with shock absorbing action.
- Lightweight & tough, retains flexibility even in cold environments.

Temperature Range: -40°F to +165°F. Working Pressure: 200 PSI (@70°F).

1/4" NPT Fitting, 1/4" I.D.		1/4" NPT Fitting, 3/8" I.D.	
Part Number	Length	Part Number	Length
AVT-5941	12" (30 cm)	AVT-5942	12" (30 cm)
AVT-5944	18" (46 cm)	AVT-5945	18" (46 cm)
AVT-5947	24" (61 cm)	AVT-5948	24" (61 cm)

Dynabrade® Dynaswivel Air Line Connectors



- Patented universal joint swivels 360° at two pivot points.
- Allows air line to drop to the floor & provides superb tool handling.

Aluminum Construction			
Part No.	Thread Size	Air Flow Range	Weight
AVT-5950	1/4" NPT	0 to 25 CFM	0.20 lbs (0.09 kgs)
AVT-5952	3/8" NPT	26 to 45 CFM	0.40 lbs (0.18 kgs)
AVT-5953	1/2" NPT	46 to 65 CFM	0.80 lbs (0.36 kgs)

Aluminum Construction With Flow Control			
Part No.	Thread Size	Air Flow Range	Weight
AVT-5955	1/4" NPT	0 to 25 CFM	0.25 lbs (0.11 kgs)

No-Mar Composite Construction			
Part No.	Thread Size	Air Flow Range	Weight
AVT-5956	1/4" NPT	0 to 33 CFM	0.15 lbs (0.06 kgs)

Ball Swivel Connectors

- Combines the features of ball swivel fittings & connectors.
- No additional fitting needed.
- Nickel plated hardened steel connector & nut, all brass fitting.



Part Number	Interchange	Thread Size
AVT-5958	Industrial	1/4" NPT
AVT-5960	ARO	

ARO Type 14 Air Hose Quick Connects



Plug, Female Thread	
Part Number	Type
AVT-5961	Plug 1/4" NPT

Plug, Male Thread	
Part Number	Type
AVT-5962	Plug 1/8" NPT
AVT-5963	Plug 1/4" NPT



Female Thread	
Part Number	Type
AVT-5964	Auto 1/4" NPT
AVT-5969	Auto 3/8" NPT

Male Thread	
Part Number	Type
AVT-5965	Auto 1/4" NPT
AVT-5970	Auto 3/8" NPT

Note: 100 PSIG inlet, 25 SCFM pressure drop @5 PSIG, 34 SCFM pressure drop @10 PSIG.

Multiple Connection Manifolds



AVT-5949



AVT-1888

Solid Brass Flat Hex		
Part Number	Type	Weight
AVT-5949	3 Port, 1/4" Inlet	0.3 lb. (0.1 kgs)
AVT-5951	3 Port, 3/8" Inlet	0.3 lb. (0.1 kgs)

Solid Aluminum Tri-Pod		
Part Number	Type	Weight
AVT-1888	3 Port, 1/4" Inlet	0.3 lb. (0.1 kgs)
AVT-5954	3 Port, 3/8" Inlet	0.3 lb. (0.1 kgs)

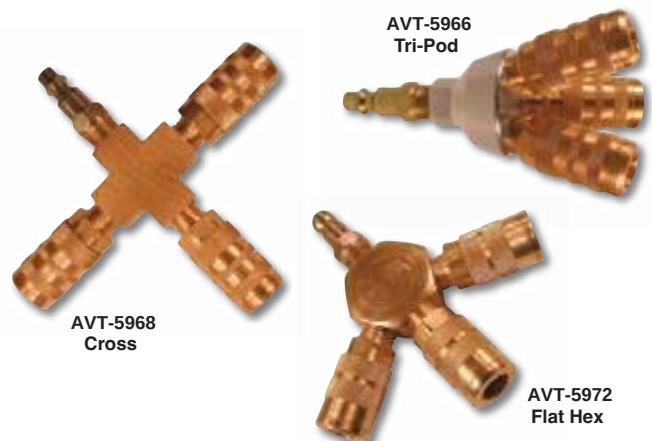


AVT-5959

*All Models Have
1/4" NPT Outlets*

Anodized Aluminum Straight		
Part Number	Type	Weight
AVT-5957	4 Port, 1/4" Inlet	0.5 lb. (0.2 kgs)
AVT-5959	6 Port, 1/4" Inlet	0.7 lb. (0.3 kgs)

Multiple Connection Manifold Assemblies



AVT-5968
Cross

AVT-5972
Flat Hex

Includes 1/4" air line connector & three 1/4" six ball couplers.

Assemblies			
Tri-Pod	Flat Hex	Cross	Coupler
AVT-5966	AVT-5967	AVT-5968	ARO Interchange
AVT-5971	AVT-5972	AVT-5973	Industrial Interchange

AIR HOSE & ACCESSORIES

Swivel Manifold



- Ports rotate 360° for flexible multi-directional connections.
- Chrome plated brass for superior corrosion resistance.
- 1/4" MPT supply & output (accepts 1/4" quick-disconnects).

Part Number	Style
AVT-5974	Three Port

Conical Mufflers

- Offers an economical method of reducing noise levels below 90 dBA, conforming with OSHA standards.
- Nickel plated body, 40 micron sintered bronze element.
- Easy to install - threads into your air tool exhaust port.



Part Number	Size	Hex	Overall Length
AVT-5980	1/8"	7/16"	29/32" (23 mm)
AVT-5981	1/4"	9/16"	1-1/4" (32 mm)
AVT-5982	3/8"	11/16"	1-9/16" (40 mm)
AVT-5983	1/2"	7/8"	1-3/16" (30 mm)

Speed Control Mufflers

AVT-5986



Compact

- Governs air flow accurately while reducing exhaust noise.
- Brass body with knurled knob & sintered bronze element.
- Lock nut prevents adjustment changes due to vibration.

Part Number	Size	Part Number	Size
AVT-5984	1/8" MPT	AVT-5985	3/8" MPT
AVT-5986	1/4" MPT	AVT-5987	1/2" MPT

Air Tool Cleaner

Keep Tools Running At Maximum Efficiency

- Removes varnish, sludge, rust & dirt.
- Will not harm internal seals.
- Prevents harmful build-up when used regularly.

Part Number	Size
AVT-5991	4 oz (113 g)



Filter - Regulator - Lubricator Assemblies

Traditional Trio Design



- Standard assemblies have zinc die cast bodies.
- Gauge provided uninstalled for installation on either side.

Standard Assemblies		Mini Assemblies	
Part Number	Pipe Size	Part Number	Pipe Size
AVT-5975	1/4"	AVT-5976	1/8"
AVT-5978	3/8"	AVT-5977	1/4"
AVT-5979	1/2"		

Air Tool Lubricant

AVT-5992



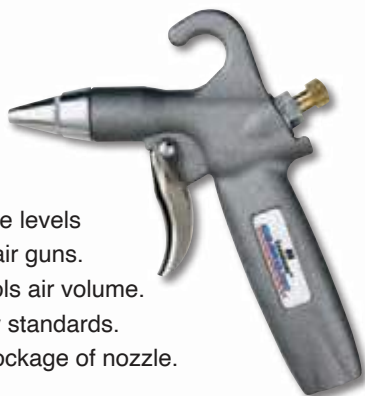
AVT-5988

- Specially formulated high grade 10 weight lubricant.
- Adheres to motor parts, giving better and longer lubrication.
- Prevents rust and removes moisture for longer tool life.

Part Number	Size
AVT-5988	4 oz (113 g)
AVT-5989	1 pint (0.4 liters)
AVT-5990	1 quart (1.9 liters)
AVT-5992	1 gallon (3.8 liters)

Guardair® Whisper Jet Safety Air Gun

Durable Cast Aluminum Body

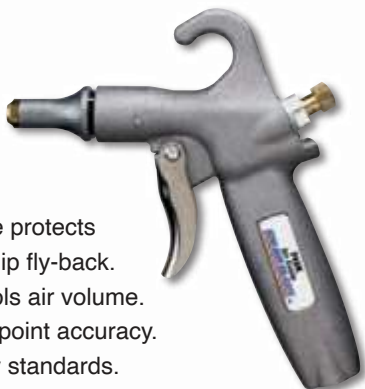


- Unique nozzle reduces noise levels 6-20 dB from conventional air guns.
- Knurled adjusting nut controls air volume.
- Meets OSHA noise & safety standards.
- Solid tip design prevents blockage of nozzle.

Part Number	Air Inlet	Thrust @100PSI	Air Usage	Weight
AVT-5994	1/4" NPT	1.1 lbs	20 CFM	0.7 lbs (0.32 kgs)

Guardair® Jet Guard Safety Air Gun

Durable Cast Aluminum Body



- Patented protective air cone protects operator from dangerous chip fly-back.
- Knurled adjusting nut controls air volume.
- Delivers high thrust with pinpoint accuracy.
- Meets OSHA noise & safety standards.

Part Number	Air Inlet	Thrust @100PSI	Air Usage	Weight
AVT-5996	1/4" NPT	0.4 lbs	35 CFM	0.7 lbs (0.32 kgs)

Guardair® Syphon Spray Air Gun

Durable Cast Aluminum Body



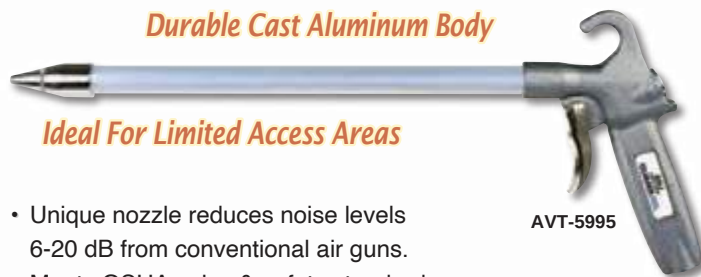
- High vacuum syphon delivers up to sixteen gallons per hour.
- 12" extension great for limited access areas.
- Includes six foot syphon hose with sinker.
- Adjustable trigger & nozzle tip to control volume & spray pattern.
- Spray oils, solvents, cleaners, mold release agents & coatings.

Part Number	Air Inlet	Flow Rate @100PSI	Air Usage	Weight
AVT-5998	1/4" NPT	16 gph	9 CFM	1.1 lbs (0.5 kgs)

Guardair® Whisper Jet Extended Safety Air Guns

Durable Cast Aluminum Body

Ideal For Limited Access Areas



AVT-5995

- Unique nozzle reduces noise levels 6-20 dB from conventional air guns.
- Meets OSHA noise & safety standards.
- Solid tip design prevents blockage of nozzle.
- Other lengths up to 72" also available, please inquire.

Part Number	Extension Length	Air Inlet	Thrust @100PSI	Air Usage	Weight
AVT-5993	6"	1/4" NPT	1.5 lbs	29 CFM	0.7 lbs (0.32 kgs)
AVT-5995	12"				0.8 lbs (0.36 kgs)

Long Reach Angled Blow Gun

Insulated Handle

No-Mar Nozzle Cap



NEW

High Impact, Lightweight Plastic

- Long 4-1/2" angled nozzle gets into limited access areas.
- Ergonomically designed for better comfort and control.
- High impact plastic body includes hanging loop.

Part Number	Air Inlet	Maximum Pressure	Air Usage
AVT-5997	1/4" NPT	125 PSI	9.8 CFM

Coilhose® Safety Blow Gun

Ergonomic Design

OSHA Compliant



- Tough zinc die cast body, replaceable tip & vinyl thumb grip.
- Four self-lubricating O-Rings prevent valve leakage.
- Large operating lever reduces operator fatigue & discomfort.

Part Number	Air Inlet	Maximum Pressure	Air Usage	Weight
AVT-5999	1/4" NPT	150 PSI	11 CFM	0.36 lbs (0.16 kgs)

APPLICATION TOOLS & ACCESSORIES

Air Operated Sealant Guns



- Smooth, uniform flow applied exactly where you want it.
- Zinc plated, corrosion resistant retainer prevents cartridge split.

Note: Hose assembly ordered separately on next page.

Pistol Grip (250-A)	Palm Grip (250-B)	Included Retainer
AVT-6000	AVT-6001	2.5 Ounce
AVT-6002	AVT-6003	6 Ounce
AVT-6004	AVT-6005	12 Ounce
AVT-6006	—	No Retainer

Air Operated Sealant Gun Retainers

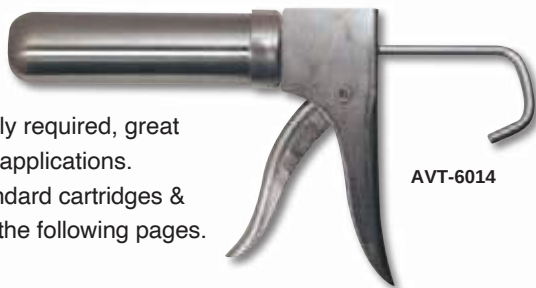
Corrosion resistant zinc plated retainers prevent cartridge split.

AVT-6011



2.5 Ounce	6 Ounce	12 Ounce
AVT-6010	AVT-6011	AVT-6012

Manual Operated Sealant Guns



- No air supply required, great for 'in-field' applications.
- Utilizes standard cartridges & nozzles on the following pages.

Part Number	Cartridge Capacity
AVT-6013	2.5 Ounce
AVT-6014	6 Ounce
AVT-6015	12 Ounce

Replacement Retainers

2.5 Ounce	6 Ounce	12 Ounce
AVT-6016	AVT-6017	AVT-6018

Air Operated Sealant Gun Kits



AVT-6008

Includes:

Pistol Grip Sealant Gun, 5 Cartridges With Plungers, Cartridge Caps (5 each: AVT-6056 & AVT-6047), Assorted Nozzles (5 each: AVT-6059, 72-C08608, AVT-6058 & 72-C04136), Air Hose & Plastic Carrying Case

Part Number	Description
AVT-6007	2.5 Ounce Capacity Kit
AVT-6008	6 Ounce Capacity Kit
AVT-6009	12 Ounce Capacity Kit

Battery Powered Sealant Gun Kit



AVT-6019

*Lightweight,
Ergonomic Design*

*Powered &
Portable*

NEW

- Smooth, uniform flow applied exactly where you want it.
- Fully charged battery can dispense 50-60 six ounce cartridges.
- For use with wiper plunger cartridges.
- Charger base completely charges battery in just one hour.
- Variable dispensing speed control on rear of gun.

Includes:

Cordless Sealant Gun, Two 12V Lithium-Ion Batteries, Two Threaded Plastic Retainers (2.5 & 6 ounce), Charger Base & Charging Cord

NOTE: Charger cord comes std. with US plug (UK, EU, AU also avail., please inq.).

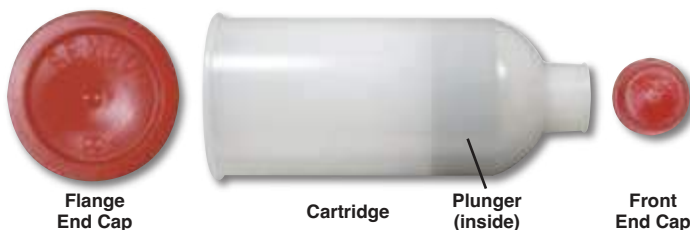
Part Number	Description
AVT-6019	Complete 7PC Kit

Air Hose Assemblies



Aro Connect	Hansen Connect	Schrader Connect	Overall Length
AVT-6023	AVT-6024	AVT-6025	5' (1.5 m)
AVT-6027	AVT-6028	AVT-6029	10' (3.0 m)
AVT-6031	AVT-6032	AVT-6033	15' (4.6 m)
AVT-6035	AVT-6036	AVT-6037	20' (6.1 m)
AVT-6038	AVT-6039	AVT-6040	25' (7.6 m)
AVT-6041	AVT-6042	AVT-6043	30' (9.1 m)

Disposable Plastic Cartridges, Plungers & Caps



- For use with air or manual operated dispensing devices.
- Made of low density polyethylene construction (also available in high-density polyethylene, please inquire).

Cartridge Only	Cartridge & Plunger	Capacity
AVT-6044	AVT-6045	2.5 Ounce
AVT-6046	AVT-6047	6 Ounce
AVT-6048	AVT-6049	12 Ounce

Part Number	Description
AVT-6052	Plastic Plunger
AVT-6054	Front End Cap (threads into neck)
AVT-6056	Flange End Cap (stops plunger backout)

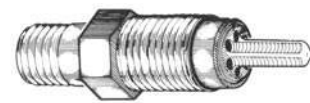
High-Pressure Injection Gun



Designed for post assembly injection of sealants of the MIL-S-8802 Class B viscosity range into confirmed areas & voids, as in channel sealing & areas requiring material to be injected into small orifices under pressure. Threaded gun cap accepts 1/8" pipe thread needle nozzle or zerk connector.

Part Number	Description
AVT-6020	High-Pressure Injection Gun

Semco® Spring Loaded Rivet Nozzles

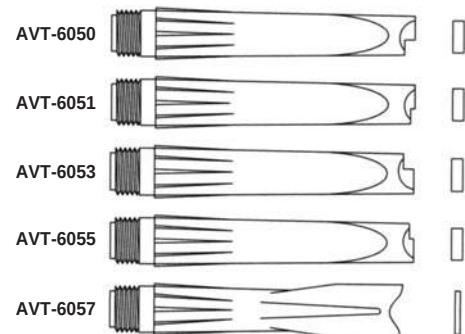


- Apply required amount of sealant to countersink & rivet holes.
- Spring-loaded tip allows a precisely dispensed shot of sealant.

Part Number	Hole Size	Color Code	Orifices*
AVT-6021	3/32"	Green	(6) .030"
AVT-6022	1/8"	Blue	(6) .031"
AVT-6026	5/32"	Black	(6) .035"
AVT-6030	3/16"	White	(6) .060"
AVT-6034	1/4"	Red	(6) .044"

*Six dispensing holes for even distribution of sealant.

Fillet Nozzles



- For application of sealant fillets over lap joints.
- Can eliminate the need for working of sealant with spatulas.
- Built-in step guides nozzle along lap joint.

3-3/4" Overall Length	
Part Number	Step
AVT-6050	.12" Right
AVT-6051	.06" Right
AVT-6053	.12" Left
AVT-6055	.06" Left
AVT-6057	No Step

Specialty Application Nozzles

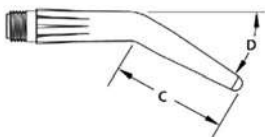
Precision
Molded

1/4"
NPT

Bent Nozzles: Most styles can be furnished with a bend. To order, use the part number of the nozzle style required, then add the desired angle of bend (D) and the length of bend from the tip (C).

Example: To order an 8" long, 1/8" orifice nozzle with a 20° bend 2" from the tip, use part number AVT-6064-20-2

Note: For ordering help & pricing on bent nozzles, please inquire.



Note: Semco reference #252-220538.

Part Number	Orifice	Overall Length
AVT-6061	1/16"	2-1/2" (64 mm)



Note: Semco reference #254-220540.

Part Number	Orifice	Overall Length
AVT-6063	1/8"	2-1/2" (64 mm)



Note: Semco reference #410-220542.

Part Number	Orifice	Overall Length
AVT-6065	1/32"	4" (102 mm)



Note: Semco reference #415-227613.

Part Number	Orifice	Overall Length
AVT-6067	No Orifice	4" (102 mm)



Note: Semco reference #420-220544.

Part Number	Orifice	Overall Length
AVT-6069	1/16"	4" (102 mm)



Note: Semco reference #430-220548.

Part Number	Orifice	Overall Length
AVT-6071	3/32"	4" (102 mm)



Note: Semco reference #440-220550.

Part Number	Orifice	Overall Length
AVT-6073	1/8"	4" (102 mm)

Specialty Application Nozzles (cont'd)



Note: Semco reference #620-220553.

Part Number	Orifice	Overall Length
AVT-6058	1/16"	6" (152 mm)



Note: Semco reference #640-220555.

Part Number	Orifice	Overall Length
AVT-6059	1/8"	6" (152 mm)



Note: Semco reference #650-224494.

Part Number	Orifice	Overall Length
AVT-6060	3/8"	6" (152 mm)



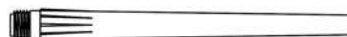
Note: Semco reference #820-220557.

Part Number	Orifice	Overall Length
AVT-6062	1/16"	8" (203 mm)



Note: Semco reference #840-220559.

Part Number	Orifice	Overall Length
AVT-6064	1/8"	8" (203 mm)



Note: Semco reference #8690-220606.

Part Number	Orifice	Overall Length
AVT-6066	3/32" Vent Duck	9" (229 mm)



Note: Semco reference #1002-2205617.

Part Number	Orifice	Overall Length
AVT-6068	1/16"	10" (254 mm)



Note: Semco reference #1004-220563.

Part Number	Orifice	Overall Length
AVT-6070	1/8"	10" (254 mm)



Note: Semco reference #1010-220565.

Part Number	Orifice	Overall Length
AVT-6072	5/16"	10" (254 mm)



Note: Semco reference #8607-220568.

Part Number	Orifice	Overall Length
AVT-6074	1/16" x 1/4"	6" (152 mm)

Specialty Application Nozzles (cont'd)



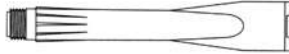
Note: Semco reference #220569.

Part Number	Orifice	Overall Length
AVT-6075	11/64" Cup	4" (102 mm)



Note: Semco reference #220570.

Part Number	Orifice	Overall Length
AVT-6077	3/64" x 9/64"	4-1/2" (114 mm)



Note: Semco reference #220572.

Part Number	Orifice	Overall Length
AVT-6079	3/64" x 3/8"	5" (127 mm)



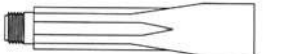
Note: Semco reference #8613-220572.

Part Number	Orifice	Overall Length
AVT-6081	1/16" x 1/2"	4" (102 mm)



Note: Semco reference #220585.

Part Number	Orifice	Overall Length
AVT-6083	3/16"	4" (102 mm)



Note: Semco reference #8643-220586.

Part Number	Orifice	Overall Length
AVT-6084	1/8" x 3/4"	4-1/2" (114 mm)



Note: Semco reference #220587.

Part Number	Orifice	Overall Length
AVT-6085	1/8" x 1"	4-3/8" (111 mm)



Note: Semco reference #220588.

Part Number	Orifice	Overall Length
AVT-6090	1/16"	3-15/16" (100 mm)



Note: Semco reference #220589.

Part Number	Orifice	Overall Length
AVT-6091	1/8"	5-3/16" (132 mm)



Nozzle Extension

Note: Semco reference #220552.

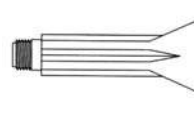
Part Number	Orifice	Overall Length
AVT-6092	Male To Female 1/4" NPT	6-3/8" (162 mm)

Specialty Application Nozzles (cont'd)



Floorboard Nozzle

Part Number	Orifice	Overall Length
AVT-6076	(12) 1/32" Diameter	1-3/8" (35 mm)

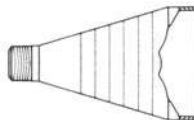


Part Number	Orifice	Overall Length
AVT-6078	1-3/4"	4" (102 mm)



Funnel Nozzle

Part Number	Orifice	Overall Length
AVT-6080	7/8"	1-3/8" (35 mm)



Funnel Nozzle

Part Number	Orifice	Overall Length
AVT-6082	1-27/32"	3-1/8" (79 mm)

Roller Nozzles

Faster & More Efficient Than Standard Nozzles

- Apply sealant evenly over a wide area of substrate.
- Ideal for the application of faying surface sealants.
- Chemically resistant threaded roller holder (1/4" male NPT) can be solvent cleaned for re-use.
- Use with our disposable cartridges (see page 213).



Roller Assembly	Replacement Roller	Roller Width
AVT-6086	AVT-6087	1" (25 mm)
AVT-6088	AVT-6089	2" (51 mm)

Sealant Mixer

Securely chucks into your drill for mixing Semkit sealant tubes.



Quick & Easy

Part Number	Shank
AVT-6093	1/4" Hex

APPLICATION TOOLS & ACCESSORIES

Sealant Spatulas

Reinforced Plastic Construction

AVT-6094

AVT-6095

AVT-6097

7-1/4" Overall Length

Part Number	End Widths
AVT-6094	0.19" & 0.38" (4.82 & 9.65 mm)
AVT-6095	0.13" & 0.28" (3.30 & 7.11 mm)
AVT-6097	0.48" & 0.38" (12.19 & 9.65 mm)

Sealant Spatula Set	
Part Number	Description
AVT-6099	All Three Spatulas With Plastic Case

Stainless Steel Sealant Spatula Set



Surgical Stainless Steel Construction

- Four double-end tools with different angles & knife shapes.
- Great for shaping & spreading sealant & other soft materials.

Part Number	Description
AVT-6101	Complete 4 PC Set

Sealant Smoothing Tool

Fiberglass Reinforced Plastic Construction



For Tooling & Smoothing Sealants

Part Number	Overall Length
AVT-6102	9-1/2" (241 mm)

Solid Brass Sealant Smoothing Tool

Non-Sparking Solid Brass Construction



Perfect For Aerospace Work

Part Number	Overall Length
AVT-6104	9" (229 mm)

Sealant Spreaders

Reinforced Plastic Construction



AVT-6096



AVT-6098

Part Number	Type	Dimensions
AVT-6096	Standard	4.0" x 2.8" (102 x 71 mm)
AVT-6098	Comb	3.0" x 3.0" (76 x 76 mm)

Sealant Wipes

- Safely removes uncured or partly cured sealant by breaking the surface tension between the material and substrate.
- Made of a unique, non-woven fabric impregnated with non-toxic aqueous solution.
- Great for sealants, mastics, silicone bonding compounds etc.



Part Number	Shank
AVT-6100	150 Wipes In Resealable Tub

Nylon Sealant Tape Roller

For Applying Sealant Tape



Allows maximum pressure for a leak-proof & smooth seal.

Part Number	Roller Diameter	Roller Width
AVT-6103	1-1/4" (32 mm)	2" (51 mm)

Masking Tape Scraper

Durable Acrylic Plastic Construction



Note: May scratch new sheet metal.

Part Number	Dimensions
AVT-6105	8"L (3/16" thick) x 1" Wide

Sioux® Sealant Removal Angle Die Grinder Kit

Updated
Drill Motor



Fitted
Case

Perfect For
Limited Access Areas

- Remove aircraft sealants quickly & safely with minimal effect on paint, primer or aircraft metal.
- 800 RPM drill includes both 45° & 90° angle head assemblies.
- Eliminates the need to use chemical solvents for better worker health & safety, as well as easier cleanup.

Includes:

800 RPM Drill Motor, 45° & 90° Angle Head Assemblies, Five 96933 Cutters, Five 96935 Cutters & Fitted Carrying Case

Part Number	Description
AVT-6108	Complete 14 PC Kit

Dynabrade® Sealant Removal Angle Drill

AVT-6112

Low Profile 1/2" Angle Head



- Safe, aggressive & efficient sealant removal.
- Tool can also be used as a standard angle drill.
- Governor-controlled motor maintains speed under load.
- For use with sealant removal cutters shown below (not included).

Sealant Removal Angle Drill, 0.4 hp (0.30 kW)			
Rear Exhaust	Free RPM	Overall Length	Weight
AVT-6112	950	13" (329 mm)	2.1 lbs (0.9 kgs)

NSN: 5130-01-549-8848

Sealant Removal Cutters

- Aggressively removes sealant without damaging substrate.
- Internal cavity on 96935 for use over standard fasteners & rivets.
- Bottom & side cutting plastic blades.



Part Number	Diameter	Recommended RPM	Max RPM	Thread
AVT-6113	.40"	950	3,200	1/4"-28
AVT-6114	.83"			

Dynabrade® Sealant Removal Angle Die Grinder

Lightweight
Ergonomic
Design

Safe, Aggressive
& Efficient

1/4" & 6 MM
Collets Included



- Safe, aggressive & efficient sealant removal.
- Kevlar® phenolic vanes for longer tool life
- Tool can also be used as a standard die grinder.
- For use with sealant removal discs shown below (not included).

Sealant Removal Angle Die Grinder, 0.4 hp (0.30 kW)				
Part No.	Exhaust	RPM	Overall Length	Weight
AVT-6106	Front	12,000	6" (150 mm)	1.0 lbs (0.45 kgs)
AVT-6107	Rear	12,000	6-1/2" (164 mm)	1.0 lbs (0.45 kgs)

Sealant Removal Bristle Discs

- Abrasive, particle filled discs remove up to 1/16" of sealant.
- Bristles remove sealant without damaging underlying surface.

AVT-6110

AVT-6109



Bristle Disc Arbor & Two Caps	
Part Number	Capacity
AVT-6109	1/8" to 1/4" & 3/8" to 1/2"

Bristle Discs			
Part Number	Diameter	Recommended RPM	Max RPM
AVT-6110	2"	12,000	20,000
AVT-6111	3"	12,000	20,000

AVITORQ 'Extreme Edge' Sealant Scraper Kit

Chemical Resistant,
Long Edge Life

Scraper Kit Includes:

Four Scrapers with various profiles & Fabric Carrying Pouch



Part Number	Description
AVT-6115	Complete 5 PC Kit

APPLICATION TOOLS & ACCESSORIES

AVITORQ 'Extreme Edge' Sealant Scrapers

Chemical Resistant, Long Edge Life



AVT-6117

- Non-metallic construction perfect for aerospace work.
- Great for removing sealants, adhesives, stickers etc.
- Resharpenable, non-marring scrapers are strong & lightweight.

Part Number	Uses
AVT-6117	Specially designed for scraping tubes & pipes.



AVT-6118

Part Number	Uses
AVT-6118	Great for internally radiused surfaces.



AVT-6119

Part Number	Uses
AVT-6119	Perfect for removing gaskets on alum. or steel.



AVT-6120

Part Number	Uses
AVT-6120	Concentrated scraping into corners & edges.



AVT-6124

Part Number	Uses
AVT-6124	Allows angle scraping in both directions.



AVT-6128

Part Number	Uses
AVT-6128	For narrow channels, slots & detail scraping.

Many Other Profiles Available, Please Inquire



For .401 Shank 'Extreme Edge' Scrapers See Page 37

Phenolic Scraper

Resharpenable

Will Not Mar Metal



- Safely remove sealants, adhesives & stickers without marring.
- Chemically resistant, non-sparking & non-conductive.

Part Number	Size
AVT-6116	8" L x 1" W x 3/16" Thick

AVITORQ Celcon Sealant Scraper Kit

Boeing Approved To Avoid Scratching Alclad Aluminum



*Tough
Double
Angle
Tips*

*Chemical
Resistant*

AVT-6121

All scraper blades are 6" long and 3/16" thick.

Kit Includes:

Six Scrapers (2 each: 1/4" Tip, 1" Tip & 2" Tip) & Black Handle

Part Number	Description
AVT-6121	Complete 7 PC Kit

Replacement Parts

Part Number	Description
AVT-6122	Celcon Scraper Blade with 1/4" Tip
AVT-6123	Celcon Scraper Blade with 1" Tip
AVT-6125	Celcon Scraper Blade with 2" Tip
AVT-6126	Replacement Handle
AVT-6127	Phenolic Scraper Blade w/1" Tip (not included in kit)

Note: Acrylic and nylon scraper blades also available, please inquire.

Celcon Sealant Scrapers

Boeing Approved To Avoid Scratching Alclad Aluminum

AVT-6129



*Chemical
Resistant*



AVT-6130

Part Number	Size	Tip Width
AVT-6129	6"L (3/16" thick)	3/4"
AVT-6130	9"L (3/16" thick)	3/4" & 1/4"

Specialty Sealant Scrapers



AVT-6131



AVT-6132

Glass Filled Nylon Plastic Construction, Double Angle Tips For Toughness

Hardened Sealant Scrapers		
Part Number	Size	Tip Width
AVT-6131	8"L (3/16" thick)	2" & 3/4"
AVT-6132	9"L (3/16" thick)	3/4" & 1/4"



Glass Filled Nylon Plastic Construction, Double Angle Tips For Toughness

Hardened Sealant & Seat Track Scraper		
Part Number	Size	Tip Width
AVT-6133	9"L (3/16" thick)	3/4" & 1/4"



Acrylic Plastic Construction, Long Angled Edge, Single End With Rounded Handle

Soft Sealant Scraper		
Part Number	Size	Tip Width
AVT-6134	6"L (3/16" thick)	3/4"



Acrylic Plastic Construction, Long Angled Edge

Soft & Wet Sealant Scraper		
Part Number	Size	Tip Width
AVT-6135	9"L (3/16" thick)	3/4" & 1/4"



Acrylic Plastic Construction, Double Angle Tips For Toughness

Soft Sealant Scraper		
Part Number	Size	Tip Width
AVT-6139	9"L (3/16" thick)	1" & 1/4"

Note: May scratch new sheet metal. No-Mar scrapers available on previous page.

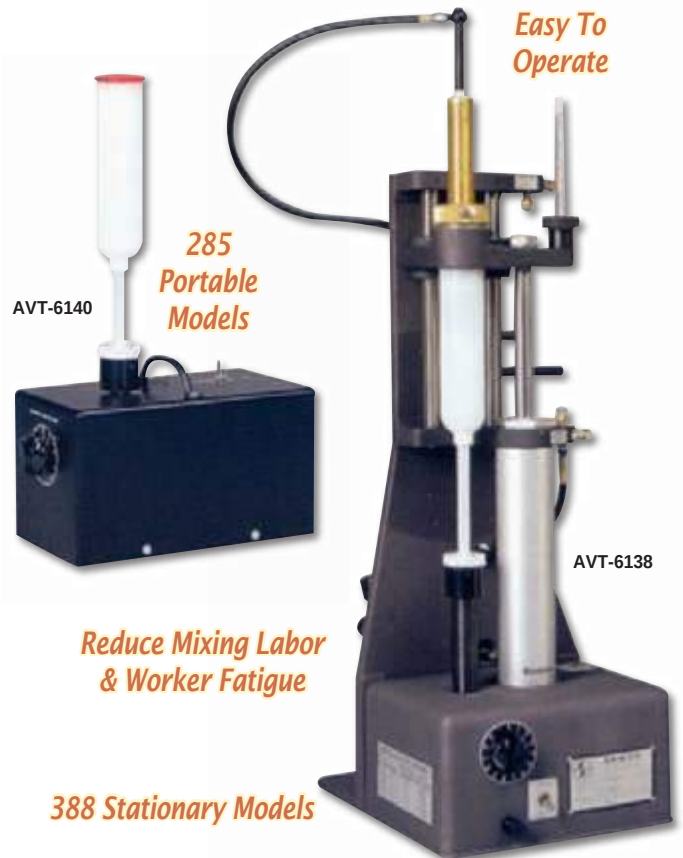
Hand Scraper



Specially blended plastic designed for sealants, paint, glues etc.

Part Number	Overall Length
AVT-6142	5-7/8" (149 mm)

Automatic Semkit Package Mixers



Model 388 Semkit package mixers are stationary, pneumatic and pneumatic-electric units that provide automatic mixing of filled Semkit packages. Use of the mixer reduces worker fatigue and assures the user a more thorough and consistent mix, kit to kit.

- Auto mixing of Semkit packages for a thorough & uniform mix.
- Timer automatically shuts off mixer at preset mix time.
- Additional unit capacities available, please inquire.

Note: Operates @ 40-90 PSI, 1.2 CFM & 115 VAC.

388 Pneumatic Semkit Auto Package Mixers			
Part Number	Type	Capacity	Weight
AVT-6136	Pneumatic / Electric 110V	2.5, 6 & 8 oz	75 lbs (34 kgs)
AVT-6137	Pneumatic / Electric 220V		
AVT-6138	Full Pneumatic		

Model 285 Semkit package mixers are portable, electric units that provide automatic mixing of filled Semkit packages. Use of the mixer reduces worker fatigue and assures the user a more thorough and consistent mix, kit to kit.

- Electric, semi-auto mixing for a thorough & uniform mix.
- User moves cartridge vertically while drive spindle rotates.
- Bell timer signals completion of mix.

285 Portable Electric Semkit Semi-Auto Package Mixers		
Part Number	Power	Weight
AVT-6140	115 VAC	14 lbs (6.3 kgs)
AVT-6141	230V / 50 Hz	
AVT-6143	Pneumatic	

APPLICATION TOOLS & ACCESSORIES

Heavy-Duty Hand Operated Grease Guns



Pistol Grip Model

- Heavy-duty construction with comfortable ergonomics.
- Variable stroke piston allows for high pressure, low volume (short stroke) or low pressure, high volume (long stroke).
- Can be bulk filled or used with standard 14 ounce cartridges.
- Includes high pressure 3-jaw coupler & 12" flexible hose.

Pistol Grip Model			
Part Number	Pressure	Capacity	Weight
AVT-6144	Up To 10,000 PSI	14 oz	3.5 lbs (1.6 kgs)

Lever Grip Model

- Heavy-duty construction with comfortable ergonomics.
- Long lever handle for high pressure, high volume greasing that can easily clear blocked or damaged grease nipples.
- Can be bulk filled or used with standard 14 ounce cartridges.
- Includes high pressure 3-jaw coupler & 6" rigid offset hose.

Lever Grip Model			
Part Number	Pressure	Capacity	Weight
AVT-6146	Up To 12,000 PSI	14 oz	3.5 lbs (1.6 kgs)

Minilube® Manual Grease Pump



- Provides high volume, low pressure and high pressure, low volume greasing in a compact and highly portable package.
- Efficient foot operated pump provides 30 shots per prime.
- Unit is fully sealed to prevent contamination.
- Comfortable & rugged one piece aluminum gun housing.
- Compatible with other, similar capacity containers.

Includes:

Minilube Pump Unit with Rubber Edged Follower Plate, Grease Gun, 3-Jaw Coupler, Grease Container, 5' Rubber Grease Hose, 360° Ball Swivel & Instruction Manual

Part Number	Grease Capacity	Volume Per Shot @ Max. Pressure	Weight
AVT-6145	5 lb (1 gal)	0.45 g @ 10,000 PSI	9 lbs (4.1 kgs)
AVT-6147	10 lb (2 gal)	1.25 g @ 5000 PSI	10 lbs (4.5 kgs)

Heavy-Duty Air Operated Grease Guns

- Heavy-duty pistol grip construction.
- Single shot air power for effortless operation.
- Can be bulk filled or used with standard 14 ounce cartridges.
- Includes high pressure 3-jaw coupler & 9" flexible hose extension.

Note: Air inlet 1/4" NPT.

Lever Grip Model			
Part Number	Pressure	Capacity	Weight
AVT-6148	Up To 6000 PSI	14 oz	4.5 lbs (2 kgs)



Superlube® Manual Grease Pump

Portable High Pressure Or High Volume Output

- Provides high volume, low pressure and high pressure, low volume greasing in a compact and highly portable package.
- Efficient hand operated pump provides 60 shots per prime.
- Comfortable & rugged one piece aluminum gun housing.
- Sliding bung adaptor for use with different height grease containers.



Includes:

Superlube Pump Unit with Rubber Edged Follower Plate, Grease Gun, 3-Jaw Coupler, 5' Rubber Grease Hose, 360° Ball Swivel & Instruction Manual

Note: Works with grease containers up to 35 lb (5 gal) - containers not included.

Part Number	Grease Capacity	Volume Per Shot @ Max. Pressure	Weight
AVT-6151	35 lb (5 gal)	0.45 g @ 10,000 PSI 1.25 g @ 5000 PSI	17 lbs (7.7 kgs)

Powerlube® Pneumatic Grease Pump

- Designed for high volume work requiring continuous high pressure grease output.
- Booster gun includes 360° Z-swivel & 3-jaw coupler.
- Efficient low air consumption motor requires no lubrication.



Includes:

Powerlube Pump Unit with Rubber Edged Follower Plate, Grease Booster Gun, 3-Jaw Coupler, 13' Rubber Grease Hose, 360° Z-Swivel, Trolley & Instruction Manual

Note: Grease containers not included. Air inlet 1/4" NPT (60-150 PSI, 3 CFM req'd).

Part Number	Grease Capacity	Maximum Pressure	Volume Output	Weight
AVT-6155	35 lb (5 gal)	10,000 PSI	16 oz/min	24 lbs (11 kgs)
AVT-6157	120 lb (15 gal)			31 lbs (14 kgs)

Grease Gun & Pump Accessories



3-Jaw High Pressure Grease Coupler

Part Number	Notes
AVT-6149	For pressures up to 12,000 PSI. 1/8" NPT (F).



Needle Nose Grease Coupler

Part Number	Notes
AVT-6150	For recessed fittings and restricted areas. Push-on.



Grease Injector Needle

Part Number	Notes
AVT-6152	For sealed bearings & U-joints. Push-on.



360° Thread Swivel Adapter

Part Number	Notes
AVT-6153	For 1/8" NPT Extensions



8" Straight Rigid Extension

Part Number	Notes
AVT-6154	Includes 3-jaw coupler. Push-on.



AVT-6156

13" Angled Rigid-Flex Extension

Part Number	Notes
AVT-6156	Slide sleeve converts from rigid to flexible. 1/8" NPT.

APPLICATION TOOLS & ACCESSORIES

Grease Pump Booster Gun



*Up To 10,000 PSI
Pressure Boost*

- For high pressure delivery with any air powered grease pump.
- Includes 3-jaw coupler & 360° Z-Swivel assembly.

Part Number	Connection
AVT-6158	1/4" NPT (F)

Z-Swivel Assembly



*For Grease Pump
Control Guns*

Part Number	End Connections
AVT-6161	1/8" NPT (M) x 1/4" NPT (F)

Grease 'Whip' Hoses



KDF-21

Flexible grease extensions ideal for working in confined spaces.

Part Number	End Connections	Overall Length
AVT-6170	1/8" BSP (M) to 1/8" BSP (M)	12" (31 cm)
AVT-6171	Push-On to 3-Jaw Coupler	13" (33 cm)
AVT-6173	1/8" BSP (M) to 1/8" BSP (M)	17" (43 cm)
AVT-6172	Push-On to 3-Jaw Coupler	21" (53 cm)

Zerk Extractors



*Easy Removal Of
Broken NPT Threads*

Part Number	Use
AVT-6175	Taps 1/4" NPT, Wrench Fits 5/16" & 3/8" Hex
AVT-6176	Taps 1/8" NPT, Wrench Fits 7/16" & 3/8" Hex

Aviation Lube Kit



- Create custom setups for almost any situation.
- Includes one of each accessory listed below, case & parts list.

Part Number	Description
AVT-6159	Complete 14 PC Kit

Replacement Accessories

Part Number	Description
AVT-6149	Standard Supergrip Coupler
AVT-6160	90° Needlepoint Coupler
AVT-6162	90° Limited Access Coupler
AVT-6163	Hypodermic Needlepoint Coupler
AVT-6164	Straight Needlepoint Coupler (4-1/4")
AVT-6165	'J' Needlepoint Coupler (12")
AVT-6166	Straight Needlepoint Coupler (12")
AVT-6167	90° Needlepoint Coupler (12")
AVT-6168	45° Needlepoint Coupler (12")
AVT-6169	90° Needlepoint Coupler (4-1/4")
AVT-6154	Rigid Extension (8")
AVT-6172	Flex Extension (21")
AVT-6174	Filler Nozzle Adapter

Suction Gun



- Heavy-duty double lipped follower.
- Positive grip handle & flexible vinyl hose.

Part Number	Capacity
AVT-6177	16 oz

Grease Fitting Assortments



AVT-6178



AVT-6182

Standard 8 PC Includes:

1/4"-28 Fittings: (4) Short Straight (2) 45° & (2) 90°

Part Number	Use
AVT-6178	Replacing damaged fittings, converting from plugs.

Metric 8 PC Includes:

6MM x 1MM Fittings: (4) Short Straight, (2) 45° & (2) 90°

Part Number	Use
AVT-6182	For domestic & foreign cars & trucks.



AVT-6187

Standard 83 PC Includes:

1/4"-28 Fittings: (18) Short Straight, (10) 45° & (10) 90°

1/8" MNPT Fittings: (25) Short Straight, (10) 45° & (10) 90°

Part Number	Use
AVT-6187	Most popular sizes with refillable plastic box.

Heavy-Duty Arbor Presses

For All Production & Assembly Operations



AVT-6179

- Precision cut steel rams & pinions for accurate operation.
- Tables and slotted table plates are flat & parallel to provide accurate support.

Part Number	Pressure	Capacity	Height	Weight
AVT-6179	0.5 ton	4-3/4" H x 6-5/8" Dia.	10-3/8" (26.4 cm)	19 lbs (8.6 kgs)
AVT-6180	1.0 ton	5-1/8" H x 8" Dia.	12" (30.5 cm)	27 lbs (12.3 kgs)
AVT-6181	2.0 ton	7-1/2" H x 10-3/4" Dia.	16-1/4" (41.3 cm)	68 lbs (30.8 kgs)

Wilton® Shop Vises

Replaceable Serrated Jaws



AVT-6184

- 360° base with double lockdown for quick & easy positioning.
- Built-in pipe jaws handle a variety of pipe sizes.
- Large anvil work surface & rubber pinch point safety guards.

Part Number	Jaw Width	Jaw Cap.	Pipe Jaw Capacity	Height	Weight
AVT-6183	4"	4"	5/8" to 2"	6.5" (165 mm)	20.3 lbs (9.2 kgs)
AVT-6184	5"	5"	5/8" to 2-3/8"	8.4" (213 mm)	28.2 lbs (12.8 kgs)
AVT-6185	6"	6"	5/8" to 2-1/2"	9.7" (246 mm)	41.9 lbs (19.0 kgs)
AVT-6186	8"	8"	3/4" to 3"	11.4" (290 mm)	65.3 lbs (29.6 kgs)

SHOP TOOLS

Portable Vise With Vacuum Base & Tilt Head

Highly Maneuverable

- Lightweight & portable - mounts on any clean, flat surface.
- Cast aluminum body with 360° swivel base & 180° tilt head.
- Steel V-grooved jaws with removable rubber jaw faces.



Part Number	Jaw Width	Jaw Capacity	Weight
AVT-6188	2-3/4"	2-1/2"	3.5 lbs (1.6 kgs)

JET® Variable Speed Vertical Bandsaws

F.O.B. FACTORY

- Designed for cutting of both ferrous & non-ferrous metals.
- Heavy-duty, completely enclosed steel frame.
- Large, multi-tilting work table.
- Variable speed two speed gearbox offers high efficiency cutting.



All Models Include:

Work Lamp, Chip Blower, Workpiece Guide, Blade & Tire Cleaning Brush, Tool Set, Bi-Metal Blade, Blade Welder, Grinder & Cutter

Model	AVT-6192	AVT-6193	AVT-6194
Motor Power	1.5 hp, 115/230V, 1Ph, 14/7 A, 60Hz, Pre-Wired 115V	2 hp, 230/460V, 3Ph, 6.2/3.1A, 60Hz, Pre-Wired 230V	2 hp, 230/460V, 3Ph, 6.2/3.1A, 60Hz, Pre-Wired 230V
Blade Speed	82 to 330 SFPM	82 to 3950 SFPM	65 to 3280 SFPM
Height Capacity	8" (20.3 cm)	10" (25.4 cm)	12" (30.5 cm)
Blade Size	1/8" to 1/2" x 114"	1/8" to 5/8" x 123-1/2"	1/8" to 1" x 150-1/2 to 156-1/2"
Table Size	20" x 20"	22" x 24"	22-1/2" x 24"
Overall Height	68-1/2" (174.0 cm)	72-1/2" (184.2 cm)	84" (213.4 cm)

Part Number	Description	Shipping Weight
AVT-6192	14" Vertical Bandsaw	685 lbs (311 kgs)
AVT-6193	16" Vertical Bandsaw	1015 lbs (460 kgs)
AVT-6194	20" Vertical Bandsaw	1310 lbs (594 kgs)

Sioux® Pneumatic Tappers



Rapid Reverse

- Comfortable pistol grip handle.
- 1/4" steel capacity (5/16" aluminum capacity).

AVT-6189

Note: Air Inlet 1/4" NPT - 3/8" (10 mm) air hose recommended.

1.0 hp (0.75 kW), 400 in.-lb Torque (45 Nm)				
Part Number	Chuck Cap.	Free RPM	O.A.L.	Weight
AVT-6189	#10-5/16"	300	7.3"	2.9 lbs
AVT-6190	1/4"-1/2"		(185 mm)	(1.3 kgs)

Tap Wrench

- Spring tension sliding handle is only 3-3/4" in overall length - perfect for hard to reach areas.
- Hardened for longer life and smoother operation.
- Stepped recess for #0 to #10.



Made In The USA

Part Number	Tap Capacity
AVT-6191	#0 to 1/4" (6.35 mm)

Tap & Hexagon Die Kit

High-Carbon Steel Taps & Hexagon Dies



Includes:

Offset Adjustable Handle Tap Wrench (0 to 1/2"), Plain Die Stock, Tap & Dies (1/4"-20, 1/4"-28, 5/16"-18, 5/16"-24, 3/8"-16, 3/8"-24, 7/16"-14, 7/16"-20, 1/2"-13 & 1/2"-20), 1/8"-27 Pipe & Plastic Storage Case

Part Number	Description
AVT-6195	Complete 24 PC Kit

Machine, Fractional & Metric Tap & Hex Die Sets

Comprehensive & Portable

AVT-6199

76 PC Set Includes:

Machine Screw Plug Tap & 5/8" Hexagon Dies (4-40 NC, 6-32 NC, 8-32 NC, 10-24 NC, 10-32 NF, 12-24 NC), Fractional Plug Tap & 1" Hexagon Dies (1/4"-20 NC, 1/4"-28 NF, 5/16"-18 NC, 5/16"-24 NF, 3/8"-16 NC, 3/8"-24 NF, 7/16"-14 NC, 7/16"-20 NF, 1/2"-13 NC, 1/2"-20 NF), Metric Plug Tap & 5/8" Hexagon Dies (3mm-0.50, 4mm-0.70, 4mm-0.75, 5mm-0.80, 5mm-0.90, 6mm-1.00), Metric Plug Tap & 1" Hexagon Dies (7mm-1.00, 8mm-1.00, 8mm-1.25, 9mm-1.00, 9mm-1.25, 10mm-1.25, 10mm-1.50, 11mm-1.50, 12mm-1.50, 12mm-1.75), Pipe Thread Plug Tap & 1" Hexagon Dies (1/8"-27 NPT, 1/8"-28 BSP), Threading Tools: Adjustable Die Stock (1" Dies), Plain Die Stock (5/8" Hexagon Dies), Adj. Handle Tap Wrench (#0 to 1/2"), Two-in-One Tap Wrench (1/4" to 1/2"), T-Handle Wrench (#0 to 1/4"), Thread Pitch Gauges (16 Leaf Metric & 18 Leaf Standard), Fitted Carrying Case

Part Number	Description
AVT-6198	Complete 76 PC Kit

117 PC Includes:

All tools in the above kit, Drill Bits (Wire Gauge #3, 7, 9, 16, 19, 20, 21, 25, 29, 30, 36, 39, 43, Letter B, F, H, I, J, O, Q, R, S, U, Z, Fractional 5/64", 7/64", 5/32", 1/4", 19/64", 5/16", 21/64", 3/8", 25/64", 13/32", 27/64", 29/64"), Spiral Flute Screw Extractors (AVT-6208, AVT-6209, AVT-6210, AVT-6211, AVT-6212)

Part Number	Description
AVT-6199	Complete 117 PC Kit

Tap & Adjustable Round Die Kit

High-Carbon Steel Taps & Adjustable Round Dies**Includes:**

T-Handle Tap Wrench (0 to 1/4"), Adj. Handle Tap Wrench (0 to 1/2"), Adj. Die Stock, 18 Leaf Thread Pitch Gauge, Screwdriver, Tap & Dies (4-40, 6-32, 8-32, 10-24, 10-32 & 12-24), Fractional Tap & Dies (1/4"-20, 1/4"-28, 5/16"-18, 5/16"-24, 3/8"-16, 3/8"-24, 7/16"-14, 7/16"-20, 1/2"-13 & 1/2"-20), 1/8"-27 Pipe & Plastic Storage Case

Part Number	Description
AVT-6196	Complete 39 PC Kit

Tap & Drill Kit

- High carbon steel taps & high speed steel drill bits.
- Produces a strong thread that is easy to tap.
- 135° split point drill bits for fast, precise drilling.

**Includes:**

T-Handle Tap Wrench, Tap & Drills (4-40, 6-32, 8-32, 10-24, 10-32 & 1/4"-20) & Plastic Storage Case

Part Number	Description
AVT-6197	Complete 13 PC Kit

Carbide Broken Tap Remover Kit



- Tough sub-micron carbide easily cuts through hardened HSS taps of any style (straight flute, spiral flute etc.).
- Will also drill through broken bolts, drills, pins etc.
- Quickly removes broken taps with simple four step process.

Note: For use with conventional or CNC milling machines.

Part Number	Description
AVT-6200	Complete 8 PC Kit

Screw Extractors



Straight Flute

AVT-6207

- Designed for softer and thin walled materials.
- Eases extraction because it does not expand material.
- Removes both left and right hand threaded parts.

Part No.	Drill Size	Removes Bolts & Screws
AVT-6201	9/64"	3/16" - 5/16", 5 - 8 mm, #10
AVT-6202	3/16"	3/8", 10 mm
AVT-6203	15/64"	7/16", 1/8" NPT, 1/8" BSP, 10 mm
AVT-6204	5/16"	1/2" - 9/16", 1/4" NPT, 1/4" BSP, 12 - 14 mm
AVT-6206	3/8"	5/8", 3/8" NPT, 3/8" BSP, 16 mm
AVT-6207	15/32"	3/4", 1/2" NPT, 1/2" BSP, 20 mm



Spiral Flute

AVT-6213

- Designed to remove broken studs, bolts, screws and fittings.
- Aggressive left hand spiral design for extra gripping power.

Part No.	Drill Size	Removes Bolts & Screws
AVT-6208	5/64"	3/32" - 5/32", 2.5 - 4 mm, #3 - #6
AVT-6209	7/64"	5/32" - 7/32", 4 - 6 mm, #6 - #12
AVT-6210	5/32"	7/32" - 9/32", 6 - 8 mm, #12
AVT-6211	1/4"	9/32" - 3/8", 1/8" NPT, 1/8" BSP, 8 - 10 mm
AVT-6212	19/64"	3/8" - 5/8", 3/8" NPT, 3/8" BSP, 10 - 16 mm
AVT-6213	13/32"	5/8" - 7/8", 3/8" NPT, 3/8" BSP, 16 - 22 mm

Screw Extractor Sets



AVT-6219

Straight Flute Set

Extractors will not expand material removed (easier removal).

Spiral Flute Set

Extractors have an aggressive left hand spiral for extra power.

Straight Flute	Spiral Flute	Extractors Included
AVT-6216	AVT-6217	#2, 3, 4 & 5
AVT-6218	AVT-6219	#1, 2, 3, 4 & 5
AVT-6220	AVT-6221	#1, 2, 3, 4, 5 & 6

Spiral Flute Extractor & Drill Bit Set



- Aggressive left hand spiral for extra power.
- Each extractor is paired with the correct size cobalt drill bit.

Part No.	Extractors Included	Cobalt Drill Bits Included
AVT-6205	#1, 2, 3, 4 & 5	5/64", 7/64", 5/32", 1/4" & 19/64"

El Brutus® "Johnson Bar" Screw Extractor



Accessory
Compartment
In Handle

Great For Tip
Caps On Copters

Folds Up For Easy Storage

Made In
The USA

AVT-6214

- Heat-treated, plated and built for a lifetime.
- Works on Phillips, Tri-Wing and Hi-Torque screws.
- Chosen to standardize aircraft & missile maintenance DOD wide.

Note: Bits & ratchet not included.

Part Number	For Screws	Weight	Overall Length
AVT-6214	#8 to 1/4"	3.2 lbs (1.4 kgs)	17" (43.2 cm)
AVT-6215	1/4" to 3/8"	4.5 lbs (2.0 kgs)	18-3/4" (47.4 cm)

Note: 96380 NSN number: 5120-01-398-2869, 96560 NSN number: 5120-01-398-2868.

E-Z Grip Friction Drops

Easy To Use, No Waiting

- Instant traction to lock on to stripped or worn fastener heads for easy removal.
- Eliminates cutting, chiseling or drilling.
- Extends your tool life & keeps fastener heads from stripping.
- Non-toxic, contains no silicones.
- Conforms or exceeds applicable ASTM testing requirements.



Part Number	Size
AVT-6222	3 Ounce Squeeze Bottle

Drill-Out Broken Bolt Extractors



Style A



Style B

Quick & Easy

- Removes broken bolts and studs without damaging threads.
- High quality H.S.S., heat treated and precision ground.
- Suitable for removal of inch as well as metric broken studs.

Style A

Special left-handed drill bits with unique extractor collet, conveniently use with any reversible power drill.

Style B

Reversible combination tool with drill-out bit on one end and extractor on the opposite end.

Style A		Style B	
Part Number	Removes	Part Number	Removes
AVT-6225	1/4" & 6 mm	AVT-6226	#5, #6 & 3 mm
AVT-6227	5/16" & 8 mm	AVT-6228	#8 & 4 mm
AVT-6229	3/8" & 10 mm	AVT-6230	#10 & 5 mm
AVT-6231	1/2" & 12 mm	AVT-6232	1/4" & 6 mm

Extractor Kit

Includes seven extractors (#5 to 1/2" range) and fitted case.

Part Number	Description
AVT-6233	Complete 8 PC Kit

Paint Cutters & Arbors



AVT-0678



AVT-6236

- Cuts a ring into paint around the screw head.
- Reduces excess paint chip during screw removal process.
- Straight shank arbors are 1/4"-28 female thread, 3/8" body dia..

Cutters, 1/4"-28 Thd. Shank		Arbors, 1/4" Straight Shank		
Part Number	Screw Size	Part Number	Body Length	Shank Length
AVT-6236	#4	AVT-0678	2"	7/8"
AVT-6237	#6	AVT-0680	4"	7/8"
AVT-6238	#8	AVT-0683	6"	7/8"
AVT-6239	#10			
AVT-6240	1/4"			

Acid Swab Brushes

Economical & Versatile



Stiff Horsehair Fill

Part Number	Brush Width	Overall Length
AVT-6241	3/8"	6-1/32" (153 mm)
AVT-6242	1/2"	6-1/16" (154 mm)

Pencil End Wire Brushes

Ideal For Aircraft Maintenance



AVT-6223

- Small brushes designed for cleaning blind holes and small crevices.
- For use with chucked tools.



Note: For pilot bonding brushes see page 93.

1/4" Shank Diameter, .012" Wire Diameter			
Part Number	Wire Type	RPM	'T' Trim Length*
AVT-6223	Carbon Steel	4000 to 6000 (8000 max.)	3/8" (3/16" diameter)
AVT-6224	Stainless Steel (INOX)	3000 to 5000 (8000 max.)	3/8" (3/16" diameter)

*The metal shank/tube can be cut back to expose desired filament length.

Non-Marring Pry Wedges

Great For Tight Spaces



AVT-6234



AVT-6235

Specially Designed Slim Profile

- Orange polyethylene wedges are perfect for gentle prying jobs.
- Black polycarbonate wedges are designed for tough prying work.

Part Number	Description	Color
AVT-6234	3PC Polyethylene Set (flexible)	Orange
AVT-6235	3PC Polycarbonate Set (hard)	Black

Sureshot Sprayer

Air Powered Aerosol Alternative

- Refillable, rechargeable and completely portable.
- Perfect for lubricants, cleaners, solvents, penetrating oils etc. *

Made In The USA



*Not for use with flammable liquids. Not recommended for paint.

Part Number	Capacity
AVT-6243	32 oz.

Heavy-Duty Wet/Dry Vacuum Kits



- Picks up the heaviest of chips, dust, debris, liquids & sludge.
- Dual venturi model adds 63% more vacuum flow.
- Additional accessories & options available, please inquire.

Vacuum Kits Include:

Vacuum Generating Head, Cartridge Filter, Drum, Drum Dolly, 20' Vinyl Vacuum Hose, 12" Wet/Dry Metal Floor Tool with 4" Wand, 24" Long Crevice Tool & 20' Air Supply Hose (3/4")

Single Venturi Vacuum Kits					
Part Number	Drum Size	Hose Fitting	Vacuum Flow	Vacuum Lift (H2O)	Weight
AVT-6244	55 gal	2"	89 CFM	185 CFM	100 lbs (45 kgs)
AVT-6245	30 gal	1-1/2"	60 CFM	213 CFM	96 lbs (44 kgs)

Note: 1/2" air inlet. Minimum compressor required: 551BC - 15 HP, 551DC - 10HP.

Dual Venturi Vacuum Kit					
Part Number	Drum Size	Hose Fitting	Vacuum Flow	Vacuum Lift (H2O)	Weight
AVT-6247	55 gal	2"	163 CFM	163 CFM	108 lbs (49 kgs)

Note: 3/4" air inlet, Minimum compressor required - 24 HP.

Compact Heavy-Duty Wet/Dry Vacuum Kits



- Picks up the heaviest of chips, dust, debris, liquids & sludge.
- Additional accessories & options available, please inquire.

Compact Vacuum Kits Include:

Canister Drum with Carry Handle, Single Venturi Vacuum Generating Head, Exhaust silencer, Standard Cartridge Filter, Air Shutoff Valve with 3/8" Industrial Interchange Connector, 12' Air Hose with Fittings, 10' Vinyl Vacuum Hose, 9-1/2" Plastic Curved Tool Coupler, 20" Plastic Extension Wand, 3" Plastic Round Brush Tool, 9" Plastic Crevice Tool & 5" Plastic Utility Tool with Brush

Single Venturi Compact Vacuum Kits					
Part Number	Drum Size	Hose Fitting	Vacuum Flow	Vacuum Lift (H2O)	Weight
AVT-6246	5 gal	1-1/4"	56 CFM	100 CFM	20 lbs (9 kgs)
AVT-6248	10 gal	1-1/4"	56 CFM	100 CFM	38 lbs (17 kgs)

Note: 3/8" air inlet. Minimum compressor required - 4.4 HP.

Heavy-Duty Wet/Dry Vacuum Head Kits



Vacuum Head Kits Include:

Vacuum Generating Head, Cartridge Filter, Air Shut-Off Valve with Connector, 20' Vinyl Vacuum Hose, 12" Wet/Dry Metal Floor Tool with 4" Wand & 24" Long Crevice Tool

*Minimum 19 gauge drum required.

Single Venturi Vacuum Head Kits					
Part Number	Drum Size	Hose Fitting	Vacuum Flow	Vacuum Lift (H2O)	Weight
AVT-6249	55 gal	2"	89 CFM	185 CFM	42 lbs (19 kgs)
AVT-6250	55 gal	1-1/2"	60 CFM	213 CFM	38 lbs (17 kgs)
AVT-6251	30 gal	2"	89 CFM	185 CFM	38 lbs (17 kgs)
AVT-6252	30 gal	1-1/2"	60 CFM	213 CFM	33 lbs (15 kgs)

Note: 1/2" air inlet. Min. compressor req.: 551B & 301B - 15 HP, 551D & 301D - 10HP.

Dual Venturi Vacuum Head Kits					
Part Number	Drum Size	Hose Fitting	Vacuum Flow	Vacuum Lift (H2O)	Weight
AVT-6253	55 gal	2"	163 CFM	163 CFM	50 lbs (23 kgs)

Note: 3/4" air inlet. Minimum compressor required - 24 HP.

Heavy-Duty Vacuum Accessories



AVT-6254

AVT-6258



For 5 & 10 Gallon Vacuums	
Part Number	Description
AVT-6254	Standard Filter Assembly (incl. filter frame & cloth internal filter with gasket)

For 30 & 55 Gallon Vacuums	
Part Number	Description
AVT-6255	Standard Cartridge Filter (package of six)
AVT-6258	Internal Filter Bag (for maximum filter life & performance)

AVITORQ Supersonic Junior Air Vac

AVT-1813



- Locking trigger.
- Lightweight (8.5 oz) venturi design with 1" I.D.
- 18" flex hose included.
- 1/4" air inlet.

Part Number	Description
AVT-1813	Junior Air Vac with 18" Flex Hose
AVT-6267	Replacement Bag

Mini Air Vac

One Piece Aluminum Construction



AVT-6268

- Locking trigger.
- Lightweight (8.5 oz), venturi type design with 1" I.D.
- Hose included. 1/4" air inlet.

Part Number	Description
AVT-6268	Mini Air Vac with 12" Flex Hose
AVT-6269	Mini Air Vac with 12" Rigid Hose
AVT-6267	Replacement Bag

AVITORQ Supersonic Air Vac



AVT-6256

- No moving parts to burn out.
- Safe, non-electric power source.
- Lightweight (only 1 lb) & heavy-duty one piece construction.

Lightweight & Economical

Part Number	Accessories Included
AVT-6256	Round Brush, Slim Crevice Tool & 5" Wide Nozzle
AVT-6257	18" Flex Hose Extension
AVT-6259	Round Brush, Crevice Tool & 18" Rigid Ext. Wand

AVT-6260

AVT-6261



AVT-6263

Air Vac Accessories	
Part Number	Description
AVT-6260	Round Brush
AVT-6261	Crevice Tool
AVT-6262	5" Wide Nozzle
AVT-6263	18" Rigid Extension Wand
AVT-6264	18" Flex Hose Extension
AVT-6265	Replacement Bag
AVT-6266	Fully On Air Flow Plug*

*Useful where on-off control is done with a remote.

AVITORQ Decimal Conversion Charts

Quick & Convenient

Handy reference charts showing the decimal conversion of fractional, wire gauge, metric & letter sizes (0.1 mm to 1"). Poster also includes useful tap and drill conversion charts.

AVT-6270

Part No.	Type	Size
AVT-6270	Pocket Card	3-1/8" x 5"
AVT-6271	Poster	22" x 32"



Hearing Protection



AVT-6272

Ear Plugs

- One size fits all soft silicone rubber effectively seals the ear.
- Can be boiled or sterilized for proper cleaning.

Part Number	Includes
AVT-6272	Ear Plugs & Carrying Case



AVT-6274

Ear Covers

- Rugged & comfortable, with swivel earcup construction.
- Universal fit, contoured earcups for use with safety hats, etc.

Part Number	Weight
AVT-6274	8 oz (227 g)

Light Duty Spark Guard Face Shield



*Lightweight,
Comfortable
& Adjustable*

*Cushioned
Sweatband*

- Spark guard is positively stopped in working position.
- Room allowance for safety or prescription glasses.

Part Number	Description
AVT-6279	Spark Guard Face Shield

Impacto® Anti-Impact Gloves

*Perfect
For
Riveting*



AVT-6273

- Impact absorbing visco-elastic polymer padding in the palm.
- Nylon back & soft pearl leather palm ensure dexterity and comfort.
- Available in sizes XS, S, M, L & XL (please specify when ordering*).

*It is best to order 1 size smaller than your normal size.

Part Number	Specifications
AVT-6273	Half Finger, Full Palm VEP, Nylon Back

Bruder Safeguard® Knee & Elbow Pads



AVT-6275

Knee Pads

- Hinged hard cover & velcro straps.

Elbow Pads

- Grain leather covered viscoelastic pad & stretch fabric over elbow.

Part Number	Type	Size
AVT-6275	Knee Pads (pair)	One Size Fits All
AVT-6276	Elbow Pads (pair)	Small
AVT-6277	Elbow Pads (pair)	Medium
AVT-6278	Elbow Pads (pair)	Large

Protective Rubber Gloves



*Rolled
Edge*

For use with acids, alkalis, salts & ketones.

Part Number	Overall Length
AVT-6280	14" (356 mm)

Safety Goggles

*Comfortable
Soft Vinyl
Body*



*Fits Over
Prescription Glasses*

- Polycarbonate lenses exceed specs for impact resistance.
- Sub-freezing to 275°F temperature range.
- Meets all optical standards for prism, power & definition.

Part Number	Description
AVT-1890	Safety Goggles

Deluxe Visitor Spectacles

High Impact Resistance



*Distortion
Free Lenses*

- Comfortable & lightweight (will fit over prescription glasses).
- Exclusive wraparound side shields & anti-glare brow guard.

Part Number	Description
AVT-6281	Visitor Spectacles

Dewalt® Detachable Tote Toolbox

Sturdy Metal Handle



*Heavy-Duty, High Impact
Polypropylene Construction*

- Convenient two-in-one storage system: a tough lower case for larger tools and detachable top tote for small parts and tooling.
- Easy, front-located push button detaches top tote from base.
- Lockable lid (lock not included) with rust resistant metal latches.

Part Number	L x W x H	Weight
AVT-1832	26-3/8" x 12-3/4" x 11-1/4"	7.4 lbs (3.4 kgs)

Stanley® Multi-Purpose Toolboxes

Lightweight & Sturdy Polypropylene Construction



AVT-1776

Updated Design



AVT-1744

- Removable tool tray with handle.
- Convenient top organizer compartments for small parts storage.
- Latch with geometric lock for smooth, easy use & padlock eyelet.

Part Number	L x W x H	Weight
AVT-1776	16" x 8" x 7-3/8"	2.1 lbs (1.0 kgs)
AVT-1744	19" x 10" x 10"	2.9 lbs (1.3 kgs)

Mechanics Canvas Tool Bags

AVT-1859



*Hard Fiber
Bottom*

- Large brass zippered main compartment.
- Heavy-duty rugged cotton web carry handles.
- Inside dividers & two outside snap accessory compartments.

Part Number	Color
AVT-1859	Black
AVT-6282	Green

Stanley® Shop Tool Chests

Durable Steel Construction

AVT-1820 (top)



AVT-1822 (bottom)

- Internal keyed locking system protects valuable tool collections.
- Full extension ball bearing drawer slides hold 85 lbs per drawer.

5-Drawer Tool Chest (top)

- Gas struts provide smooth top lid opening and closing.
- Two recessed side handles for easy movement.

Part Number	D x W x H	Weight
AVT-1820	12" x 26" x 20-1/2"	64 lbs (29 kgs)

5-Drawer Rolling Tool Chest (bottom)

- 650 lb overall capacity, 4-1/2" casters (two swivel & locking).
- Non-slip open weave top mat helps protect the cabinet surface.

Part Number	D x W x H	Weight
AVT-1822	18" x 26-1/2" x 40-1/2"	116 lbs (52.6 kgs)

Fastener Storage Cases

High Impact Polystyrene Plastic Case

AVT-6287



Keep Rivets And Other Small Parts Organized

- See-through & spring loaded compartment covers.
- Curved tray bottoms for quick and easy part removal.

Part No.	Sections	L x W x H	Part No.	Sections	L x W x H
AVT-6283	2	12-3/8" x 7-1/4" x 2"	AVT-6284	5	12-3/8" x 7-1/4" x 2"
AVT-6285	3		AVT-6286	6	
AVT-6288	4	6-3/8" x 7-1/4" x 2"	AVT-6287	8	

Air Scribe Kit



AVT-6290

Write On Material Up To 64R Hardness



AVT-6289

Lightweight & Easy To Operate

Writes Like A Ballpoint Pen

- Simple piston supplied power for trouble free use.
- Change of stylus converts tool to scaler or hammer.
- Graduated sleeve throttle permits accurate power selection.

Complete Kit Includes:

Air Scribe, Anvil, Flat Chisel, Chisel Blank, Round Nose Chisel, 2 Carbide Tipped Stylus, 8' Air Hose (3/16" ID), Air Filter Assembly & Carrying Case

Part Number	Description
AVT-6289	Complete 10 PC Kit
AVT-6290	Air Scribe, Stylus, Hose & Filter Ass'y Only

Replacement Parts Kit Includes:

Anvil, Flat Chisel, Chisel Blank, Rounded Nose Chisel, Carbide Tipped Stylus & Two 'O' Rings

Part Number	Description
AVT-6291	Complete 7 PC Kit
AVT-6292	Carbide Tipped Stylus Only

Fixed Two Point Machinist Scriber

Durable Hardened & Ground Points

- Knurled body with hardened & ground steel needle points.
- One straight point & one 90° point.

Part Number	Overall Length
AVT-6293	8-7/16" (214 mm)

Hand & Stamp Sets

- Suitable for use on steel, cast iron & other metals.
- Hardened & tempered tips.

Made In The USA

Number Sets (1 to 9)	Letter Sets (A to Z & Dot)	Character Size
AVT-6294	AVT-6295	1/16"
AVT-6296	AVT-6297	3/32"
AVT-6298	AVT-6299	1/8"
AVT-6300	AVT-6301	3/16"
AVT-6302	AVT-6303	1/4"
AVT-6304	AVT-6305	3/8"
AVT-6307	AVT-6308	1/2"



AVT-6296

Cordless Electric Kevlar Scissor Kit



AVT-6315

Carbide Blades

- Cuts aramid fibers, kevlar and other tough materials.
- Lightweight & maneuverable with superior ergonomic design.
- Short rapid strokes for intricate work & long lasting battery.

Includes:

Tool, Standard Blade Assembly (for straight, quick cuts), Blade Assembly with Shoe (for patterns & fabric), Rechargeable DC Battery, Battery Charger, AC Adaptor & 110V Transformer with Power Cord

Note: Not recommended for material over 1/8" thick due to short stroke.

Part Number	Description
AVT-6315	Complete 7 PC Kit

AVT-6319



AVT-6321



Replacement Blade Assemblies	
Part Number	Description
AVT-6319	Standard Blade Ass'y (for straight, quick cuts)
AVT-6321	Blade Ass'y with Shoe (for patterns & fabric)

Boelube® Lubricant



AVT-6306

- High-strength polar lubricating film reduces friction & heat generation.
- Greatly improves tool life, surface finish & hole quality.
- Superior lubricity when machining aluminum, titanium and inconel.
- Non-corrosive, non-flammable and chemically stable, with no hazardous substances.

*Perfect For All Metal
Drilling, Cutting And
Machining Operations*



AVT-6313



AVT-6310



AVT-6309



AVT-6314

Solid, Liquid Or Paste

Part Number	Size	Color	Type
AVT-6306	14.5 oz Cartridge	White	Solid
AVT-6309	1.6 oz Push Tube	White	
AVT-6310	3.5 oz Push Tube	White	
AVT-6311	2 oz Jar	Blue (medium)	Paste
AVT-6312	4 oz Jar	Blue (medium)	
AVT-6313	12 oz Jar	Blue (medium)	
AVT-6314	12 oz Jar	Pink (hard)	



AVT-6317



AVT-6318

Part Number	Size	Color	Type
AVT-6316	4 oz Bottle	Clear	Liquid
AVT-6317	1 Gallon Container	Red	
AVT-6318	5 Gallon Pail	Red	
AVT-6320	15 Gallon Drum	Red	
AVT-6322	55 Gallon Drum	Red	

A

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Abrasive tools

Carborundum, Clesco, Chicago Pneumatic, Desoutter, Dotco, Dynabrade, Grobet, Hutchins, Master Power, Merit, Nicholson, Superior Abrasives, Severance, SGS, Warrensville

Air drills & accessories

APEX, APT, ATI, Cleco, Chicago Pneumatic, Desoutter, Deutsch, Dotco, Drill America, Dynabrade, Jacobs, Jet, Jiffy, Quackenbush, Precision Twist Drill, SGS, Sioux

Application tools

3M, ACI, Legacy, Lincoln, Macnaught, Semco

Assembly tools

Allen, APEX, APT, Bessey, Carr-Lane, Cleco, Chicago Pneumatic, Desoutter, DE-STA-CO, Dotco, Gardner-Denver, Hi-Shear, Ingersoll-Rand, IRWIN, Jet, Knu-Vise, Master Power, Monogram, Pony, Sioux, Vise Grip, Wilton, Zephyr

Cable, wire & tubing

Astro Tool, ATI, General, Imperial, Loos & Company, Milbar, Master Appliance

Cutting tools

APEX, Blair Equipment, Craig, Dotco, Dynabrade, EC, Jet, Kett, Sioux

Hand tools

Allen, Armstrong, Bessey, Bondhus, Clauss, Cooper, Crescent, Garland Manufacturing, GearWrench, Klenk, IRWIN, Malco, Vise Grip, Wiss, Xcelite

Inspection & measuring

CDI, Dill, Fowler, General, K & H Inspection Lights, Lufkin, Mitutoyo, Opti Manufacturing, Pacific Scientific, Seekonk, Schrader, Starrett, Swiss Precision Instruments, Trulok, Ullman, Utica

Material removal

APEX, ATI, Chicago Pneumatic, Cogsdill, Dewalt, Dotco, EC, Jet, Kett, Noga, Royal Products, Sioux

Riveting tools

APT, ATI, Cherry Aerospace, Chicago Pneumatic, Cleco, FSI, Huck, Lobster, Marson, Old Forge, POP, SMC, Tatco, Ultralite

Sheet metal equipment

Jet, Marchant, Roper Whitney, TCE, Tennsmith

Shop tools

Coilhose, Guardair, Impacto, IRWIN, L&R Manufacturing, Nortech, Trinco, Weller, Wilton



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