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Supplying the Aerospace, Defense & Metal Working Industries Since 1951!

Minimum Order

\$100.00 List Price

Terms

Net 30 days on approved credit only.

Approved credit cards.

Prepaid via check or wire transfer.

No C.O.D. shipments.

Returns

Return authorization is required.

Merchandise must be sent freight prepaid to the facility from which it was purchased.

A 20% restocking charge is applicable.

All claims must be made within 7 days of receipt of goods.

Freight

F.O.B. shipping point.

Special Orders

All special orders may require prepayment.

Currency

All prices are in US dollars.

Overseas Customer Terms

Same as above, only prepayment via bank wire transfer (all fees for buyers account) or by bank check.

US Air Tool Company (also known as USATCO) has been a family owned and operated business since 1951. We are now a US manufacturer and worldwide distributor of high quality tools for the aviation industry with offices in New York & California. In addition, from the beginning of the homebuilder era in the 1970's, USATCO has been providing tools and equipment to craftsmen around the world who build and fly their own aircraft. These "sheet-metal artists" are now flying thousands of planes built and maintained with USATCO tools.

USATCO offers the highest quality products at competitive prices, with the knowledge and experience necessary for expert advice in product selection. Our courteous staff will be pleased to assist you. And of course, all the products we offer are fully guaranteed. If you don't see what you are looking for, please don't hesitate to contact us. We work hard to provide our customers with straightforward & reliable business. Try us & see!

USATCO.com

Don't forget to check out USATCO Online, with monthly sales, homebuilder specials, surplus items & an easy to use interface its a great place to shop for tools on the web. www.USATCO.com

Government IMPAC Cards Accepted

USATCO Tool Repair

We repair all major brand pneumatic tools on our premises. We are an official repair station for Cherry Textron®, Chicago Pneumatic®, and Cooper® Power Tools (including Dotco®, Gardener Denver®, Buckeye® and Doler®). In addition, we have our own manufacturing and modification facilities. We are riveting and product assembly specialists!

We will be happy to examine your tools free of charge and give you an estimate of repair cost. Ship prepaid to any of our facilities. Please send tensiometers to our New York Lab only.

Please ask about our tool rental policy!

Limited Warranty

If for any reason you are not completely satisfied with any item purchased from us you may request a return authorization within seven (7) days of receipt of goods. When obtained, send us the item (transportation prepaid) for replacement, repair or refund. Tools manufactured by USATCO are warrantied for one (1) year from date of purchase. We cannot assume liability for abuse, misuse or alteration of goods. Any tampering with tools or attempted repairs of same will nullify this warranty. Warranties from other manufacturers available upon request.

STATIONARY RIVETERS & DIMPLERS, USATCO CUSTOM KITS

Hot Dimpler Punch & Dies



26-1853-1/8



26-1855-1/8

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

3/8" Shank		
Punch	Die	Size
26-1855-3/32	26-1853-3/32	3/32"
26-1855-1/8	26-1853-1/8	1/8"
26-1855-5/32	26-1853-5/32	5/32"
26-1855-3/16	26-1853-3/16	3/16"
26-1855-1/4*	26-1853-1/4	1/4"

* Standard long flanged.

Pedestal Unit



*Sturdy
Angle Iron
Construction*

*Fits All CP
Type Pedestal
Riveters*

Part Number	Overall Height	Weight
37-15	27-1/2" (70 cm)	54 lbs (24.5 kgs)

USATCO Homebuilder's Basic Tool Kit



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

Part Number	Description
53-455	Complete 492 PC Kit

Tools Included

Part Number	Pcs.	Description
07-10-4703	1	Rivet Set 3-1/2" O.A.L.
07-10-4704	1	
07-10-4705	1	
07-10-500	1	Flush Rivet Set
07-1000	1	No-Mar Rivet Set
07-12-500	1	Flush Rivet Set
07-170	1	Mushroom Rivet Set
08-692	1	
08-669	1	Bucking Bar
08-638	1	
08-670	1	
09-140	1	Power Regulator
09-RB-2	1	Beehive Retainer Spring
09-RH-2	1	Handi Retainer Spring
17-3XSP	1	Rivet Gun
18-DS-21	1	
18-DS-30	1	Drill Stop
18-DS-40	1	
53-70453	3pc	Aviation Snip Set
62-54406	1	Plastic Tool Box
75-282-0	1	Aviation Maint. Handbook
JAT-600	1	3/8" Reversible Air Drill

Tools Included

Part Number	Pcs.	Description
02-305-3	1	Pilot Countersink
02-305-4	1	
02-305-5	1	
02-306-21	1	
02-306-30	1	
02-306-40	1	
02-441	1	Countersink Cage
02-R10B-3/32	2	Jobber's Length Drill
02-R10B-1/8	2	

Tools Included

Part Number	Pcs.	Description
02-R10B-5/32	2	Jobber's Length Drill
04-1120	1	Fluting Plier
04-17	1	Rivet Cutter
04-44	1	Hand Seamer
04-62	1	Cleco Plier
04-K380	1	Auto Deburr Tool
04-M-3/32	150	'M' Type Sheet Metal Fastener
04-M-1/8	150	
04-M-3/16	150	

USATCO 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
53-RGK	17-3XSP	.401
53-RGK1	17-4XSP	.401
53-RGK2	17-2XSP	.401
53-SGK*	17-7XBSP	.498
53-TGK*	17-5XBSP	.498

* Kits 53-SGK & 53-TGK come packed in sturdy plastic toolbox.



Tools Included (.401 Shank Kits)	
Part Number	Description
07-10-4703	3/32" Universal AN470 Rivet Set, 3-1/2" Overall Length
07-10-4704	1/8" Universal AN470 Rivet Set, 3-1/2" Overall Length
07-10-4705	5/32" Universal AN470 Rivet Set, 3-1/2" Overall Length
07-10-4706	3/16" Universal AN470 Rivet Set, 3-1/2" Overall Length
07-11-4703	3/32" Universal AN470 Rivet Set, 5-1/2" Overall Length
07-11-4704	1/8" Universal AN470 Rivet Set, 5-1/2" Overall Length
07-11-4705	5/32" Universal AN470 Rivet Set, 5-1/2" Overall Length
07-11-4706	3/16" Universal AN470 Rivet Set, 5-1/2" Overall Length
07-140	Offset Flush Mushroom Set, 3-1/2" Overall Length
07-170	Flush Mushroom Rivet Set with Guard, 2-1/4" Overall Length
07-20-4703	3/32" Universal AN470 Offset Rivet Set, 3-1/2" Overall Length
07-20-4704	1/8" Universal AN470 Offset Rivet Set, 3-1/2" Overall Length
07-20-4705	5/32" Universal AN470 Offset Rivet Set, 3-1/2" Overall Length
07-92	Flush Mushroom Rivet Set, 5-1/2" Overall Length
08-111	Bucking Bar (see page 42)
08-112	Bucking Bar (see page 42)
08-669	Bucking Bar (see page 43)
08-670	Bucking Bar (see page 43)
09-140	Power Regulator
09-RB-2	Beehive Retainer Spring
09-RH-2	Handi Retainer Spring
17-_____	Rivet Gun (2X, 3X or 4X, see chart above)
62-14	Molded Plastic Carrying case

Tools Included (.498 Shank Kits)	
Part Number	Description
07-30-4703	3/32" Universal AN470 Rivet Set, 3-1/2" Overall Length
07-30-4704	1/8" Universal AN470 Rivet Set, 3-1/2" Overall Length
07-30-4705	5/32" Universal AN470 Rivet Set, 3-1/2" Overall Length
07-30-4706	3/16" Universal AN470 Rivet Set, 3-1/2" Overall Length
07-31-4703	3/32" Universal AN470 Rivet Set, 5-1/2" Overall Length
07-31-4704	1/8" Universal AN470 Rivet Set, 5-1/2" Overall Length
07-31-4705	5/32" Universal AN470 Rivet Set, 5-1/2" Overall Length
07-31-4706	3/16" Universal AN470 Rivet Set, 5-1/2" Overall Length
07-160	Offset Flush Mushroom Set, 3-1/2" Overall Length
07-173	Flush Mushroom Rivet Set with Guard, 2-1/4" Overall Length
07-40-4703	3/32" Universal AN470 Offset Rivet Set, 3-1/2" Overall Length
07-40-4704	1/8" Universal AN470 Offset Rivet Set, 3-1/2" Overall Length
07-40-4705	5/32" Universal AN470 Offset Rivet Set, 3-1/2" Overall Length
07-102	Flush Mushroom Rivet Set, 5-1/2" Overall Length
08-111	Bucking Bar (see page 42)
08-112	Bucking Bar (see page 42)
08-669	Bucking Bar (see page 43)
08-670	Bucking Bar (see page 43)
09-140	Power Regulator
09-RB-4	Beehive Retainer Spring
09-RH-4	Handi Retainer Spring
17-_____	Rivet Gun (5X or 7X, see chart above)
62-54404	Plastic Tool Box

USATCO Professional Aero Sheet Metal & Riveting Tool Kit

Priced To Save You Money

- Comprehensive 367 piece kit.
- Includes 3-drawer rolling cabinet (below).



Part Number	Description
53-425	Complete 367 PC Kit

Tools Included		
Part Number	Pcs.	Description
20-128-4	1	Snake Drill Attachment
02-306-21	1	
02-306-30	1	Pilot Countersink
02-306-40	1	
02-501-6-10	2	
02-501-6-21	2	6" Aircraft Extension Drills
02-501-6-30	2	
02-501-6-40	2	
02-501-12-10	2	
02-501-12-21	2	12" Aircraft Extension Drills
02-501-12-30	2	
02-501-12-40	2	
02-A800-4	1	Rivet Shaver Cutter
02-C1-H	60pc	Drill Set
04-17	1	Rivet Cutter
04-134SR	1	Safety Wire Twister
04-20SL	1	Offset Hand Snip (left)
04-20SR	1	Offset Hand Snip (right)
04-22022	6pc	Multi-Burr & Blades
04-4P3	1	Camloc Plier
04-62	1	Cleco Plier
04-EL-1/2-1	6	Side Grip Sheet Metal Fastener
04-EL-3/4-1	6	
04-M-3/32	50	
04-M-1/8	50	'M' Type Sheet Metal Fastener
04-M-5/32	20	
04-M-3/16	20	
04-MHD-3/32	6	
04-MHD-1/8	12	
04-MHD-5/32	12	'MHD' Type Sheet Metal Fastener
04-MHD-3/16	6	

Tools Included		
Part Number	Pcs.	Description
04-44	1	Hand Seamer
07-10-4703	1	
07-10-4704	1	Rivet Set 3-1/2" O.A.L.
07-10-4705	1	
07-10-4706	1	
07-10-500	1	Flush Rivet Set (3-1/2")
07-11-4704	1	
07-11-4705	1	Rivet Set 5-1/2" O.A.L.
07-11-4706	1	
07-11-500	1	Flush Rivet Set (5-1/2")
07-170	1	Mushroom Set w/Guard
07-20-4703	1	
07-20-4704	1	Offset Rivet Set 3-1/2" O.A.L.
07-20-4705	1	
07-20-4706	1	
07-20-500	1	Offset Flush Set (3-1/2")
07-92	1	Mushroom Set (5-1/2")
08-111	1	
08-604A	1	
08-669	1	
08-670	1	Bucking Bar
09-140	1	Power Regulator
09-RB-2	1	Beehive Retainer Spring
09-RH-2	1	Handi Retainer Spring
15-1580	1	Junior Air Vac
17-3XSP	1	Rivet Gun
18-DS-10	1	
18-DS-21	1	
18-DS-30	1	Drill Stop
18-DS-40	1	
20-127-4	1	Angle Drill Attachment

Tools Included		
Part Number	Pcs.	Description
32-290	1	Flat File
32-311	1	Half Round File
32-397	1	Round File
32-261	1	Aluminum Flat File
43-025	1	
43-032	1	
43-041	1	
44-06721	1	
44-06741	1	
44-06761	1	Wire Rivet Hole Brush
44-06781	1	
46-231-1	1	
46-231-2	1	
46-231-3	1	Strap Duplicator
46-231-5	1	
53-211-4263	2pc	
53-211-4264	2pc	Rivet Squeezer
53-211-4265	2pc	Punch & Die Set
53-211-4266	2pc	
53-2962	4pc	Thd. Shank Drill Set
53-420-2A	6pc	2" Hand Riv. Squeezer Kit
53-441	5pc	Countersink Kit
53-90131	6pc	Rivet Punch Out Kit
53-FHPS	4pc	File Handle Set
62-54407	1	Metal Kit Box
62-70433	1	Metal Rolling Cabinet
75-282-0	1	Aviation Maint. Handbook
90397	2pc	Utility Cut-Off Tool
JAT-600	1	3/8" Reversible Air Drill
SRS10P21-8	1	Rivet Shaver

USATCO Student's Sheet Metal Tool Kit

Part Number		Description
53-426		Complete 69 PC Kit
Tools Included		
Part Number	Pcs.	Description
02-306-21	1	Pilot Countersink
02-306-30	1	Cobalt Jobber's Drill Bits
02-306-40	1	
02-441	1	Countersink Cage
02-R18C-10	2	
02-R18C-21	2	
02-R18C-30	2	
02-R18C-40	2	
04-17	1	Rivet Cutter
04-62	1	Cleco Plier
04-M-3/32	10	'M' Type Sheet Metal Fastener
04-M-1/8	10	
04-M-5/32	10	
04-M-3/16	5	
07-10-4703	1	Rivet Set 3-1/2" O.A.L.
07-10-4704	1	

Perfect For First Time Projects



USATCO RV Tool Kit

- 548 piece kit includes the primary tooling for starting first time projects.
- Kit box with non-marring plastic shell with all steel full-extension drawers.
- Lockable lid (lock not included) with sturdy metal latches & piano hinge.

Part Number		Description
53-RV		Complete 548 PC Kit
Tools Included		
Part Number	Pcs.	Description
02-306-30	1	Pilot Countersink
02-306-40	1	Cobalt Jobber's Drill Bits
02-441	1	Countersink Cage
02-R18C-10	2	
02-R18C-21	2	
02-R18C-30	2	
02-R18C-40	2	
04-1120	1	Fluting Plier
04-17	1	Rivet Cutter
04-22022	6pc	Multi-Burr & Blades
04-62	1	Cleco Plier
04-44	1	Hand Seamer
04-M-1/8	175	'M' Type Sheet Metal Fastener
04-M-3/32	325	
07-10-4703	1	
07-10-4704	1	Rivet Set 3-1/2" O.A.L.
07-10-4705	1	
07-10-4706	1	No-Mar Rivet Set



USATCO Rivet Squeezer Tool Kit

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

Part Number	Description
53-71021	Complete 38 PC Kit

Tools Included		
Part No.	Pcs.	Description
34-214C	1	C-Yoke Rivet Squeezer
96396	2pc	Quick Change Yoke Pin Set
53-26	31pc	Rivet Squeezer Set Kit
38-539-2A	1	Set Holder
62-54404	1	Plastic Tool Box
64-C200	1	2" Reach C-Yoke
64-C300	1	3" Reach C-Yoke



A Practical & Economical 38 Piece Kit

USATCO 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
PT-100-MIL-5	9-1/4" x 6-1/2" x 2-1/2"	8.0 lbs (3.6 kgs)



USATCO 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
D-9000-MIL-2	19-1/4" x 14-3/4" x 4-5/8"	28.5 lbs (12.9 kgs)



USATCO Homebuilder's Tool Kit



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

Part Number	Description
53-665SK	Complete 655 PC Kit

Tools Included		
Part Number	Pcs.	Description
02-306-10	1	Pilot Countersink
02-306-21	1	
02-306-30	1	
02-306-40	1	
02-441	1	Countersink Cage
02-501-6-10	2	6" Aircraft Extension Drill
02-501-6-21	2	
02-501-6-30	2	
02-501-6-40	2	
02-R18C-10	3	Cobalt Jobber's Length Drill
02-R18C-21	3	
02-R18C-30	12	
02-R18C-40	12	
04-17	1	Rivet Cutter
04-22022	6	Multi-Burr & Blades
04-62	1	Cleco Plier
04-EL-1/2-1	5	Side Grip Sheet Metal Fastener
04-EL-1/2-1/2	5	
04-M-1/8	170	'M' Type Sheet Metal Fastener
04-M-3/16	30	
04-M-3/32	330	
04-M-5/32	30	
04-W-1	10	No-Mar Cam Fastener

Tools Included		
Part Number	Pcs.	Description
07-10-4703	1	Rivet Set, 3-1/2" O.A.L.
07-10-4704	1	
07-10-4705	1	
07-10-4706	1	
07-170	1	Mushroom Rivet Set
08-112	1	Bucking Bar
08-638	1	
08-692	1	
08-694	1	
09-140	1	Power Regulator
09-RB-2	1	Beehive Retainer Spring
09-RH-2	1	Handi Retainer Spring
10-THS20	1	Stainless Steel Hand Squeezer
17-3XSP	1	Rivet Gun
26-110	1	Flush Squeezer Set
26-112	1	
26-210	2	
26-200-4703	1	Squeezer Set
26-200-4704	1	
26-200-4705	1	
62-12	1	Plastic Squeezer Set Kit Box
62-54405	1	Metal Drawer Plastic Kit Box
CP7300	1	CP Mini Air Drill

USATCO 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
02-2962-21	1	Threaded Shank Drills
02-2962-30	1	
02-2962-40	1	
02-306-10	1	Pilot Countersink
02-306-21	1	
02-306-30	1	
02-306-40	1	
02-306-30-120	1	Pilot Countersink 120°
02-441	1	Countersink Cage
02-501-6-21	3	6" Aircraft Extension Drill
02-501-6-30	3	
02-501-6-40	3	
02-C1-H	60pc	Drill Set (number sizes)
02-R10B-1/16	3	Jobber's Length Drill
02-R10B-1/4	3	
02-R10B-11/64	3	
04-200	1	Chip Chaser
04-20SL	1	Offset Snip (left)
04-20SR	1	Offset Snip (right)
04-22022	6pc	Multi-Burr & Blades
04-3090-1/2	2	Spring Tension Clamp
04-62	1	Cleco Plier
04-EL-1/2-1/2	10	Side Grip Sheet Metal Fastener
04-EL-3/4-1/2	10	
04-K380	1	Deburring Tool

Part Number	Description
53-GLASTAR	Complete 573 PC Kit

Tools Included		
Part Number	Pcs.	Description
04-M-1/8	150	'M' Type Sheet Metal Fastener
04-M-3/16	25	
04-M-3/32	250	
07-10-4703	1	Rivet Set, 3-1/2" O.A.L.
07-10-4704	1	
07-10-4706	1	
07-170	1	Mushroom Rivet Set
08-638	1	Bucking Bar
08-647	1	
08-721	1	
08-760B-2	1	
09-140	1	Power Regulator
09-RB-2	1	Beehive Retainer Spring
09-RH-2	1	Handi Retainer Spring
10-37001	1	360° POP Riveter
1245	1	12" Flex Ruler
17-3XSP	1	Rivet Gun
20-127-4S	1	90° Angle Drill Attachment
53-211-4263	2pc	Rivet Squeezer Punch & Die Set
53-211-4264	2pc	
53-420-2A	6pc	2" Hand Rivet Squeezer Kit
61-860	1	Center Punch & Scribe
62-54405	1	Plastic Tool Box
JAT-600	1	3/8" Reversible Air Drill

USATCO 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
53-DSK	Complete 77 PC Kit



Tools Included		
Part Number	Pcs.	Description
02-R10A-3/32	3	Jobber's Length Drill
02-R10A-1/8	3	
02-R10A-5/32	3	
02-R10A-3/16	3	
02-R10A-1/4	3	
02-306-21	1	Integral Pilot Cutter
02-306-30	1	
02-306-40	1	
04-M-1/8	10	'M' Type Fastener
04-M-3/16	10	
04-M-3/32	10	

Tools Included		
Part Number	Pcs.	Description
04-M-5/32	10	'M' Type Fastener
02-441	1	Countersink Cage
04-501	1	Rivet Cutter
04-62	1	Cleco Plier
08-670	1	Bucking Bar
09-140	1	Power Regulator
09-RB-2	1	Beehive Retainer Spring
09-RH-2	1	Handi Retainer Spring
17-3XSP	1	Rivet Gun
07-10-4703	1	Rivet Set, 3-1/2"
07-10-4704	1	

Tools Included		
Part Number	Pcs.	Description
07-10-4705	1	Rivet Set, 3-1/2"
07-10-4706	1	Mushroom Set w/ Guard
07-170	1	Drill Stop
18-DS-10	1	
18-DS-21	1	
18-DS-30	1	
18-DS-40	1	Canvas Tool Bag
62-279	1	
JAT-600	1	

USATCO Pro Composite Tool Kit

Equipped with the tools necessary for major composite repair.

Part Number	Description
53-70458	Complete 236 PC Kit

Tools Included		
Part Number	Pcs.	Description
02-1541-1/4	1	Solid Carbide Router Bits With Assorted Profiles
02-1547-1/4	1	
02-1547A-1/4	1	
02-1547B-1/4	1	
02-305-4C	1	
02-305-5C	1	Carbide Tip Countersink Cutter
02-305-6C	1	
02-305-8C	1	
02-551	1	Countersink Cage
04-330	1	Kevlar Hand Shears
10-099	1	6" Utility Knife
120625	3	Cut-Off Disc
12L2500-01RT	1	Router
12LF281-36	1	Right Angle Grinder
1450CA	3pc	Mandrel Set
14-2577	1	Router Base
15-A1080	1	Air Vac
40547	1	Honeycomb Cutter
407105	1	Respirator
49-MHS1	1	Diamond Hole Saw

Tools Included		
Part Number	Pcs.	Description
49-MHS1-1/2	1	Diamond Hole Saw
49-MHS2	1	Hole Saw Arbor
49-NA-01	1	
49-R3F	1	Diamond Router Bit
55417	10	Coarse Prep Disc
55418	10	Medium Prep Disc
55419	10	Fine Prep Disc
65001	153pc	Sanding Disc Kit
705-PCD130	1	Diamond Countersink
755-3	1	5/32" Pilot
755-5	1	3/16" Pilot
755-7	1	7/32" Pilot
755-8	1	1/4" Pilot
90272	1	3-Way Manifold
90460	1	Safety Goggles
MP4400-25HL	1	Vac. Orbital Sander
SDK-15	15pc	Sanding Drum Kit
SDR6P26N3	1	3/8" Capacity Drill
62-54406	1	Plastic Tool Box



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

Heavy-Duty Bending Brakes

- Unit will also bend 12 gauge in narrower widths.
- Maximum 2000 lbs hold down force.
- 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
1824	24"	5/8"	50 lbs (23 kgs)
1840	40"	5/8"	90 lbs (41 kgs)

* With unlimited throat.

Floor Stands

Part Number	Shipping Weight
1824S	40 lbs (18 kgs)
1840S	50 lbs (23 kgs)

Light Duty Bench Brake

F.O.B. FACTORY



- For light forming jobs - ideal for small, precise box & pan work.
- 135° maximum bending angle & 3" maximum box depth.

16 Gauge Capacity Bending Brake

Part Number	Maximum Bend Length	Minimum Reverse Bend	Shipping Weight
PX24	24"	1/4"	270 lbs (122 kgs)

Floor Stand

Part Number	Shipping Weight
37-PX24	160 lbs (73 kgs)

Economy Bending Brakes

- Ideal for production runs etc. - one year limited warranty.
- Mounting holes in base for stationary or portable applications.

Part Number	Capacity (aluminum)	Maximum Bend Length	Shipping Weight
18B	16 ga	18"	3.5 lbs (1.6 kgs)
30B	16 ga	30"	11 lbs (5 kgs)

Tennsmith® Bench Brakes

F.O.B. FACTORY

**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.

12 Gauge Capacity Bench Brake

Part Number	Maximum Bend Length	Minimum Reverse Bend	Shipping Weight
HBU48-12*	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
HBU48-16*	48-1/4"	1/4"	495 lbs (225 kgs)
HBS48-16	48-1/4"	1/4"	460 lbs (209 kgs)

22 Gauge Capacity Bench Brakes***

Part Number	Maximum Bend Length	Minimum Reverse Bend	Shipping Weight
U48-22**	48-1/4"	5/16"	280 lbs (127 kgs)
S48-22	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.

SHEET METAL FORMING EQUIPMENT

Tennsmith® Heavy-Duty Bench Brakes

F.O.B. FACTORY

Made In The USA



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
HB97-16	97"	1/4"	1675 lbs (760 kgs)
HB121-16	121"	1/4"	2875 lbs (1304 kgs)

18 Gauge Mild Steel Capacity Bench Brakes

Part Number	Maximum Bend Length	Minimum Reverse Bend	Shipping Weight
HB97-18	97"	1/4"	1385 lbs (628 kgs)
HB121-18	121"	1/4"	2300 lbs (1043 kgs)

Jet® Slip Rolls

F.O.B. FACTORY

Quality Import



SR2024

- 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 SR1650: 1/4", 5/16" & 3/8").

20 Gauge Mild Steel Capacity - 2" Roll Diameter

Part Number	Maximum Form Length	Minimum Form Radius	Shipping Weight
SR2024	24"	1"	216 lbs (98 kgs)

22 Gauge Mild Steel Capacity - 2" Roll Diameter

Part Number	Maximum Form Length	Minimum Form Radius	Shipping Weight
SR2236	36"	1"	256 lbs (116 kgs)

16 Gauge Mild Steel Capacity - 3" Roll Diameter

Part Number	Maximum Form Length	Minimum Form Radius	Shipping Weight
SR1650	50"	2"	573 lbs (260 kgs)

Tennsmith® Slip Rolls

F.O.B. FACTORY



Made In
The USA

An Affordable
Heavy-Duty
Production Tool

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

Note: Includes 3/16", 1/4" & 5/16" wire grooves (except SR48: 3/8", 1/2" & 5/8").

20 Gauge Mild Steel Capacity - 2" Roll Diameter

Part Number	Maximum Form Length	Minimum Form Radius	Shipping Weight
SR24	24"	1"	190 lbs (86 kgs)

22 Gauge Mild Steel Capacity - 2" Roll Diameter

Part Number	Maximum Form Length	Minimum Form Radius	Shipping Weight
SR36	36"	1"	250 lbs (113 kgs)

24 Gauge Mild Steel Capacity - 2" Roll Diameter

Part Number	Maximum Form Length	Minimum Form Radius	Shipping Weight
SR42	42"	1"	270 lbs (122 kgs)

16 Gauge Mild Steel Capacity - 3" Roll Diameter

Part Number	Maximum Form Length	Minimum Form Radius	Shipping Weight
SR48	48"	1-1/2"	1100 lbs (500 kgs)

- 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.

Tennsmith® Squaring Shears

F.O.B. FACTORY

Made In
The USA

52

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
36	37"	30" / 37"	700 lbs (318 kgs)
52	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
36A	37"	30" / 37"	800 lbs (363 kgs)
52A	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
52H-1 PH	1 Phase, 220V, 60Hz	52-1/4"	30" Back 37" Front	1300 lbs (590 kgs)
52H-3 PH	3 Phase, 220V*, 60Hz			

Note: 1450 PSI maximum operating pressure. * 400V 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
1652	52"	28" / 22"	1220 lbs (554 kgs)

Jet® Shear, Brake & Roll Combo

F.O.B. FACTORY

Quality Import

Right Or Left Hand Operation



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

Note:

SBR30: Upper die 4-3/4" height, 1", 2", 3", 4", 4", 6" & 10" widths.

SBR40: 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
SBR30	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
SBR40	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.

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

* B-3 equipped with high carbon, high chrome blades.

B-2



Replacement Blades

For B-1	For B-2	For B-3
B-1-1	B-2-1	B-3-1

Tennsmith® Notchers

F.O.B. FACTORY

Made In The USA

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



Replacement Blades

Part Number	Description
16-18B1	Regular Set of 4
16-18B2	Tab Set of 4

Floor Stand

Part Number	Shipping Weight
37-16-18	170 lbs (77 kgs)

Notchers

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

USATCO Bench Model Shriner & Stretcher

Made In
The USA

- 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 below).



04-135

16 Gauge Mild Steel Capacity Shriner & Stretcher

Part Number	Description	Weight
04-135	Metal Shriner	11 lbs (4.9 kgs)
04-136	Metal Stretcher	11 lbs (4.9 kgs)
53-137	Both Units	22 lbs (9.9 kgs)

Accessories

Part Number	Description
04-12	Conversion Assembly (stretcher to shriner)
04-18	Conversion Assembly (shriner to stretcher)
38-9300	Replacement Shriner Jaws (4 Piece Set)
38-9301	Replacement Stretcher Jaws (4 Piece Set)

USATCO Dual Head Shriner & Stretcher Stand

Made In The USA

- Dual head configuration allows two users at the same time.
- Wheeled base for easy movement.
- For use with USATCO Bench Model Shriner & Stretcher shown above.



36" Dual Head Floor Stand

Part Number	Weight
37-70127	26 lbs (11.7 kgs)

Note: Shriner & Stretcher units not included.

Extended Reach Bench Model Shriner/Stretcher



- Large frame opening allows complex forms to be worked.
- Works on all metals effectively.
- Ductile cast iron body & high quality machined finish.
- Handles both angles in the 2" wide range or flat sheets.
- Unit comes complete with one shrinking jaw assembly.
- 5/8" maximum metal insertion gap.
- Lighter design for low cost shipping & handling.

14 Gauge Aluminum Capacity (16 Gauge Steel)			
Part Number	Inside Reach	Inside Height	Weight
04-138	8-1/8"	6"	44 lbs (20 kgs)

Replacement Jaw Assemblies	
Part Number	Description
38-138-1	Shriner Jaw Assembly
38-138-2	Stretcher Jaw Assembly

Air Operated Floor Model Shriner & Stretcher

F.O.B. FACTORY

Convenient Remote Control Position

- Handwheel screw and indicator adjustment for accurate control.
- Adjustable air blow-off safety valve with air gauge.
- Small footprint: Only 1-1/2' by 1-1/2' at floor.
- Conforms to military spec MIL-S-45860B.



Part Number	Model	Capacity*	Reach	Floor To Jaw	Shipping Weight
6A-1	Shriner	1/4" Thick 1-1/2" Wide	6"	42" (107 cm)	575 lbs (261 kgs)
6A-2	Stretcher				

* Aluminum 2024, 1/4" x 1-1/2"; Aluminum 5052, 1/4" x 2"; Titanium, 5/32" x 1".

Part Number	Model	Capacity**	Reach	Floor To Jaw	Shipping Weight
12A-1	Shriner	3/32" Thick 1" Wide	12"	42" (107 cm)	650 lbs (295 kgs)
12A-2	Stretcher				

** Aluminum 2024, 5/32" x 1"; Aluminum 5052, 3/16" x 1"; Titanium, 3/32" x 3/4".

Accessories

Part Number	Description
T3A1	Conversion Assembly (stretcher to shriner)
T3B1	Conversion Assembly (shriner to stretcher)
HD1A3	Replacement Shriner Jaws (4 piece set)
HD1B3	Replacement Stretcher Jaws (4 piece set)

Foot Operated Floor Model Shriner & Stretcher

F.O.B. FACTORY



- Low Cost & High Quality*
- Form unusual shapes without dies.
 - Small footprint: Only 2' x 2' at floor.
 - Restipping service available for worn jaws, please inquire.
 - Special jaw configurations also available, please inquire.

Part Number	Model	Capacity*	Reach	Floor To Jaw	Shipping Weight
6F-1	Shriner	5/64"	6"	43-1/2" (110 cm)	400 lbs (181 kgs)
6F-2	Stretcher				

* Based on a tensile strength of 70,000 PSI.

Accessories

Part Number	Description
6F-A-7	Conversion Assembly (stretcher to shriner)
6F-B-7	Conversion Assembly (shriner to stretcher)
38-1447-10	Conversion Assembly (ERCO to Marchant)**
6F-A-3	Replacement Shriner Jaws (4 piece set)
6F-B-3	Replacement Stretcher Jaws (4 piece set)

** Convert your obsolete ERCO model 1447 to accept Marchant 6F tooling.

SHEET METAL FORMING EQUIPMENT

Bench Model English Wheeling Machines

F.O.B. FACTORY

*Upper Adjuster
For Easy Use*



45-23EWB

*Stiff Steel
Frame With
Modular
Lower Arm*

*Rotating
Yokes For
Flexible
Wheeling*

- Innovative upper adjuster for easier use & better precision.
- Upper wheel is heat treated to 52 Rockwell C (lower anvils are also available heat treated, please inquire).
- Modular lower tool arm allows the owner to build special tool arms to meet specific or unusual shaping requirements.
- Versatile lower yoke adjusts side to side, fore & aft.
- Included anvils provide various profiles from flat to very tight.

16" Bench Model - Stub Axle

- Stub axle to work very small pieces without pinching fingers.
- Stable tripod legs allow unit to bolt securely to a workbench.

Includes:

Wheeling Machine, 5-1/2" x 2" Upper Wheel & Six 2" x 2" Anvils In Various Profiles

Part Number	Capacity Stainless	Weight
45-16EWB	16 Gauge	105 lbs (47.6 kgs)

23" Bench Model

- Includes tripod mount bolt on legs.
- Free standing conversion kit also available, please inquire.

Includes:

Wheeling Machine, 8" x 2" Upper Wheel & Six 3" x 2" Anvils In Various Profiles

Part Number	Capacity Stainless	Weight
45-23EWB	16 Gauge	250 lbs (113 kgs)

Note: Replacement & other style anvils available for all models, please inquire.



For Metal Seamers & Crimpers See Pages 159-160

Floor Model English Wheeling Machines

F.O.B. FACTORY

*Upper Adjuster
For Easy Use*



45-35EWF

*Rotating
Yokes For
Flexible
Wheeling*

*Stiff Steel
Frame With
Modular
Lower Arm*

- Innovative upper adjuster for easier use & better precision.
- Includes tripod mount bolt on legs - 1/4" steel construction.
- Upper wheel is heat treated to 52 Rockwell C (lower anvils are also available heat treated, please inquire).
- Modular lower tool arm allows the owner to build special tool arms to meet specific or unusual shaping requirements.
- Versatile lower yoke adjusts side to side, fore & aft.
- Included anvils provide various profiles from flat to very tight.

26" Floor Model

- A superb smaller machine, very stable and solid.

Includes:

Wheeling Machine, 8" x 2" Upper Wheel & Six 3" x 2" Anvils In Various Profiles

Part Number	Capacity Stainless	Weight
45-26EWF	14 Gauge	350 lbs (159 kgs)

35" Floor Model

- Includes new quick release & dovetail adjuster which provides very smooth action with no movement.
- Axle is quickly removed for changing wheel configurations.

Includes:

Wheeling Machine, 9" x 4" Upper Wheel & Six 3" x 3" Anvils In Various Profiles

Part Number	Capacity Stainless	Weight
45-35EWF	14 Gauge	850 lbs (386 kgs)

Note: Replacement & other style anvils available for all models, please inquire.

Jet® 45" English Wheeling Machine

F.O.B. FACTORY



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
45-373-45	1/8" Alum. 16 ga. Mild	45" (114 cm)	6" (15 cm)	63" (160 cm)	575 lbs (261 kgs)

**Jet® Planishing Hammer**

F.O.B. FACTORY



- Smooths beads and forms steel sheet metal up to 16 gauge, alum. & copper up to 1/8" thick.
- Supplied with two pair of upper & anvil die sets.
- Three position airflow regulates speed of pneumatic hammer*.

Part No.	Throat	Head Opening	Shipping Weight
PH-24	24"	2-1/2"	250 lbs (113 kgs)

* 1800-2000, 3200-3500 & 4400-4600 BPM ranges. Required 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
R22	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
02-441	02-441S	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)
53-441K	53-441SK	3/32", 1/8", 5/32" & 3/16"
53-441K1	53-441SK1	#10, 21, 30 & 40
53-441K2	53-441SK2	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
94278	02-441-1X	Phenolic
94279	02-441-2X	Nylon
94280	02-441-3X	Nylon Flanged
94281	02-441-4X	Chrome
94282	02-441-5X	Plastic

Optional Skirts:

- Available separately or installed on tool.

Skirt Type



2 Leg

Bell

Flange

Skirt Only

95390

95393

95395

Skirt w/Tool

02-441A

02-441B

02-441C

Skirt Type



Insert Collar

Close

Cutaway

Skirt Only

95391

95392

95394

Skirt w/Tool

02-441D

02-441E

02-441F

Skirt Type



Std. w/Steel Footpiece

Std. w/Nylon Footpiece

Skirt Only

95396

95397

Skirt w/Tool

02-441S

02-441N

Micro-Stop Countersink Cutter Kit

New Fitted Case Helps Prevent F.O.D.



Includes:

Versatile & Portable

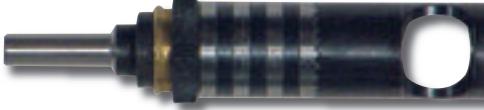
Countersink Cage, Two Replacement Skirts (insert collar & flange type), Four Footpieces (phenolic, nylon, nylon flanged & chrome), Nine 1/2" Diameter H.S.S. Cutters (3/32", 1/8", 5/32", 3/16", 1/4", #40, #30, #21 & #10) & Plastic Case

Note: Elliptical countersink cutter kit also available, please inquire.

Part Number	Description
53-590	Complete 17 PC Kit

Mini Micro-Stop Countersink Cage

Perfect For Use In Seat Tracks



Hardened & ground spindles, bronze bearings & precision depth control.

1/4"-28 Countersink Thread

Part No.	Capacity	Shaft Travel	Depth Adj.	Max. RPM
02-241	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)
53-241K	3/32", 1/8", 5/32" & 3/16"
53-241K1	#10, 21, 30 & 40
53-241K2	3/32", 1/8", 5/32", 3/16", #10, 21, 30 & 40



For Diamond Plated Countersinks See Page 89

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 No.	Capacity	Shaft Travel	Depth Adj.	Max. RPM
02-551	5/8"	5/16"	0.001"	10,000

Optional Footpiece

Part Number	Type
38-2911	Nylon

Note: Other optional skirts & footpieces available, please inquire.

Jumbo Micro-Stop Countersink Cages

02-1533



- 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 No.	Capacity	Shaft Travel	Depth Adj.	Max. RPM
02-1530	1"	1/2"	0.001"	3000
02-1533	1-1/4"	1/2"	0.001"	3000

Integral Pilot Countersink Cutters

H.S.S.

Carbide Tip



Note: H.S.S. cutters are 3-flute standard.
Carbide tip cutters are 2-flute standard.
Other flutes available, please inquire.

Integral Pilot 1/4"-28 Thread, 100° H.S.S.			
7/16" Diameter	1/2" Diameter	5/8" Diameter	Pilot Diameter
02-304-3/32	02-305-3	—	3/32"
02-304-1/8	02-305-4	—	1/8"
02-304-5/32	02-305-5	02-307-5	5/32"
02-304-3/16	02-305-6	02-307-6	3/16"
02-304-7/32	02-305-7	02-307-7	7/32"
02-304-1/4	02-305-8	02-307-8	1/4"
02-304-40	02-306-40	02-307-40	#40
02-304-30	02-306-30	02-307-30	#30
02-304-21	02-306-21	02-307-21	#21
02-304-10	02-306-10	02-307-10	#10
02-304-F	02-306-F	02-307-F	F

Integral Pilot 1/4"-28 Thread, 100° Carbide Tip			
7/16" Diameter	1/2" Diameter	5/8" Diameter	Pilot Diameter
02-304-3/32C	02-305-3C	—	3/32"
02-304-1/8C	02-305-4C	—	1/8"
02-304-5/32C	02-305-5C	02-307-5C	5/32"
02-304-3/16C	02-305-6C	02-307-6C	3/16"
02-304-7/32C	02-305-7C	02-307-7C	7/32"
02-304-1/4C	02-305-8C	02-307-8C	1/4"
02-304-40C	02-306-40C	02-307-40C	#40
02-304-30C	02-306-30C	02-307-30C	#30
02-304-21C	02-306-21C	02-307-21C	#21
02-304-10C	02-306-10C	02-307-10C	#10
02-304-FC	02-306-FC	02-307-FC	F

PUNCH & CUTTING TOOLS

Cobalt Integral Pilot Countersink Cutters

- Solid M42 cobalt construction for use on harder materials.
- Three flute, 100° countersink angle standard.



NEW

Integral Pilot 1/4"-28 Thread, 100° Cobalt

Part Number	Pilot Diameter	Body Diameter
02-8056-40	#40	1/2"
02-8056-30	#30	1/2"
02-8056-21	#21	1/2"
02-8056-10	#10	1/2"
02-8056-1/4	1/4"	1/2"
02-80565	Complete 5PC Set	

Undercut Body Countersink Cutters



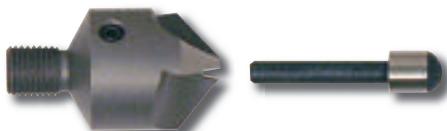
- Undercut body diameter provides faster chip ejection.
- Designed for close tolerance work & to eliminate sheet damage.
- Two flute, high speed steel construction with a 100° cutting angle.

3/8" Body Diameter, 100° Cutting Angle

Part Number	Shank Size	Pilot Diameter
02-100-210-0960	.210"	.0960"
02-100-256-0980	.256"	.0980"
02-100-256-1222	.256"	.1222"
02-100-256-1265	.256"	.1256"
02-100-317-1570	.317"	.1570"
02-100-386-1915	.386"	.1915"

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
02-167-3-82	02-167-3-82C	1/2"	82°
02-167-3-100	02-167-3-100C	1/2"	100°
02-167-3-120	02-167-3-120C	1/2"	120°
02-167-4-100	—	5/8"	100°

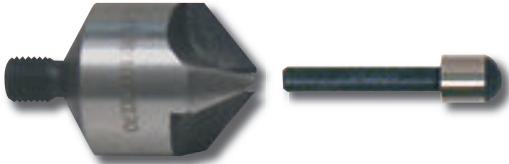
.086" Replaceable Pilots

Part Number	Pilot Diameter
02-A181-3	3/32"
02-A181-4	1/8"
02-A181-5	5/32"

.086" Replaceable Pilots

Part Number	Pilot Diameter
02-A181-6	3/16"
02-A181-7	7/32"
02-A181-8	1/4"

Jumbo Replaceable Pilot C'Sink Cutters & Pilots



Replaceable Pilot Cutters 3/8"-24 Thread - .170" Pilot Hole

H.S.S.	Body Diameter
02-434-1	3/4"
02-434-2	7/8"
02-434-3	1"
02-434-4	1-1/8"
02-434-5	1-1/4"

.170" Replaceable Pilots

Part Number	Pilot Diameter
02-A184-6	3/16"
02-A184-8	1/4"
02-A184-10	5/16"
02-A184-12	3/8"
02-A184-14	7/16"
02-A184-16	1/2"
02-A184-20	5/8"

Note: 100° cutting angle standard, 82° avail.

Jumbo cutters also available in carbide and integral pilot style, please inquire.

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
02-100-210-0960	.210"	.0960"
02-100-256-0980	.256"	.0980"
02-100-256-1222	.256"	.1222"
02-100-256-1265	.256"	.1256"
02-100-317-1570	.317"	.1570"
02-100-386-1915	.386"	.1915"

Extended Footpiece Micro-Stop C'Sink Cage

02-284



Hardened & ground spindles, bronze bearings & precision depth control.

1/4"-28 Countersink Thread

Part Number	Capacity	Footpiece Extension	Shaft Travel	Depth Adj.	Max. RPM
02-284	3/8"	2-3/4"	5/16"	0.001"	3000
02-284-4	3/8"	4"	5/16"	0.001"	3000
02-284-D	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
02-303-3/32	02-303-3/32C	3/32"
02-303-1/8	02-303-1/8C	1/8"
02-303-5/32	02-303-5/32C	5/32"
02-303-3/16	02-303-3/16C	3/16"
02-303-7/32	02-303-7/32C	7/32"
02-303-1/4	02-303-1/4C	1/4"
02-303-40	02-303-40C	#40
02-303-30	02-303-30C	#30
02-303-21	02-303-21C	#21
02-303-10	02-303-10C	#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
02-441SBACR15FT	5/8"	5/16"	0.001"	3000
02-441SBACR15FT-1	5/8"	5/16"	0.0005"	3000

Flanged Skirt Models, 1/4"-28 Countersink Thread				
Part Number	Cap.	Shaft Travel	Depth Adj.	Max. RPM
02-441FBACR15FT	5/8"	5/16"	0.001"	3000
02-441FBACR15FT-1	5/8"	5/16"	0.0005"	3000

Countersink Cutters For BRFZ Rivets



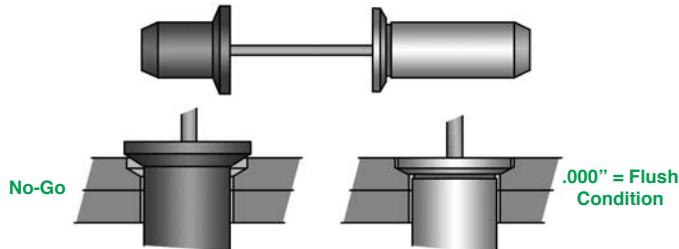
- Designed for Boeing® BRFZ rivets, MS14218.
- Creates both counterbore & countersink in one operation.
- Manufactured from M42 H.S.S., heat-treated to 63-66 Rc.

Integral Pilot 1/4"-28 Thread 3/8" Body Diameter, H.S.S.		
Part No.	Rivet Size	Diameter
02-438-3	-3	3/32"
02-438-4	-4	1/8"
02-438-5	-5	5/32"
02-438-6	-6	3/16"
02-438-7	-7	7/32"

Integral Pilot 1/4"-28 Thread 1/2" Body Diameter, H.S.S.		
Part No.	Rivet Size	Diameter
02-438-8	-8	1/4"
02-438-9	-9	9/32"
02-438-10	-10	5/16"

Note: 1/4"-28 thread.
120° cutting angle standard.

BRFZ Dual Gauges



Go / no-go gauge determines proper Boeing® BRFZ rivet installation.

Part No.	Nom. Dia.	No Go
06-439-3	3/32"	.1265"
06-439-4	1/8"	.1655"
06-439-5	5/32"	.2140"
06-439-6	3/16"	.2625"

Part No.	Nom. Dia.	No Go
06-439-7	7/32"	.3170"
06-439-8	1/4"	.3640"
06-439-9	9/32"	.4110"
06-439-10	5/16"	.4600"

Carbide Tip Replaceable Pilot Stop Counterbores

- For use with all popular micro-stop countersink cages.
- Perfect for highly abrasive, difficult to machine & exotic materials.



Part Number	Cutter Dia.	Shank Thread	Pilot Hole
02-730-1	3/8"	1/4"-28	3/32"
02-730-2	7/16"	1/4"-28	1/8"
02-730-3	1/2"	1/4"-28	1/8"
02-730-4	9/16"	1/4"-28	1/8"
02-730-5	5/8"	1/4"-28	1/8"
02-730-6A	11/16"	3/8"-24	3/16"
02-730-6B	11/16"	7/16"-20	3/16"
02-730-7A	3/4"	3/8"-24	3/16"
02-730-7B	3/4"	7/16"-20	3/16"
02-730-8A	13/16"	3/8"-24	3/16"
02-730-8B	13/16"	7/16"-20	3/16"
02-730-9A	7/8"	3/8"-24	3/16"
02-730-9B	7/8"	7/16"-20	3/16"
02-730-10A	15/16"	3/8"-24	3/16"
02-730-10B	15/16"	7/16"-20	3/16"
02-730-11A	1"	3/8"-24	3/16"
02-730-11B	1"	7/16"-20	3/16"
02-730-12A	1-1/8"	3/8"-24	3/16"
02-730-12B	1-1/8"	7/16"-20	3/16"
02-730-13A	1-1/4"	3/8"-24	3/16"
02-730-13B	1-1/4"	7/16"-20	3/16"

Note: 1/64" corner radius. Replaceable pilots available on page 81.

Countersink Extensions



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

1/4"-28 Threaded Shank		
Part Number	Body Length	Shank Length
90442	1"	5/16"
90443	2"	5/16"
90444	4"	5/16"

1/4" Straight Shank		
Part Number	Body Length	Shank Length
90425	2"	7/8"
90426	4"	7/8"
90427	6"	7/8"

Straight Shank Zero Flute C'Sink Cutters

Fast Stock Removal



Single cutting edge for chatter free finish in all materials.

1/4" Straight Shank, 100° Cutting Angle		
Part Number	Capacity	Overall Length
100130	3/32" - 1/4"	1-1/2" (38.1 mm)
100131	1/8" - 27/64"	1-11/16" (42.8 mm)
100132	3/16" - 35/64"	1-7/8" (47.6 mm)

PUNCH & CUTTING TOOLS

Straight Shank Aircraft Countersink Cutters



- Radial relief ground angle to assure free cutting clearance & prevent chatter.
- Available in 82°, 100° & 120° cutting angles.*

* Select the cutter required, then add the desired cutting angle (82, 100 or 120).
Example: For a H.S.S. 1/4" dia. one flute cutter with a 100° angle, use no. 02-112-1-100.

One Flute

H.S.S.	Carbide	Diameter	Shank
02-112-1	02-112-1C	1/4"	1/4"
02-112-2	02-112-2C	5/16"	1/4"
02-112-3	02-112-3C	3/8"	1/4"
02-112-5	02-112-5C	1/2"	1/4"
02-112-6	02-112-6C	5/8"	3/8"

Four Flute

H.S.S.	Carbide	Diameter	Shank
02-312-1	02-312-1C	1/4"	3/16"
02-312-2	02-312-2C	5/16"	1/4"
02-312-3	02-312-3C	3/8"	1/4"
02-312-5	02-312-5C	1/2"	3/8"
02-312-6	02-312-6C	5/8"	3/8"

Six Flute Chatterless

H.S.S.	Carbide	Diameter	Shank
02-612-1	02-612-1C	1/4"	3/16"
02-612-2	02-612-2C	5/16"	1/4"
02-612-3	02-612-3C	3/8"	1/4"
02-612-5	02-612-5C	1/2"	3/8"
02-612-6	02-612-6C	5/8"	3/8"

Str. Shank Integral Pilot Extension Countersinks

M42 High Speed Steel Construction



100° Cutting Angle

Part Number	Body Dia.	Pilot Dia.
02-1875-100-0938	3/16"	3/32"
02-1875-100-1250	3/16"	1/8"
02-1875-100-1562	3/16"	5/32"
02-1900-100-1562	.1900"	3/32"
02-2500-100-0938	1/4"	3/32"
02-2500-100-1250	1/4"	1/8"
02-2520-100-1250	.2520"	1/8"
02-2830-100-1395	.2830"	.1395"
02-3125-100-1250	5/16"	1/8"

120° Cutting Angle

Part Number	Body Dia.	Pilot Dia.
02-1875-120-0938	3/16"	3/32"
02-2500-120-1250	1/4"	1/8"
02-3125-120-1562	5/16"	5/32"
02-3750-120-0938	3/8"	3/32"
02-3750-120-1250	3/8"	1/8"
02-3750-120-1562	3/8"	5/32"
02-3750-120-1875	3/8"	3/16"
02-5000-120-2500	1/2"	1/4"

90° Cutting Angle

Part Number	Body Dia.	Pilot Dia.
02-1875-90-0938	3/16"	3/32"
02-2500-90-1250	1/4"	1/8"
02-3125-90-1562	5/16"	5/32"
02-3750-90-1875	3/8"	3/16"
02-4050-100-1875	.4050"	3/16"
02-4375-100-2188	7/16"	7/32"
02-4375-100-2500	7/16"	1/4"
02-5000-100-0938	1/2"	3/32"
02-5000-100-1250	1/2"	1/8"
02-5000-100-1562	1/2"	5/32"
02-5000-100-1875	1/2"	3/16"
02-5000-100-2188	1/2"	7/32"
02-5000-100-2500	1/2"	1/4"
02-5300-100-2500	.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.

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
53-29	53-29CT	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", 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
53-39	53-39CT	Complete 40 PC Kit



53-29

Interchangeable Pilot Aircraft Counterbores



Short Flute Type

- Used with chucked drills to cut flat area around hole for bolt or nut installation.
- The OD is precision ground 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 inquire).

1/4" Shank H.S.S.		
Part Number	Cutter Dia.	Pilot Hole
02-275-1	1/4"	3/32"
02-275-2	9/32"	3/32"
02-275-3	5/16"	3/32"
02-275-4	11/32"	3/32"
02-275-5	3/8"	3/32"
02-275-6	13/32"	1/8"
02-275-7	7/16"	1/8"
02-275-8	15/32"	1/8"
02-275-9	1/2"	1/8"
02-275-10	17/32"	1/8"
02-275-11	9/16"	1/8"
02-275-12	19/32"	1/8"
02-275-13	5/8"	1/8"
02-275-14	21/32"	3/16"
02-275-15	11/16"	3/16"
02-275-16	23/32"	3/16"
02-275-17	3/4"	3/16"
02-275-18	25/32"	3/16"
02-275-19	13/16"	3/16"
02-275-20	27/32"	3/16"
02-275-21	7/8"	3/16"
02-275-22	29/32"	3/16"
02-275-23	15/16"	3/16"
02-275-24	31/32"	3/16"
02-275-25	1"	3/16"

1/4" Shank Carbide Tipped		
Part Number	Cutter Dia.	Pilot Hole
02-275-1C	1/4"	3/32"
02-275-2C	9/32"	3/32"
02-275-3C	5/16"	3/32"
02-275-4C	11/32"	3/32"
02-275-5C	3/8"	3/32"
02-275-6C	13/32"	1/8"
02-275-7C	7/16"	1/8"
02-275-8C	15/32"	1/8"
02-275-9C	1/2"	1/8"
02-275-10C	17/32"	1/8"
02-275-11C	9/16"	1/8"
02-275-12C	19/32"	1/8"
02-275-13C	5/8"	1/8"
02-275-14C	21/32"	3/16"
02-275-15C	11/16"	3/16"
02-275-16C	23/32"	3/16"
02-275-17C	3/4"	3/16"
02-275-18C	25/32"	3/16"
02-275-19C	13/16"	3/16"
02-275-20C	27/32"	3/16"
02-275-21C	7/8"	3/16"
02-275-22C	29/32"	3/16"
02-275-23C	15/16"	3/16"
02-275-24C	31/32"	3/16"
02-275-25C	1"	3/16"

1/2" Shank H.S.S.		
Part Number	Cutter Dia.	Pilot Hole
02-275-26	1-1/16"	3/16"
02-275-27	1-1/8"	3/16"
02-275-28	1-3/16"	3/16"
02-275-29	1-1/4"	3/16"
02-275-30	1-5/16"	3/16"
02-275-31	1-3/8"	3/16"
02-275-31B	1-7/16"	3/16"
02-275-32	1-1/2"	3/16"

1/2" Shank Carbide Tipped		
Part Number	Cutter Dia.	Pilot Hole
02-275-26C	1-1/16"	3/16"
02-275-27C	1-1/8"	3/16"
02-275-28C	1-3/16"	3/16"
02-275-29C	1-1/4"	1/4"
02-275-30C	1-5/16"	1/4"
02-275-31C	1-3/8"	1/4"
02-275-31BC	1-7/16"	1/4"
02-275-32C	1-1/2"	1/4"

Aircraft Counterbore Pilots



- Made from precision ground, finest quality tool steel.
- Fits most standard aircraft counterbores.

3/32" Shank	
Part No.	Head Dia.
02-276-1	3/32"
02-276-2	1/8"
02-276-3	5/32"
02-276-4	#20
02-276-5	3/16"
02-276-6	#10
02-276-7	7/32"
02-276-8	1/4"
02-276-9	F

3/16" Shank	
Part No.	Head Dia.
02-276-5C	3/16"
02-276-6C	#10
02-276-7C	7/32"
02-276-8C	1/4"
02-276-9C	F
02-276-10C	9/32"
02-276-11C	5/16"
02-276-12C	11/32"
02-276-13C	3/8"
02-276-14C	13/32"
02-276-15C	7/16"
02-276-16C	15/32"
02-276-17C	1/2"
02-276-18C	17/32"
02-276-19C	9/16"
02-276-20C	19/32"
02-276-21C	5/8"

1/8" Shank	
Part No.	Head Dia.
02-276-2A	1/8"
02-276-3A	5/32"
02-276-4A	#20
02-276-5A	3/16"
02-276-6A	#10
02-276-7A	7/32"
02-276-8A	1/4"
02-276-9A	F
02-276-10A	9/32"
02-276-11A	5/16"

Note: Also used with threaded shank stop counterbores on page 79.

Counterbore Extension

Great For Limited Access Areas

Part No.	Shank	Shank Cap.	O.A.L.
02-275-EX	1/4"	1/4"	4" (102 mm)

4-Flute Back Countersink Cutters

- Precision ground with 100° cutting angle.
- For restricted areas where conventional countersinks cannot be utilized.



* These models carbide tipped, not solid carbide.

H.S.S.	Solid Carbide	Cutter Dia.	Pilot Hole
02-290-1	02-290-1C	1/4"	3/32"
02-290-1B	02-290-1BC	1/4"	1/8"
02-A208-2J	02-A208-2JC	5/16"	3/32"
02-290-2	02-290-2C	5/16"	1/8"
02-290-2B	02-290-2BC	5/16"	5/32"
02-A208-3J	02-A208-3JC	3/8"	1/8"
02-290-3	02-290-3C	3/8"	5/32"
02-290-3B	02-290-3BC	3/8"	3/16"
02-A208-4J	02-A208-4JC	7/16"	1/8"
02-290-4	02-290-4C	7/16"	5/32"
02-290-4B	02-290-4BC	7/16"	3/16"
02-A208-5J	02-A208-5JC	1/2"	5/32"
02-290-5	02-290-5C	1/2"	3/16"
02-290-5B	02-290-5BC	1/2"	1/4"
02-A208-6J	02-A208-6JC	9/16"	5/32"
02-290-6	02-290-6C	9/16"	3/16"
02-290-6B	02-290-6BC	9/16"	1/4"
02-A208-7J	02-A208-7JC	5/8"	3/16"
02-290-7	02-290-7C	5/8"	1/4"
02-290-7B	02-290-7BC	5/8"	5/16"
02-290-8	02-290-8C	11/16"	1/4"
02-290-8B	02-290-8BC	11/16"	5/16"
02-290-9	02-290-9C	3/4"	1/4"
02-290-9B	02-290-9BC	3/4"	3/8"
02-290-10	02-290-10C	7/8"	5/16"
02-290-10B	02-290-10BC	7/8"	3/8"
02-290-11	02-290-11C	1"	5/16"
02-290-11B	02-290-11BC	1"	1/2"
02-290-12	02-290-12X*	1-1/4"	1/2"
02-290-12B	02-290-12BX*	1-1/4"	3/8"
02-290-13	02-290-13X*	1-3/8"	5/8"
02-290-13B	02-290-13BX*	1-1/2"	5/8"
02-290-14	02-290-14X*	1-3/4"	3/4"
02-290-14B	02-290-14BX*	1-7/8"	3/4"
02-290-12B	02-290-12BX*	1-1/4"	1/2"

4-Flute Back Spotfacers

- Precision ground.
- For restricted areas where conventional spotfacers cannot be utilized.



Note: Corner radii: 1/32" H.S.S., 1/64" Carbide.

* These models carbide tipped, not solid carbide.

H.S.S.	Solid Carbide	Cutter Dia.	Pilot Hole
02-280-1	02-280-1C	1/4"	3/32"
02-280-1B	02-280-1BC	1/4"	1/8"
02-280-2	02-280-2C	5/16"	1/8"
02-280-2B	02-280-2BC	5/16"	5/32"
02-280-3	02-280-3C	3/8"	5/32"
02-280-3B	02-280-3BC	3/8"	3/16"
02-280-4	02-280-4C	7/16"	5/32"
02-280-4B	02-280-4BC	7/16"	3/16"
02-280-5	02-280-5C	1/2"	3/16"
02-280-5B	02-280-5BC	1/2"	1/4"
02-280-6	02-280-6C	9/16"	3/16"
02-280-6B	02-280-6BC	9/16"	1/4"
02-280-7	02-280-7C	5/8"	1/4"
02-280-7B	02-280-7BC	5/8"	5/16"
02-A208-6J	02-A208-6JC	9/16"	5/32"
02-280-8	02-280-8C	11/16"	1/4"
02-280-8B	02-280-8BC	11/16"	5/16"
02-280-9	02-280-9C	3/4"	5/16"
02-280-9B	02-280-9BC	3/4"	3/8"
02-280-10	02-280-10C	7/8"	5/16"
02-280-10B	02-280-10BC	7/8"	3/8"
02-280-11	02-280-11C	1"	5/16"
02-280-11B	02-280-11BC	1"	1/2"
02-280-12	02-280-12X*	1-1/8"	1/2"
02-280-12B	02-280-12BX*	1-1/4"	3/8"
02-280-13	02-280-13X*	1-3/8"	5/8"
02-280-13B	02-280-13BX*	1-1/2"	5/8"
02-280-14	02-280-14X*	1-3/4"	3/4"
02-280-14B	02-280-14BX*	1-7/8"	3/4"
02-280-15	02-280-15X*	2"	3/4"

Back Countersink & Back Spotfacer Kits

- Precision ground with correct 100° cutting angle, for use in restricted areas.
- Carbide kits for use with steel, inconel & composite materials.

53-590S



Includes:

Convenient & Economical

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") & Heavy-Duty Polyethylene Case

14 PC Back Countersink Kits	
High Speed Steel	Solid Carbide
53-590TA	53-590TAC

14 PC Back Spotfacer Kits	
High Speed Steel	Solid Carbide
53-590S	53-590SC

Back Countersink & Back Spotfacer Pilots

- Interchangeable among countersink & counterbore cutters.
- Standard 6" overall length.
- Units with double drive bayonet lock 8" overall length.

Standard Pilots	
Part Number	Pilot Dia.
02-285-1	3/32"
02-285-2	1/8"
02-285-3	5/32"
02-285-4	3/16"
02-285-5	1/4"

Standard Pilots	
Part Number	Pilot Dia.
02-285-6	5/16"
02-285-7	3/8"
02-285-8	1/2"
02-285-9*	5/8"
02-285-10*	3/4"

Step Pilots		
Part Number	Pilot Dia.	Step Dia.
02-2855-1	3/32"	1/8"
02-2855-2	1/8"	5/32"
02-2855-3	5/32"	3/16"
02-2855-4	3/16"	1/4"
02-2855-5	1/4"	5/16"
02-2855-6	5/32"	3/16"
02-2855-7	3/16"	1/4"
02-2855-8	1/4"	5/16"
02-2855-9	5/16"	3/8"
02-2855-10	3/8"	1/2"
02-2855-11	1/2"	9/16"
02-2855-12	1/4"	5/16"
02-2855-13	5/16"	3/8"
02-2855-14	3/8"	1/2"
02-2855-17	1/2"	9/16"
02-2855-20*	5/8"	3/4"
02-2855-21*	5/8"	7/8"
02-2855-22*	3/4"	7/8"
02-2855-23*	3/4"	1"
02-2855-24*	3/4"	1-1/4"

* Furnished with double drive bayonet lock.



For Composite Cutting Hole Saws See Page 91

Fine & Coarse Tooth Hole Saws**Fine Tooth**

- For use with aluminum, sheet steel & plastics.

**Coarse Tooth**

- For use with thicker materials.
- Deep teeth for proper chip flow.

Part Number (prefix)	Description
49-500	Fine Tooth
49-501	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 49-500-1.

Suffix	Diameter*
1	3/8" (9.5 mm)
2	13/32" (10.3 mm)
3	7/16" (11 mm)
4	15/32" (11.8 mm)
5	1/2" (12.8 mm)
6	17/32" (13.5 mm)
7	9/16" (14.2 mm)
8	19/32" (15 mm)
9	5/8" (15.8 mm)
10	21/32" (16.6 mm)
11	11/16" (17.4 mm)
12	23/32" (18.2 mm)
13	3/4" (19 mm)
14	25/32" (19.8 mm)
15	13/16" (20.6 mm)
16	27/32" (21.4 mm)
17	7/8" (22.2 mm)
18	29/32" (23 mm)
19	15/16" (23.7 mm)
20	31/32" (24.5 mm)
21	1" (25 mm)
22	1-1/16" (27 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*

1/4" Shank, 5/16"-24 Thread	
Part Number	Pilot Diameter
49-502-1	3/16"
49-502-2	1/4"

1/2" Shank, 1/2"-20 Thread	
Part Number	Pilot Diameter
49-502-3	1/4"
49-502-4	3/8"

Blair® Hole Cutter Kits

Produces clean, burr-free holes with no damage or deforming of the surrounding material. Excellent for steel, sheet metal and plastics.



02-11075

Heavy-Duty* Hole Cutter Kit:

Arbor With Spring Loaded Retractable Pilot, Extra Pilot, Seven Cutters (5/16", 3/8", 7/16", 1/2", 9/16", 5/8" & 3/4"), Allen Wrench, Stop Washers & Carrying Case

Part Number	Material Capacity
02-11075	1/4"

*Patented Tooth
Geometry Prevents
Chip Clogging*

*Precision
Ground
M2 H.S.S.*



02-13218

Blaircutter Hole Cutter Kit:

Arbor With Spring Loaded Retractable Pilot, 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
02-13218	3/16"

Replacement Cutters (sold individually)

1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"
11100	11104	11108	11112	11116	11120	11124	11132

* Can be mounted on air feed drill units.



02-11091

Rotabroach Large Diameter Hole Cutter Kit:

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
02-11091	1/2"

Replacement Cutters (sold individually)

7/8"	1"	1-1/8"	1-1/4"	1-3/8"	1-1/2"
11340	11348	11356	11364	11366	11368

Replacement Cutters (sold individually)

1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"
13200	13202	13204	13206	13208	13210	13212

02-14006

Automotive & Fabricator's Hole Cutter Kit:

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
02-14006	1/8"

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"
14628	14632	14636	14640	14644	14648	14656	14662	14674

BAHCO® Hole Saw Sets

**Seven Piece Set Includes:**

Five Hole Saws (7/8", 1", 1-1/8", 1-1/4" & 1-1/2"), Arbor & Adaptor (fits 9/16" to 13/16" and 1-1/4" to 6" hole saws) & Fitted Plastic Case

Thirteen Piece Set Includes:

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 7PC Set	Part Number 13PC Set
862007	862013

Hole Cutter

**20 Gauge
Sheet Metal
Capacity**



61-13551

- 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
61-13551	2" to 12" (5.1 to 30.5 cm)	02-13548
61-14551	2" to 20" (5.1 to 50.8 cm)	

Circle Cutters

3/8" Shank

02-21009

- Replaceable 3/16" H.S.S. blade & 1/4" pilot drill.
- Includes allen key (not shown).

Circle Cutters	
Part Number	Cutter Range
02-21003	7/8" to 4"
02-21009	1" to 6"

Replacement Parts	
Part Number	Description
02-27012	Pilot Drill
02-27009	Cutting Blade

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
AX1301	16 PC Imperial Kit	1/8" to 3/16"	2.5 lbs (1.1 kgs)
AX1351	16 PC Metric Kit	2 mm to 50 mm	1.1 lbs (0.5 kgs)

Aircraft Punch & Flare Dies

Simple, Fast & Accurate

61-250

- Designed to punch the required hole size and follow with a 35-degree straight angle (leg length of 1/8").
- Hand or arbor press operation in alum. or mild steel 0.020" to 0.040".
- Just drill a pilot hole for the draw bolt, then apply the tool and tighten for a smooth, flared hole.



Part No.	Diameter
61-100	1" (25 mm)
61-125	1-1/4" (32 mm)
61-150	1-1/2" (38 mm)
61-175	1-3/4" (44 mm)
61-200	2" (51 mm)
61-225	2-1/4" (57 mm)
61-250	2-1/2" (64 mm)
61-275	2-3/4" (70 mm)

Part No.	Diameter
61-300	3" (76 mm)
61-325	3-1/4" (83 mm)
61-350	3-1/2" (89 mm)
61-375	3-3/4" (95 mm)
61-400	4" (102 mm)
61-500	5" (127 mm)
61-600	6" (152 mm)

Note: Special shapes/sizes available on request, please inquire.



53-81551

Aircraft Punch & Flare Kits

Part Number	Description	Hole Range
53-81551	5 Piece Kit	1" to 2" Diameter
53-81661	9 Piece Kit	1" to 3" Diameter
53-81991	13 Piece Kit	1" to 4" Diameter

PUNCH & CUTTING TOOLS

Hand Metal Punch Kits



04-5

Standard Metal Punch Kit:

Hand Metal Punch, Six Punch & Die Sets (3/32", 1/8", 5/32", 3/16", 7/32" & 1/4") & Fitted Plastic Case

Part Number	Description
04-5	Complete Kit
04-5S	Complete Kit (economy model)
04-5K	Bench Mounting Base

Replacement Punch & Die Sets	
Part Number	Size
38-098	#40
38-129	#30
38-159	#21
38-194	#10
38-5094	3/32"

Replacement Punch & Die Sets	
Part Number	Size
38-5125	1/8"
38-5156	5/32"
38-5188	3/16"
38-5250	1/4"
38-2812	9/32"



04-2222

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") & Fitted Plastic Case

Part Number	Description
04-2222	Complete Kit
04-2222K	Bench Mounting Base

Replacement Punch & Die Sets	
Part Number	Size
38-6094	3/32"
38-6125	1/8"
38-6156	5/32"

Replacement Punch & Die Sets	
Part Number	Size
38-6188	3/16"
38-6250	1/4"

NOXON® Combo Prick Punch & Center Punch

Precision Spot Marking



- Designed with the professional metalworker in mind.
- Prick punch creates slight indentations for precision marking.
- Center punch creates deep indentations for pilot holes.

Part Number	Weight	Overall Length
70234	1.7 oz (48.2 g)	5-1/4" (133 mm)

Pocket Automatic Center Punch



- Slim design for better visibility.
- Can be adjusted for light or heavy strokes.

Part Number	Description
61-860	Tool with Centering Point

Automatic Center Punches



- Spring-loaded operation is adjustable for light or heavy strokes.
- Ground & hardened replaceable point.

Part Number	Body Type	Overall Length
70231	Steel	5" (127 mm)
70440	Aluminum	5" (127 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
ACRR02	5/16" Cold Chisel & H.S.S. Center Punch

SPI® Fine Optical Center Punch*High Accuracy Center
Punching Made Simple*

- 9X magnification spotting lens with center dot and circle.
- Solid, precision guide base with scratch protection.
- Ground center punch made of hardened tool steel.
- Includes fitted case.



Part Number	Accuracy
14517	0.002"

Hand Punch Sets

- 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 No.	Point Sizes Included
61-14085	1/16", 5/64", 3/32", 9/64" & 5/32"

8 PC Drive Pin Set, 4" Overall Length

Part No.	Point Sizes Included
61-14086	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 No.	Point Sizes Included
61-14087	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
61-74AA	1/16"	3-1/16" (78 mm)
61-74A	5/64"	3-19/32" (91 mm)
61-74B	3/32"	3-7/8" (98 mm)
61-74C	9/64"	4" (102 mm)
61-74D	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'
61-75A	1/16"	3/4" (19 mm)
61-75B	3/32"	
61-75C	1/8"	
61-75D	5/32"	
61-75E	3/16"	1" (25 mm)
61-75F	7/32"	
61-75G	1/4"	
61-75H	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'
61-76A	1/8"	3-1/2" (89 mm)
61-76B	3/16"	
61-76C	1/4"	
61-76D	5/16"	
61-76E	3/8"	

PUNCH & CUTTING TOOLS

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.

61-18108



Part Number	Description	Sizes Included
61-18108	108 PC Set	1/8" to 21/32" (x 32nds)
61-1111	66 PC Set	11/16" to 1" (x 32nds)

Duplicating Punches

Tight Tolerance Hole Duplication



AT507-10

- Accurately center punch hole location from one sheet to another.
- Manufactured from heat-treated, oil hardened drill rod.

Part Number	Punch Size	Overall Length
AT507-1	3/32"	3-1/2" (89 mm)
AT507-2	#40	3-1/2" (89 mm)
AT507-3	1/8"	3-1/2" (89 mm)
AT507-4	#30	3-1/2" (89 mm)
AT507-10	1/4"	3-1/2" (89 mm)
AT507-11	5/16"	3-1/2" (89 mm)



AT507KT

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
AT507KT	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.



61-50728

Part No.	Type	Point Sizes Included
61-50728	28 PC Fractional	3/32" to 1/2" (x 64ths) & 17/32"
61-50733	33 PC Fractional	1/2" to 1" (x 64ths)
61-50725	25 PC Metric	1.0 to 13.0 mm (x .5 mm)
61-50726	26 PC Letter	A to Z
61-50760	60 PC Wire Gauge	#1 to #60

Cold Chisels

Heavy-Duty Industrial Grade

70746

- For cutting, shaping and removing metal softer than the cutting edge of the chisel.
- Works great with the punch & chisel holder shown below.

Part Number	Stock Size	Blade Width	Overall Length
70746	7/16"	1/2"	6" (15.2 cm)
70747	7/8"	1"	8" (20.3 cm)

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
28449	0 to 1-1/2" (0 to 38 mm)