

TOOLS

RAZOR BLADES SINGLE EDGE

Box of 100 used for trimming rough edges of laminates



DESCRIPTION	PART NUMBER	PRICE EACH
Box 100 - blades	RAZ-1	5.99

STRAIGHT EDGE

Kiln-dried spruce board used for checking the straightness of flying surfaces during composite construction.



DESCRIPTION	PART NUMBER	PRICE EACH
3/4" x 3-1/2" x 6' board	T100-001	20.00

DECIMAL TAPE MEASURE

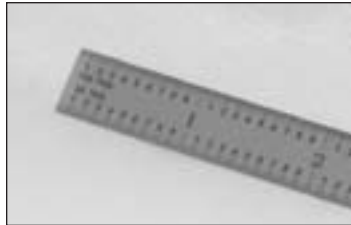
This 12' steel tape measure, with 1/2" blade, is graduated in 10ths and 100ths. Very handy for all aircraft construction.



DESCRIPTION	PART NUMBER	PRICE EACH
12 ft tape measure	61-112	16.82

FLEXIBLE STEEL RULE

12 inches long by 1/2 inch wide, this flexible steel ruler has graduations of 32nd and 64th on one side, 50th and 100th on reverse. Ultra fine black printing on chrome finish.



DESCRIPTION	PART NUMBER	PRICE EACH
Flexible steel ruler	1246	12.99

THREAD MEASURING GUIDE & TOOL KIT

Used for measuring tube and pipe fittings, this handy kit includes a thread gauge (American and Metric) an inside/outside caliper (inches and millimeters) and 2 seat angle gauges a 37°/45° and a 12°/30°. Included in the carrying case is a 24 page instruction and fitting identification booklet



DESCRIPTION	PART NUMBER	PRICE EACH
Measuring guide & tool kit	TA-1002	68.72

6" CALIPER

Black face, white markings and orange hand make these calipers easy to read. Continuous dial reads 0-100. Caliper has adjustable zero setting, super smooth slide lock, with beam scale chrome plated. 4-way measurement - inside, outside, step and depth. Knurled thumb roll.



DESCRIPTION	PART NUMBER	PRICE EACH
6" Caliper	610-5027	23.90

NORTON BUTYL GLOVES

Exhibit the highest permeation resistance to gas and water vapor of any glove compound available today. Ideal for use in ketones and esters, polyesters and epoxies. Glove Set: 14" smooth butyl glove set with cotton liners. Meets mil spec MIL-G-43976 for chemical protection. Order in small, medium or large set. Manufactured by Norton Brunswick.



DESCRIPTION	PART NUMBER	PRICE EACH
Small pair gloves with liner	BG-S	9.95
Large pair gloves with liner	BG-L	9.95

NITRILE GLOVES

Textured and lightly powdered on inside, gloves are intended for industrial use only. Ideal for people with allergic reactions to rubber latex. Offer good hand protection from solvents, fluids, grease, oils, and grime. Do NOT use for protection in flammable or explosive atmosphere. Box of 100 only.



DESCRIPTION	PART NUMBER	PRICE EACH
Large size gloves 100 per box	NIT-GLOVE-L	8.99
Extra large size gloves 100 per box	NIT-GLOVE-XL	8.99

VINYL GLOVES

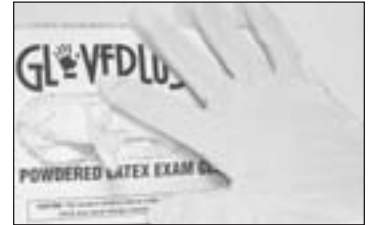
5 mil thickness-clear vinyl gloves. 100 per box. Available in large and extra large sizes.



DESCRIPTION	PART NUMBER	PRICE EACH
Large Vinyl gloves 100 per box	0505	4.25
Extra large vinyl gloves 100 p/box	0506XL	4.25

LATEX GLOVES

Durable gloves resist tearing.



DESCRIPTION	PART NUMBER	PRICE EACH
Latex gloves 100 per box	0502	4.65 box

TOOLS

DISPOSABLE RESPIRATOR

The no hassle disposable respirator features low breathing resistance, perspiration port and is completely assembled for use. Mask has a soft pliable face piece with rolled edge sealing flange. The low nosepiece allows for compatibility with eyewear. The unique sliding suspension make donning a snap. TC approved against organic vapors, paint, lacquer and enamel, dusts, mists and pesticides. Is not rated for isocyanate.



DESCRIPTION	PART NUMBER	PRICE EACH
Mask	WIL2211	22.35
Replacement parts:		
Filter retainer	WILRP78	2.15
prefilter (2 per pack)	WILT10	2.25

HOBBYAIR RESPIRATOR

Fresh air breathing system designed to deliver fresh safe air at an affordable cost to the nonprofessional painter. System 1 includes 1/3 hp two stage, single speed, air bypass motor, half face mask, with a beltline hook, 40 feet of hose, filter, cord and case. 110 volt.



DESCRIPTION	PART NUMBER	PRICE EACH
Fresh air respirator	HB01	375.00

PAINT & AIR SYSTEM - CITATION

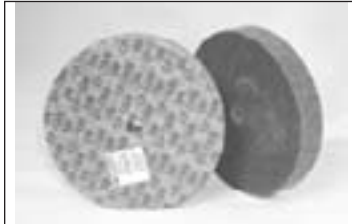
Citation 240 system includes two twin turbine air blowers in one case. Respirator system: motor - two stage, single speed 120 volts; half face mask of neoprene rubber with adjustable straps, 40 ft of kink resistant respirator hose with brass couplings. Sprayer system: motor- three stage , single speed 120 volts, Spray gun - all metal bottom feed uses 5 psi inbound air pressure can spray most coatings or finishes, 40 ft of 3/4 id pvc heavy duty hose with brass fittings, quick disconnect, wire strain protector and manual shut off valve.



DESCRIPTION	PART NUMBER	PRICE EACH
Breather /Sprayer System	CIT-240	932.48

CUT & POLISH WHEEL

3mm Scotch-brite cut and polish unitized wheel. Made of compressed and bonded Scotch-brite web. 7a medium grade. 6" diameter x 1" thick with 1/2" center hole.



DESCRIPTION	PART NUMBER	PRICE EACH
7a medium grade wheel	F3753	60.76

SANDPAPER-DRY

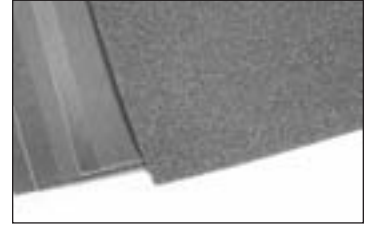
36 grit dry paper effective for sanding fiberglass and epoxy surfaces.



DESCRIPTION	PART NUMBER	PRICE EACH
36 grit - dry per sheet	02119	1.45

SANDPAPER - WET/DRY

100 to 2000 grit sandpaper.



DESCRIPTION	PART NUMBER	PRICE EACH
100 grit	11-30-10	1.69
220 grit	11-30-22	1.25
240 grit	11-30-24	1.15
280 grit	11-30-28	1.35
320 grit	11-30-32	1.25
400 grit	11-30-40	1.25
600 grit	11-30-60	1.47
1000 grit	11-30-100	1.99
1500 grit	11-30-150	2.12
2000 grit	11-30-200	2.22

QUICK CHANGE DISC HOLDERS-TURN ON

1/4" shank size fits most die grinder or drill motors. The latest abrasive technology allows you to change disc in one turn motion.

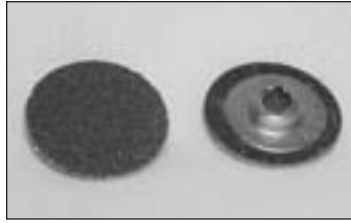


DESCRIPTION	PART NUMBER	PRICE EACH
3/4"	TP378	13.17
1"	TP379	13.17
1-1/2"	TP380	15.87
2"	TP381	15.87
3"	TP382	21.26

TOOLS

QUICK CHANGE DISC

2 ply aluminum oxide style. 25 discs per unit.



DIA.	GRIT	PART NUMBER	PRICE EACH
3/4"	60	TP378A	10.74
3/4"	80	TP378B	11.95
3/4"	100	TP378C	11.74
1"	60	TP379A	11.74
1"	80	TP379B	11.74
1"	100	TP379C	11.74
1-1/2"	60	TP380A	15.86
1-1/2"	80	TP380B	13.50
1-1/2"	100	TP380C	13.49
2"	60	TP381A	16.55
2"	80	TP381B	16.55
2"	100	TP381C	16.55
3"	40	TP382AA	21.90
3"	60	TP382A	20.75
3"	80	TP382B	21.90

PERMAGRIT TOOLS HAND TOOLS

Ideal for use on woods, plastics, all composites, fiberglass, brick, stone, foam, ceramics and glass. Made of tungsten carbide will last for years without losing cutting edge. Hardest materials next to diamonds, cleans easily with any solvent. Variety of sections and sizes with 2 grit grades for sanding or shaping. Ideal for wing building, fuselage shaping, door and window openings, arches and curves.



DESCRIPTION	PART NUMBER	PRICE EACH
COARSE KIT: 8 shapes F-101, F-102, R-200C, R-201C, R-202C, R-203C R-204C, S-204C	SET8C	52.97
FINE KIT - 8 shapes F-101, F-102, R-200F, R-201F, R-202F, R-203F, R-204F, S-204F	SET8F	52.99

FLAT FILES

Flat files available in fine or coarse. Size: 230 mm x 38 mm.



DESCRIPTION	PART NUMBER	PRICE EACH
Fine	F-101	7.50
Coarse	F-102	7.50

ROUND FILES

Round files available in fine or coarse. Size: 35 mm diameter x 230 mm.



DESCRIPTION	PART NUMBER	PRICE EACH
Fine	R-200C	7.50
Coarse	R-200F	7.50

TANGENT FILES

Tangent files available in fine or coarse. Size: 230mm x 38mm.



DESCRIPTION	PART NUMBER	PRICE EACH
Fine	R-201F	7.50
Coarse	R-201C	7.50

TUBE FILES

Tube files available in fine or coarse. Size: 12 mm or 18mm diameter.



DESCRIPTION	PART NUMBER	PRICE EACH
18 mm fine	R-202F	7.50
18 mm coarse	R-202C	8.00
12 mm fine	R-203F	7.50

ROUND FILES

Tube files available in fine or coarse. Size: 6 mm



DESCRIPTION	PART NUMBER	PRICE EACH
6 mm fine	R-204F	7.50
6 mm coarse	R-204C	7.50

SQUARE FILES

Square files available in fine or coarse. Size: 6 mm



DESCRIPTION	PART NUMBER	PRICE EACH
6 mm fine	S-204F	9.58
6 mm coarse	S-204C	9.58

TOOLS

INTERNAL FILES

Internal files available in fine or coarse. Size: 230mm x 38 mm



DESCRIPTION	PART NUMBER	PRICE EACH
6 mm fine	R-101	7.50
6 mm coarse	R-102	7.50

SANDING STRIPS

One of the most popular and versatile tools, light and easy to handle makes them ideal for any project. Perfect for sanding large areas, making accurate right angles, profiling leading and trailing edges and setting dihedral angles.

The block range is supplemented by thin rigid strips and flexible sheets, which can be cut and shaped to any form, internal or external.



DESCRIPTION	GRIT	PART NUMBER	PRICE EACH
Flexible strip	Coarse	FXT-104	7.50
51 mm x 280 mm	Fine	FXT-103	7.50
Flexible strip	Coarse	FXT-107	7.50
51mm x 140 mm	Fine	FXT-106	7.50

SANDING BLOCK

Sanding blocks available in different sizes. One side is coarse the other side fine.



DESCRIPTION	PART NUMBER	PRICE EACH
Sanding block 140 mm x 51 mm	SB140	16.98
Sanding block 280 mm x 51 mm	SB280	23.76
Sanding block 560 mm x 51 mm	SB560	37.85
Sanding block 840mm x 51mm	SB840	49.99
45 DEGREE		
Sanding block 140mm x 51mm	WB140	15.98

NEEDLE FILES

Range of 5 files, together with Swiss handle, form an extremely versatile set of shaping and finishing tools. Flat, square and triangular files with handles.



DESCRIPTION	PART NUMBER	PRICE EACH
Set of 5	NF1H	37.00

ROUND FILE

Round, smooth cutting and untempered file. 8" long in 2 diameters.



DESCRIPTION	PART NUMBER	PRICE EACH
1/4" diameter	F4246A3	3.44
3/8" diameter	F4246A6	5.12

VIXEN FILE-10"

10" file versatile enough to be used for a variety of manufacturing and industrial applications. The extremely sharp edges of each tooth results in faster cutting and longer life. Made in USA.



DESCRIPTION	PART NUMBER	PRICE EACH
10" FILE	VX10	36.97

ROTARIES & CUTTING DISCS

Come with standard 3mm integral arbor, so they can be used with reversible drive tools such as Minicraft, Dremel and Flexi-drives. 2 grit grades allow user to cut, rout and shape a wide range of materials without need of secondary finishing. Range is completed by 2 sizes of cutting discs that will cut the toughest of materials from piano wire, fiberglass, ceramics and high speed steel.



TOOL DESCRIPTION	GRIT	PART NUMBER	PRICE EACH
Rotary	Coarse	RF1C	8.50
Narrow Cone	Fine	RF1F	8.50
Rotary	Coarse	RF2C	8.50
Wide Cone	Fine	RF2F	8.50
	Coarse	RF3C	8.50
Drum	Fine	RF3F	8.50
	Coarse	RF4C	8.50
Pancake	Fine	RF4F	8.52
	Coarse	RF5C	8.50
Domehead	Fine	RF5F	8.50
1/8" Dia. Rod	Coarse	RF6C	8.50

ROTARY CUTTING DISCS

RD series with a gritted tungsten carbide edge and stainless steel shaft, these mighty little blades will cut anything from piano wire to fiberglass and ceramics.

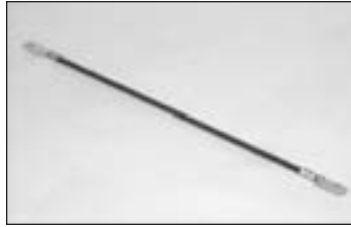


DESCRIPTION	PART NUMBER	PRICE EACH
19mm dia disc w/arbor	RD1	7.48
32mm dia disc w/arbor	RD2	9.99
19 & 32 mm disc w/arbor	RD3	17.00

TOOLS

SAW BLADES

Gritted saw blades for standard hacksaws and 6" and 12" rodsaws are virtually unbreakable and will cut anything really tough. Materials easily cut for the first time include ceramics, bricks, stone and metals. Jaggy materials like fiberglass pose no problems. The hacksaws are ideal for straight cutting, the rodsaw for awkward shapes and cable runs.



DESCRIPTION	PART NUMBER	PRICE EACH
6" Rodsaw 152 mm	RS6	6.50
Junior 12" Rodsaw 305 mm	RS12	5.99
Hacksaw 12" 305 mm	HS12	6.75

NICOPRESS TOOL

Inexpensive hand tool useful for a limited number of swages. **Comes complete with go-no-go gauge.** Swages 1/16", 3/32" and 1/8" cable. For copper and aluminum oval sleeves only. NOT for zinc plated copper.



DESCRIPTION	PART NUMBER	PRICE EACH
Hand swage tool with gauge	HST-2	17.78
Go-no-go gauge	NG54-11	6.25

NICOPRESS TOOL

4 GROOVE Tool has four compression grooves in head. Swages oval sleeves on 1/16", 3/32", 1/8" and 5/32" cable. Length 20". Weight 5 lbs. Replacement jaws available.

5 GROOVE - swages oval sleeves from 1/16" - 3/16". Length 26", Weight 6.5 lbs.

For copper, aluminum & zinc plated copper.



DESCRIPTION	PART NUMBER	PRICE EACH
4 Groove Tool	64CGMP	215.07
5 Groove Tool	S2632H	158.00
Gauge	NG-2930	26.74
Replacement jaws for 5 groove only	BH2632-05	64.28

TUBE BENDER "IMP" TRIPLE HEAD

1/8, 3/16, 1/4 For bending soft copper, aluminum, brass, steel, stainless steel and other metals. Innovative multi-tube size design does the work of three conventional lever-type benders. Calibrated markings for making accurate left hand, right-hand, and offset bends. 90° start requires less effort - makes bending fast and easy. Wide, fixed hook simplifies operation, holds tubing securely. Open side - slips on tubing at any point. Attractive black and chrome finish. "Imp Triple Header Tube Bender for 1/8, 3/16, and 1/4" O.D. tubing. (3, 4, 6mm O.D.) Wt. 5 oz. (9/16" radius to center of tube.)



DESCRIPTION	PART NUMBER	PRICE EACH
1/8-1/4 bender	367-FH	36.00

TUBE BENDER "IMP" TRIPLE HEADER

1/4, 5/16, 3/8 Same as 367-FH, but bends larger tubing. "Imp Triple Header Tube Bender for 1/4, 5/16, and 3/8" O.D. tubing. (6, 8mm O.D.) (11/16" radius to center of tube.) Wt. 12 oz.



DESCRIPTION	PART NUMBER	PRICE EACH
1/4-3/8 bender	368-FH	36.00

TUBE BENDERS SPRING TYPE

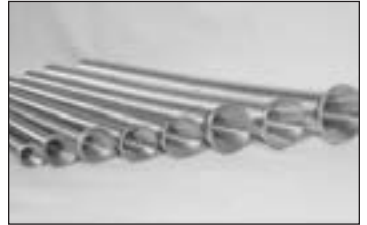
SET OF 8- Budget priced tools for hand bending soft tubing to any shape without collapsing walls. Special spring steel, nickel finished. End belled for quick tube removal. Bends the following O.D. tubing: 1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 7/8, 3/4. Wt: 1 lb. 14 oz.



DESCRIPTION	PART NUMBER	PRICE EACH
Spring bender set of 8	201-F	28.99 set

BENDERS INDIVIDUAL SPRING

Eliminate crimping and collapsing of copper and other thin wall tubing. Individual sizes by General. Made of oil hardened and tempered spring steel. Measure by tube OD size.



TUBE OD	PART NUMBER	PRICE EACH
1/4" tube od	100-1/4	4.55
5/16" tube od	100-5/16	2.80
3/8" tube od	100-3/8	4.55
7/16" tube od	100-7/16	3.90
1/2" tube od	100-1/2	3.99
5/8" tube od	100-5/8	4.68
3/4" tube od	100-3/4	4.50
7/8" tube od	100-7/8	5.99

ROD BENDER

Bends metal to any shape and degree of angle using dies for 1/2", 3/4" 1", 1-1/4" and 1-1/2" radius bends by mounting in vice. Ideal for making bends in materials up to 3/8" round and square (1/2" wide flat). Base: 1" x 3" x 3", Handle: 7/8" x 12". Dies included.



DESCRIPTION	PART NUMBER	PRICE EACH
Rod bender	MR-01	33.90

TOOLS

OL' JOINT JIGGER

Simple and reliable, this joint jigger quickly and accurately notches 4130, stainless steel, or other tubing and pipe up to 2" diameter. Its design allows it to both clamp the tubing in place and feed the saw smoothly into the work. Its hardened steel arbor accepts any bi-metal, high-speed hole saw from 9/16" to 2" (**not included**)

Back plate can be anchored to benchtop by clamps, bolts or vice and features an engraved graduated protractor for notches up to 60 degrees. Requires a 1/2" chuck hand drill. Industrial quality steel back plate.



DESCRIPTION	PART NUMBER	PRICE EACH
Joint jigger	RTN100	149.99

37° ROLO-FLAIR AIRCRAFT FLARING TOOL

For easy, precise, blemish free flaring of copper, soft steel, and aluminum outside diameters 1/8", 3/16", 1/4", 5/16", 3/8", 1/2", 5/8" and 3/4". Exact tube insertion height is controlled automatically resulting in perfect 37° burrished flares every time.



DESCRIPTION	PART NUMBER	PRICE EACH
Flair tool	212-FB	90.42
Replacement Cone	642700	20.78

SPRING CLAMP

Use for holding fabric in place prior to glueing or holding several pieces of sheet metal or wood together. Poly-vinyl jaw tips protect work area. 2" reach.



DESCRIPTION	PART NUMBER	PRICE EACH
Clamp	3202-HT	5.78

6" CLAMP

6" locking clamp with swivel pads. Jaw adjustment 0" to 2-1/8" and throat depth is 1-1/2".



DESCRIPTION	PART NUMBER	PRICE EACH
Clamp - 6"	6CLAMP	13.95

HI-DUTY TUBE CUTTER

For hard or soft copper, aluminum, brass, thin wall steel, stainless steel, monel, titanium and other tubing. Makes clean, rightangle cuts with no burrs or chips to clog tubing. Roller type with flare cutoff groove, fold away reamer and spare cutting wheel. Rugged aluminum alloy body designed for handling ease. Has satin finish nickel-chrome plated body, polished handle. 1/4" to 1-5/8" od soft tubing 7-41mm. 1-8" to 1-1/2" od hard tubing. Length 4-15/16" Wt. 6-1/2 oz.



DESCRIPTION	PART NUMBER	PRICE EACH
Tube cutter	312-FB	44.10
Replacement cutting wheel	75015	6.15

IMP TUBE CUTTER

Designed for use in tight quarters where other cutters won't fit. Requires only 1-1/4" swing radius. Perfect for instrument panels, control cabinets, refrigeration units, cold boxes, freezers, air conditioning, heating units, machine tools, etc. Satin finish. Cuts 1/8 to 5/8" (4-15mm) O.D. tubing. (1/8 to 1/2" nom.) Size 1-11/16 x 1-5/16 x 7/8". Wt. 2-1/2 oz.



DESCRIPTION	PART NUMBER	PRICE EACH
Tube cutter	127-FB	15.50

TUBING BEADING TOOL

Creates a properly positioned and perfectly radiused bead on aluminum tubing. Allows flexible tubing or rubber hose to be clamped onto rigid aluminum tubing. For wall thickness: .035 to .065.



ALUMINUM TUBING O.D.	PART NUMBER	PRICE EACH
3/8"	BDR375	27.31
1/2"	BDR500	28.57
5/8"	BDR625	33.45
3/4"	BDR750	42.05
1"	BDR1000	49.57

TOOLS

COUNTERSINK AND PILOT CUTTERS

Fits any 1/4" chuck air or electrical drill.

1/4 x 28 female thread accepts rivet pilot. Cutter has fixed nose for cutting accuracy. 1/4 x 28 thread. Available in 100° or 120° in 12, 21, 30, or 40. Used with above micro stop countersink. Body diameter 7/16" - 3 flutes. Countersink & cutters sold separately. NOTE: Cannot be used for steel - only aluminum and soft metals.



CUTTER	DEGREE	SIZE	PART NUMBER	PRICE EACH
Countersink			ATS-133	25.81
12 - 3/16"	100°	#10	ATS-100-12	8.94
21 - 5/32"	100°	#8	ATS-100-21	8.94
21 - 5/32"	120°	#8	ATS-120-21	25.42
30 - 1/8"	100°	#6	ATS-100-30	8.94
30 - 1/8"	120°	#6	ATS-120-30	25.42
40 - 3/32"	100°	#4	ATS-100-40	9.84
40 - 3/32"	120°	#4	ATS-120-40	26.40

STRAP DUPLICATORS

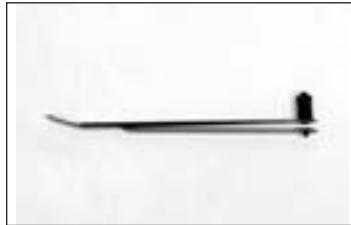
Punch type comes with hardened marking pin. Permits the marking of sheet stock from a hidden pilot hole. Throat depth is 8".



SIZE	INCHES	PART NUMBER	PRICE EACH
40	3/32"	ATS-5140	15.68
30	1/8"	ATS-5230	15.68
21	5/32"	ATS-5321	15.69
10	3/16"	ATS-5510	15.54

STRAP DUPLICATORS PUNCH

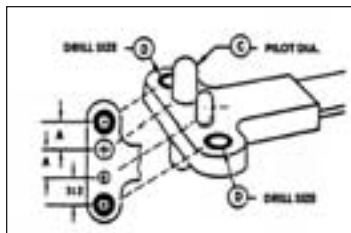
Punch Strap Duplicators. #30 and #40 Bushings



DESCRIPTION	PART NUMBER	PRICE
#30 PUNCH BUSHING	PPT30	9.69
#40 PUNCH BUSHING	PPT40	9.69

PLATE NUT DRILL JIGS

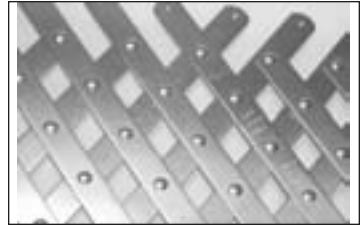
Designed for accurate drilling of rivet holes for plate nuts. Flexible handle design to provide hand clearance when jig is in use. One style used for both one and two lug plate nuts Fits # 40 drill size. #440 fits only MS21051-4 nut.



OR BOLT SIZE	A	C	PART NUMBER	PRICE EACH
632	.344	.139	ATS-518-6	48.94
832	.344	.164	ATS-518-8	48.94
1032	.344	.191	ATS-518-10	48.94
1/4"	.344	.248	ATS-518-25	44.93

EQUAL SPACING TOOL

For locating and quickly marking hole patterns by extending and shortening tool. Used for rivets, screws, bolts, camlocs, templates etc. Stainless steel construction.



DESCRIPTION	PART NUMBER	PRICE EACH
Equal spacing bar	EST-1	36.50

SHEET BACK MARKERS

Back markers are used to locate pre-drilled holes in wing ribs, wing skins fuel tank covers, panels, etc. for riveting purposes. Especially useful for riveting skin to wing ribs. Step 1: Drill proper hole size in rib, drop in back marker carefully positioning in the skin, tap with soft hammer creating perfectly centered marks. Turn the skin over, drill out marks and you are ready to rivet. Available in 7 sizes.



SCREW SIZE	HEAD DIAMETER	SHANK DIA	SHANK LENGTH	PART NUMBER	PRICE EACH
3/32" hole	3/8"	.093	1/2"	JT-5	1.05
6-32 thread	3/8"	.102	13/16"	JT-6	1.05
8-32 thread	3/8"	.128	13/16"	JT-8	1.05
10-32 thread	3/8"	.154	13/16"	JT-10	0.99
1/4-28 thread	1/2"	.209	13/16"	JT-416	1.10
5/16-24 thread	1/2"	.265	13/16"	JT-516	1.15
3/8-24 thread	5/8"	.327	13/16"	JT-616	1.05

THREADED RIVNUT BACK MARKER

Rivnut back markers are used in the same manner as the standard back markers, except they have threaded shanks and hex-shaped heads for screwing them into rivnuts for hole marking purposes.



SIZE	PART NUMBER	PRICE EACH
8-32 rivnut back marker	JTA-8	1.05
10-32 rivnut back marker	JTA-10	1.05

CLECO PLIERS

Holds sheet metal together for riveting by using these pliers and sheet holders. These pliers grip and operate all standard sizes of sheet holders (clecos). Made of die cast Zamak alloy with steel inserts at all points of wear. For use with sheet holders listed below.



DESCRIPTION	PART NUMBER	PRICE EACH
Pliers	200-SHP	6.89

SHEET HOLDERS

Holds sheet metal together for riveting. Completely enclosed spring. Use with sheet holder pliers #200-SHP. Color coded as to size. Grip is 0" - 1/4".



HOLE SIZE	COLOR	PART NUMBER	PRICE EA
3/32"	Silver	AT551X	0.51
1/8"	Copper	AT552X	0.50
5/32"	Black	AT553X	0.53
3/16"	Gold	AT554X	0.53

TOOLS

SIDE GRIP FASTENERS

1" reach with 0-3/4" capacity. Used where no holes are provided as on bonded, glued, or laminated sheets.



DESCRIPTION	PART NUMBER	PRICE EACH
Fastener	26-EL	3.85

DRILL GAUGES

Gauges are used to quickly identify drill sizes. Made of heavy gauge heat treated steel and machined to close tolerances, the hole sizes and decimal equivalents are permanently etched into the metal.



TYPE	HOLES	PART NUMBER	PRICE EACH
Fractional	29	ATSP005	11.41
Number	60	ATSP010	13.96
Letter	20	ATSP020	13.96

CAMLOC STUD INSTALLATION PLIERS

For use with stud series 2600, 2700, and 4002, simply compress stud spring, insert stud into panel and release.



DESCRIPTION	PART NUMBER	PRICE EACH
Camloc pliers	4P3	29.75

FELCO CABLE CUTTER

C7 cuts 3/16" and smaller cable. C9 cuts 1/4" cable including steel. Great for cutting control cable. Does not leave frayed ends. Manufactured in Switzerland. 2 sizes: 8" length weighs 10 oz, 13" length weighs 1.5 lbs.



DESCRIPTION	PART NUMBER	PRICE EACH
8" cutter cuts to 3/16"	C7	69.96

CABLE CUTTER

"US Made". Cuts 3/16" and smaller cable. Does not leave frayed ends. Great for cutting control cable. Length: 8", weight: 5-1/2 oz.



DESCRIPTION	PART NUMBER	PRICE EACH
Cable cutter	C632	28.62

COUNTERSINK THREE FLUTE

HIGH SPEED STEEL Three-flute countersinks are comparatively free cutting and should be operated at slower speeds. These tools have been engineered to give chatter-free performance in chamfering, countersinking, and deburring operations. Body diameter is 3/8", shank diameter 1/4", length 1-3/4".



DESCRIPTION	PART NUMBER	PRICE EACH
82°	1003-82	8.92
100°	1003-100	13.67
120°	1003-120	11.00

CENTER IT V-BLOCK PIPE DRILL

Center It enables drilling pipe and other round objects. The V-block bolts to the drill press table and enables the drilling of round pieces parallel and centered. 7/16" groove with 118 degree angle lets you bottom drill bit to center v-block and bolt in place. V-block is 5" long X 4" wide X 1-3/4" high. The V-block lets you drill any sizes of pipe and wood dowels for many more perfect projects. The grooves on the outer sides eliminates slippage while holding pipes on tables, etc., for sawing pipe on job sites or other applications.



DESCRIPTION	PART NUMBER	PRICE EACH
CENTER IT V-BLOCK PIPE DRILL	CI-1	13.85

ANGLE DRILL ATTACHMENT

Quickly connect to any drill chuck makes a convenient inexpensive close quarter tool. Female spindle thread in 5/16-24, 1/4-28, 10-32. 1/4" capacity. Kit available has everything needed in one convenient metal box. Contains drill attachment ADA-2, gear lubricator, gear lube, 1 ea: #40, #21, #30, #10 and repair parts list.



DESCRIPTION	PART NUMBER	PRICE EACH
1/4-28 thread	ADA-2	113.39

HEAD SAFETYWIRE DRILL JIG

Designed for drilling through heads of bolts and nuts up to 3/4" diameter. Use 3/64" diameter drill bit TP 54 or TP364 sold separately



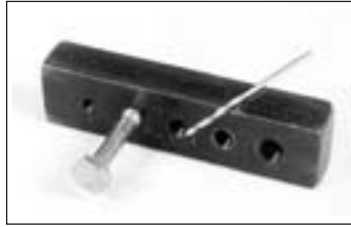
HOLES IN	PART NUMBER	PRICE
HEAD	TP-402	30.59

TOOLS

SHANK SAFETYWIRE DRILL JIG

Designed to enable safety wire holes to be drilled accurately through bolts without drill breakage. Bolt is threaded to the required depth, then the hole is drilled through on a perfect center. All steel construction. Fits bolt sizes 8-32, 10-32, 1/4-20, 1/4-28, and 5/16-24.

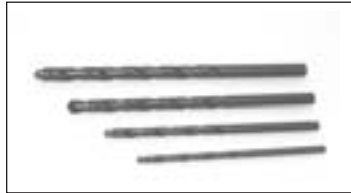
Use 3/64 drill bit part number TP54 or TP364 drill bits sold separately.



HOLES IN SHANK	PART NUMBER	PRICE
	TP401	27.99

DRILL BITS AIRCRAFT JOBBERS

General purpose drill is suitable for a wide range of materials and applications including most medium to soft steels and most aluminum and magnesium alloys. Conforming to NAS907. Type A, this drill features a 118° split point to eliminate walking and is recommended to use in sheet metal and portable drilling attachments. Black oxide finish.



WIRE GAUGE	IN INCHES	FLUTE LENGTH	OVERAL LENGTH	PART NUMBER	PRICE EACH
40	.0980	1-3/8"	2-3/8"	988-40	1.66
29	.136	1-3/4"	2-7/8"	988-29	1.86
30	.1285	1-5/8"	2-3/4"	988-30	1.86
21	.1590	2-1/8"	3-1/4"	988-21	1.90
12	.890	2-5/16"	3-1/2"	988-12	2.52

DRILL BITS AIRCRAFT EXTENSIONS

Spring tempered shanks are available in 6" and 12" overall length. High speed steel 135° split point.



TOTAL LENGTH	WIRE GA.	DIA IN INCHES	FLUTE LENGTH	PART NUMBER	PRICE EACH
6" bit	40	.0980	1-3/8"	3917-6-40	2.90
6" bit	30	.1285	1-5/8"	3917-6-30	3.45
6" bit	21	.1590	2-1/8"	3917-6-21	3.76
6" bit	12	.1890	2-5/16"	3917-6-12	3.66
12" bit	40	.0960	1-5/8"	3917-12-40	4.10
12" bit	30	.1285	1-3/8"	3917-12-30	4.19
12" bit	21	.1590	2-3/16"	3917-12-21	8.72
12" bit	12	.1890	2-3/8"	3917-12-12	5.99
12" bit	3	.213	2-3/4"	3917-12-3	9.83

PLEXIGLASS CUTTER & DRILL BITS

Heavy duty, can also be used to cut formica, tempered masonite, tile board, printed circuit board and thin metals such as copper, etc. Can cut plexiglass sheets up to 1/4". No replacement blade is necessary if properly sharpened. Hanson drill bits are straight shanks and full jobbers length, especially ground point - 60° including tip angle, 0° rake, shoulder relined, prevents fractures, chipping or cracking.



SHANK DIA	DRILL DIA	PART NUMBER	PRICE EACH
1/8" drill shank	1/8"	DR125	2.95
3/16" drill shank	3/16"	DR187	3.99
1/4" drill shank	1/4"	DR250	4.98
1/4" drill shank	3/8"	DR375	10.42
Cutter		303ACT	8.80

DRILL RIVETING ATTACHMENT

Unique drill attachment easily converts any reversible 3/8" cordless, 14.4 v minimum battery, electric, or pneumatic drill into an efficient blind rivet gun. Ideal for small aircraft building and repair or other light and medium duty operations. Quickly attaches to drill in the same manner as a drill bit.

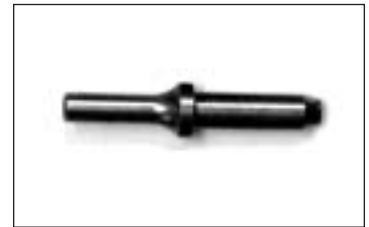
Has capacity to set any standard 1/8"-3/16" aluminum blind rivet. Includes 3 nose pieces: 1/8", 5/32", and 3/16". **DRILL & HARDWARE NOT INCLUDED**



DESCRIPTION	PART NUMBER	PRICE EACH
Rivet drill attachment	R110	54.49

RIVET TOOL SET

For universal head and flush style rivets. .401 shank. Fits all .401 rivet guns. You must purchase a flush set and then the rivet set size you need. Each rivet set is 3-1/2" long. Sizes 3/32", 1/8", 5/32" and 3/16" and 1/4" straight.



DESCRIPTION	PART NUMBER	PRICE EACH
Flush set	ATS750	8.99
3/32" rivet set	ATS4703-1	7.69
1/8" rivet set	ATS4703-2	7.89
5/32" rivet set	ATS4703-3	7.69
3/16" rivet set	ATS4703-4	7.40
1/4" rivet set	ATS4703-5	7.40

RIVET REMOVAL TOOL

To remove rivets, this tool uses a cupped drill guide to center drill bits on the head of MS20470 rivets. Drilling length is adjustable. Set includes 4 guides and drill bits for #3, 4, 5, and 6 rivet sizes.



DESCRIPTION	PART NUMBER	PRICE EACH
Rivet removal tool	RRT	40.00

HAND RIVET SQUEEZER

360° SWIVEL New design squeezer has a 360° swivel head for greater versatility. 5/8" adjustable ram eliminates the necessity for using shims to obtain the proper stroke. (1/2" stroke). Yoke locks in any position. Yokes can be interchanged on either the model 5011 or 5022. Simply buy one squeezer plus a second yoke, and you effectively have two squeezers in one. Longer handles give better leverage for a full 3/16" rivet capacity. Overall length of unit is 21 inches. Gap between jaws is approximately 1-1/4". Does not come with squeeze sets. Sets sold separately.



DESCRIPTION	PART NUMBER	PRICE EACH
1-1/2" yoke squeezer	5011	134.31
Replacement yoke for 1-1/2"	RS1009A	89.65
3" yoke squeezer	5022A	144.98
Replacement yoke for 3"	RS1008A	99.92

TOOLS

HAND RIVET SQUEEZER SWIVEL HEAD

360° SWIVEL Compound leverage develops 3,500 lbs of pressure and can easily squeeze 3/32, 1/8", 5/32", and 3/16" rivets. Also can be used with dimple dies. Adjustable ram, yoke swivels 360° and can be locked in any position. Overall length 19". Does not come with squeeze sets. Yoke has 2-1/2" reach, 1-5/8" gap. Sets sold separately.



DESCRIPTION	PART NUMBER	PRICE EACH
360° Squeezer	DA-2	389.99

HAND POP RIVET TOOL

Hand riveter offering advantages in ease of use and performance. Patented compound link design provides 30 to 1 ratio leverage with minimal friction for long life. Other features include jam free short nose, handle latch, and ergonomic soft-grip contoured handle with short stroke for one-hand operation. Wrench and 3/32", 1/8", 5/32", 3/16" nose pieces included.



DESCRIPTION	PART NUMBER	PRICE EACH
Pop hand riveter	PL30	34.75
REPLACEMENT JAW	PL30K2	10.49

RIVET SQUEEZER SET

Standard .187 shank, 3/32" through 3/16" and 2 flush sets.



DESCRIPTION	PART NUMBER	PRICE EACH
6 piece set	3456-2	26.75

BRAKE RIVET TOOL

Similar to the ATSW-403, but with threaded driver. Not for use with hard steel, rivets or pins.



DESCRIPTION	PART NUMBER	PRICE EACH
Tool	RA825	35.00

BRAKE RIVET TOOL

Reline aircraft brakes and general riveting with this machine steel tool. Comes complete with holding frame, anvil, and punch for removing and clinching rivets.



DESCRIPTION	PART NUMBER	PRICE EACH
Brake rivet tool	ATSW-403	20.33

RIVET CUTTER - RIV/KUT

Two hardened blades cut rivets of standard diameter from 3/32" to 3/16". Cuts clean and true without burrs. Adjustable leaves permit cutting of different lengths from 3/16" to 3/4" without use of vice.



DESCRIPTION	PART NUMBER	PRICE EACH
Rivet cutter	1300	15.99

120° DIMPLING TOOL

For up to .040 thick aluminum with 1/8" - 120° countersunk pop rivets. Tool attaches to G-28 hand pop rivet gun making dimpling foolproof, quick, and easy without cracking metal.



DESCRIPTION	PART NUMBER	PRICE EACH
Dimpling tool	DT-17014	7.99

DIMPLE DIE & RIVET SET

This 20 piece professional dimple and riveting set is ideal for any riveting project. All components are made from stainless steel, heat treated and hardened. Mounted in a hardwood block. FLUSH FLAT SET: 1 ea 3/8" diameter in 1/8", 1/4", 3/8", 1/2" lengths, 1 ea 1/2" diameter in 1/8", 3/16", 1/4", 3/8" lengths, 1 ea 1/8" An470-4 cup set in 1/8" and 1/4" lengths, 1 ea springback dimple dies in 3/32", 1/8", #632 and #832, 1 ea small female dies in 3/32" and 1/8" sizes.



DESCRIPTION	PART NUMBER	PRICE EACH
Dimple die & rivet set	DRS20	134.00

TOOLS

FLUSH SET

5 piece flush set contains 1/8", 3/16", 1/4", 3/8" and 1/2" lengths. All are 1/2" diameter and are made of stainless steel.



DESCRIPTION	PART NUMBER	PRICE EACH
5 piece flush set	FS-5	28.10

DIMPLE & DIE SETS 100°

New for dimpling 3/32" to 1/8" holes with a "pop" riveter. Forms a perfect dimple every time and can be used over and over.



DESCRIPTION	PART NUMBER	PRICE EACH
3/32" riveting	5102D-3/32	7.69
1/8" riveting	5102D-1/8	7.69

SPRING BACK DIMPLE DIE SETS

100° surgical stainless steel, heat treated and polished to micro finish, spring back dimple dies are dies that have a special angle machined on the faces of both dies. The male dimple die has a concave angle, and the female depth die has a convex angle. This angle causes the material being formed to bend slightly deeper during forming as the dies are pressed together and bottom out. After dimpling the surfaces "springs back" to a flat surface to give a better and smoother aerodynamic finish. Dies have a 1/2" body diameter and .187" shank.



DIMPLING SET	PART NUMBER	PRICE EACH
3/32" Rivet	DD-3/32	20.00
1/8" Rivet	DD-1/8	20.00
5/32" Rivet	DD-5/32	20.00
6-32 Screw	DD-632	20.00
8-32 Screw	DD-832	20.00

SHAVER BIT

Solid carbide tip for long life. 1/4 x 28 thread. Available in 5/16, 3/8, 7/16, 1/2 body sizes.



DESCRIPTION	PART NUMBER	PRICE EACH
5/16"	ATS-3000-516	36.40
3/8"	ATS-3000-38	34.36
7/16"	ATS-3000-716	30.95
1/2"	ATS-3000-12	35.92

ADJUSTABLE HOLE CUTTER

Cuts perfect holes from 2" to 12" diameter in 16 gauge metal and wood up to 1" thick. Ideal for inspection holes and instrument holes. Use an air or electric drill. Comes with cutter bit, replacements available.



DESCRIPTION	PART NUMBER	PRICE EACH
Hole cutter	ATS-HC1	57.90
Cutter bit	ATS-CB	10.74

LEZ COUNTERBORE

5/8" diameter boring tool, has 1/4" diameter pilot. This 10" threaded extension is used for boring holes in hard to reach places. Primary use is in the installation of the landing gear on the LongEz and Cozy aircraft. 3/4" bore does not have 1/4" pilot and must use the pilot received with the 5/8" boring tool.



DESCRIPTION	PART NUMBER	PRICE EACH
5/8" diameter with pilot	LEZ-5/8	53.03
3/4" diameter without pilot	LEZ-3/4	53.03

INSTRUMENT HOLE CUTTING JIG

Used for producing quick and accurate mounting holes for standard-sized aircraft instruments. Comes complete with locating circles for both 2-1/4 and 3-1/8" instruments. Drill jig is made of hardened steel for long life.



DESCRIPTION	PART NUMBER	PRICE EACH
Instrument jig	IJIG	28.87

BLAIR HOLE CUTTER

Set contains 7 blades from 1/4" to 5/8" arbor, pilot and holder. Each blade will cut over 3,000 holes in sheet metal. New blades thread onto arbor easily and the adjusting screw makes minute depth control of cuts possible. Depth rod determines the distance the retracting pin can recede and thereby adjusts to the depth of cut. Fits any 1/4" drill.



DESCRIPTION	PART NUMBER	PRICE EACH
Hole cutter	TP147	85.00

SPEEDY BURR 2

A good all around tool for deburring of outside corners, sheet metal, machined parts extrusions, castings and plastic parts. Comes with plastic-coated handle. Replacement burr tips are available.



DESCRIPTION	PART NUMBER	PRICE EACH
Speedy burr 2	SBR2	16.00
Replacement burr tip	SPR2-BT	16.00

TOOLS

DEBURRING TOOL

Swivel heavy duty aluminum handle deburring tool with 2 interchangeable blades. 5" handle with push thru blade release.



DESCRIPTION	PART NUMBER	PRICE EACH
Tool with 2 blades	DB-482	10.57
Blades for steel, copper, alum., plastic	DB-482A	3.99

DEBURRING TOOL

For faster, easier deburring which follows all shapes, holes and contours. The curved blade swivels freely and automatically, installs quickly. Seven blades (same size) included for steel and aluminum with tool, replacement blades available. TP266B, TP266F can rotate clockwise and counter-clockwise. TP266D removes internal and external burrs simultaneously from holes drilled into tubing and sheet metal. All seven blades for steel or aluminum.



DESCRIPTION	PART NUMBER	PRICE EACH
Tool TP266 w/ 7 blades	TP266	15.56
Replacement blades:		
Steel/Aluminum	TP266A	3.95
Internal/External	TP266D	4.42
Small holes: Steel/Aluminum	TP266E	3.95
Small holes: Brass/Cast Iron	TP266F	4.20

OFFSET CUTTING SNIPS

Offset blades allow cut material to flow unobstructed past blades and your hand. Excellent for notching, long cuts, circles, etc. 18 gauge capacity. Available in either left and straight or right and straight.



DESCRIPTION	PART NUMBER	PRICE EACH
left/straight	ATS-9L	18.50
right/straight	ATS-9R	18.50

WISS INDUSTRIAL SNIPS

Snips have 1-3/8" blade length and are 9-3/4" overall length. Blades a made of molybdenum steel, have compound actions and a safety latch. Handles are of high tensile strength alloy steel. Cuts up to 18 gauge. **M-1R** cuts left from tight curves to straight - red vinyl grips. **M-2R** cuts right from tight curves to straight - green vinyl grips. **M-3R** cuts straight - yellow vinyl grips.



DESCRIPTION	PART NUMBER	PRICE EACH
Left-straight	M-1R	24.73
Right-straight	M-2R	24.71
Straight	M-3R	24.71

COMBINATION SNIPS

14" long aluminum handled snip with heat treated cutlery grade replaceable steel blades for making straight and curved cuts in both directions. Capacities: aluminum .035, copper, .023, stainless .021, galvanized sheet metal .023. Cut length 3-1/4", weight 24 oz.



DESCRIPTION	PART NUMBER	PRICE EACH
Combination Snips	MC14	35.00

LAP JOINT JOGGLE TOOL

Hand held tool quickly and easily forms "joggles" in aluminum sheet allowing one part to smoothly overlap another. Especially useful for making lap joints, inspection hole joggles and "breaking" the edges on aluminum sheet up to .032 thickness. Joggle width and thickness adjusts easily. Tool features steel handle and ball bearings. Instructions included.



DESCRIPTION	PART NUMBER	PRICE EACH
Lap joint tool	LJ-TOOL	34.34

HAND SEAMER

Has wide, deep jaws machined for smooth parallel fit to form precise folds and seams. 1" deep x 3-1/2" wide throat. Weight: 1.8 lbs.



DESCRIPTION	PART NUMBER	PRICE EACH
Hand seamer	TP44	24.75

OFFSET HAND SEAMER

Offset design allows for additional leverage. 1-1/4" deep x 3-1/2" wide throat, made of cast aluminum. Weight: 1.4 lbs.

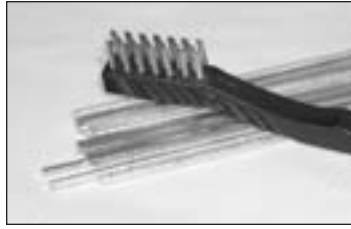


DESCRIPTION	PART NUMBER	PRICE EACH
Offset hand seamer	TP44-0	45.95

TOOLS

DRY ALUMINUM WELDING KIT

Unique do-it-yourself kit gives the homebuilder the opportunity to do small aluminum welding projects, using only a propane torch. (also MAPP gas or acetylene). The AlumiPro rods included offer excellent corrosion resistance, low working temperatures (732°F) super strength and low cost. Works on aluminum, galvanized, zinc-based and pot metals 1/32" to 3/8" thick. Kit includes approximately 1/2 lb of rods, brush and instructions.



DESCRIPTION	PART NUMBER	PRICE EACH
Aluminum welding kit	AP-201	12.50

HAND NIBBLING TOOL - ADEL

Hand operated, cut sheet metal like a punch and die. Ideal for templates, shims and radio chassis. Replacement punches available. Cutting capacity: Steel 18 gauge (.049)



DESCRIPTION	PART NUMBER	PRICE EACH
Aluminum 16 gauge (.0625) Tool	TP81	17.87
Replacement punch	TP81A	12.45

METAL BRAKE

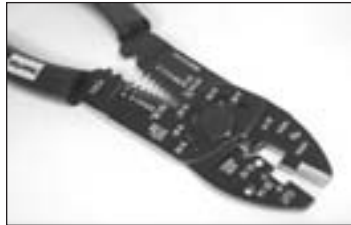
Simple bench mounted metal brake is ideal for small jobs. Available in 18" and 30" models. It bends and forms angles up to 90° in stock to 16 gauge thickness and 18" in width. Easily adjusts for stock thickness and sharpness of bends. Requires 2 -c-clamps. Shipping weight: 18" -4 lbs., 30" - 11 lbs.



DESCRIPTION	PART NUMBER	PRICE EACH
18" Bench mounted metal brake	MB-18	35.99
30" Bench mounted metal brake	MB-30	95.99

ELECTRICAL CRIMPING TOOL

For use in crimping solderless electrical terminals on to wire ends.



DESCRIPTION	PART NUMBER	PRICE EACH
Crimping tool	H2A	15.75

HOT WIRE VOLTAGE REGULATOR

This manually operated variable output regulator is perfect for controlling hot wire temperatures. Output varies from 1 to 130 volts. Input is 117 volts, 5 amps. Current rating applies over whole range of output voltage.



DESCRIPTION	PART NUMBER	PRICE EACH
Regulator	45-740	98.75

DUAL MAGNETO TIMING LIGHT

Using a LED readout and sound, this solid state device measure the change of inductance in the magneto coil when the points open or close, allowing you to properly adjust and synchronize the timing on all breaker point type magnetos. 4 ft leads and instructions included. Size of anodized aluminum case: 3/4" x 3" x 5". Weight: 9 oz. Uses one 9-volt battery not included.



DESCRIPTION	PART NUMBER	PRICE EACH
Dual magneto timing light	DMTL	\$45.95

NOTCH & BEND ALIGNER

Designed to attach to your new style smart tool module. This great new accessory assures precise axial alignment of notches and bends. Made of billet aluminum.



DESCRIPTION	PART NUMBER	PRICE EACH
Aligner	SMA-ALIGNER	\$59.95

SMART TOOL

Measures angles in 360° range with angle accuracy to 1/10 of a degree. Mode button lets you see angles in 3 ways: degrees, % of slope or pitch. Audible tone alerts you when tool reaches level or plumb. Hold button freezes angle measurement on display for easy conversion reading from one mode to another. Resets to factory accuracy with a touch of a button. Module is encased in high impact resistant ABS polymer case, sealed against dirt or water penetration. Fits into any standard rail. Automatic shut-off after 5 minutes. Uses 9 volt battery (not included). **RAIL:** Heavy gauge aluminum high impact resistant vials and covers for durability, can be adjusted, American 6000 brand series. Is similar to carpentry & construction magnetic levels but without the magnetic edge. Heaviest gauge I-beam. Impact resistant vials and vial covers for durability and long life. Endcaps help protect tool against drops and shocks. Fixed vials are hand set to working edge. Ideal for the carpenter.



DESCRIPTION	PART NUMBER	PRICE EACH
Smart tool module	SMA-2	125.00
24" Rail	PR2-24	19.50
48" Rail	PR2-48	28.27

ANGLE FINDER

Simply place angle finder vertically on any surface for instant, accurate reading. Use conversion chart (on back of angle finder) for determining pitch per inch and pitch per foot. Accurate to 1/2 of 1degree Made of tough durable plastic.



DESCRIPTION	PART NUMBER	PRICE EACH
Angle finder	AF200M	10.97

TOOLS

METER STICK

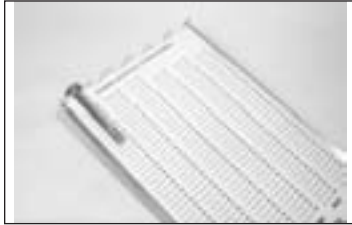
Useful in making the transition to the metric system, the meter stick front side shows inches to 1/16's on upper edge and decimeters, centimeters and millimeters on the lower edge. Reverse side has table equivalents and conversions.



DESCRIPTION	PART NUMBER	PRICE EACH
Meter stick	1261ME	7.99

ALUMINUM BOLT GAUGE

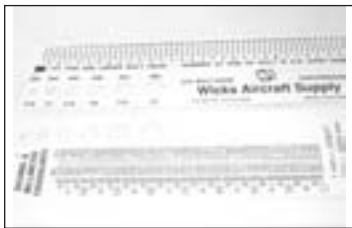
Measure bolts from AN3 thru AN8 in lengths up to 5 inches. Top edge accurately measure diameter, scale down gives dash number up to -50 (5 inch). Only 3-3/4" wide and 6" long gauge weighs 1.9 ounces and fits into shirt pocket.



DESCRIPTION	PART NUMBER	PRICE EACH
Aluminum bolt gauge	AN-BG	6.75

PLASTIC BOLT GAUGE

Handy pocket size reference. Sizes diameter and length of bolts from AN3 to AN8, lengths up to 8". Decimal & millimeter equivalent chart on reverse side.



DESCRIPTION	PART NUMBER	PRICE EACH
Plastic bolt gauge	BG-1	1.00

SAFETY WIRE TWISTERS

Twists perfectly every time. These pliers have an automatic spring return. 2 sizes 6" and 10" available.



DESCRIPTION	PART NUMBER	PRICE EACH
6" Twisters	2W393	16.99
10" Twisters	1W393	16.99

SAFETY WIRE TOOL

Easy one-hand operation. Reaches in tight places, makes a fast and neat wire twist. Shatterproof plastic handle.



DESCRIPTION	PART NUMBER	PRICE EACH
Wire tool	A-013	13.99

PLANS - PLYWOOD SCARFING MACHINE

Simple, easy to construct tools uses a sanding drum and other readily available items that will allow you to make neat and efficient scarf joints with all types of plywood, varying in thickness from a 1/4" down to .4mm - giving you that professional finish that all woodworkers like to achieve. Safe to use, easy to handle and portable. Package includes a 30" x 24" blueprint, instructions, parts list, 6 color photos and a dust collector attachment for use with a shop vac.



DESCRIPTION	PART NUMBER	PRICE EACH
Plans	SJP-1	14.99

SAFETY WIRE

Corrosion and heat resistant to AMS 5687, 1800° F. Pound Spool of .032 contains approximately 358 feet, .041 contains approximately 218 feet, .032 contains approximately 358 feet.



WIRE DIAMETER	PART NUMBER	PRICE EACH
STAINLESS:		
.020 1# roll	MS20995C-020	10.29
.032 1/4# roll	MS20995C-032-1/4	3.75
.032 1# roll	MS20995C-032	8.10
.041 1/4# roll	MS20995C-041-1/4	4.88
.041 1# roll	MS20995C-041	7.44
BRASS:		
.020 Brass	BRASS-020	24.01
.032 Brass	BRASS-032	22.67
.041 Brass	BRASS-041	21.92

TOOLS

GLASTAR TOOL KIT

A tool collection recommended for use in building the Glastair aircrafts metal assemblies. Shipping weight 47 lbs. Kit includes: offset handle rivet gun, 1/8", 3/32" & 3/16" universal rivet sets, flush set with rubber guard, quick change retainer spring, stop countersink, set of 100 degree and 120 degree countersink cutter pilots sizes 12, 21, 30 & 40, hand rivet squeezer, 1/8" and 3/32" dimple die sets, 250 - 3/32" clecos, 150 - 1/8" clecos, 25 - 3/16" clecos, cleco pliers, deburring tool with 7 blades, 90 degree countersink/deburring set, tool box, 4 bucking bars, jobber drill bits in 11/64, 1/4 and 1/16. 60 piece #1-60 jobber drill bit set. 40 - 6" aircraft extension bits, 1 - 12" aircraft extension bit, 10 side grip clamps, 2 tension clamps, 1 ea left, right and straight aviation snips, 90 degree attachment with #40, #30 and #21 bits, chip chaser, swivel hand pop riveter, hook scribe, center punch, tape measure, 12 inch ruler with 32nd, 64ths, 10ths, 100ths graduations, spring divider caliper.



DESCRIPTION	PART NUMBER	PRICE EACH
Glastair tool kit	GSTR-TOOL	755.00

RV SERIES TOOL KIT

A good all around metal working tool kit especially useful for RV builders. Shipping weight 40 lbs. 530 piece set includes: 5 piece straight rivet set, 5 piece straight 10 degree offset rivet set, flush rivet set with rubber guard, beehive and quick change retainer springs, air tool regulator, rivet cutter, micro stop countersink, hand rivet squeezer, 2 dimple and die sets, fluting pliers, 3 countersink pilots, 325 - 3/32" clecos, 175 - 1/8" clecos, cleco pliers, hand seamer, deburring tool, tool box with tote tray and 4 bucking bars.



DESCRIPTION	PART NUMBER	PRICE EACH
RV tool kit	RV-TOOL	625.00

PIPEMASTER NOTCH JIGGER 1-1/2" - 1-1/8"

A simple & easy-to-use tool for transferring the exact cutting profile necessary to accurately notch and weld together tubing, tubing & sheet, and tubing & angle. Just slip the proper size tool over the corresponding size of tubing, push down the pins to establish the tubing joint profile, transfer the joint outline onto the tubing, and cut. Housing made of rugged ABS with 6063 aluminum inner shell and spring temper SS pins.



DESCRIPTION	PART NUMBER	PRICE EACH
1-1/8"	P-T1125	40.00
1-1/4"	P-T125	41.00
1-3/8"	P-T1375	46.00
1-1/2"	P-T150	47.00

PIPEMASTER NOTCH JIGGER 1/2" - 1"

A simple & easy-to-use tool for transferring the exact cutting profile necessary to accurately notch and weld together tubing, tubing & sheet, and tubing & angle. Just slip the proper size tool over the corresponding size of tubing, push down the pins to establish the tubing joint profile, transfer the joint outline onto the tubing, and cut. Housing made of rugged ABS with 6063 aluminum inner shell and spring temper SS pin



DESCRIPTION	PART NUMBER	PRICE EACH
1/2"	P-T050	37.00
5/8"	P-T0625	37.00
3/4"	P-T075	37.00
7/8"	P-T0875	38.00
1"	P-T100	39.00

COUNTERSUNK CAMLOC DIMPLE TOOL

This tool creates a perfect dimple with the exact countersink angle needed for installing Camloc 2700 series fasteners in thin sheet metal panels. (Also for Dzus FJ4 fasteners) Made of zinc-plated premium tool steel.



DESCRIPTION	PART NUMBER	PRICE EACH
FOR 2700 & FJ4	C27DT	20.50

FLUSH CAMLOC DIMPLE TOOL

Dimple tool used for installing Camloc 4000 series flush grommets in thin sheet metal panels. Creates a perfect dimple with the exact countersink angle required. Made of bright zinc-plated tool steel for long life.



DESCRIPTION	PART NUMBER	PRICE EACH
4000 FLUSH GROMMETS	C40DT	21.80

CAMLOC SNAP RING TOOL

Special tool used to quickly & easily install R4G & R4T snap rings onto Camloc 4000 series grommets. Its cone-shaped insert spreads the ring while the tube handle pushes it onto the grommet. CNC machined from tool steel & zinc-plated with comfortable rubber end cap.



DESCRIPTION	PART NUMBER	PRICE EACH
FOR R4G & R4T RINGS	C26SRT	23.25

2" REACH TENSION CLAMP

2" Reach Tension Clamp.



DESCRIPTION	PART NUMBER	PRICE EACH
2" TENSION CLAMP	TC2	4.95

TOOLS

RATCHA-WREX RATCHETING WRENCH SET

A revolutionary patented wrench set that promises to change the way open-end wrenches are made. Using a pawl and a specially designed throat (which also allows std non-ratcheting operation), these strong, durable wrenches gently grab onto a bolt/fitting at 3 points without slippage, allowing quick & easy ratcheting operations in normally inaccessible places. Wrenches combine a ratcheting open-end with std 12-point box ends. Premium heat-treated wrenches w/black oxide finish exceed ANSI stds and offer 20% more strength than traditional wrenches. 8 SAE sizes from 7/16"-7/8" with tool roll. U.S. govt approved. Used by the military, Nascar teams, car and motorcycle manufacturers & mechanics, etc. 1000 yr mfg ltd warranty. Sold as set only.



DESCRIPTION	PART NUMBER	PRICE EACH
RATCHA WREX SAE TOOL SET	RW-SAE	185.25

THREADED SHANK DRILLS - 1.25"

For use with drills, angle drill attachments, & rivet removal tools with 1/4"-28 female threaded spindle. 1-1/4" length allows user to work in areas with extreme space limitations. Rivet removal tool (#RRT) requires 2-1/2" long drills. Made from HSS. Available in 5 wire gauge sizes.



STEPS	SHEET THICKNESS	PART NUMBER	PRICE
1/4"-28	#10	296210	4.25
1/4"-28	#20	296220	4.25
1/4"-28	#21	296221	4.00
1/4"-28	#30	296230	3.40
1/4"-28	#40	296240	2.75

THREADED SHANK DRILLS - 2.5"

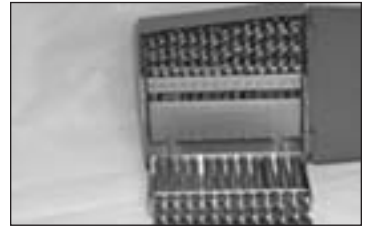
For use with drills, angle drill attachments, & rivet removal tools with 1/4"-28 female threaded spindle. 1-1/4" length allows user to work in areas with extreme space limitations. Rivet removal tool (#RRT) requires 2-1/2" long drills. Made from HSS. Available in 5 wire gauge sizes.



STEPS	SHEET THICKNESS	PART NUMBER	PRICE
2.5"	#10	TDL10	3.53
2.5"	#20	TDL20	3.90
2.5"	#21	TDL21	2.64
2.5"	#30	TDL30	2.54
2.5"	#40	TDL40	2.52

DRILL BITS - COBALT SET

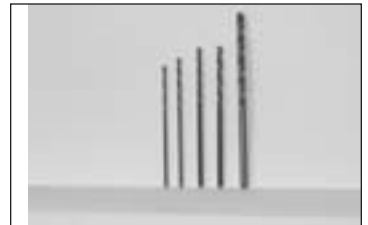
Heavy duty cobalt drills for portable or machine drilling in stainless steel, titanium, or other hardened materials. Jobber length with 135 deg. split points. Wire sizes #1-60. Complete with indexed metal case



DESCRIPTION	PART NUMBER	PRICE EACH
1-60 WIRE SIZE	21125	93.00

DRILL BITS - COBALT

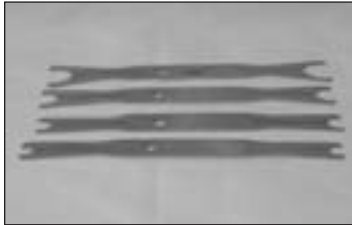
Straight shank, heavy-duty cobalt drill bits for portable or machine drilling of stainless steel, titanium, or other work hardened metals. 135 deg P-3 split drill point. Sizes available for drilling AN bolt heads & shanks. Meets NAS 907-J spec.



WIRE SIZE	APPLICATION	LENGTH	PART NUMBER	PRICE
#36	AN6 BOLT SHANK	2-1/2"	CD36	1.99
3/64"		1-13/16"	CD364	2.35
#48	AN4+5 BOLT SHANK	2"	CD48	1.89
#50	AN5+6 BOLT HEAD/	2"	CD50	1.99
#54		1-7/8"	CD54	1.99
#56	AN3+4 BOLT HEAD	1-3/4"	CD56	1.95

WASHER WRENCH KIT

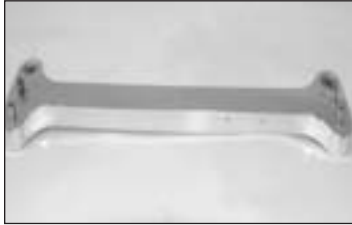
These wrenches are made of 301 full hard stainless steel AMS5519. They will not rust and will always maintain their rigidity and tension. Each wrench is precision cut so the washers snap into position and are held firmly. The Washer Wrench is 0.042 thick which is less than most washers. This allows for easy insertion without obstruction. These wrenches fit AN960, NAS, and L washers. Each set of wrenches come in a convenient pouch to help with organizing. Complete set consists of 4 wrenches with 8 different sizes.



DESCRIPTION	PART NUMBER	PRICE EACH
4 WRENCHES	WA1	37.00

CAMLOC RECEPTACLE DRILL JIG

Drill jig for determining the correct location of rivet & center holes when installing Camloc 2600, 2700 & 4000 series fastener receptacles. Made of lightweight aluminum with tool steel drill bushings & pins to prevent wear.



DESCRIPTION	PART NUMBER	PRICE EACH
2600, 2200, 4000 SER	RDJ16	40.50

DRILL STEP DRILLS UNIBIT

Unibit step drills are ideal for drilling holes in thick materials such as stainless steel, aluminum, plastics and laminates. Stepped design allows the use of 1 drill for many hole sizes. Special single flute design with Speed-Point tip penetrates fast, is easy to control, and prevents walking. A 3-flatted shank prevents slippage in the drill chuck. HSS



STEPS	SHEET THICKNESS	PART NUMBER	PRICE
1/8-1/2"/13	.125	UBIT1	16.99
3/16-1/2"/6	.125	UBIT2	16.69
1/4-3/4"/9	.375	UBIT3	28.66

TOOLS

DRILL STOPS

Drill stops are used to control hole drilling depth. Their spring-loaded design cushions material break-through and their mar resistant ends protect the work surface from damage from the drill chuck. Installs by slipping over the drill bit and then tightening a set screw. Color coded for quick size identification



DRILL SIZE	PART NUMBER	PRICE EACH
#10	STP10	1.80
#20	STP20	1.80
#30	STP30	1.80
#40	STP40	1.80
1/4"	STP250	2.22
5/16"	STP313	2.22

BURRAWAY DEBURRING TOOL

Burraway precision deburring tool deburrs both sides in one pass. One simple setscrew adjustment controls depth of cut and releases blade for replacement. Available in 3/32" and 1/8" hole sizes. Overall length is 3-3/8", pilot tip length is .45. Part number 2938 has 3/32" (.093) hole size and uses replacement blade 29381. Part number 2125 has a 1/8" (.125) hole size and uses replacement blade 21251.



DESCRIPTION	PART NUMBER	PRICE EACH
1/8" DEBUR TOOL	2125	52.50
3/32 DEBUR TOOL	2938	62.43
1/8" BLADE	21251	10.41
3/32 BLADE	29381	13.76

SPEED DEBURRING TOOL

Swivel action - makes deburr & countersink holes fast and easy. Molded handle with 2" long plated steel "Dog-leg" shaft with 1/4"-28 threaded holder. Includes (1) 3/8 X 100 degree 3-flute burring cutter (part#1050) and 8" extension shaft for deburring the inside of flanges and other hard to reach holes.



DESCRIPTION	PART NUMBER	PRICE EACH
2" LONG PLATED STEEL	1046	29.00

DEBURRING TOOL THREADED

100° deburring bit for use with angle drill attachments or deburring tools requiring bits with 1/4-28 threaded shanks. Ideal for deburring drilled holes. 3-flute design. 3/8" dia. HSS



DESCRIPTION	PART NUMBER	PRICE EACH
1/4-28 BIT	DB3751	8.99

DOUBLE EDGE DEBUR TOOL

Removes burrs from both sides of workpiece from 1/32" to 1/2" thick. Blades can be rotated around circumference and reversed for long life. Blades: M-2 steel and hardened to 64Rc.



DESCRIPTION	PART NUMBER	PRICE EACH
DOUBLE EDGE TOOL	422060	21.60

HAND REAMER

Tapered hand reamer used for deburring and enlarging holes in sheet metal, etc. For 1/8" to 1/2" diameter holes. Made from the finest tool steel



DESCRIPTION	PART NUMBER	PRICE EACH
FOR 1/8-1/2" HOLES	R214	15.99

AVERY FLUTING PLIERS

Make narrow & precise flutes for straightening ribs and bulkheads easier & better than pliers with molded jaws. Made with 7" VISE GRIPS pliers. Pins are 3/16" diameter. Stainless steel. TIG welded & polished. Excellent tool for the sonex.



DESCRIPTION	PART NUMBER	PRICE EACH
7" VISE GRIPS	500	41.00

FLUTING PLIERS

Quality drop forge tool with plastic grip handles is 8" long. Pliers designed for work on aircraft components and cannot mar the surface as the jaws are impregnated with a special heavy phenolic coating to "cushion the bite." Weight 11 oz.



DESCRIPTION	PART NUMBER	PRICE EACH
Fluting pliers	TP162	24.40

BLIND ALUMINUM SKIN SCRIBE

This scribing tool quickly & easily finds the cut line on the overlap of new aluminum skin when making flush skin butt joints. The lower leg slides under the new metal & hooks on the adjacent skin while the upper leg scribes the new skin as it's pulled along. Stainless steel tool adjusts to provide the desired joint gap. Especially useful for replacing damaged panels that are unusable as patterns.



DESCRIPTION	PART NUMBER	PRICE EACH
STAINLESS STEEL TOOL	SKW1002	32.50

HAND NIBBLER KLEIN

Hand operated cuts aluminum or steel sheet metal like a punch and die. Ideal for templates, shims and radial chassis.



STEEL	ALUMINUM	PART NUMBER	PRICE
18 GAUGE .049	16 GAUGE .0625	76011B	24.97

TOOLS

22B ENGLISH WHEEL KIT

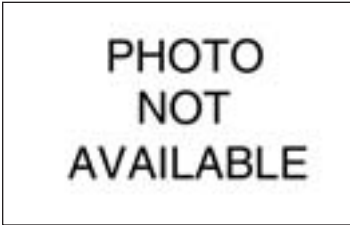
English Wheel Discovery Kit- Designed exclusively for the beginning metal shaping enthusiasts. With its' 22 inch deep working throat , the MetaAce 22B is the perfect english wheel to initiate beginners into the exciting world of metal shaping. The Discovery kit includes: MetalAce 22B english wheel, 8 inch upper wheel, 2.375 radius anvil shaping wheel, 8.50 radius anvil shaping wheel, flat anvil shaping wheel, beater bag, and a how-to instructional video.



DESCRIPTION	PART NUMBER	PRICE EACH
ENGLISH WHEEL KIT	MAEW-22BDK	790.00

22B REPLACEMENT PARTS

You can order MAEW-22B (Throat) or MAEW-WS22B (Stand). Each are sold separately. Or order the whole kit (MAEW-22BDK).



DESCRIPTION	PART NUMBER	PRICE EACH
STAND FIT 22B	MAEW-WS22B	160.00

44F ENGLISH WHEEL KIT

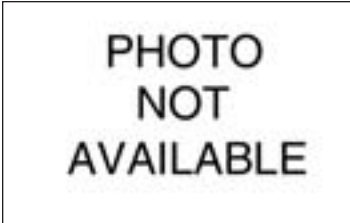
Show your mettle with our go-anywhere metal-crafting machine. Mounted on 3" casters, the sturdy welded frame offers on the go metal bending for racing needs, auto restoration and aircraft rebuilding. Large enough for monster jobs, the 44F English wheels are also perfect for smoothing a wrinkled rocker panel. 44" throat, the upper wheel size is 3" wide by 8" diameter, and the anvil size is 3" wide by 3" diameter. Weight 450 lbs. Fully assembled.



DESCRIPTION	PART NUMBER	PRICE EACH
ENGLISH WHEEL KIT	MAEW-44F	2200.00

ENGLISH WHEEL REPLACEMENT WHEELS

Choose from various sizes. Replacement wheels for English Wheel Kits.



DESCRIPTION	PART NUMBER	PRICE EACH
FLAT ANVIL WHEEL	MAEW-AWFLAT	80.00
1" ANVIL WHEEL	MAEW-AW1	80.00
1" OFFSET ANVIL WH	MAEW-AW1OFF	80.00
3.25" ANVIL WHEEL	MAEW-AW325	80.00
5.00" ANVIL WHEEL	MAEW-AW5	80.00
8.50" ANVIL WHEEL	MAEW-AW85	80.00

WISE GRIPS CURVED JAW

4" Vise Grip Curved Jaw. Locks to work and eliminates hand gripping. Makes bending, forming and crimping jobs easier.



DESCRIPTION	PART NUMBER	PRICE EACH
4" VISE GRIPS CURVED JAW	4WR	9.94

RECIPROCATING SAW BLADES

For cutting non-ferrous metals, masonite, nail embedded wood, aluminum, copper, brass, and lead up to 1/8" thick; ferrous metals including steel and iron 3/16" and over. Made by ACE. 4 inch and 6 inch blades available. Each sold separately. New Item.



STEEL	ALUMINUM	PART NUMBER	PRICE
4 INCH	METAL CUTTING	25496	4.48
6 INCH	WOOD/PLEXIGLASS	20111	3.37
6 INCH	METAL 1/4 TO 3/8	2099315	3.67

POCKET FOLDING SAW

8" POCKET SAW Handy tool that can easily fit in your flight bag. Can be used as a safety tool to escape from a trapped situation. Can be used to cut away lexan, metal, fiberglass.



DESCRIPTION	PART NUMBER	PRICE EACH
FOLDING POCKET SAW	23974	12.00

COMPASS CUTTER

Heavy duty compass cutter is designed to cut circles from 3-12" diameter in materials ranging from paper and acetates to heavy rubber, gasket material, and even thin plywood. Blade depth is adjustable for different applications. Uses heavy-duty snap-off or solid blades.



DESCRIPTION	PART NUMBER	PRICE EACH
2.8" TO 12"	CMP2	28.87

2 HAND CUTTER

Heavy duty 'L' series cutter designed for 2-handed operation on really tough cutting applications. Features a secure ratchet wheel blade lock for safe use; extra blade storage is accommodated in the lifetime warranted handle. Uses either snap-off blades part number LB6B or HD solid blades part number LSOL-10B.

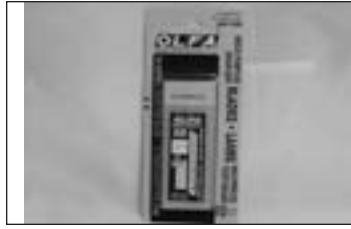


DESCRIPTION	PART NUMBER	PRICE EACH
HEAVY DUTY CUTTER	LL	18.71
FOR LL CUTTER	LSOL-10B	7.46

TOOLS

OLFA POCKET CUTTER- SS

The Olfa all stainless steel cutter is designed to last a lifetime. It features an auto locking 13 edge high grade carbon steel blade and built in pocket clip blade snapper. Lifetime warranty from Olfa. Order the 10 pack replacement blades part number AB10B.



DESCRIPTION	PART NUMBER	PRICE EACH
FOR SVR2 CUTTER	AB10B	3.55
POCKET CUTTER	SVR2	5.98

UTILITY KNIFE AUTO RETRACT

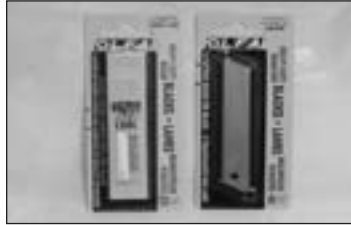
Blades fit the UTC1 utility knife. Package of 5 replacement blades.



DESCRIPTION	PART NUMBER	PRICE EACH
RETRACTABLE LOCKING	UTC1	6.73
BLADES FOR UTC1	SKB2-5B	2.84

UTILITY KNIFE HD

Replacement blades for Olfa cutters. LB6B - snap off blades. Package of 6 blades. Fit Olfa "LL" heavy duty cutter. LSOL-10B - solid blades. Package of 10 blades. Fit the Olfa "LL" heavy duty cutter. AB10B - carbon steel blades. Package of 10 blades. Fit the Olfa "SVR2" pocket cutter. NH1 - extra heavy duty blades. Package of 5 blades. Fit the Olfa "NHI" extra heavy duty utility knife.



DESCRIPTION	PART NUMBER	PRICE EACH
BLADES FOR NOL1	LB6B	4.12
HEAVY DUTY KNIFE	NOL1	6.73

UTILITY KNIFE X-HD

Replacement blades for Olfa cutters. LB6B - snap off blades. Package of 6 blades. Fit Olfa "LL" heavy duty cutter, "CMP2" compass cutter, "NOL1" utility knife. LSOL-10B - solid blades. Package of 10 blades. Fit the Olfa "LL" heavy duty cutter, "CMP2" compass cutter, "NOL1" utility knife. AB10B - carbon steel blades. Package of 10 blades. Fit the Olfa "SVR2" pocket cutter. HB5B - extra heavy duty blades. Package of 5 blades. Fit the Olfa "NHI" extra heavy duty utility knife. SKB2-5B utility blades. Package of 5 blades. Fit the Olfa "UTC1"



DESCRIPTION	PART NUMBER	PRICE EACH
BLADES FOR NH1	HB5B	5.87
KNIFE EX HEAVY DUTY	NH1	12.37

PERMAGRIT TOOL ROLL

This Perma-Grit tool roll holds 8 standard size tools.



DESCRIPTION	PART NUMBER	PRICE EACH
HOLDS STANDARD 8	TR1	6.30

PERMAGRIT -SANDING BLOCK-CONTOUR

11 inches interior/exterior Perma-Grit course grit sanding block with 32mm internal and external radius surfaces for sanding concave and convex surfaces. 280mm L x 50mm W.



DESCRIPTION	PART NUMBER	PRICE EACH
CONTOUR SANDING BLOCK-11"	CB280C	24.73
CONTOUR SANDING BLOCK-22"	CB560C	38.99

SCOTCH-BRITE UNITIZED WHEELS

Scotch-Brite EXL unitized wheels are recommended for deburring operations on carbon steel, stainless steel, aluminum, titanium and composites. Their hard, aggressive design offers high edge durability & long life. Grade: 8a (Med) 3/16" arbor required. (Not incl)



DESCRIPTION	PART NUMBER	PRICE EACH
1X1X3/16	1XLUW8A	4.19
2X1X3/16	2XLUW8A	9.97
3/16"	936	5.99

COZY GIRRL TOOL KIT

These are the tools that the Cozy Grrrls recommend. They use these on a daily basis and suggest that everyone use them. Kit includes: Set8C, SB560, WB140, RF6C, RF5c, RF3C (Perma grit Tools), D28500(CONSEW), SMA-2 (Smart Tool), PR2-48 (Rail Tool), 61-112 (Tape Measure), MSX636-2START (FeinTool), MM4014 (FeinTool saw blade). Get your kit today and save BIG! Visit their website for their current projects that they use these tools on at www.cozy-girrl.com/menupage.htm



DESCRIPTION	PART NUMBER	PRICE EACH
KIT	COZYGIRRL-TOOLS	738.97

TOOLS

FEIN TOOL MULTIMASTER SINGLE SPEED

Each MultiMaster Start Includes: MSX 636-2 Single Speed Tool, Hook & Loop Sanding Pad, 20-Sheets of Hook & Loop paper - 5 each 60,80,120,180 grit, Rigid Scraper Blade, E Cut Universal Blade, Screws and Washers for sanding pad and blades, and Allen Key.



DESCRIPTION	PART NUMBER	PRICE EACH
SINGLE SPEED	MSX636-2START	265.00

FEIN MULTI-MASTER TOOL KIT

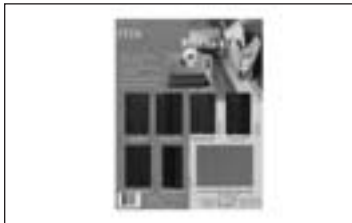
A versatile, high-performance power tool that is highly recommended for use in composite construction. By means of a 2 degree oscillating triangular pad, delicate precision sanding & cutting operations may be performed effortlessly, even in tight corners, without kickback or cross grain sanding. Features 2,000-21,000 OPM variable speeds, low running noise, and vibration free operation. Kit includes Multi-Master, hook & loop pad, scraper blade, flush-cut saw blade, 30 assorted grit sanding discs and carrying case. Wt: 2.4 lbs. 120V, 1.5A Accessories are available.



DESCRIPTION	PART NUMBER	PRICE EACH
FEIN MULTI-MASTER MSXE KIT	MM636-2	247.94

FEIN TOOL PROFILE KIT

Kit provides the Multi-Master tool the flexibility to sand custom profiles and contours at 3 to 5 times the speed of dedicated profile sanders. Its components include 6 profiles (flat, V-shaped, concave, convex, small convex, & trapezoidal), a Profile Holder, and 5 sheets ea of 80, 120 & 180 grit sandpaper.



DESCRIPTION	PART NUMBER	PRICE EACH
PROFILE SANDING KIT	MM3029	55.03

FEIN TOOL FINGER SANDING PADS & PAPER

Thick hook & loop sanding pads with a long, slender design for use in creases, grooves, openings, & other very narrow areas. Pad may be bent to fit work. Sold only 2 per package.



DESCRIPTION	PART NUMBER	PRICE EACH
FINGER SANDPAPER 40G	MM4012	11.90
FINGER PAD 2 PACK	MM9023	23.60

FEIN TOOL SANDING PADS & PAPER

40 Grit triangular hook & loop sandpaper for use with Multi-Master. 50 sheet pack.



DESCRIPTION	PART NUMBER	PRICE EACH
40 GRIT PAPER 50/PK	MM1018	22.20
50 PACK SANDPAPER	MM2033	22.20

FEIN TOOL PLUNGE-CUT BLADES

The small size of the Multi-Master 'E-Cut' blades let you reach into small, tight areas, while their flush-cut design allows the blade to cut squarely against flat surfaces. Their fine tooth pattern allows faster cutting speeds-ideal for precision plunge cuts. 2 widths available.



DESCRIPTION	PART NUMBER	PRICE EACH
1-3/8" WIDTH E-CUT	MM3017	34.17
2-1/2" WIDTH E-CUT	MM4015	37.06

FEIN TOOL SEGMENTED BLADES

3-1/8" segmented HSS blades are flat on one side, allowing cuts in corners or adjoining surfaces without over cutting. For use on fiberglass, carbon fiber, 20 gauge mild steel, etc. Sold in packs of 2.



DESCRIPTION	PART NUMBER	PRICE EACH
BLADES SEGMENTED 2	MM6999	99.99

FEIN TOOL FLUSH CUT BLADES

3-1/8" diameter metal blades have a depressed center to allow cutting squarely against flat surfaces. For use on sheet metal, fiberglass, or wood. Order single (MM4014) or 2 pack (MM4999).



DESCRIPTION	PART NUMBER	PRICE EACH
3-1/8" BLADE	MM4014	77.00
3-1/8" BLADES	MM4999	140.92

BUCKING BAR 4 PC KIT

Bucking bar set includes 4 basic shapes. Cast from non-porous ductile iron which is heat-treated to 38-42 RC. All work surfaces have a highly polished finish.



DESCRIPTION	PART NUMBER	PRICE EACH
KIT OF 4 BARS	BB150	59.99

RIVET GUN - ECONOMY

This is the next generation of the 2602 economy rivet gun. Its 6 oz lighter, better balanced, and now features the same feather-light throttle as many of the more expensive X-Guns. It's so controllable you can safely drive a 3/32" rivet, yet delivers the same power a standard 3X rivet gun. The 2602A has been recommended for use in many kits by their manufacturers such as RV-4, Thorp T-18, and the Midget Mustang, 0-2600 BPM, weight 3.2 lbs, 3 cfm at 90 psi, .401 shank. New Item.



DESCRIPTION	PART NUMBER	PRICE EACH
3.2 LBS	ATS-2602A	106.50

TOOLS

RIVET TOOL SETS

For universal head and flush style rivets. 401 shank. Use on 3/32, 1/8, 5/32, 3/16, and flat. Over all length 3-1/2".



DESCRIPTION	PART NUMBER	PRICE EACH
UNIVERSAL & FLUSH	ATS-120	32.00
3/32 RIVET SET	ATS4703-1	7.69
1/8 RIVET SET	ATS4703-2	7.89
5/32 RIVET SET	ATS4703-3	7.69
3/16 RIVET SET	ATS4703-4	7.40
1/4 RIVET SET	ATS4703-5	7.40
FLUSH 3/4 RIVET SET	ATS750	8.99
1-1/4"	ATS94	17.94

RIVETING FLUSH SET RUBBER GUARD

3/4" flush set with rubber guard for protection against damaging metal surfaces when riveting. .401 shank fits any .401 rivet gun. For use with all rivet set sizes.



DESCRIPTION	PART NUMBER	PRICE EACH
3/4" FLUSH SET	ATS12A	15.90

RIVETING FLUSH SET BACK SET

Used for back riveting or straight riveting of flush rivets. Spring-loaded, plastic guard design holds down skin while riveting without damaging metal surface.



DESCRIPTION	PART NUMBER	PRICE EACH
FLUSH RIVETS	ATS2470	22.44

3M RIVETERS TAPE

Riveters tape is specially designed to hold rivets in place prior to and during riveting operations; especially useful in speeding up large jobs. 3/16" rubber adhesive strips along both edges border a tack-free transparent center window that ensures easy visibility of rivets with no risk of adhesive transfer to rivet heads. Roll size: 3/4"x 36 yds.



DESCRIPTION	PART NUMBER	PRICE EACH
3/4"x36 yd TAPE	3M685	6.75

RIVET CUTTER HEAVY DUTY

Cuts rivets sizes from 3/32" to 1/4" diameter. Rivet leaf spacers allow identical cuts every time. With vinyl grip.



DESCRIPTION	PART NUMBER	PRICE EACH
3/32" TO 1/4"	RC130	18.48

RIVET REMOVAL SHANK PLIERS

Rivet removal pliers is used for removing rivet shanks stuck in ribs and underlying structure after the heads have been drilled. Done simply by one person, no extra help needed.



DESCRIPTION	PART NUMBER	PRICE EACH
RIVET SHANK REMOVAL PLIERS	SKW-1001	65.00

SIOUX AIR RIVET GUN - 3"

Durable, industrial quality pistol-grip pneumatic rivet gun with a teasing throttle trigger start. Accepts .401 tapered rivet sets and chisels. 3/16" steel rivet capacity at 90 psig. Stroke length: 3". Bore: 0.6". 2000 bpm. Wt: 3.2 lbs. Includes instruction manual & beehive retainer.



DESCRIPTION	PART NUMBER	PRICE EACH
3" AIR RIVET GUN	270A	298.99

3X PNEUMATIC RIVET GUN

3X pneumatic rivet gun features a feathering trigger that allows you to slowly begin riveting without damaging metal surfaces. Cylinder & valve are precision machined & hardened for long life. Other features include a spring retainer & regulator, powder coated finish, & lightweight aluminum handle. Bpm: 2160. Alum capacity: 3/16". Wt: 2.5 lbs. Made in U.S



DESCRIPTION	PART NUMBER	PRICE EACH
2.5 LBS	PRG83	189.95

PNEUMATIC AIR DRILL - 3/8"

General purpose pneumatic drill with 3/8" capacity. Includes Jacobs chuck & key. 2200 RPM. Wt: 2.5 lbs



DESCRIPTION	PART NUMBER	PRICE EACH
2200 RPM	PD45	67.37

FLUID TRANSFER PUMP

This small multi-purpose hand pump is made of tough, durable polyethylene for use in transferring or siphoning all types of fluid including fuel, oil, hydraulic fluid, etc. It is especially useful for filling hard to reach master cylinder reservoirs. Includes accessory hose for inflation of bike tires, basketballs, etc.



DESCRIPTION	PART NUMBER	PRICE EACH
FLUID TRANSFER PUMP	7240	16.26

TOOLS

HYDRAULIC JACK STANDS

Lil' Lifter is a lightweight, low-profile aircraft jack for small aircraft. It requires only 2.5" of ground clearance to set in jacking position-perfect for most homebuilt aircraft with small diameter tires. Maximum jack height: 12". Wt: 7.5 lbs.



DESCRIPTION	PART NUMBER	PRICE EACH
AIRCRAFT JACK	30MLL	139.00

LANDING GEAR JACK STAND

A wide, stable safety stand for use whenever a main wheel is removed. The aircraft is secured simply by slipping the end of the stand over the axle; the axle nut can then be threaded back on for security. Height is adjusted by means of a quick release pin. Made of heavy gauge steel tubing with an acrylic enamel finish.



DESCRIPTION	PART NUMBER	PRICE EACH
LANDING GEAR STAND	LGS9	40.00

FIBER OPTIC INSPECTION SCOPE

Provides a whiter light, 3 times brighter than the standard ProVision inspection bulb. Other benefits include a superior end configuration resulting in superior spot alignment, and rugged construction offering a 25 hr rated life. Easy drop-in replacement for all ProVision models.



DESCRIPTION	PART NUMBER	PRICE
PROVISION INSPECT SCOPE-18"	PV100	209.97
PROVISION INSPECT SCOPE-36"	PV300	257.50
MIRROR/MAGNET/LAMP KIT-10.6MM	PVKM45	37.40
PP142HALOGEN REPLACEMENT BULB	PL1000	10.08
PROVISION-18" RENTAL	RPV100	209.97
PROVISION-36" RENTAL	RPV300	257.50

INFRARED THERMOMETER

Wide range non-contact InfraRed Thermometer with Laser Pointer. Measures surface temperature of objects which are difficult to reach or unsafe to contact. Measure hot spots in electrical panels and equipment. In-process temperature measurements. Wide temperature from -58 degrees F to 518 degrees F without contact. Built-in laser pointer to improve aim. Degrees F/Degrees C switchable. Fixed emissivity (0.95) covers 90% of surface application with 6:1 field of view. Visual over range indicator, data hold and max hold. Pocket size meter comes complete with 2 AAA batteries.



DESCRIPTION	PART NUMBER	PRICE EACH
SURFACE TEMPERATURE	IR201	47.47

UM FLASH POINT INFRARED TEMPERATURE

Monitors temperatures of engines, sealing irons, electric motors and battery packs. Wireless for safe and accurate readings without touching the heat source. Simply point, push a button, and read the results. Palm size 1.13 ounce reads a wide temperature range from -27 to 428 F. Special mode settings allow user to find, hold and display minimums and maximums of fluctuating temperatures to provide the most accurate information. Auto timer turns off unit automatically if not use in 15 seconds. Uses replaceable 3V CR2032 lithium battery. Includes gauge, battery, and wrist strap.



DESCRIPTION	PART NUMBER	PRICE
2.7"X1.5"X0.7"	DTXP3100	23.62

FILLABLE CAULKING TUBES

Refillable epoxy tubes are useful for injecting large amounts of epoxy. Tubes may be refilled again and again after popping out cured epoxy. For use with standard caulking guns. Holds approximately 10 fl oz. Sold in pairs.



DESCRIPTION	PART NUMBER	PRICE
SOLD IN PAIRS	810-2	3.50

SWIVEL ROD END

A permanently lubricated threaded rod end for use in applications where a control rod needs to swivel to eliminate binding of the assembly. The tubing end is cross-drilled to accept a 3/16" bolt or rivets for tubing attachment. The threaded male end will accept rod end bearings, forked rod ends, etc. with 1/4"-28 female threads. For 1/2"OD tubing. Made of 6061-T6. For experimental aircraft only.



DESCRIPTION	PART NUMBER	PRICE
1/2" TB X 1/4-28	SRE500	23.95