

CARBIDE ROTARY FILE KIT

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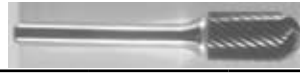
- High speed steel
- Standard Cut: Double
- Optional Cut: Coarse, Diamond, Fine, Fast Mill
- 3/32" and 1/8" shank burrs

Part No.	Description
C927-9	1 ea.: SC1, SD2, SA5, SF1, SG3, SE5, SM1, SL3, SH5

CARBIDE ROTARY FILES



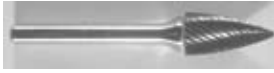
Part No.	Diameter	Cut Length
SA12	1/8"	5/8"
SA14	3/16"	5/8"
SA1	1/4"	5/8"
SA2	5/16"	3/4"
SA3	3/8"	3/4"
SA4	7/16"	1"
SA5	1/2"	1"
SA6	5/8"	1"
SA7	3/4"	1"
SA9	1"	1"



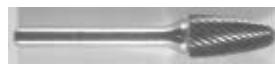
Part No.	Diameter	Cut Length
SC12	1/8"	5/8"
SC14	3/16"	5/8"
SC1	1/4"	5/8"
SC2	5/16"	3/4"
SC3	3/8"	3/4"
SC3A	3/8"	1"
SC4	7/16"	1"
SC5	1/2"	1"
SC6	5/8"	1"
SC7	3/4"	3/4"



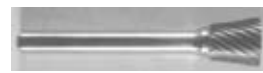
Part No.	Diameter	Cut Length
SD12	1/8"	3/32"
SD14	3/16"	5/32"
SD1	1/4"	7/32"
SD2	5/16"	9/32"
SD3	3/8"	5/16"
SD4	7/16"	3/8"
SD5	1/2"	7/16"
SD6	5/8"	9/16"
SD7	3/4"	11/16"
SD9	1"	15/16"



Part No.	Diameter	Cut Length
SG1	1/4"	5/8"
SG3	3/8"	3/4"
SG13	1/2"	3/4"
SG5	1/2"	1"
SG6	5/8"	1"
SG7	3/4"	1"
SG15	3/4"	1-1/2"



Part No.	Diameter	Cut Length
SF1	1/4"	5/8"
SF3	3/8"	3/4"
SF4	7/16"	1"
SF5	1/2"	1"
SF6	5/8"	1"
SF7	3/4"	1"
SF14	3/4"	1-1/2"



Part No.	Diameter	Cut Length
SN1	1/4"	5/16"
SN1E	1/4"	5/16"
SN3	1/2"	1/2"
SN3E	1/2"	1/2"
SN6	5/8"	3/4"

Note: "E" denotes end cut.



Part No.	Diameter	Cut Length
SH2	5/16"	3/4"
SH4	7/16"	1-1/8"
SH6	5/8"	1-7/16"



Part No.	Diameter	Cut Length
CBU-W	1/4"	3/16"
GEU-W	1/2"	3/8"



Part No.	Diameter	Cut Length
SJ1	1/4"	3/16"
SJ3	3/8"	5/16"
SJ5	1/2"	7/16"
SJ6	5/8"	9/16"
SJ7	3/4"	11/16"

Air Tool Services
Zenith House Aqueduct Street Preston
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ARC POWER LOCK DISC HOLDERS



TYPE R - ROLOC (3M)



TYPE S - SOCATT (NORTON)



50251

Type III - Roll On Type "R"			
Part No.	Hardness	Size	Max. RPM
50257	Medium	1"	40000
50258	Medium	1-1/2"	25000
50259SF	Soft	2"	25000
50259	Medium	2"	25000
50259FM	Firm	2"	25000
50260SF	Soft	3"	20000
50260	Medium	3"	20000
50260FM	Firm	3"	20000

Type II - Twist On Type "S"			
Part No.	Hardness	Size	Max. RPM
50251	Medium	1"	40000
50252	Medium	1-1/2"	25000
20253SF	Soft	2"	25000
50253	Medium	2"	25000
50253FM	Firm	2"	25000
50254SF	Soft	3"	20000
50254	Medium	3"	20000
50254FM	Firm	3"	20000

ALUMINUM OXIDE - QUICK-LOC DISC - SURFACE CONDITIONER



TYPE R - ROLOC (3M)



TYPE S - SOCATT (NORTON)



59242

Dia.	Grit	Type S Socatt (Norton)	Type R Rolok (3M)
1	36	31414	31614
	60	31417	31617
	80	31418	31618
	100	31419	31619
	120	31420	31620
	180	31422	31622
1-1/2	36	31438	31638
	60	31441	31641
	80	31442	31642
	100	31443	31643
	120	31444	31644
	180	31446	31646
2	36	31450	31650
	60	31453	31653
	80	31454	31654
	100	31455	31655
	120	31456	31656
	180	31458	31658
3	36	31462	31662
	60	31465	31665
	80	31466	31666
	100	31467	31667
	120	31468	31668
	180	31470	31670

Type II	1"	2"	3"
Very Fine	59211	59241	59261
Medium	59212	59242	59262
Coarse	59213	59243	59263

Type III	1"	2"	3"
Very Fine	59311	59341	59361
Medium	59312	59342	59362
Coarse	59313	59343	59363

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CUT SHEETS FOR SANDERS

- Cut to fit hand, orbital and palm sanding requirements
- Pre-cut to eliminate waste
- Aluminum oxide grain
- Closed coat designed for more surface removal
- Full resin over resin
- Durable and flexible backing
- Ideal for hand, orbital and palm sanders
- Use on ferrous and nonferrous metals
- Wood, fiberglass and plastics

3-2/3 x 9"		
Part No.	Grit	Std. Pkg.
73693	60	100
73694	80	100
73696	120	100

NON-WOVEN ABRASIVE BELTS

- Equal to 3M Scotchbrite
- Designed for consistent buffing, polishing, finishing & light deburring
- Perfect for uniform surface preparation & high quality finishing on metals

Size	Part No. 20 Pack Coarse	Part No. 20 Pack Medium	Part No. 20 Pack Very Fine
1/2" x 18"	630050181	630050182	630050183
1/2" x 24"	630050241	630050242	630050243
3/4" x 18"	630080181	630080182	630080183



630050181

ABRASIVE BELTS

- Premium aluminum oxide 'X' weight
- Recommended for medium to heavy grinding & finishing
- For use on regular and high tensile steel, cast iron, non-ferrous materials and alloys
- Other sizes and grits available, please inquire



70072

Size	Part No.	Grit
1/2" x 12" (10 pack)	70072	36
	70073	40
	70074	50
	70075	60
	70076	80
	70078	120
	70080	180

Size	Part No.	Grit
1/2" x 18" (10 pack)	70081802	36
	70081803	40
	70081804	50
	70081805	60
	70081806	80
	70081807	120
	70081808	180

Size	Part No.	Grit
3/4" x 18" (10 pack)	70124Z09	36
	70124Z1GRSZ	40
	70124Z1LE	50
	70124Z1SZ	60
	70124Z12	80
	70124Z2GR	120
	70124Z25	180

DYNABRADE® DYNABUFFER

- Excellent for buffing out sanding scratches
- .55 diameter offset orbit
- Tool slows to 5000 RPM when running under load
- Patented balancer compensates for vibration for smooth operating performance
- Rear exhaust muffler reduces sound levels
- 5/16-24 thread
- Pad not included



DYN58455

0.21 HP				
Part No.	Pad Capacity	RPM (no load)	Overall Length	Weight
DYN58455	5"	10000	11"	2.7 lbs.

5" PAD FOR DYNABUFFER

- Non-vacuum pads
- Hook-face
- 3/16-24 thread
- Short nap

Backing Pads	
Part No.	Density
DYN56180	Medium
DYN56195	Soft

Polishing Pads			
Part No.	Description	Type	Color
DYN90036	Sheepskin	Polishing	Tan
DYN90040	Foam Flat	Polishing	White
DYN90045	Foam Flat	Cutting	Yellow

CYCLO® ORBITAL AIRCRAFT POLISHERS

- Does not mar, burn or leave swirl marks
- Exclusive dual 4" orbital action heads with exceptional stability and smoothness
- Counterbalanced heads for efficiency in both large & confined contours
- Polishing motion simulates a gentle hand-rubbed quality
- Lightweight, heavy-duty cast aluminum housing
- Rubber pad holder and polishing pad not included

Part No.	Motor	RPM (no load)	Weight
80-010	115V - 60 Hz	3000	6.5 lbs.
80-020	230V - 50 Hz	3000	6.5 lbs.



80-010

RUBBER PADS AND POLISHING PADS

Part No.	Description
79-101	Hook & Loop Rubber Pad
72-110	White Foam, Finishing Pad
72-120	Green Foam, Polishing Pad
72-125	Orange Foam, Compounding & Polishing
72-135	Yellow Foam, Cutting Pad
72-160	Yellow Foam, Scrubbing Pad
72-455	Light Cutting Wool Pad



79-101



71-110

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NORTECH HEAVY-DUTY PNEUMATIC VACUUMS

- Models mount on standard 30 or 55 gallon drums
- No moving parts for dependable, trouble-free operation
- Additional accessories & options also available, please inquire

Wet/Dry Vacuum Kit includes:

Vacuum generating head with internal filter & exhaust silencer; 20 gauge drum with drum dolly; 20' vacuum hose; Floor tool with 4" wand & crevice tool; and 20' air supply hose.

Compact Vacuum Kit includes:

Vacuum generating head with exhaust silencer & carrying handle; Canister-style drum with external filter; 10' x 1-1/4" vacuum hose; Surface utility tool; 20" extension wand; Crevice tool; 3" round plastic brush; and 12' hose.



Compact Vacuum Kit						
Part No.	Drum Size	Hose Fitting	Air Consumption SCFM	Min. Size Compressor	Vacuum Lift (INH20)	Shipping Weight
N041MC	4 Gallon	1-1/4"	20	5 HP	100	28 lbs.
N081MC	8 Gallon	1-1/4"	20	5 HP	105	82 lbs.

Wet/Dry Vacuum Kit						
Part No.	Drum Size	Hose Fitting	Air Consumption SCFM	Min. Size Compressor	Vacuum Lift (INH20)	Shipping Weight
N151SC	15 Gallon	1-1/2"	20	5 HP	105	72 lbs.
N301DCP	30 Gallon	1-1/2"	47	15 HP	213	100 lbs.
N551BC	55 Gallon	2"	68	15 HP	185	113 lbs.

USI AIR VACUUMS

- Venturi type design with 1" I.D.
- Picks up ferrous and non-ferrous chips, bolts and rivets
- Throttle with special lock-on feature
- TP575-10 - 18' flexible hose included
- 1/4" inlet
- .5 lbs.

Part No.	Description
TP575	Aluminum vacuum with bag and 18" flexible hose
TP675	Plastic vacuum with bag and 18" flexible hose



TP575



TP675

Accessories	
Part No.	Description
TP275B	Spare Bag and Clip
TP275-1	Spare Bag only
TP275B-1	Spare Clip only
TP575-10	18" Flex Hose
TP575-24	24" Flex Hose
TP575-36	36" Flex Hose
TP575R-10	12" Rigid Tube

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ATI ALUMINUM MINA-VAC

This vacuum is the result of a challenge for a design with superior pickup performance yet low noise level. The AT560M emerged as the highest-rated vacuum in the industry. Its one-piece aluminum construction is virtually indestructible, and all moving parts including the trigger mechanism are replaceable. This unit pulled six inches of mercury, three times that of our nearest competitor.

Part No.	Description
AT560M	MINA-VAC, Venturi Type, one piece aluminum construction, locking trigger, complete with air fitting, bag and bag clip
AT560MFE-12	Extension Tube, Flexible, Clear Plastic, 42" OAL
AT560MFE-18	Flexible, Clear Plastid, 18" OAL
AT560MFE-24	Flexible, Clear Plastid, 24" OAL
AT560MFE-36	Flexible, Clear Plastid, 36" OAL
AT560MRE-12	Extension Tube, Rigid, Clear Plastic, 42" OAL
AT560MRE-18	Rigid, Clear Plastic, 18" OAL
AT560MRE-24	Rigid, Clear Plastic, 24" OAL
AT560MRE-36	Rigid, Clear Plastic, 36" OAL
AT560MF-12	Aluminum MINA-VAC Assembly with 12" Clear Flex Tube (AT560M with A560MFE-12)
AT560MF-18	with 18" Clear Flex Tube (AT560M with A560MFE-18)
AT560MF-24	with 24" Clear Flex Tube (AT560M with A560MFE-24)
AT560MF-36	with 36" Clear Flex Tube (AT560M with A560MFE-36)
AT560MR-12	Aluminum MINA-VAC Assembly with 12" Clear Rigid Tube (AT560M with A560MRE-12)
AT560MR-18	with 18" Clear Rigid Tube (AT560M with A560MRE-18)
AT560MR-24	with 24" Clear Rigid Tube (AT560M with A560MRE-24)
AT560MR-36	with 36" Clear Rigid Tube (AT560M with A560MRE-36)
AT560A-3	Vacuum Bag, Replacement for use with AT560C or AT560M
AT560A-4	Clip, Vacuum Bag, Replacement
AT560H0-3	Vacuum Bag, Heavy-Duty, with Vinyl Reinforcement

SIPHON SPRAY GUN

- Designed for spraying solvents, soaps, etc.
- 8' clear plastic suction tubing
- 6" nose extension
- Pistol grip style



TP702

Part No.	Description	Weight
TP702	Pistol Gun with Hose	1 lbs.

HYDRO-AIR PRESSURE WASHER KITS

- Blast grime and grease from motors, machinery, tools, etc.
- Includes gun with siphoning attachment, nozzle extensions, and snap-on adapter
- Hot or cold water

Part No. Complete Kit	Gun Type
DM2000K	Trigger
DM1000K	Hand Control Valve

DM2000K

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ECONOMY SAFETY WIRE TWISTERS

- For use on wire up to .060" diameter
- Fast spiral action

Part No.	Type	Nose Style	Overall Length
TP68SR-6	Spring Return	Tapered	6"
TP68SR	Spring Return	Tapered	9"



TP68SR

MILBAR® REVERSIBLE SAFETY WIRE TWISTERS

- Patented reversible twist action
- Spring return twist rod & sure grip clutch action knob
- Quick acting reversible sleeve
- Aerospace standard AS567

Part No.	Wire Capacity	Overall Length
AIT45W	.041"	6" Diagonal
AIT41W	.060"	9" Diagonal
AIT42W	.060"	12" Diagonal



AIT45W

Part No.	Cushion Throat	
	Type	Nose Style
AIT25W	6" Auto Return	Diagonal
AIT26W	9" Auto Return	Diagonal



AIT25W

MILBAR® SAFETY WIRE TWISTERS

Part No.	Type	Overall Length
AIT11WS	Auto Return	6" Diagonal
AITIW393	Auto Return	9" Diagonal



AIT11WS

EZ SAFETY WIRE TWISTER

- Makes fast, neat twists in tight or hard to reach places
- One hand operation
- Use on wire .060" diameter

Part No.	Overall Length
TP277	6"
TP277A	18"



TP277

SAFETY WIRE TWISTER KITS

Professional Safety Kit includes:

Three Safety Wire Twisters (9" Auto, 6" Mini & 19" Deep Reach), Three 1/4 lb. Spools of Safety Wire (.020", .032" & .040") & Plastic Kit Box

Limited Access Kit includes:

Two Safety Wire Twisters (6" Mini & 19" Deep Reach), Three 1/4 lb. Spools of Safety Wire (.020", .032" & .040") & Plastic Kit Box

Part No.	Description	Weight
AIT105W	Professional Kit	4.0 lbs.
AIT109W	Limited Access Kit	2.75 lbs.



AIT105W

AERO SAFETY WIRE TWISTER KIT

Kit includes:

1 each 9" Safety Wire Twisters, TP277 Handy Twister, Three 1 lb. Spools of Safety Wire (.020", .032" & .041") & Plastic Kit Box

Part No.	Description
TP68K	Complete Kit



TP68K

STAINLESS STEEL AIRCRAFT SAFETY WIRE

- Conforms to government spec QQW-423, Milspec MS-20995-C
- Convenient 1 lb. dispensing packages
- Other sizes available, please inquire

Part No.	Diameter
TP65	.032
TP66	.041
TP67	.020



TP65

SAFETY WIRE JIGS

Part No.	Description	Use
TP402	Nut Jig	Drill Nuts/Bolt Heads to 3/4" dia.
TP401	Drill Jig*	Drill Holes Accurately w/o Breakage
TP402A	Both Jigs	TP401 and TP402
TP401A	Fits bolt sizes: Metric - 6 x 1.0, 8 x 1.0, 8 x 1.25, 10 x 1.25 & 10 x 1.5	

Note: Bolt sizes 8-32, 10-32, 1/4"-20, 1/4"-20, 1/4"-28 & 5/16"-24



TP401

TP402

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TURNBUCKLE WRENCH CABLE RIGGING TOOL

- Consists of two clamps joined by a 12" length of sprocket type chain
- Accommodates all sizes of aircraft cable 0 - 1/2"
- Allows free adjustment of the turnbuckle

Part No.	Description
SP100-1	Cable Rigging Tool



SP100-1

CABLE SWAGING TOOLS

Part No.	Will Swage	Overall Length	Weight
TP64	1/16", 3/32" & 1/8"	7"	1 lbs.



TP64

CABLE SWAGING KIT

Part No.	Description
TP64K	Complete Kit

TP64K



LOCOLOC® HAND SWAGING TOOLS

Will swage

Ovals: 1/16", 3/32", 1/8", 5/32" & 3/16"

Stops: 1/16", 3/32", 1/8", 5/32", 3/16" & 7/32"

Part No.	Type	Overall Length	Weight
1-SC	Hand Held	26-1/2"	6.5 lbs.
1-BSC	Bench Mounted	16"	6.6 lbs.



1-SC

LOCOLOC® HAND SWAGING KIT

- Contains 1-SC Hand Tool, C-7 Cable Cutter, assortment of stop and oval sleeves, assortment of thimbles.
- Will handle all sizes from 1/16" up to and including 3/16"
- Packaged in rugged steel tool box
- Supplied with aluminum sleeves and zinc plated steel thimbles or with copper sleeves and stainless steel thimbles

Part No.	Description
CSS-KIT	Complete Kit



CSS-KIT

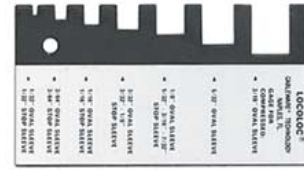
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LOCOLOC® SLEEVE GAUGES/DIAMETER GAUGE

- To assure proper swaging of sleeves

Part No.	Description
GA-1P	1/32", 3/64", 1/16", 3/32", 1/8", 5/32" & 3/16"
GA-4	Measures 1/16" - 3/8" cable (not shown)



GA-1P

FELCO HEAVY-DUTY CABLE CUTTERS

- Rubber grips & shear-cut blades that cut smooth, clean & with little distortion

Part No.	Cable Capacity	Overall Length
C-3	1/4"	8"



C-3

PORTABLE MANUAL CABLE SWAGER KIT

- Roll type tool will swage MS type terminals to 3/16"
- Includes heavy-duty steel carrying case

Kit includes:

Portable Manual Swager, Dies (rolls): 5 Straight Shank Sets (1/16" - 3/16"), 3 Ball Terminal Sets (1/16" - 1/8") & Appropriate Gauges

Part No.	Description	Weight
M1-K	Complete Kit	64 lbs.



M1-K

BENCH MOUNTED CABLE SWAGING MACHINE KIT

- Hand powered with a geared down crank for easy operation
- Will swage AN or MS type fittings to 3/8"
- Power kit 115/230 volt single phase

Kit includes:

Swager with Bench Mount, Dies (rolls): 10 Straight Shank Sets (1/16" - 3/8") & 7 Ball Terminal Sets (1/16" - 1/4"), Straight Shank Die Auxiliary Adapter, Appropriate Gauges, Spring Clip & Adjustable Stop Guide Assemblies

Part No.	Description	Weight
M2-K	Complete Kit	425 lbs.
M2P-K	Powered Kit	550 lbs.



M2-K

PORTABLE PNEUMATIC CABLE TERMINAL SWAGER KIT

- All swaging & cutting dies of hardened, heat treated steel
- Each die is clearly marked indicating type & size swaged terminal or cable cut
- Meets government specification GGG-S-00825A (GSA-FSS)
- Includes heavy-duty steel carrying case
- Certified & calibrated

Kit includes:

Cylinder & Yoke Assembly (Easily accessible for quick changing of dies), Dies, Air Hose Assembly, Single Action Foot Control Valve Assembly with Lubricator & Air Filter, Baseplate, Gauges & Instruction Manual

Part No.	Description	Weight
AT520JK	Complete Kit	105 lbs.
AT520J	Swager Only	19 lbs.



AT520J

AT520JK

PORTABLE PNEUMATIC CABLE TERMINAL SWAGER KIT

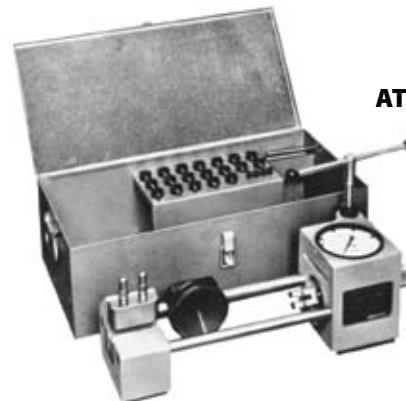
- Can pull test all types and sizes of terminals to 1/4" diameter
- Lightweight & compact, requires no experience to test swaged terminals
- Includes heavy-duty steel carrying case
- Certified & calibrated

Kit includes:

Pull Tester, Terminal Adapters: AN667 (5/32" - 1/4"), AN663/664 (1/16" - 3/16"), AN666/669 Right Thread (1/16" - 7/32"), AN666/669 Left Thread (1/16" - 1/4"), AN667/668 (3/16" - 3/8") Terminal Pins, Jaws for 1/16" to 1/4" Cables

- Calibration Kit eliminates outside calibration

Part No.	Description	Weight
AT520CTK	Complete Kit	70 lbs.
AT520CGC	Calibration Kit	8 lbs.



AT520CTK



AT520CGC

HEAVY DUTY INDUSTRIAL TUBE CUTTER

- Includes flare cut-off groove rollers, fold-away reamer & spare cutting wheel
- Cuts most metal tubing

Part No.	Capacity	Weight
TC1000	1/8" to 1-1/8" O.D.	6.5 oz.



COMPACT TUBE CUTTER

- Enclosed feed requires only 1-1/4" clearance
- Replaceable hardened steel cutter wheel with two friction reducing steel rollers

Part No.	Capacity	Weight
TC1050	1/8" to 5/8" O.D.	3.0 oz.

TC1050

INNER-OUTER REAMERS

- Reams inside/outside edges of tube with three hollow ground tool steel cutters

Part No.	Material	Capacity	Weight
208-F	Aluminum & Soft Metals	3/16" to 1-1/2" O.D.	0.6 lbs.



TRIPLE HEADER TUBE BENDERS

- Bends most metal tubing
- Calibrated markings for making accurate left, right or offset bends
- 90° start requires less effort, is fast & easy

Part No.	Capacity
367-FH	1/8", 3/16" & 1/4" O.D. 9/16" radius to center of tube
368-FH	1/4", 5/16" & 3/8" O.D. 15/16" radius to center of tube

367-FH



368-FH

TRIPLE HEADER TUBE BENDERS

- Each tool bends one size
- Open side design slips over tube at any point with wide hook for secure grip
- Calibrated markings with up to 180° bend
- No scoring or flattening of tubing

Part No.	Tube O.D.	Radius to Center of Tube	Weight
364-FH-02	1/8"	3/8"	0.5 lbs.
364-FH-03	3/16"	7/16"	0.5 lbs.
364-FHA-04	1/4"	1/4"	1.0 lbs.
364-FHA-05	5/16"	11/16"	1.0 lbs.
364-FHA-06	3/8"	15/16"	1.75 lbs.
364-FHA-07	7/16"	1-1/2"	3.5 lbs.
364-FHA-08	1/2"	1-1/2"	3.5 lbs.

364FH-06

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37" SINGLE & DOUBLE LAP FLARING TOOL KIT

- Flares soft copper & aluminum to AN standards: 3/16", 1/4", 5/16", 3/8" & 1/2" O.D.
- Also flares single 37" S.A.E. standard & oversize
- For portable use or can be vise mounted
- Sliding handle for maximum leverage
- Adapters revolve for quick size change

Part No.	Includes
256FK	Flaring Tool, Inner-Outer Reamer, Tubing Cutter, Instructions & Carrying Case

256FK



ROL-AIR 37" FLARING TOOL

- Faceted, hard chrome finished cone for perfect scoreless flares
- Slip on yoke permits use in tight quarters

Part No.	Materials	Sizes	Weight
507-FB	Soft Copper, Aluminum & Brass	3/16", 1/4", 5/16" 3/8", 1/2" & 5/8" O.D.	1.7 lbs.



507-FB

ROL-FLAIR 37" ROTARY FLARING TOOL

- Depth gauge auto positions tube for correct flare

Part No.	Materials	Sizes	Weight
212-FB	Soft Copper & Aluminum Alloys	1/8", 3/16", 1/4", 5/16" 3/8", 1/2", 5/8" & 3/4" O.D.	3.0 lbs.

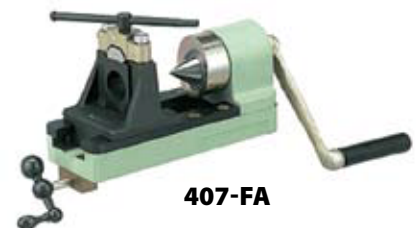


212-FB

ROL-FLAIR 37" ROTARY FLARING TOOL

- Swivel head clamp locks tubing in smooth bore die blocks
- Lathe type tube feed
- Ball bearing mounted flaring cone
- Tool must be clamped in vise
- Includes heavy-duty steel carrying case

Part No.	Materials	Sizes	Weight
407-FA	Stainless Steel & Other Tubing	1/8", 3/16", 1/4", 5/16" 3/8", 1/2", 5/8", 3/4", 1", 1-1/4" & 1-1/2" O.D.	50 lbs.



407-FA

37" HEAVY DUTY FLARING TOOL KIT

Flares to government specifications in steel, stainless steel (including MIL-T-6845), titanium and other metal tubing.

Kit includes:

Flaring & Reaming Kit contains 400-F Flaring Tool and 401-FA Reaming Yoke for 1/4" to 5/8" O.D. tubing.

Part No.	Materials	Sizes	Weight
402-FA	Stainless Steel & Other Tubing	1/8", 3/16", 1/4", 5/16", 3/8", 1/2" & 5/8" O.D.	3.2 lbs.



402-FA

PRO TUBE BEADING KIT

- Meets MIL Spec MS33660D and S.A.E. AS5131 standards
- Copy of original Packer beading tool

Part No.	Description
AP145	1/4", 3/8", 1/2", 5/8", 3/4" & 1"



AP145

EZ-BEADER

- Designed to replace the original Parker beading tools.
- Compact design
- Capable of tubing wall thickness from .035" to .065" thick
- Larger sizes available

Part No.	Sizes	Description
TP885A	1/8"	EZ-Beader
TP885B	1/2"	EZ-Beader 1
TP885C	5/8"	EZ-Beader
TP885D	3/4"	EZ-Beader



TP885C

LED MAG-LITE® FLASHLIGHTS

- A powerful projecting beam
- Balanced optics
- Interchangeable light sourcing
- Use either LED or krypton lamp stored in the tail cap

3 Watt Mag-LED			
Part No.	Batteries Req. (not included)	Weight (with batteries)	Overall Length
2D	2 D-Cell	23 oz.	10"
3D	3 D-Cell	30 oz.	12-11/32"



3 Watt Mini Mag-LED			
Part No.	Batteries Req. (not included)	Weight (with batteries)	Overall Length
2AA	2 AA	4.15 oz.	6-5/8"
3AA	3 AA	5.44 oz.	8-5/8"

LED MAG-LITE® FLASHLIGHTS

- Offers the same performance and results as borescopes costing 10x as much
- Powerful halogen lamp powered by 2AA batteries (not included)
- 'Obedient' 0.4" cable maintains its fixed position until readjusted
- 6" ergo designed handle with integrated focus ring
- Includes fitted case



Part No.	Cable Length	Field of View	Optimal View Dist.	Weight (with case)	Overall Length
PV-100	18"	40°	0.8"	1.5 lbs.	24"
PV-300	36"	40°	0.8"	2.6 lbs.	42"

Accessories	
Part No.	Description
PVW-45	Clip-On 45° Mirror
PM-1	Magnetic Tip
PL-1000	Replacement Halogen Bulb
PVCC37	Camera Coupler
PVK-45	Clip-On 45° Mirror, Bulb
PVKM-45	Complete Set: Clip-On 45° Mirror, Magnetic Tip & Bulb

ALL-ANGLE INSPECTION MIRRORS

- Replaceable copper backed clear view mirrors
- Non-rotating inner hex rods on telescoping models prevent mirror swing
- Insulating grip
- HT models have clear glass mirror for perfect reflection



Pocket Type – Telescoping					
Part No.	Replaceable Mirror	Rep. Head Assembly	Mirror Size	Overall Length	Extends to
A-2T	–	A-2HD	7/8" dia.	4-1/2"	18"
B-2T	B-2R	B-2HD	1" x 2" oval	4-1/2"	19-1/2"
E-2T	–	E-2HD	1-1/4" dia.	4-1/2"	18-1/2"

Telescoping					
Part No.	Replaceable Mirror	Rep. Head Assembly	Mirror Size	Overall Length	Extends to
C-2	–	C-2HD	2-1/4" dia.	10"	14"
K-2	K-2R	K-2HD	2-1/8" x 3-1/2"	11-1/4"	15-1/4"
HTE-2	–	–	1-1/4" dia.	6-1/2"	35"
HTC-2	–	–	2-1/4" dia.	6-1/2"	36-3/8"
S-2L	–	S-2HD	3-1/4" dia.	6-1/2"	29-1/2"

Telescoping with Magnetic Pick Up					
Part No.	Replaceable Mirror	Rep. Head Assembly	Mirror Size	Overall Length	Extends to
A-2TM	–	A-2HD	7/8" dia.	5-5/8"	19-1/2"
E-2TM	–	E-2HD	1-1/4" dia.	5-5/8"	19-7/8"
B-2TM	–	B-2HD	1" x 2"	5-5/8"	20-3/4"

Telescoping with Magnifying Glass*					
Part No.	Replaceable Mirror	Rep. Head Assembly	Mirror Size	Overall Length	Extends to
MG-2	–	–	2-3/8" dia.	6-7/8"	36-1/8"

Note: With shatter-resistant glass magnifying head

MASTER CLAMPS

- Attaches inspection mirror above to flashlights

Part No.	Description	Mirror Type
87	Fits "AA" cell flashlights	A-2T, B-2T & E-2T
88	Fits "D" cell flashlights	K2, C2, S2 & HTE



87

88

13 WATT SAFTLITE STUBBY LIGHT

- 25" 16/3 SJTOW oil resistant, all weather cord
- 10 AMP rated tool tap in handle
- Popular model - heavy duty cord

Part No.	Description
2113-2506	13 Watt Stubby



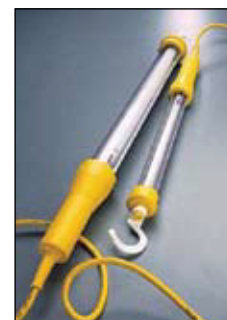
2113-2506

K & H INDUSTRIAL QUALITY PORTABLE WORK LIGHT

- Rugged, safe & simple to maintain
- FM approved
- Replacements parts can be ordered directly from USATCO
- Tubes & starters are standard

8 Watt Midget - 120 VAC, 60 Hz (NEMA 1-15 Plug Included)			
Part No.	Cord	Diameter	Overall Length
8CC-MIG	13' (coiled)	1.25"	16"
825-MIG	25' (straight)	1.25"	16"

15 Watt Mighty - 120 VAC, 60 Hz (NEMA 1-15 Plug Included)			
Part No.	Cord	Diameter	Overall Length
1525T8	25'	2.38"	26.5"
1550T8	50'	2.38"	26.5"



1525T8

Note: 120 VAC, 50 Hz & 220 VAC, 50/60 Hz also available. Please inquire.

K & H HAZARDOUS LOCATION WORK LIGHTS

- FM approved cord, ballast & lamp unit*
- All aluminum body with specially compounded bumper guards
- NEMA 4 watertight

120 VAC, 60 Hz* (Plug Not Included)				
Part No.	Power	Cord	Weight	Overall Length
EP313-16S25	13 Watts	25'	10 lbs.	14-3/4"
EP313-16S50	13 Watts	50'	13 lbs.	14-3/4"
EP326-16S25	26 Watts	25'	10 lbs.	14-3/4"
EP326-16S50	26 Watts	50'	13 lbs.	14-3/4"

Note: 120 VAC, 50 Hz & 220 VAC, 50/60 Hz also available. Please inquire.

Note: Units furnished without plug and are suitable for Class I, Division I Groups C & D; Class II, Division I Groups E, F & G; Class III, Division I.

- FM approved cord, ballast & lamp unit*
- All aluminum body with special rod cage protection
- Tubeshield specially annealed glass with built-in metal reflector

120 VAC, 60 Hz (Plug Not Included)				
Part No.	Power	Cord	Weight	Overall Length
EP215-161-25	15 Watts	25'	12.25 lbs.	27"
EP215-161-50	15 Watts	50'	14.5 lbs.	27"

Note: Units furnished without plug and are suitable for Class I, Division I Group D.



EP313-16S25



EP215-161-26

Air Tool Services
Zenith House Aqueduct Street Preston
Lancashire PR1 7TB

Air Tool Services
01772 557700
www.airtoolservices.co.uk

TYPE T5 AIRCRAFT CABLE TENSIO METERS

- These ruggedly constructed, durable instruments are accurate and reliable
- May be used continuously without resetting or checking
- No temperature error
- Small & lightweight (only 12 oz.)
- Includes appropriate riser blocks, case & documentation
- Many other models available, please inquire

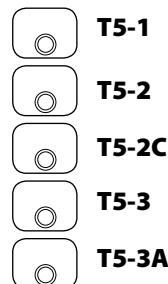


Part No.	For Use on Cables	Reading Interval	Ranges	Riser Used
T5-2006-115-00 TP222-B	1/16"	2 (6 to 22) lbs.	0 to 60 lbs.	#1 Fixed
		5 (25-40) lbs.		
		10 (50 to 60) lbs.		
T5-2002-401-00 TP222F	1/16"	5 (10 to 50) lbs.	10 to 150 lbs.	#1
	3, 5 & 10 CWT	10 (50 to 150) lbs.	10 to 150 lbs.	#2C
	5/32" & 3/16"	5 (10 to 50) lbs.		
	15 & 25 CWT	10 (50 to 150) lbs.	10 to 150 lbs.	#3
	7/32" & 1/4"	5 (10 to 150) lbs.		
35 & 45 CWT	10 (50 to 150) lbs.			
T5-2002-101-00 TP222	1/16", 3/32" & 1/8"	5 (0 to 50) lbs.	10 to 100 lbs.	#1
	5/32" & 3/16"	10 (50 to 150) lbs.	15 to 150 lbs.	#2C
	7/32" & 1/4"	10 (50 to 150) lbs.	20 to 150 lbs.	#3
T5-2002-104-00 TP222A	1/16", 3/32" & 1/8"	10 (30 to 200) lbs.	30 to 200 lbs.	#1
	5/32" & 3/16"	10 (30 to 200) lbs.	30 to 300 lbs.	#2C
	7/32" & 1/4"	20 (30 to 300) lbs.	30 to 300 lbs.	#3
T5-8008-106-00 TP222C	1/8" & 5/32"	20 (40 to 600) lbs.	40 to 600 lbs.	#2
	3/16"			#2C
	1/4"			#3
T5-8003-106000 TP222I	3/16", 7/32", 1/4"	20 (40 to 600) lbs.	40 to 600 lbs.	#2C
	5/16"	50 (300 to 600) lbs.		#3A

T5 TENSIO METER RISER BLOCKS

- In stock
- For T5 type tensiometers

Part No.	Size
T5-1	#1
T5-2	#2
T5-2C	#2C
T5-3	#3
T5-3A	#3A



Air Tool Services
Zenith House Aqueduct Street Preston
Lancashire PR1 7TB

Air Tool Services
01772 557700
www.airtoolservices.co.uk

AIRCRAFT CONTROL CABLE TENSIOMETERS

- These rugged units require no oiling & require a minimum of care
- Convenient dial pointer lock
- Adjustable zero setting dial for cables of different diameters
- Cable size indicator to measure unknown cable diameters
- Includes reference test bar (check calibration), fitted carrying case & instructions

Part No.	For Use on Cables*	Ranges
C8	1/16", 3/32", 1/8", 5/32", 3/16", 7/32" & 1/4"	10 to 200 lbs.
		30 to 200 lbs.
		80 to 200 lbs.
C9	1/8", 5/32", 3/16", 7/32" & 1/4"	150 to 450 lbs.



C8

DIGITAL AIRCRAFT CABLE TENSIOMETERS

- Large, easy to read graphic display with adjustable backlighting
- Select tension values to indicate lbs., kg, or Newtons
- Memory function allows you to store and average up to five readings
- Accuracy is +/-2% full scale for all menu-selectable calibrations
- Weighs 1.5 lbs.
- Rechargeable NiMH battery with power supply provided
- Approximately 6 hours of operation per battery charge
- Includes heavy duty, custom fitted storage case

Part No.	For Use on Cables	Ranges	Resolution
ACX250	1/16", 3/32", 1/8" & 5/32"	20 to 50 lbs.	0.5 lbs.
ACX500	3/32", 1/8" & 5/32"	40 to 500 lbs.	1.0 lbs.



ACX250

AIRCRAFT CABLE TENSIOMETER

Small, lightweight and easy to use, these cable tensiometers are designed to handle a variety of cable sizes

- Calibration charge extra

Part No.	For Use on Cables	Range
TP170	1/16", 1/8" & 3/32"	10 to 70 lbs.
TP170A	5/32" & 3/16"	50 to 350 lbs.

TP170



USI DIFFERENTIAL CYLINDER PRESSURE TESTERS

Differential Cylinder Pressure Tester is a fast and accurate test to help determine worn or cracked rings, locate defective intake or exhaust valves, worn or stripped spark plug bushings or leaky head gaskets, among others. This unit is the best on the market.

- Pre-calibrated
- .040 orifice
- Includes storage pouch
- 2 lbs.

Part No.	Description
TP104	Tester with 18mm Adapter
TP104-9A	18mm Adapter
TP104-9B	14mm Adapter
646953A	Master Orifice Tool



TP104

INDUCTOR DUAL MAGNETO TIMING LIGHT

- 100% solid state
- Bright, color coordinated LED readout & four phase audio signal
- Strong anodized aluminum case

Part No.	Lead Wire Length
TP300B	4'



TP300B

AIRCRAFT DUAL MAGNETO TIMING LIGHT

- Fail safe
- Heavy duty unbreakable case
- Loud variable pitch buzzer & extra bright flashing lights
- Includes batteries & instructions

Part No.	Lead Wire Length	Weight
TP105	3'	1.5 lbs.
E5*	3'	1.5 lbs.

Note: Made by Eastern Tech



TP105

HIGH VOLTAGE CABLE TESTER

- Fused, fail safe circuitry locates defective high voltage leads
- Heavy duty lead wires (36" long, 18 gauge), clips & unbreakable case
- Simulates magneto high voltage output
- Includes warranty & instructions

Part No.	Lead Wire Length	Weight
TP103	3'	1.3 lbs.
E5*	3'	1.5 lbs.

Note: Made by Eastern Tech



TP103

TIMING INDICATOR

- Heavy scratch resistant aluminum face, all aluminum body
- Counterweight plumb indicator
- Top dead center locator dial
- Includes mounting bands, warranty & instructions

Part No.	Accuracy
TP102	0.5° +/-
E25*	1.5 lbs.

Note: Made by Eastern Tech



TP102

Air Tool Services
Zenith House Aqueduct Street Preston
Lancashire PR1 7TB

Air Tool Services
01772 557700
www.airtoolservices.co.uk

TEST KIT

This small test kit is designed to allow the aircraft mechanic a convenient and economical way to purchase the basic small engine test equipment.

Kit includes:

- TP104 cylinder pressure tester
- TP105 magneto timing light
- TP102 timing indicator
- TP103 high voltage cable tester
- TP216 tool box

Part No.	Description	Weight
TP615	Complete Kit	16 lbs.

TP615

AERO ANGLE® DIGITAL PROTRACTOR

- Instant measurements of level, angle & tilt
- Hold button freezes the displayed angle
- 'V' groove in edges for accurate reading on curved surfaces
- Storage box

Part No.	Range	Overall Length
TP464	+/- 45°	5"

**TP464**

SMART TOOL DIGITAL ANGLE FINDER

- Durable & convenient, beeps at level & plumb
- Preferred by homebuilders
- Reads all angles

Part No.	Description	Accuracy	Overall Length
AIT92346	Angle Finder	1/10°	6-1/2"
AIT92288	Angle Finder w/Bar	1/10°	23-3/4"

**AIT92346****AIT92288**

SMART TOOL DIGITAL ANGLE FINDER

- Aluminum construction with wooden handle
- Measures angles between any two planes or any number of planes
- Includes carrying case

Part No.	Range	Resolution & Accuracy	Weight	Overall Length
KS2113	+/-180°	6 minutes	2.0 lbs.	7-1/4"

**KS2113**

PROTRACTOR & DEPTH GAUGE

- Stainless steel construction with permanently etched gradations
- Spring tension nut locks rule for making both depth & angle measurements
- Narrow 6"x1/4" depth gauge rule has etched gradations in 32nds & 64ths

Part No.	Range
AIT19	+/-180°

**AIT19**

Air Tool Services
Zenith House Aqueduct Street Preston
Lancashire PR1 7TB

Air Tool Services
01772 557700
www.airtoolservices.co.uk

FEELER (THICKNESS) GAUGES

- 26 leaves made of the finest precision gauge steel
- Numbers permanently etched into each leaf
- Knurled lock nut holds leaves in desired position
- Meets government specification GGG-G-17b



AIT226

Part No.	Range	Leaf Size
AIT226	.0015" to .025"	3" x 1/2" wide

WIRE & SHEET METAL GAUGE

- American standard wire gauge (0 to 36) for non-ferrous metals
- Chrome finished, heavy gauge hardened & tempered tool steel
- Decimal equivalents stamped on reverse side
- 3-1/4" diameter



AIT20

Part No.	Size	Description
AIT20	0-36	Wire Gauge
AIT21	0-36"	Metal Gauge

BOLT GAUGE

- Sizes all bolts up to 5/8" diameter & 5" long
- Complete instructions & bolt identification data on reverse side



TP789

Part No.	Overall Dimensions
TP789	5-1/2" x 6"

QUICK CHECK SCREW GAUGE

The Quick Check Screw Gauge provides a simplistic way to identify the diameters of machine screws, bolts, wood screws, rivets and cotter pins (up to 5/16"). The cross-reference table matches drill bit and tap sizes, and threaded holes indicate threads per inch. There is also a 3" rule for measuring screw lengths.

- For identifying screws, bolts, rivets and common cotter pin sizes (up to 5/16")
- Cross-reference drill bit and tap guide
- Threaded holes for measuring threads per inch
- Screw sizes indicated in numbers and fractions of an inch
- 3" rule for measuring screw lengths
- Made of durable engineering plastic



AIT714

Part No.	Description
AIT714	Gauge for screws, bolts & rivets

TRAMMEL SET

The Precision Trammel Set attaches easily to a large rule or yard stick for expeditious marking of arcs and circles. The set includes two scriber points and two pencil points, with storage in the body. The steel features a reversible point for safe storage within the body.

- Set will fit any rule 1/2" to 1-1/8" thick
- Includes 2 scriber points and 2 pencil points
- Storage in body
- Reversible points for storage
- Aluminum knurled body
- Ruler not included in set



AIT524

ULTRATEST® STEEL RULERS

- Ultra fine black gradations on hard satin chrome finish for easy reading
- Easy read type are black with with gradations

5R Graduations*			
Part No.	Type	Width	Overall Length
CF645	Flex	1/2"	6"
CF1245	Flex	1/2"	12"
CF1216	Flex	15/32"	12"
CF1845	Flex	3/4"	18"
CF2445	Flex	3/4"	24"

CF645

CF2445

4R Graduations*			
Part No.	Type	Width	Overall Length
CF634	Flex	15/32"	6"
CF1264	Rigid	1"	12"

English/Metric			
Part No.	Type	Width	Overall Length
CF649MD	Flex	1/2"	6"
CF1249MD	Flex	1/2"	12"

Note: 4R Graduation: 8ths, 16ths, 32nds & 64ths. 5R Graduations: 32nds, 64ths, 10ths & 100ths. English/Metric Graduations: 32nds, 64ths, 0.5mm & 1mm.

FABRIC TESTER

- Test for FAA requirements without removing or punching holes in fabric
- Stainless steel construction

Part No.	Accuracy	Overall Length
TP180	+/-1 in. lbs.	7"



TP180

TRUTACH II DIGITAL PROPELLER TACHOMETER

The new all digital TruTach II measures propeller RPM to a remarkable accuracy of 1 RPM. It features a digital signal filter that eliminates noise and gives solid readings. TruTach II works on single or multi-engine propeller aircraft with 2, 3, 4 or 5 blades, and it never needs adjustment. Easily check calibration anytime with a standard light. RPM range 240-7000 RPM. Uses a standard 9 volt battery (included). Compact 3.8 x 2.4 x 1.5 inches and weighs just 4 ozs. Includes impact resistant carrying case. 5 year warranty. Designed and built in the USA by Pilots for Pilots.



Part No.	Description
TruTach II	Digital Tach

CERMARK DIGITAL PROPELLER TACHOMETER

The all-digital design of this tachometer makes it accurate to within 10 RPM at all scales. Its large LCD display updates two times a second for nearly continuous readout. Use it from inside your cockpit to monitor the performance of your aircraft tachometer.

- One hand operation - control everything by pressing only one button
- Automatic power off feature saves battery power
- Reads 10 to 10,000 RPM in 10 RPM increments
- Direct reading of 2, 3 and 4 bladed propellers
- Uses standard 9 volt battery (not included)

Part No.	Description
AIT310B	Digital Tach

AIT310B

CERMARK DIGITAL PROPELLER TACHOMETER

- Dual scales lbs., nm
- Positive lock with spring-loaded pull down lock ring
- Meets or exceeds ASME B107.14M-1994, ISO 6789 standards
- Fast, accurate & easy to set
- Ratchet head
- Fitted plastic case included



TCI-250FRN

Inch Pound						
Part No.	Square Drive	Torque Range in-lbs.	nm	Increments	Weight	Overall Length
TCI-150RA	1/4"	30-150	2.8-17.5	1.0	0.9 lbs.	9.5"
TCI-150RA-3/8	3/8"	30-150	2.8-17.5	1.0	0.9 lbs.	9.5"
TCI-250R	3/8"	50-250	5.0-28	1.0	3.0 lbs.	12.5"
TCI-750R-1/2	1/2"	150-750	-	5.0	2.5 lbs.	14.5"

Foot Pound						
Part No.	Square Drive	Torque Range ft-lbs.	nm	Increments	Weight	Overall Length
TCI-75RN	3/8"	15-75	24-105	.5	2.2 lbs.	14.25"
TCI-150FRD	1/2"	30-150	47-210	1.0	2.8 lbs.	18.5"
TCI-250FRN	1/2"	50-250	75-346	1.-	3.5 lbs.	21.5"