

CYLINDER BASE NUT WRENCHES

Designed with a 1/2" square drive, these rugged hex head cylinder base wrenches are made to last. The hex heads are extra thin for easy access over the cylinder bolts. They are available individually or as a complete 4-piece set. A few of the engines and required size wrenches are in chart on right.

- For continental engines
- 12 point hex wrench end
- Made from alloy steel forgings, heat-treated for maximum strength and toughness
- .88 lbs.

| Part No. | Size |
|----------|-----------|
| TP2882 | 9/16" hex |
| TP2882-2 | 1/2" hex |
| TP2882-3 | 5/8" hex |
| TP2882-4 | 3/4" hex |
| TP2882K4 | Set of 4 |

- For lycoming engines (narrow deck)
- For socket type nuts (internal wrenching)
- Standard 1/2" square female drive end
- Made from alloy steel forgings, heat treated for maximum toughness

| Part No. | Size |
|----------|----------|
| TP6494-2 | 1/2" hex |
| TP6494-3 | 3/8" hex |
| TP6494K | Set of 2 |



| Engine Type | Wrench |
|---------------------|-----------------------|
| A40, A50, A75, A80 | 1/2" - 9/16" |
| O200, C75, C85, C90 | 1/2" - 9/16" |
| O300, C125, C145 | 1/2" - 9/16" |
| IO360 | 1/2" - 9/16" |
| E165, E185, E225 | 1/2" - 9/16" |
| 520 & 470 | 5/8" - 9/16" |
| IO232 series | Hex LH & RH Std. Type |



PUSH ROD SPRING COMPRESSOR

For compressing and holding push rod springs on all engines with spring-loaded tubes. The tool compresses the spring that can then be removed with furnished clips. Eliminates wiring springs together - to install, simply insert springs & pull of clip.

| Part No. | Size |
|----------|------------------|
| TP384 | Push Rod & Clips |



PUSH ROD FLARING TOOL

- For A & C series - expanding ball type tool
- Balls rotate inside housing, expanding it into the boss

| Part No. | Size |
|----------|---------------|
| TP385 | Complete Tool |



BUSHING & BEARING DRIVE SET

- Remove or install internal bushings and bearings
- All poarts are hardened and rustproof plated
- Handy storage case

| Part No. | Description | Weight |
|----------|--------------------------|----------|
| TP348 | 22 pcs. 3/8" to 1-3/8" | 5.0 lbs. |
| TP348A | 10 pcs. 15/16" to 1-7/8" | 3.5 lbs. |



TP348

VALVE SPRING COMPRESSOR – LYCOMING TYPE

- Fits all lycoming parallel valve and angle valve, horizontally opposed engines
- Lightweight aluminum construction
- Fits on rocker shaft

| Part No. | Description |
|----------|--------------|
| TP686 | Rocker Shaft |



TP686

- Fits all continental and lycoming engines
- Small case, easy to use - the hook installs on rocker shaft (or on special rocker nut furnished) and c-shaped collar compresses spring to allow keeper removal
- All stress parts heat-treated

| Part No. | Description |
|----------|-------------|
| TP227 | 18" Long |



TP227

ENGINE CYLINDER HONE

Hone and remove glaze from engine cylinders from 2" to 7" in diameter. Adjust spring tension for positive cutting action and set diameter with spread limiter.

| 240 Grit | |
|----------|-----------------------|
| Part No. | Description |
| KD2833 | Hone with Stones |
| KD2835 | Replacement Stones 4" |

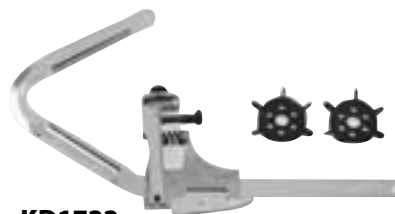


KD2833

PISTON RING GROOVE CLEANER

Effectively removes carbon from ring grooves on pistons 2" to 5". The two 6-bladed cutters cover all mamor piston ring grooves in SAE and metric sizes. Cutters rotate to any selected size, locking in place with hold-down nut.

| Part No. | Description |
|-----------|-----------------------|
| KD1722 | 6 Blade Cutter |
| KD1722-71 | Replacement Blade Kit |



KD1722

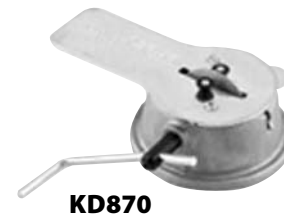
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PISTON RING FILER

File piston rings with this portable rotary filer. Use to accurately size any make or diameter ring. Filer includes extra-hard, fine-grit carbide-coated cutter file.

| Part No. | Size |
|----------|--------------------|
| KD870 | Filer |
| KD872 | Replacement Cutter |



KD870

PISTON RING COMPRESSORS

Use these bands to compress piston rings from 2-7/8" to 4-5/8" in diameter. Band width: 1-1/2".

| Part No. | Size |
|----------|------------------|
| KD1119 | 2-7/8" to 3-1/8" |
| KD1120 | 3-1/8" to 3-3/8" |
| KD1121 | 3-3/8" to 3-5/8" |
| KD1122 | 3-5/8" to 3-7/8" |
| KD1123 | 3-7/8" to 4-1/8" |
| KD1124 | 4-1/8" to 4-3/8" |
| KD1125 | 4-3/8" to 4-5/8" |
| KD1114 | Pliers |



KD1119



KD1114

MAGNETO LOCK TOOL

- "E" gap timing aid for Bendix magnetos
- Locates and secures magneto position while out of engine
- Holds position during installation

| Part No. | Size |
|----------|-----------|
| TP259 | Lock Tool |



TP259

MAGNETO LOCK TOOL

The P-Lead Adapter is unique in it allows connection to the magneto timer leads for all aircraft bendix magnetos. It provides immediate and positive connection and eliminates those old stripped blade P-Leads. It also insures the proper spring pressure against the intense contact.

| Part No. | Works With |
|----------|------------------------------|
| AIT8765 | Early S-2- mags 3/8" |
| AIT8766 | All other S-series mags 1/4" |
| AIT8767 | D2000 & D3000 series mags |
| AIT8768 | Set of all 3 adapters |



AIT8766

SPARK PLUG CLEANER

- Cleans any size plug without changing grommet
- 2-way valve
- Complete with abrasive powder and bag

| Part No. | Description |
|----------|-----------------|
| TP12 | Cleaner |
| TP163 | Powder |
| TP164 | Replacement Bag |



TP12

SPARK PLUG SERVICE KIT

| Part No. | Description |
|----------|---|
| TP12K | Includes 1 ea: TP12, TP164, TP163, TP298, TP339 & TP340 |

TP12K



SPARK PLUG VIBRATING CLEANER

Ideal tool for removing stubborn lead & carbon deposits around the electrodes, without damaging the plug.

- Hand held
- 120V - 60Hz power required
- Includes 2 replacement tips, collets, and storage pouch

| Part No. | Description |
|----------|-------------------|
| TP857A | Vibrator Cleaner |
| TP857-1 | Replacement Blade |



TP857A

SPARK PLUG CLEANER/TESTER

This is a very good, yet relatively inexpensive, method for both cleaning and testing your spark plugs. Cleans with a powerful blast of air and abrasive to quickly remove the carbon deposits. Once cleaned, the plug is screwed into the test side of the unit and by observing the quality of the spark at the electrode you can determine the effectiveness of the plug. This test is done using up to 150psi air pressure.

| Part No. | Description | Weight |
|----------|---|-----------|
| TP237 | 115 Volt supplied with a 12mm, 14mm & 18mm threaded adapter | 20.5 lbs. |



TP237

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SPARK PLUG GAPPER

- Designed for use on all massive electrode spark plugs
- Eliminates guessing of plug gap

| Part No. | Description |
|----------|-------------|
| TP340 | Gapper |



TP340

AIRCRAFT SPARK PLUG GAUGE

| Part No. | Description |
|----------|--|
| KD165 | Wire Gauge Size .015, .018, .020, .022, .028, .030, .045 |



KD165

SPARK PLUG GAP SETTING TOOL

Designed for use as a hand tool, bench or vise hold

- Low cost, efficient gap tool
- Close gaps on massive electrodes type spark plugs

| Part No. | Description |
|----------|--|
| TP200 | Complete with two adapters and gap gauge |



TP200

SPARK PLUG SOCKET

- 1/2" square drive x 7/8" hex - extra deep
- A "built-in" permanent magnet holds plug from dropping
- Especially designed for shielded aviation spark plugs

| Part No. | Description |
|----------|-------------------|
| TP329 | Spark Plug Socket |



TP329

LEAD-MASTER WRENCH

- Reduce time to remove and install spark plug ignition leads
- Permits short arc turning with 12 point grip head

| Part No. | Size |
|----------|------|
| TP644 | 3/4" |
| TP645 | 7/8" |



TP644

SPARK PLUG CHASER

- Renews damaged threads

| Part No. | Description |
|----------|----------------------------|
| TP784 | Fits 14mm and 18mm threads |



TP784

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SPARK PLUG TRAY

- Sturdy steel tray holds up to 12 aviation spark plugs
- Holes numbered to correspond with engine cylinders

| Part No. | Description | Weight |
|----------|--------------|--------|
| TP339 | 12 Hole Tray | 1 lbs. |

TP339



ECONOMY SPARK PLUG HOLDER

- Manufactured from 100% recycled plastic
- Impervious to water, chemicals & solvents that could be associated with the cleaning of spark plugs.
- 9" long x 4" wide x 4" high
- Each tray holds 12 plugs and each hole is labeled for easy identification
- Made in the U.S.A.

| Part No. | Weight |
|----------|--------|
| TP797 | 3 lbs. |



TP797

CHAMPION PLUG THREAD LUBRICANT

- High temperature graphite lubricant
- Used to prevent galling and seizure of spark plug thread
- Sturdy plastic 4 oz. bottle, with brush attached to cap

| Part No. | Description |
|----------|-------------|
| TP470 | Lubricant |

TP470



FOWLER SPARK PLUG INSPECTION MAGNIFIER

A 10x magnifier of the highest optical quality. This is the type of tool recommended by spark plug manufacturers such as Champion for the inspection of spark plug firing end insulators. Includes optical scales to take measurements of the inspection area. Requires two "C" batteries (not included).

| Part No. | Description | Weight |
|----------|---------------|----------|
| AIT1966 | 10x Magnifier | .38 lbs. |



AIT1966

OIL FILTER CUTTERS

- Ball bearing rollers & replaceable cutter wheel
- All aluminum construction

| Part No. | Description |
|----------|----------------------------|
| TP271 | Standard Oil Filter Cutter |
| TP271-7 | Replacement Cutter Wheel |



TP271

Airwolf Oil Filter Cutter

- Anodized 6061-T6 aluminum with stainless steel rollers
- Hardened 60 rockwell cutting wheel

| Part No. | Description |
|----------|---------------------------|
| TP876 | Airwolf Oil Filter Cutter |
| TP876-1 | Replacement Cutter Wheel |



TP876

- Made of anodized 6061 aluminum
- Cutter wheel is easily replaced

| Part No. | Description |
|----------|----------------------------|
| TP881 | Standard Oil Filter Cutter |
| TP881A | Replacement Cutter Wheel |



TP881

OIL FILTER DRAIN KIT

Usable on any horizontal mounted oil filter. Allows you to drain oil from filter prior to removal. No spills or additional mess to clean up.

| Part No. | Description |
|----------|----------------------------|
| TP433 | Fitting, Hose Complete Kit |

TP433



PROPELLER SHAFT OIL SEAL INSTALLER

- Fits both continental and lycoming engines
- For all flanged shafts
- Installs one piece stretch seals without damaging sealing surfaces

| Part No. | Description |
|----------|-------------------------|
| TP398 | Flanged Shaft Installer |



TP398



OIL FILTER DRAIN KIT

Heli-Coil® Aviation Spark Plug Thread Repair Kits

Using Heli-Coil® serrated aviation inserts is the only FAA approved method of repairing damaged spark plug threads. It is also the only method certified by engine manufacturers such as Teledyne-Continental and Textron-Lycoming. Serrated inserts, unlike regular inserts, require special tools to insert, expand and stake them in place. These kits contain everything you will need including: piloted tap, insertion tool, offset and staking tool, expanding tool, 20 serrated inserts (10 each 1/2" and 13/16" long inserts for the 18mm kit and 10 each 3/8" and 1/2" long inserts for the 14mm kit), and complete instructions.

| Part No. | Description |
|----------|-------------------------------------|
| 4260-18 | 18mm Aviation Spark Plug Repair Kit |
| 4260-14 | 14mm Aviation Spark Plug Repair Kit |

4260-18



Heli-Coil® Spark Plug Repair Kit (non-serrated)

These repair kits are very popular with experimentalists and kit builders as an economical alternative to serrated inserts. They contain everything you'll need to make on-the-spot engine repairs. Includes piloted tap, and installation tool, and 24 inserts. *Note that the use of non-aviation Heli-Coil inserts may not be approved for your engine. Check with the manufacturer before using.*

| Part No. | Description |
|----------|----------------------------|
| 5523-18 | 18mm Spark Plug Repair Kit |
| 5523-14 | 14mm Spark Plug Repair Kit |

5523-18



Heli-Coil® Master Repair Kit

Kit includes taps, inserts, drill specifications and instructions for repairing a wide range of the most commonly experience coarse thread repair problems. Includes inserts in the following sizes (and quantity): 1/4x20 (12), 5/16x18 (12), 3/8x16 (12), 7/16x14 (6), 1/2x13 (6). Custom molded case also included.

| Part No. | Thread |
|----------|--------|
| 4934 | Coarse |
| 4936 | Fine |

4934



OIL FILTER DRAIN KIT

Each pack includes inserts, insertion tool, and tap.

| Part No. | Thread |
|----------|---------|
| 5401-04 | 4-40 |
| 5401-05 | 5-40 |
| 5401-06 | 6-32 |
| 5401-1 | 12-24 |
| 5401-2 | 8-32 |
| 5401-3 | 10-24 |
| 5401-4 | 1/4-20 |
| 5401-5 | 5/16-18 |
| 5401-6 | 3/8-16 |
| 5401-7 | 7/16-14 |
| 5401-8 | 1/2-13 |

| Part No. | Thread |
|----------|---------|
| 5402-06 | 6-40 |
| 5402-2 | 8-36 |
| 5402-3 | 10-32 |
| 5402-4 | 1/4-28 |
| 5402-5 | 5/16-24 |
| 5402-6 | 3/8-24 |
| 5402-7 | 7/16-20 |
| 5402-8 | 1/2-20 |
| 5402-9 | 9/16-18 |
| 5402-10 | 5/8-18 |
| 5402-12 | 3/4-16 |



5401-04

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OLEO AIRCRAFT STRUT PUMP

- Simple, safe & economical factory rebuilt units
- 1/8" NPT female thread

| Part No. | Description |
|----------|-------------|
| TP286 | 1500 lbs. |



TP286

HIGH PRESSURE STRUT VALVES

- Manufactured in strict accordance with AN & MS specifications
- Made of corrosion resistant alloy steel to withstand high pressures

| Part No. | Max. Operating Pressure | Includes |
|----------|-------------------------|----------------------|
| 8990-C | 3000 psi | 302-DN Core, 637 Cap |
| 9019-C | 5000 psi | MS-28889-2 |
| SK-15171 | 2000 psi | 302-DN Core, 637 Cap |

VALVE CORES & CAPS

- Manufactured in strict accordance with AN & MS specifications
- Precision built, rigidly tested & 100% electronically inspected

| Valve Cores | | | |
|-------------|----------------|-----------------|----------------------------------|
| Part No. | Pressure Range | Operating Temp. | Meets Military Spec. |
| 402-AH | 0 to 550 psi | -65° to 350°F | MIL-V-27317, TR C-4 & MS-51377-4 |
| 302-DN | 70 to 2000 psi | -65° to 225°F | MIL-C-5499 & AN-809-1 |
| 70-HT | 0 to 450 psi | -40° to 350°F | MIL-V-27317 |

| Caps | | | |
|----------|----------------|-----------------|----------------------|
| Part No. | Pressure Range | Operating Temp. | Meets Military Spec. |
| 637 | 0 to 5000 psi | -65° to 160°F | MS-20813-1 |
| 2114** | 0 to 250 psi | -40° to 450°F | - |

*Note: When oiled.

**Note: Large bore model.



402-AH

TIRE VALVE REPAIR TOOL

- Handy 4-in-1 standard valve tool repairs cap & core threads
- Easy out feature for removing damaged cores & screwdriver for standard cores

| Part No. | Description |
|----------|------------------------|
| 3522 | Tire Valve Repair Tool |



3522

VALVE CORE REMOVAL TOOL

- For rapid & safe tire deflation
- Exhausts air towards wheel & traps the valve core within the tool
- Knurled design for easy handling

| Part No. | Description |
|----------|-------------------------|
| ATSK3614 | Valve Core Removal Tool |



ATSK3614

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VALVE CORES & CAPS

| Part No. | Type | Thread | Side Hose Connector |
|----------|----------|------------------|---------------------|
| TP506 | T-Handle | .305"-32 | 1/8 NPT |
| TP506S | | Replacement Seal | |



TP506

VALVE CORES & CAPS

- .305-32 thread
- 1/8" NPT female thread

| Part No. | Style | Working Pressure | Proof Pressure |
|----------|-----------|------------------|----------------|
| TP505 | Gooseneck | 3000 | 10,000 |
| TP5055S | | Replacement Seal | |



TP505

LEVER CONTROL TYPE INFLATING GAUGES

- Three foot hose length for safe distance when mounting tires

| Part No. | Air Chuck | Range |
|------------|-----------|---------------|
| AIT3500C-D | Clip-On | 10 to 120 psi |
| AIT3651C-D | Dual Foot | 10 to 120 psi |

TIRE & PRESSURE GAUGES

- Bourdin type dial gauge with flexible hose & 6" dual chuck
- Includes recalibration screw for adjustments & metal carrying case

| Part No. | Range | Overall Length |
|----------|-----------|----------------|
| TP377 | 6 to 160 | 12" |
| TP377A | 6 to 300 | 12" |
| AIT8844B | 0-400 psi | 18" |



TP377

Note: Includes three metal extensions.

HYDRAULIC SHOCK STRUT GAUGE

- Screw type locking chuck securely attaches to valve
- Includes drain cock for bleeding pressures & metal carrying case

| Part No. | Range | Overall Length |
|----------|---------------|----------------|
| AIT8874* | 0 to 400 psi | 18" |
| AIT8875 | 0 to 1500 psi | 25" |
| AIT8876 | 0 to 3000 psi | 18" |

Note: Includes three metal extensions.



8874

TIRE & PRESSURE GAUGES

- Bourdin type dial gauge with flexible hose & 6" dual chuck
- Includes recalibration screw for adjustments & metal carrying case

| Part No. | Description | Weight |
|----------|--------------|---------|
| TP301TB | Bead Breaker | 31 lbs. |



TP301TB

AMMCO BRAKE BLEEDER

- Diaphragm type
- Separates fluid from pressurized air
- Safety relief valve
- Equipped with swivel casters
- 4 gallon fluid reservoir
- 12' hose assembly
- Quick-change and auto shutoff
- Dual scale pressure gauge 0-31 psi range
- Compatible with mil-spec 5606 type fluid

| Part No. | Description | Weight |
|----------|----------------|----------|
| TP293 | Fills & Bleeds | 2.1 lbs. |



TP293

BRAKE BLEEDER TANK

- Fills and bleeds brakes in a single operation
- One gallon capacity with handle and dip stick
- Pressure release safety valve and pressure gauge
- 3" neoprene hose
- Compatible with MIL 5606
- Plastic tank

| Part No. | Description | Weight |
|----------|----------------|--------|
| TP458 | Fills & Bleeds | 6 lbs. |



TP458

HOSE ASSEMBLY TOOLS

These are hand assembly tools for use on MS24587 and MS27404AN flared fittings. Use of the correct tool will reduce damage to the inner sleeve and speed assembly line time.

| Part No. | Use on Fitting |
|----------|-------------------|
| TP491-3 | -3 3/8-24 Thread |
| TP491-4 | -4 7/16-20 Thread |
| TP491-5 | -5 1/2-20 Thread |
| TP491-6 | -6 9/16-18 Thread |
| TP491-8 | -8 3/4-16 Thread |
| TP491-10 | -10 7/8-14 Thread |



TP491-3

AIR OPERATED SEALANT GUNS

- Smooth, uniform flow of material applied exactly where you want it
- Included zinc plated corrosion resistant retainer prevents cartridge split
- Hose assembly ordered separately

| Part No. Pistol Grip Style | Part No. Palm Grip Style | Capacity |
|-------------------------------|-----------------------------|----------|
| 950-25HA | 950-25A | 2.5 oz. |
| 950-60HA | 950-60A | 6 oz. |
| 950-120HA | 950-120A | 12 oz. |

SEM250065

AIR OPERATED SEALANT GUN KITS

- Convenient & economical

Kit includes:

- Pistol Grip Sealant Gun, 6 ea. Cartridges/Plungers, 1 ea. Cartridge Cap & Plug, 6 Assorted Nozzles and Air Hose



12054A

| Part No. | Description |
|----------|----------------------|
| 12053A | 2.5 oz. Capacity Kit |
| 12054A | 6 oz. Capacity Kit |
| 12055A | 12 oz. Capacity Kit |

MANUAL SEALANT GUNS

- Portable, no air supply required
- Excellent for 'in-field' application on sealants
- Utilizes all standard cartridges & nozzles

| Part No. | Cartridge Capacity |
|----------|--------------------|
| 1832-2 | 2.5 oz. |
| 1832-6 | 6 oz. |
| 1832-12 | 12 oz. |

1832-6

AIR HOSE ASSEMBLIES

- Includes 'B' nut for attachment to any of our air operated sealant guns

| Part No. Aro Connect | Part No. Hansen Connect | Part No. Schrader Connect | Overall Length |
|-------------------------|----------------------------|------------------------------|----------------|
| SEM280012 | SEM280000 | SEM280006 | 5' |
| SEM280013 | SEM280001 | SEM280007 | 10' |



SEM280012

SEMCO SEALANT GUN RETAINERS

- Zinc plated corrosion resistant retainers prevent cartridge split

| Part No. | Capacity |
|-----------|----------|
| SEM220256 | 2.5 oz. |
| SEM220928 | 6 oz. |
| SEM220923 | 12 oz. |



SEM220928

SEMCO DISPOSABLE PLASTIC CARTRIDGES

- For use with air or manual operated dispensing devices
- Low-density polyethylene*
- High-density available, please inquire

| Part No. Cartridge Only | Part No. Cartridge & Plunger | Capacity |
|----------------------------|---------------------------------|----------|
| SEM220315 | SEM220323 | 2.5 oz. |
| SEM220317 | SEM220325 | 6 oz. |
| SEM220321 | SEM220329 | 12 oz. |



sem220317

Note: 'P' type plunger

PLASTIC PLUNGERS

- 'P' type - other styles available

| Part No. | Size |
|-----------|-------------------|
| SEM220252 | One Size Fits All |



SEM220252

PLASTIC CARTRIDGE CAPS

| Part No. | Description | Size |
|-----------|------------------------------|-------------------|
| SEM220245 | Front End Cap "TS" Seal Type | One Size Fits All |
| SEM22-238 | Flange End Cap | One Size Fits All |

SEMKIT PACKAGE MIXERS

Pneumatic Semkit Auto Package Mixer 388 Model

- Automatic mixing of Semkit packages, assures a thorough and uniform mix
- Easy to operate, timer shuts off mixer at preset mix time
- Eliminates mixing labor and worker fatigue

| Part No. | Type | Weight |
|-----------|----------------|---------|
| SEM232523 | Pneumatic Auto | 75 lbs. |

Note: Other Semco products available, please inquire.



SEM232523

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NOZZLES

| Part No. | Orifice | Overall Length | View |
|----------|--------------|----------------|------|
| SEM252 | 1/16" | 2-1/2" | |
| SEM254 | 1/8" | | |
| SEM410 | 1/32" | 4" | |
| SEM415 | No Orifice | | |
| SEM420 | 1/16" | | |
| SEM430 | 3/32" | | |
| SEM440 | 1/8" | | |
| SEM620 | 1/16" | 6" | |
| SEM640 | 1/8" | | |
| SEM8613 | 3/64" x 3/8" | 5" | |
| SEM8615 | 1/16" x 1/2" | 4" | |
| SEM8643 | 1/8" x 3/4" | 4-1/2" | |
| SEM8645 | 1/8" x 1" | 4-3/8" | |
| SEM8646 | 1/16" | 3-15/16" | |
| SEM8648 | 1/8" | 5-3/16" | |

FILLET NOZZLES

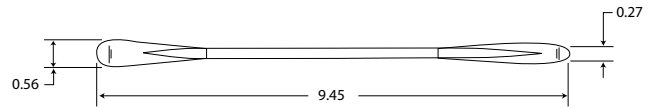
- For application of sealant fillets over lap joints
- Can eliminate the need for working of sealant with spatulas
- Built-in step guides nozzle along lap joint

| Part No. | Step | Overall Length |
|----------|------------|----------------|
| SEM425 | .12" Right | 3-3/4" |
| SEM426 | .06" Right | 3-3/4" |
| SEM427 | .12" Left | 3-3/4" |
| SEM428 | .06" Left | 3-3/4" |

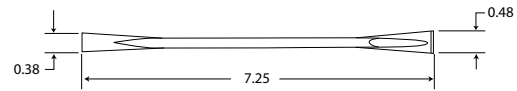
SEALANT SMOOTHING TOOL

- Reinforced plastic spreaders for tooling & smoothing sealants

| Part No. | Description |
|-----------|------------------------|
| SEM231349 | Sealant Smoothing Tool |
| SEM226243 | Sealant Smoothing Tool |



SEM231349

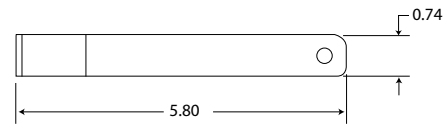


SEM226243

SCRAPER

- Reinforced plastic scraper designed for aircraft sealants, paints & glue

| Part No. | Description |
|----------|-------------|
| SEM23450 | Scraper |



SEM234350

PAINT CUTTERS

- Reduces excess paint chip during screw removal process
- Cuts a ring into paint around the screw head

| Part No. | Screw Size | Shank |
|----------|------------|---------|
| AIT13400 | #4 | 1/4"-28 |
| AIT13401 | #6 | 1/4"-28 |
| AIT13402 | #8 | 1/4"-28 |
| AIT13403 | #10 | 1/4"-28 |
| AIT13407 | 1/4" | 1/4"-28 |



AIT13400

RAZOR SOCKETS

The Razor Socket was specifically designed to cut quickly through mastic-coated nuts, in aviation-specific areas such as fuel tank inspection panels. Eliminates the need to scrape prior to removal. Effective and efficient!

| Part No. | Description |
|----------|--|
| STM8RAZ | Socket, Razor Cut, 1/4" Square Drive for 1/4" Nut |
| STM10RAZ | Socket, Razor Cut, 1/4" Square Drive for 5/16" Nut |
| STM12RAZ | Socket, Razor Cut, 1/4" Square Drive for 3/8" Nut |



STM12RAZ



STM10RAZ



STM8RAZ

MASTIC REMOVAL KIT

Specifically formulated for T-3 aluminum, the blades in this kit were designed to remove mastics, PRC and other applications without scratching sensitive and painted surfaces. Approved for use by the U.S. Air Force, the AT590MRK Kit contains an assortment of 16 blades and an ergonomic rubber handle.



| Part No. | Description |
|----------|--------------------|
| AT590MRK | 16 Blades & Holder |

| Part No. | Description |
|----------|--|
| AT590MRK | Mastic Removal Kit, consisting of 1 ea. AT580H handle, 6 ea. AT7001 Blade, 6 ea. AT7005 Blade & 3 ea. AT7014 Blade |
| AT580H | Handle, ergonomic rubber |
| AT7001 | Blade, Mastic Removal, T-3 Grade, 1" diameter |
| AT7034 | Blade, Mastic Removal, T-3 Grade, 3/4" diameter |
| AT7005 | Blade, Mastic Removal, T-3 Grade, 1/2" diameter |
| AT7014 | Blade, Mastic Removal, T-3 Grade, 1/4" diameter |
| AT7018 | Blade, Mastic Removal, T-3 Grade, 1/8" diameter |

GROUND WIRE HOLE BURNISHING KIT

Specifically designed to clean the paint and oxidation from the surfaces surrounding holes used for ground wire attachment. Each kit contains four reversible "Type N" burnishing pads, four extensions, one positive screw-in type burnishing head, and one negative and positive collet-type burnishing head.

| Kit | |
|-------------|---------------------|
| Part No. | Description |
| AT3767 | 10 pc. Kit |
| ATSK3767-10 | #10 Burnishing Head |
| ATSK3767-20 | #20 Burnishing Head |
| ATSK3767-30 | #30 Burnishing Head |
| ATSK3767-40 | #40 Burnishing Head |



Hole prepared by a typical wire brush demonstrating terrible overall surface contact.



Hole prepared by the new ATI Burnishing Kit using the type 'N' pads demonstrating an absolute perfect surface for overall contact.

WISE GRIP/IRWIN® LOCKING C-CLAMPS

**11SP****11R**

| Steel Pad Tips | | | | |
|----------------|--------------|--------------|----------|----------------|
| Part No. | Throat Depth | Jaw Capacity | Weight | Overall Length |
| 6SP | 1-1/2" | 0 to 2-1/8" | 0.6 lbs. | 6" |
| 11SP | 2-5/8" | 0 to 4" | 1.8 lbs. | 11" |
| 18SP | 9-1/2" | 0 to 8" | 2.8 lbs. | 18" |
| 24SP | 15-1/2" | 0 to 10" | 3.6 lbs. | 24" |

| Regular Tips | | | | |
|--------------|--------------|--------------|----------|----------------|
| Part No. | Throat Depth | Jaw Capacity | Weight | Overall Length |
| 6R | 1-1/2" | 0 to 2-1/8" | 0.5 lbs. | 6" |
| 11R | 2-5/8" | 0 to 4" | 1.7 lbs. | 11" |
| 18R | 9-1/2" | 0 to 8" | 2.7 lbs. | 18" |

WISE GRIP/IRWIN® SHEET METAL CLAMP

**8R****9AC****9R**

| Part No. | Throat Depth | Jaw Capacity | Weight | Jaw Width |
|----------|--------------|--------------|----------|-----------|
| 8R | 1-3/4" | 1/2" | 1.0 lbs. | 3-1/8" |

| Locking Welding Clamp | | | | |
|-----------------------|--------------|--------------|----------|----------------|
| Part No. | Throat Depth | Jaw Capacity | Weight | Overall Length |
| 9R | 1-5/8" | 2-3/4" | 1.0 lbs. | 9" |

| Locking Panel Clamp | | | | |
|---------------------|--------------|--------------|----------|----------------|
| Part No. | Throat Depth | Jaw Capacity | Weight | Overall Length |
| 9AC | 1-3/4" | 3/8" | 1.0 lbs. | 3-1/8" |

WISE GRIP/IRWIN® LOCKING JAW PLIERS

- ProTouch™ Cushioned Grips on most models (SG)

| Straight Jaw | | | |
|--------------|--------------|----------------|----------|
| Part No. | Jaw Capacity | Overall Length | Weight |
| 03SG | 1-5/16" | 7" | 0.9 lbs. |
| 01SG | 1-3/4" | 10" | 1.3 lbs. |

03SG

| Curved Jaw | | | |
|------------|--------------|----------------|----------|
| Part No. | Jaw Capacity | Overall Length | Weight |
| 13SG | 1-1/2" | 7" | 0.8 lbs. |
| 11SG | 1-7/8" | 10" | 1.2 lbs. |

11SG

Long Nose Locking Pliers with Wire Cutter

- Tapered nose ideal for delicate work, tight spaces & clamping of small parts

| Part No. | Jaw Capacity | Overall Length | Weight |
|----------|--------------|----------------|----------|
| 14SG | 2" | 6" | 0.8 lbs. |
| 15SG | 2-3/4" | 9" | 1.2 lbs. |

14SG

Curved Jaw Locking Pliers with Wire Cutter

- Wire cutter will handle anything up to 1/4" bolt

| Part No. | Jaw Capacity | Overall Length | Weight |
|----------|--------------|----------------|----------|
| 4WR | 15/16" | 4" | 0.3 lbs. |
| 09SG | 1-1/8" | 5" | 0.4 lbs. |
| 07SG | 1-1/2" | 7" | 0.8 lbs. |
| 05SG | 1-7/8" | 10" | 1.2 lbs. |

4WR

Large Jaw Locking Pliers

- Heavy duty jaw locks around work of all shapes and will not slip
- Ideal for plumbers, mechanics & welders

| Part No. | Maximum Opening | Overall Length |
|----------|-----------------|----------------|
| 12LC | 3-1/8" | 12" |
| 12SG | 3-1/8" | 12" |

12LC

NICKEL PLATED SPRING CLAMPS

- Corrosion resistant
- Ergonomic handle shape with protective handles & tips

| Part No. | Jaw Capacity | Overall Length |
|----------|--------------|----------------|
| 1HT | 1" | 4" |
| 2HT | 2" | 6" |
| 3HT | 3" | 9" |

2HT

WISE GRIP/IRWIN® SPRING CLAMPS

- Non-slip handles
- Jaws configured to hold odd shapes
- Non-marring soft, pliable pads

| Part No. | Jaw Capacity/Depth |
|----------|--------------------|
| IRW58100 | 1" |
| IRW58200 | 2" |
| IRW58300 | 3" |



IRW58200

WISE GRIP/IRWIN® QUICK-GRIP BAR CLAMP & SPREADERS

- Reverse clamping pad to use as a spreader
- Soft but durable pads protect work surfaces
- Heat-treated steel bar

| Part No. | Throat Depth | Clamping Capacity | Spreading Capacity | Weight |
|----------|--------------|-------------------|--------------------|----------|
| 506QC | 3-1/4" | 6" | 7-1/2" – 14-5/8" | 1.5 lbs. |
| 512QC | 3-1/4" | 12" | 7-1/2" – 20-5/8" | 1.9 lbs. |
| 518QC | 3-1/4" | 18" | 7-1/2" – 26-5/8" | 1.8 lbs. |
| 524QC | 3-1/4" | 24" | 7-1/2" – 32-5/8" | 2.1 lbs. |
| 5366QC | 3-1/4" | 36" | 7-1/2" – 44-5/8" | 3.1 lbs. |



506QC

LIGHT & MEDIUM DUTY C-CLAMPS

- Ductile iron frames are ribbed to resist strain
- Steel screws & swivel pads
- Sliding handle

| Regular Throat | | | |
|----------------|--------------|---------|------------|
| Part No. | Throat Depth | Opening | Load Limit |
| ADJ231 | 1-1/8" | 1" | 900 |
| ADJ232 | 2" | 1" | 1000 |
| ADJ5233 | 1-1/2" | 1-1/2" | 800 |
| 04-531 | 1-3/8" | 3" | 1800 |
| ADJ252 | 1-1/2" | 2" | 400 |
| ADJ244 | 2-1/2" | 2-1/2" | 1600 |

| Deep Throat | | | |
|-------------|--------------|---------|------------|
| Part No. | Throat Depth | Opening | Load Limit |
| ADJ237 | 3-1/2" | 1-1/2" | 300 |
| ADJ245 | 4-3/4" | 2-1/2" | 1200 |
| ADJ246 | 6-1/4" | 2-1/2" | 1200 |



ADJ231

LIGHT DUTY C-CLAMPS

| Part No. | Load Limit | Opening | Depth |
|----------|------------|---------|-------|
| ADJ1410 | 400 lbs. | 1" | 1" |
| ADJ1420 | 400 lbs. | 2" | 1" |
| ADJ1430 | 800 lbs. | 3" | 2" |



ADJ1420

WARREN SUPER-JUNIOR CLAMPS

| Part No. | Load Limit | Opening | Depth |
|----------|------------|---------|--------|
| 51 | 500 lbs. | 1" | 1" |
| 52 | 800 lbs. | 1-1/4" | 1-1/4" |
| 53 | 850 lbs. | 1-1/2" | 1-1/2" |
| 54 | 875 lbs. | 2" | 1-1/4" |
| 55 | 1100 lbs. | 3" | 1-3/8" |
| 56 | 850 lbs. | 2-1/2" | 2-1/2" |

FAST ACTION UNIVERSAL CLAMPS

- Lightweight & rugged, plates made from high tensile steel & 300 stainless
- Meets federal specification GGG-406 Type V

| Part No. | Description | Opening | Depth |
|-----------|--|---------|--------|
| KAN-401 | Standard "T" Handle Model | 1" | 1/2" |
| KAN-405 | | 2" | 1-1/8" |
| KAN-410 | | 3" | 1-1/4" |
| KAN-420 | | 6" | 2-1/8" |
| KAN-401-4 | Standard "T" Handle Model No-Mar Rubber Pads | 1" | 1/2" |
| KAN-405-4 | | 2" | 1-1/8" |
| KAN-410-4 | | 3" | 1-1/4" |
| KAN-415-4 | | 4-1/2" | 2-1/4" |



KAN-401



KAN-401-4

DESTACO TOGGLE CLAMPS

- Extra strong, quality construction
- Neoprene tips on these models

| Part No. | Quick Release Lever | Holding Pressure | Spindle Thread Size | Reach | Max. Clamp Thickness | Overall Length | View |
|----------|---------------------|------------------|---------------------|----------|----------------------|----------------|------|
| DES431 | No | 100 lbs. | 1/4"-20 | 2-15/16" | 1/2" | 6-7/8" | |
| DES424 | No | 200 lbs. | 1/4"-20 | 1-1/16" | 3/4" | 4-1/2" | |
| DES424-2 | No | 200 lbs. | 1/4"-20 | 1-1/16" | 1/2" | 4-1/2" | |

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

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

KNU-VISE TOGGLE CLAMPS

- Extra strong, quality construction
- Great where space is limited
- Clamps available with single or double spindle

| Part No. | Quick Release Lever | Holding Pressure | Spindle Thread Size | Reach | Max. Clamp Thickness | Overall Length | View |
|------------|----------------------------|------------------|---------------------|-----------|----------------------|----------------|------|
| P400 | No | 400 lbs. | 1/4"-20 | 1-3/16" | 23/32" | 4-3/4" | |
| P403 | No | 400 lbs. | 5/16"-24 | 2-3/8" | 2-3/4" | 4-3/4" | |
| P800 | No | 800 lbs. | 5/16"-24 | 2-1/8" | 1-1/2" | 8-1/16" | |
| P803 | Yes (1) Swivel; (1) Hex | 700 lbs. | 5/16"-18 | 2-3/8" | 2-7/32" | 8-1/16" | |
| P1200 | No | 1200 lbs. | 3/8"-24 | 2-1/4" | 1-7/32" | 8-3/8" | |
| P1200X4 | No | 600 lbs. | 3/8"-24 | 4" | 1-17/64" | 10-7/16" | |
| P1200X4X45 | No | Varies w/Length | 3/8"-24 | 4"+1-5/8" | 1-33/64" | 11-3/32" | |
| FGP400 | No | 10 to 45 lbs. | - | 1-3/16" | 15/16" | 4-3/4" | |

NEOPRENE SPINDLE FOOT ASSEMBLY

| Part No. | Thread Size |
|----------|------------------|
| KNU80011 | 1/4-20 Spindles |
| KNU80014 | 5/16-18 Spindles |
| KNU80012 | 5/16-24 Spindles |
| KNU80013 | 3/8-24 Spindles |

STEEL SWIVEL FEET

| Part No. | Thread Size |
|----------|--------------------|
| KNU80080 | 1/4-20 x 5/16 deep |
| KNU80084 | 5/16-24 x 3/8 deep |
| KNU80032 | 5/16-18 x 3/8 deep |
| KNU80015 | 3/8-24 x 7/16 |

Air Tool Services
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01772 557700
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AVIATION SNIPS

- Easy cutting action on up to 18 gauge metal
- Forged blades with serrated cutting edges to prevent slipping
- Handles have smooth vinyl grops with thumb stops
- TP are import type
- Wiss are U.S. made

| Part No. | Description |
|----------|------------------------------------|
| TP51K | 3 pc. Set (Left, Right & Straight) |
| M123K | 3 pc. Set (Left, Right & Straight) |

M1R

| Part No. | Cut Length | Description |
|----------|------------|-----------------------|
| M3R | 1-1/2" | Straight, Left, Right |
| M2R | 1-3/8" | Right |
| M1R | 1-3/8" | Left |

M2R

M3R

OFFSET SNIPS

- Wiss are U.S. made

| Part No. | Cut Length | Description |
|----------|------------|--------------|
| M6R | 1-1/4" | Left Handed |
| M7R | | Right Handed |



M6R



M7R

ERGONOMIC AVIATION SNIPS

- Ergonomic grip maximizes power stroke of hand
- Riveted handle will not loosen
- Jaw tips ground to point for access in tight spaces

| Standard | |
|----------|-----------------------------|
| Part No. | Type |
| M2001 | Cuts Left |
| M2002 | Cuts Right |
| M2003 | Cuts Straight, Left & Right |

M2001



M2006



WISS ALUMINUM SNIPS

- Reverse clamping pad to use as a spreader
- Soft but durable pads protect work surfaces
- Heat-treated steel bar

| Pattern Snips – Cuts Straight & Mild Curve Cuts | | | | |
|---|---------------------------|------------|----------------|----------|
| Part No. Snip | Part No. Replacement Blad | Cut Length | Overall Length | Weight |
| W12LMP | W12LRK | 3" | 12" | 1.0 lbs. |



W12LMP

WISS STANDARD TINNER SNIPS

- For cutting straight cuts, wide curves & notching
- Flat inside edge guides straight line cutting
- Hot forged, molybdenum steel

| Part No. | Cut Length | Overall Length | Weight |
|----------|------------|----------------|----------|
| A13N | 1-3/4" | 7" | 0.5 lbs. |
| A10N | 2-1/2" | 11" | 0.9 lbs. |



A10N

WISS DUCKBILL TINNER SNIPS

- For cutting patterns & smooth, tight curves in either direction
- Hot forged, molybdenum steel

| Part No. | Cut Length | Overall Length | Weight |
|----------|------------|----------------|----------|
| V10N | 2-1/4" | 10-1/4" | 0.6 lbs. |
| V19N | 3" | 13" | 1.6 lbs. |



V19N

WISS BULLDOG PATTERN TINNER SNIPS

- Heavy duty, high leverage
- For heavy gauge notching, etc.
- Hot forged, molybdenum alloy steel

| Part No. | Cut Length | Overall Length | Weight |
|----------|------------|----------------|----------|
| W5N | 2-1/2" | 16-1/2" | 3.8 lbs. |



W5N

WISS LIGHT METAL CUTTING SNIPS

- Polished straight blades
- Superior hardened edges for cutting light metal

| Part No. | Type | Blade Length | Overall Length |
|----------|----------|--------------|----------------|
| J7S | Straight | 1-1/4" | 7" |



J7S

WISS HAND SEAMERS

- Makes permanent, tight fitting seams
- Scaled depth marks on jaws are in 1/4" increments

| Standard Model | | | | |
|----------------|-----------|----------------|----------------|----------|
| Part No. | Jaw Width | Jaw Depth | Overall Length | Weight |
| HS1V | 3-1/4" | 1/4" to 1-1/4" | 8-3/4" | 1.5 lbs. |

| Offset Model | | | | |
|--------------|-----------|----------------|----------------|----------|
| Part No. | Jaw Width | Jaw Depth | Overall Length | Weight |
| HS2 | 3-1/4" | 1/4" to 1-1/4" | 8-3/4" | 1.5 lbs. |



HS1V



HS2

ECONOMY HAND SEAMER

- Makes permanent, tight fitting seams
- Strong, lasting construction

| Part No. | Jaw Width | Jaw Depth | Overall Length | Weight |
|----------|-----------|------------|----------------|----------|
| TP44 | 3-1/4" | 1/4" to 1" | 8" | 1.5 lbs. |



TP44

WISS BLADE CRIMPER

- Main components are drop forged
- Spring return handle

| Part No. | Jaw Depth | Overall Length | Weight | Blades |
|----------|-----------|----------------|----------|--------|
| HC3V | 1-1/4" | 9" | 1.0 lbs. | 3 |
| HC5V | 1-1/4" | 9" | 1.0 lbs. | 5 |



HC3V



HC5V

FLUTING PLIERS

- Designed for work on aircraft components
- No-mar fluting plier jaws have special coating that will not scratch surfaces
- An inexpensive, quality tool

| Part No. | Weight | Length | Description |
|----------|----------|--------|---------------------------|
| TP162 | .39 lbs. | 8" | No-Mar Larger Flute |
| TP722 | .40 lbs. | 9-1/2" | Narrow Type Fluting Plier |



TP162



TP722

WISS HAND NOTCHER

- Makes clean 30° v-shaped cuts in sheet metal

| Part No. | Blade & Jaw Depth |
|----------|-------------------|
| HN1V | 1-3/16" |



HN1V

A-N ELECTRICAL CONNECTOR PLIER

- With replaceable nylon inserts for protection of A-N connectors
- Three adjustments positions
- Serrated plastic jaws

| Part No. | Description |
|----------|--------------------------------|
| AT508K | A-N Electrical Connector Plier |
| AT508K-4 | Replacement Jaws |



AT508K

LINE CLAMP PLIERS

- Simultaneously hold the clamp bolt, compress line clamp(s) & retain them
- Up to three clamps on one assembly are held in position by retaining pawl
- More than three clamps or clamps with spacers can also be handled manually

| Part No. | For Use With |
|----------|---|
| AIT82 | Clamps or studs anchored on flat surfaces. #10 Hex - 3/8 Hex Head |
| AIT83 | Tubes or wires clamped together w/point of screw on back of clamp |
| AIT84 | |

Note: AIT84 #8 Hex - 5/16 Hex Head

AIT83

CAMLOC PLIERS

- For Camloc fasteners
- With black-ox coating

| Part No. | For Use With |
|----------|-------------------------------|
| 4P3 | 2600, 2700 & 4002 Stud Series |



TP876

AIRLOC INSTALLATION TOOLS

- Places cross-pin into hole of stud

| Part No. | Description |
|----------|--------------------|
| AIT59995 | For #7 Airloc Stud |
| AIT59996 | For #5 Airloc Stud |
| 28617 | For #1 Airloc Stud |



AIT59995

METAL FORMING SHOT BAG

Stretch metal without nicks or gouges with this pliable 3/4 oz. top grain cowhide bag. This double-stitched bag fills through a 1" opening sealed with velcro. The filled bag gives you a surface to pound sheet metal into, absorbs the hammer blows and gives smooth results. The bag is 12" round or 8" x 1-1/2" thick and is easy to use with minimum practice. Shot is not supplied with bag.

| Part No. | Description |
|-----------|--------------|
| TPA5526 | 12" diameter |
| TPA5526-8 | 8" diameter |



TPA5526

BOSSING MALLETS

After years of frustration with the mallets commonly available, Ron Fournier decided to have custom bossing mallets made to his specifications, specifically for metal shaping professionals.

- Use with a shot bag to shape aluminum or AK steel without the handle striking the edge of your workpiece
- Non-marring plastic for long life and sturdy hickory handles
- Made in the USA

| Part No. | Small Radius | Large Radius | Diameter | Head Length | Weight |
|-----------|--------------|--------------|----------|-------------|----------|
| TPA5522 | 3/4" | 1-3/8" | 2-3/4" | 8" | 23 oz. |
| TPA5522-1 | 1/2" | 2-1/4" | 2" | 7" | 11.7 oz. |
| TPA5522-2 | 1" | 3" | 3" | 7" | 26 oz. |



TPA5522

NO-MAR HAMMERS

- Replaceable vinyl screw-on tips, one tough & one medium
- Hickory wood handle with an aluminum head
- Meets all relevant government specs
- Hammers supplied -1 (green) and -2 (red)














| Part No. | Head Size | Overall Length | Weight |
|----------|-------------------|----------------|--------|
| 770A | 1"D x 3-1/2"L | 11" | 6 oz. |
| 772A | 1-1/2"D x 4-1/2"L | 12" | 14 oz. |
| 774A | 2"D x 5"L | 13" | 25 oz. |



770A

| Replaceable Screw-On Tips | | | | |
|---------------------------|----------|------------------|----------------------|------------------|
| Type & Color | Material | Part No. 1" Dia. | Part No. 1-1/2" Dia. | Part No. 2" Dia. |
| Tough (green) | Vinyl | 771-1 | 773-1 | 775-1 |
| Medium (red) | Vinyl | 771-2 | 773-2 | 775-2 |
| Soft (brown) | Vinyl | 771-3 | 773-3 | 775-3 |
| Med. Hard (cream) | Nylon | 771-4 | 773-4 | 775-4 |
| Hard (black) | Nylon | 771-5 | 773-5 | 775-5 |

MARTIN METAL WORKING HAMMERS & DOLLY

| Part No. | Type | View | Description |
|----------|----------------------------------|---|---|
| 150G | Dinging Hammer |  | For fender & high-crowned panel dinging or bumping. Both high & low-crown faces for "on or off" dolly work. Faces, 1-1/4" and 1-3/16". Round heads, 6" overall. Weight 1.04 lbs. |
| 153G | Cross Chisel Hammer |  | Excellent for finishing. Corss peen used for working in sharp corners around mouldings and for caulking. Round face 1-3/16". Chisel - 3" long. Weight .87 lbs. |
| 153GB | Curved Cross Chisel Hammer |  | Excellent for finishing. Corss peen used for working in sharp corners around mouldings and for caulking. Round face 1-9/16". Chisel - 3" long. Weight .85 lbs. |
| 153S | Cross Chisel Shrinking Hammer |  | Cross grooved. Extra wide faces are cross grooved & used for shrinkage on large surfaces - chisel and used on sharp corners. Flat round face - 1-9/16". Chisel - 3" long. Weight .87 lbs. |
| 158G | General Purpose Pick Hammer |  | Medium size point and reach for general work. Low crown strawberry point for perfect balance. Face - 1-9/16" round point, 3/32" radius. Length of pick end - 3-3/4". Weight .91 lbs. |
| 161G | Dinging Hammer |  | Short-reach, lightweight. One low-crown, square face. Lightest dinging hammer in line. Faces - 1-9/16" round point, 3/32" radius. Length of pick end - 3-3/4". Weight .83 lbs. |
| 162G | Shrinking Hammer |  | For work in close quarters. Expertly machined serrations on the round face. Plain square face - 1-1/8" round serrated face, 1-1/4" diameter. 4" overall. Weight .78 lbs. |
| 169G | Large Face Pick Finishing Hammer |  | For finishing & caulking. Round face - 1-7/8" diameter. 4-1/2" overall head length. 13" handle. Weight 1.0 lbs. |
| 1058 | Toe Dolly |  | Thinness & length provide easy accessibility to narrow pockets. Large, flat face is frequently used in shrinking & dinging flat panels. The flat sides furnish a convenient anvil for repairing flanges. Sizes 4-3/4" x 2-3/8" x 1-1/8". Weight 3.0 lbs. |
| 1058S | Shrinking Dolly (Serrated) |  | Shaped like a toe dolly but has one face covered with raised serrations for shrinking metal stretched by dents. Weight 3.4 lbs. |
| 1059 | Heel Dolly |  | Design makes it possible to reach easily inot sharp corners & wide radii. These features are exclusive to the Heel Dolly & continue its high demand. Sizes 3-1/4" x 2-1/2" x 1-7/16. Weight 2.7 lbs. |
| 1060 | General Purpose Dolly |  | Provides convenient & comfortable hand hold during heaviest blows. Weight, balance & several differently crowned working faces, together with two beading & flange lips, give this dolly broad general use. Sizes 2-7/8" x 2-3/8" x 2-1/4". Weight 3 lbs. |
| 1067 | Wedge Dolly |  | Long, slender general pupose dolly. Widely favored by many body repair men for all-around use. The long, thin lip is very useful in working behind reinforcements. Sizes 5-3/4" x 2-3/8" x 2-3/16". Weight 4 lbs. |

HOOK SCRIBER

- Ideal for separating wires, removing small fuses & retrieving small parts
- Knurled handle
- Chrome finished

| Part No. | Type | Includes |
|----------|----------------------|-------------------------|
| TPA5588 | 4 pc. Individual Set | Straight, 90°, Long Arm |



TPA5588

POCKET CARBIDE METAL SCRIBER

- Replacement carbide tip assembly not shown
- Pocket scriber with adjustable carbide tip assembly for easy resharpening or replacement
- Fitted with pocket clip - tip automatically retractable
- 1/16 point

| Part No. | Description | Length |
|----------|---------------------------|--------|
| TP603 | Retractable Pocket Scribe | 6-1/2" |
| TP603A | Replacement Tip Assembly | 6-1/2" |



TP603

STRAIGHT EDGE SCRIBE

With this unique tool you can quickly and accurately scribe sheet metal and plastics without measuring. Simply determine the distance required and draw the scribe along the edge. Very simple to use and extremely accurate.

- Magnetic back attaches to tool box
- Hole for hanging

| Part No. | Description |
|----------|---|
| TP817 | Scribes edges 1/8", 3/16", 5/16", 3/8", 1/2", 5/8" & 3/4" |

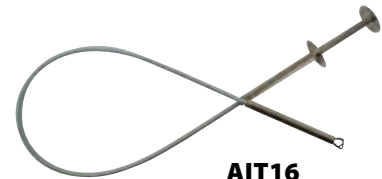


TP817

FLEXIBLE SPRING CLAW

- Perfect for objects dropped in hard to reach places
- Grasps with 4 jaws

| Part No. | Overall Length |
|----------|----------------|
| AIT16 | 23-1/2" |



AIT16

MAGNETIC RETRIEVERS

- High-power permanent magnets provide a lifetime of pulling power
- Perfect for use in water, oil, etc.

| Telescopic Magnetic Retriever | |
|-------------------------------|-------------------|
| Part No. | Description |
| AIT394 | 13"-27" Extension |

| Pocket Telescopic Magnetic Retriever | |
|--------------------------------------|--------------------------|
| Part No. | Description |
| AIT383NX | 5-1/2"-23-1/2" Extension |



AIT394

| Mechanic's Pocket Magnetic Retriever | | |
|--------------------------------------|----------------|---------------|
| Part No. | Overall Length | Pull Capacity |
| AIT392 | 8-3/4" | 2 lbs. |



AIT383NX

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RIVET SET POUCH

- Hold up to 5 pc. 3-1/2" or 5-1/2" rivet sets

| Part No. | Description |
|------------|-------------|
| TP-POUCH-S | Pouch Only |

TP-POUCH-S



FASTENER ORGANIZER CASE

- Keep you small parts organized in a high impact polystyrene plastic case
- See through, spring loaded compartment covers
- Curved tray bottoms for quick part removal

| Part No. | Compartments | LxWxH |
|----------|--------------|-----------------------|
| TP840 | 8 | 12-3/8" x 7-1/4" x 2" |
| TP840-2 | 1 | Half Divider |



TP840

FASTENER ORGANIZER CASE

Features extra-heavy duty nylon construction with a sewn-in rigid bottom & industrial grade zipper

- Military type
- 8 inner, 6 outer pockets with Sure Locks
- Oil and chemical resistant
- Convenient tote handles
- 12"L x 6"W x 7"D
- Tools not included

| Part No. | Description | Weight |
|----------|-------------|----------|
| TP279 | Tool Pouch | .94 lbs. |



TP279

VISE SLEEVES

- Molded rubber

| Part No. | Size |
|----------|--------------|
| AT528 | 4" width |
| AT530 | 4-1/2" width |

AT528



PORTABLE AIR TANK

- 7 gallon capacity
- Enamel finish
- Safety valve release

| Part No. | Description |
|----------|---------------------|
| TP239 | 4' Hose & Air Chuck |

TP239



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MASTER HEAT GUN

- Adjustable rubber backed base permits 90° rotation for benchtop use
- Adjustable air intake
- Double-jacketed heater housing
- Convenient three position rocker switch

| Part No. | Power | Heat Range | Weight |
|----------|------------------|------------|----------|
| HG501A | 120v - 60 Hz | 500-750°F | 3.5 lbs. |
| HG502A | 220/240v - 50 Hz | 500-750°F | 3.5 lbs. |
| HG751B | 120v - 60 Hz | 750-1000°F | 3.5 lbs. |



HG501A

MASTER HEAT GUN

| Part No. | Description |
|----------|---|
| A-160-HG | Shrink attachment for tubing up to 3/4" OD |
| A-170-HG | Shrink attachment for tubing up to 3/4" to 2" OD |
| A-203-HG | Extra-wide 8" attachment for long tubing up to 3/4" |
| HAS011K | Replacement element for HG501A |
| HAS043K | Replacement element for HG751B |
| HAS014K | Replacement element for HG502A |



A-160-HG



A-170-HG



A-203-HG

STANDARD AVIATION MAINTENANCE HANDBOOK

Hundreds of the most commonly used charts, diagrams, scales and measurements for aviation maintenance, plus a tool box sized, spiral bound, up-to-date reference guide.

| Part No. | Description |
|----------|--|
| TP714 | Standard Aviation Maintenance Handbook |

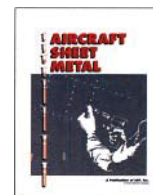


TP714

AIRCRAFT SHEET METAL

Nick Bonacci addresses aircraft structures and materials; tool and fasteners; layout, setback, bends and repairs; and practical applications of dies, jigs and fixtures. Fully illustrated with glossary.

| Part No. | Description |
|----------|----------------------|
| TP427 | Aircraft Sheet Metal |



TP427

MINI-LUBE® HIGH PRESSURE GREASE PUMP

- Patented two-way system delivers grease at 10000 psi
- Fully sealed system ensures contaminant & air pocket free greasing
- Supplied with KR gun

| Part No. | Capacity |
|-----------|------------------------|
| MAC-K6-24 | 5 lb. Pail (included) |
| MAC-K6-67 | 11 lb. Pail (included) |

MAC-K6-24



SUPER-LUBE® HIGH PRESSURE GREASE PUMP

- Patented two-way system delivers grease at 10000 psi
- Fully sealed system ensures contaminant & air pocket free greasing
- If air pockets occur unit is designed to pump air out - avoiding air locks
- Primer is depressed by hand & loads for 60 shots of grease
- Includes 10' hose & rubber edged for follwer plate
- Supplied with KR gun

| Part No. | Capacity |
|----------|-------------|
| MAC-K3 | 35 lb. Pail |

MAC-K3



MAXI-LUBE® AIR OPERATED HIGH PRESSURE GREASE PUMP

- Corrosion resistant oilless air motor delivers greast at 10000 psi
- Fully sealed system ensures contaminant & air pocket free greasing
- Features booster gun with 3 jaw super grip coupler
- 360° swivel assembly for maximum flexibility
- Includes 13' grease hose & follwer plate assembly
- Supplied with B2 gun

| Part No. | Capacity |
|----------|--------------|
| MAC-P3 | 35 lb. Pail |
| MAC-P6 | 120 lb. Drum |

MAC-P3



TRANSFER GREASE PUMP

Transfer pump designed for bulk filling grease dispensing equipment

- Includes 5' delivery hose
- Supplied with B2 gun

| Part No. | Capacity |
|----------|-------------|
| MAC-J2 | 35 lb. Pail |

MAC-J2



BEARING PACKER

Fast, efficient, thorough. Simply place the bearing between the plastic cones, tighten and apply grease through the fitting on the end of the threaded shaft. Forces out old grease and evenly injects fresh grease into the bearing. Cone diameter is 5".

| Part No. | Description |
|----------|-----------------|
| TP309 | Grease Gun Type |
| TP309A | Hand Packer |



TP309



TP309A

AVIATION LUBE KIT

- Handy kit includes all accessories typically required for lubricating aircraft
- Create custom setups for almost any situation
- Includes one of each accessory listed below
- Molded plastic case with replacement parts list

| Part No. | Includes |
|----------|-----------------------------|
| ACK2 | 1 of each Item Below & Case |



ACK2

| Replacement Accessories | |
|-------------------------|---------------------------------------|
| Part No. | Description |
| KY | Standard Supergrip Coupler |
| KDN | 90° Needlepoint Coupler |
| KDS | 90° Limited Access Coupler |
| KZHY | Hyperdermic Needlepoint Coupler |
| KZDXL | Straight Needlepoint Coupler (4-1/4") |
| KZLNJ | 'J' Needlepoint Coupler (12") |
| KZLNS | Straight Needlepoint Coupler (12") |

| Replacement Accessories | |
|-------------------------|----------------------------------|
| Part No. | Description |
| KZLNR | 90° Needlepoint Coupler (12") |
| KZLN45 | 45° Needlepoint Coupler (12") |
| KZSNR | 90° Needlepoint Coupler (4-1/4") |
| KDE8 | Rigid Extension (8") |
| KDF21 | Flex Extension (21") |
| J65 | Filler Nozzle Adapter |

HAND GREASE GUNS

- One hand operation
- Handles up to and including NILGI No. 2 greases
- Supplied complete with 230mm (9") flexible extension and KY coupler
- Can be filled by bulk, cartridge or the J2 Grease Pump
- Optional range of couplers and extensions available

| Pistol Grip | |
|-------------|------------------------|
| Part No. | Description |
| MAC-K32 | With 9" Flex Extension |

MAC-K32

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ECONOMY BLOW GUN

- Tough zinc die cast body with replaceable brass tip & vinyl thumb grip
- Rubber tip included

| Part No. | Includes |
|----------|-----------------|
| TP98 | Safety Blow Gun |



600 SERIES BLOW GUN

- Tough zinc die cast body with replaceable brass tip & vinyl thumb grip
- Four self-lubricating 'O' rings prevent valve leakage
- OSHA standard

| Part No. | Includes |
|----------|-----------------|
| 600PS | Safety Blow Gun |



DELUXE BLOW GUN KIT

Deluxe Blow Gun kit includes:

- Blow Gun - 771 Pistol Grip Blow Gun
- Tips - Non-Safety Tip, Standard Safety Tip*, Safety Booster Tip*, High Volume Safety Tip*, Inflator Tip, Rubber Tip, Assortment of 5 Needle Tips, 10 Safety Extension Tips & Storage Box
- Connectors - Industrial Interchange Connector and Automotive Interchange Connector

| Part No. | Description |
|----------|-------------|
| BG-KITC | 15 pc. Kit |



Note: These tips meet or exceed OSHA specifications.

AIR TOOL LUBRICANT

- Specially formulated high grade 10 weight lubricant
- Adheres to motor parts, giving better & longer lubrication
- Prevents rust & removes moisture for longer tool life

| Part No. | Part No. Wintergrade | Size |
|----------|----------------------|----------|
| ATL004 | ATL004W | 4 oz. |
| ATL016 | ATL016W | 1 pint |
| ATL032 | - | 1 quart |
| ATL128 | ATL128W | 1 gallon |



ATL016

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CUB COIL® POLYURETHANE AIR HOSE

Cub Coil is the economical solution to applications where polyurethane self-storing air hose is the best choice, but cost is an overriding factor. Produced from industrial grade raw material, CUB Coil is a tough, durable hose that will withstand the rigors of the toughest applications. To assure superior and reliable retention, CUB Coil is offered with special barb fittings designed for use on polyurethane. Available in black.

- Kink & abrasion resistant - 1/4" NPT on both end
- Lightweight yet durable, retains its resiliency over a long period of time



PC-14-20AK

| Part No. | Overall Length | I.D. | Fitting Type |
|-----------|----------------|------|-----------------|
| PC14-10AK | 10" | 1/4" | Rigid or Swivel |
| PC14-20AK | 20" | 1/4" | Rigid or Swivel |
| PC38-10AK | 10" | 3/8" | Rigid or Swivel |
| PC38-20AK | 20" | 3/8" | Rigid or Swivel |

NITRILE BLEND AIR HOSE

Made with a tough, durable nitrile blend cover, this hose is able to withstand working pressures up to 300 psi and temperatures up to 180°F, yet maintain excellent flexibility. The nitrile blend tube is reinforced with braided high-tensile rayon cored for extra strength. Nitrile Blend hose can be used with reusable fittings for crimped-on barb fittings.



R14025

| Nitrile Air Hose | | | | |
|------------------|----------------|------|---------|-----------------------|
| Part No. | Overall Length | I.D. | Fitting | Max. Working Pressure |
| R14012 | 12' | 1/4" | Rigid | 300 psi |
| R14025 | 25' | | | |
| R14050 | 50' | | | |
| R380124 | 12' | 3/8" | Rigid | 300 psi |
| R380254 | 25' | | | |
| R380504 | | | | |

| Pigtail Hose | | | | |
|--------------|----------------|------|---------------|-----------------------|
| Part No. | Overall Length | I.D. | Fitting | Max. Working Pressure |
| RP0412S | 12" | 1/4" | Swivel, Rigid | 300 psi |

Note: All hose 1/4" NPT on both ends.

TRI-POD MANIFOLDS

- With 1/4" NPT outlets

| Solid Aluminum Tri-Pod | |
|------------------------|--------------------|
| Part No. | Type |
| CH3002 | 3 Port, 1/4" Inlet |
| CH3003 | 3 Port, 3/8" Inlet |



CH3002

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DYNABRADE® DYNASWIVEL AIR LINE CONNECTORS

- Patented universal joint swivels 360° at two points
- Allows air line to drop to the floor while providing superb tool handling



| Part No. | Type | Thread Size | Recommended Air Flow | Weight |
|----------|------------------|-------------|----------------------|-----------|
| 95460 | The Original | 1/4" NPT | 0 to 25 CFM | 0.20 lbs. |
| 95461 | The Original | 3/8" NPT | 26 to 45 CFM | 0.40 lbs. |
| 95462 | The Original | 1/2" NPT | 46 to 65 CFM | 0.80 lbs. |
| 94300 | No-Mar Composite | 1/4" NPT | 0 to 33 CFM | 0.13 lbs. |
| 95734 | Flow Control | 1/4" NPT | 0 to 25 CFM | 0.25 lbs. |

INDUSTRIAL INTERCHANGE COUPLER



CH159

| Socket Male Pipe Thread Coupler | |
|---------------------------------|-----------------------------------|
| Part No. | Description |
| CH159 | 1/4" Series, 1/8" MPT Pipe Thread |
| CH152 | 1/4" Series 1/8" MPT Pipe Thread |
| CH155 | 1/4" Series 3/8" MPT Pipe Thread |
| CH583 | 3/8" Series 1/4" MPT Pipe Thread |
| CH581 | 3/8" Series 3/8" MPT Pipe Thread |



CH158

| Socket Female Pipe Thread Coupler | |
|-----------------------------------|-----------------------------------|
| Part No. | Description |
| CH158 | 1/4" Series, 1/8" FPT Pipe Thread |
| CH150 | 1/4" Series 1/8" FPT Pipe Thread |
| CH151 | 1/4" Series 3/8" FPT Pipe Thread |
| CH582 | 3/8" Series 1/4" FPT Pipe Thread |
| CH580 | 3/8" Series 3/8" FPT Pipe Thread |



CH153

| Socket Hose Stem Coupler | |
|--------------------------|-----------------------------|
| Part No. | Description |
| CH153 | 1/4" Series, 1/4" Hose Stem |
| CH154 | 1/4" Series 5/16" Hose Stem |
| CH156 | 1/4" Series 3/8" Hose Stem |
| CH586 | 3/8" Series 3/8" Hose Stem |



CH1504

| Plug Male Pipe Thread | |
|-----------------------|-----------------------------------|
| Part No. | Description |
| CH1504 | 1/4" Series, 1/8" MPT Pipe Thread |
| CH1501 | 1/4" Series 1/4" MPT Pipe Thread |
| CH1506 | 1/4" Series 3/8" MPT Pipe Thread |
| CH5803 | 3/8" Series 1/4" MPT Pipe Thread |
| CH5801 | 3/8" Series 3/8" MPT Pipe Thread |



CH1509

| Plug Female Pipe Thread | |
|-------------------------|-----------------------------------|
| Part No. | Description |
| CH1509 | 1/4" Series, 1/8" FPT Pipe Thread |
| CH1502 | 1/4" Series 1/4" FPT Pipe Thread |
| CH1505 | 1/4" Series 3/8" FPT Pipe Thread |
| CH5804 | 3/8" Series 1/4" FPT Pipe Thread |
| CH5802 | 3/8" Series 3/8" FPT Pipe Thread |



CH1506

| Plug Hose Stem | |
|----------------|-----------------------------|
| Part No. | Description |
| CH1506 | 1/4" Series, 1/4" Hose Stem |
| CH1507 | 1/4" Series 5/16" Hose Stem |
| CH1508 | 1/4" Series 3/8" Hose Stem |
| CH5806 | 3/8" Series 3/8" Hose Stem |
| CH5805 | 3/8" Series 1/2" Hose Stem |

FOSTER/SCHRADER INTERCHANGE COUPLER



TLC15

| Part No. | Description |
|----------|--------------|
| TLC15 | 1/4 Male NPT |



TLC16

| Part No. | Description |
|----------|----------------|
| TLC16 | 1/4 Female NPT |



TLP15

| Part No. | Description |
|----------|----------------|
| TLP15 | 1/4 Male NPT |
| TLP16 | 1/4 Female NPT |



TLP16

Note: We carry a full line of filter, regulator & lubricator accessories, please inquire.

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