Cleaveland Aircraft Tool

Quality Tools
For Builders
By Builders

1-800-368-1822
www.CleavelandTool.com
Cleaveland Aircraft Tool
Owned and operated by the Lauritsen family

Buzz and DJ are pilots and have owned several certified aircraft as well as built two experimental airplanes. Mike is also a pilot and is currently building an RV-10. Their experience in building and eye for quality is evident in the selection of tools and accessories included in this catalog.

The quality of the finished product can be affected by the tools used. Good tools that are right for the job are a pleasure to use. We all have a box full of tools bought at “bargain” prices but later found to be inadequate for the job.

We have chosen quality tools suited to the construction and maintenance of metal aircraft. In several cases a choice of price/quality ranges are offered to satisfy your individual needs.

The Cleaveland line of Riveting Tools as well as most of the RV Accessories are designed and manufactured at Cleaveland Tool. Mike and Buzz hold high standards of quality and workmanship and believe you will find the tools a great value at competitive prices.

Open Weekdays 8:30 AM - 5 PM Central
We are often in the Shop Evenings and Weekends Give us a Call.

Orders that are received by 2 p.m. are usually shipped the same day. Back ordered items are filled as soon as possible. Back ordered items will not be charged until they are shipped. For an up-to-date catalog with changes, new items, and current pricing visit our website at www.CleavelandTool.com

DISCLAIMER
All items sold by Cleaveland Aircraft Tool are to be used as intended by the manufacturers. This company assumes no risk or liability in connection with their use or misuse.
Work safely!

All text, illustrations, and photos in this catalog are property of Cleaveland Aircraft Tool and cannot be duplicated without written consent.
Choose Cleaveland Tool

We are a small company of good people, experienced in the building process and knowledgeable of the techniques and tools needed to build a quality metal aircraft.

We offer hands on training in-house and at air shows to demonstrate the operation and compare important quality differences between brands of tools.

Let us help you choose your tools wisely.

Stop at our shop
Stop at a show
Visit our web site
Call on the phone

WE ARE LOOKING FORWARD TO HEARING FROM YOU!
Van’s Airframe Tool Package

COMP-KIT

Tools necessary to construct the airframe of a Van’s kit
Compare our tools with those of our competitors and see for yourself why Cleaveland Tools are known as the finest quality available, and why any others are just a compromise.

Below are common kit modifications for ease of ordering (See Price Sheet for Pricing and Detailed List of Modifications).

- Delete Hand Squeezer / Add Pneumatic Rivet Squeezer & Sets (KITMOD-2)
- Delete C-Frame / Add DRDT-2 Compression Style Dimple Tool (KITMOD-3)
- Delete Cleaveland 3X Rivet Gun / Add Sioux 2X Rivet Gun (KITMOD-4)
- Delete Cleaveland 3X Rivet Gun / Add CLEAVELAND 2X Rivet Gun (common for quick builders) (KITMOD-5)
- Delete Threaded Micro Stop / Add Notched Micro Stop (KITMOD-6)
- Delete Three Flute Countersinks / Add Single Flute Countersinks (KITMOD-7)
- Delete Pro Snips Lt. & Rt. / Add Klenk Snips Lt. & Rt. (KITMOD-8)
- Delete Sioux Mini Air Drill / Add CP 1/4” Import Palm Drill (KITMOD-9)
- Add Quick Change Tooling and additional Microstop countersink (KITMOD-10)
- RV-10 Builder Additions (KITMOD-11)
- Quick build Kit Cleko Adjustment (KITMOD-12)
Customers often ask, “If it were you, what would you buy?” To answer that question these are the tools we have in our own toolbox and find make the building experience the best it can be.

This kit is a set of substitutions to our COMP-KIT on page 5. See price sheet for the detailed list of tools included in kit. (photo may not be current) As always any of our kits are completely customizable. Call for customizing assistance.
**GET ME STARTED KIT**

This kit contains all the tools you need to get any project off the ground. You will be adding tools as the project progresses, but this will be an economical jumping off point.

See price sheet for detailed list of tools included in kit. (photo may not be current)
As always any of our kits are completely customizable. Call for customizing assistance.
MARKING PENS - 4 COLOR PACK MP-40
MARKING PENS - 3 PACK - BLACK MP-30
Sharpie ULTRA FINE Point Permanent Markers.
Four colors •Black •Blue •Red •Green
Ideal for marking on aluminum.
Utilize different colors for identifying parts, marking layouts, notations, etc.

12" STRAP DUPLICATOR - #40 PILOT SD12-40
12" STRAP DUPLICATOR - #30 PILOT SD12-30
12" STRAP DUPLICATOR - 5/32" PILOT SD12-532
12" STRAP DUPLICATOR - 3/16" PILOT SD12-316
Bushing type duplicator used to locate holes on top skin when bottom skin is already drilled but cannot be back drilled.
Pry apart overlapping skins, slip strap with pilot pin into hidden hole in bottom skin. Drill top skin through alignment bushing.

PLATE NUT DRILL JIG #4 NPJ-4
PLATE NUT DRILL JIG #6 NPJ-6
PLATE NUT DRILL JIG #8 NPJ-8
PLATE NUT DRILL JIG #10 NPJ-10
Designed for accurate drilling of rivet holes for K1000 & K1100 plate nuts. Manufactured with flexible handle to provide hand clearance when jig is in use. First drill clearance hole for the screw, insert tool in hole and drill first rivet hole, flip tool over, insert both pilots and drill the final hole.

SMALL AUTO CENTER PUNCH CP-40
Starrett brand Center Punch is only 4 inches long.
Adjusts for light to heavy marking.
Moving parts US made from hardened alloy steel.
Replaceable points. Very nice quality.
*** Do not use center punches to mark rivet holes. ***
*** Use split point drill bits that do not wander. ***

TRANSFER PUNCH SET TPS-7
These Punches are for accurately transferring hole locations through one part to another.
The 7 sizes included are:

DRIVE PIN PUNCH SET DP-8
Useful for removing bolts or rivet shanks.
Set of 8, sized from 1/16" to 5/16" by 32nds of an inch.
Starrett is a well known US brand with a reputation for very high quality and precision.

3/32" DRIVE PIN PUNCH DP-332
1/8" DRIVE PIN PUNCH DP-18
Useful for removing rivet shanks. Import quality.

TAPERED PUNCH DP-85
Useful for lining up prepunched holes before inserting cleko fasteners. Slip in hole and rotate for alignment. Do not wiggle or wiggle cleko as it will distort hole. Import quality.
<table>
<thead>
<tr>
<th><strong>MINI FAN SPACER</strong></th>
<th>FS-75</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FAN SPACER</strong></td>
<td>FS-100</td>
</tr>
<tr>
<td>The fan spacer is a neat tool used for laying out nearly equal spacing of rivet holes on aluminum. Adjust the outer holes to 24” separation and a standard 1-1/4” spacing is set. 38” Max. opening, 18” Max. on mini. Infinite adjustment from 1/2” to 2” spacing is possible. Note: This tool is designed for marking only, not as a drilling guide.</td>
<td></td>
</tr>
</tbody>
</table>

| **RULE - 6” STAINLESS** | RS-06 |
| **RULE - 24” STAINLESS** | RS-24 |
| These hardened stainless steel rules are only .020” thick. They are flexible for marking on flat or curved surfaces. Marked in 32nds, 64ths on one side, 10ths and 100ths graduations on the other. Non-glare satin chrome finish. |

| **DIAL CALIPER - 6” WHITE FACE** | DCW-40 |
| Dial calipers measure inside, outside, height, and hole depth. Made of hardened stainless steel with covered rack for longer caliper life. Graduated to .001”. Easy to read to .0005” on large white faced dial. |

| **2” PRECISION SQUARE** | ASQ-270 |
| Use where accurate right angles are essential. For checking external and internal 90 degree angles. Beam riveted to fully ground and polished carbon steel blade. Groove on inside corner of beam for clearance of dirt or burrs. Beam Length 1-3/8” (35mm) Blade Length 2-1/8” (53) |

| **4” MINI ADJUSTABLE SQUARE** | ASQ-274 |
| Satin chrome finished blades are hardened and tempered. Micro-fine blade graduations: 32, 64, 50, 100 For use as a parallel or double square. |

| **PROTRACTOR - 6” SQUARE HEAD** | AP-60 |
| All stainless steel construction. Graduated from 0 to 180 degrees in both directions. Used for aligning parts, layout work, etc. |

| **ANGLE FINDER I — Plastic** | AF-10 |
| Plastic construction with brass pivots makes an economical but precise tool. Small size allows it to slip into small areas. Rotates 180 degrees to set both internal and external angles. |

| **SMART TOOL LEVEL SENSOR MODULE** | ALSM-6 |
| 6” Module can be used alone or in either rail below. Can be set to beep at level and plumb. Reset button allows calibration to factory accuracy. Uses standard 9 volt battery. Accuracy: 0.1 degree. |

| **8” ALUM. I-BEAM RAIL** | AL-8 |
| **24” ALUM. I-BEAM RAIL WITH LEVEL** | AL-24 |
| 8” Rail provides better accuracy and protection for module. 24” Rail is useful to attain greater accuracy on longer surfaces. |
**Die Grinder Kit — ADG-KIT**

Kit contains the following items. See descriptions of individual items.

Sioux Angle Die Grinder ADG-755*
Screw on Mandrel 3MM-100
2 - 1” Light Deburr Wheels 3MW-251
2 - 1” Cut & Polish Wheels 3MW-7A1
Cut-off Disk Mandrel CDM-25
3 - Cut-off Disks CD-30

*You may substitute straight die grinder and receive the same discount.

**SIOUX MINI ANGLE DIE GRINDER ADG-755**
**SIOUX MINI STRAIGHT DIE GRINDER ADGS-753**
Sioux Tools’ Force 2000 Series are high quality imported tools. Superior gear and bearing quality. Manufactured to professional standards. Very small body for tight places. Each have 1/4” collet.

**FIBER CUT-OFF DISC CD-30**
3” cut-off disc used for cutting thin walled tubing, sheet metal, fiberglass or for slotting applications. Use to cut off excess from canopy. Maximum 23,000 rpm.

**CUT-OFF DISC MANDREL CDM-25**
For holding cut-off disc in die grinder. 2-1/2” x 1/4” shank.

**GREY MULTI-FLEX ROLL 3MPR-GREY**
**RED MULTI-FLEX ROLL 3MPR-RED**
Scotch-Brite Multi-Flex sheets are similar to the hand pads but thinner and more flexible. Packaged with 60 – 8”x 4” sheets on a convenient roll. Just pull from the center. Grey – Fine grade, great for taking imperfections out of primer. Red – Use for roughing up AL prior to priming or painting.

**3M SCOTCH-BRITE HAND PAD – RED 3MP-47**
General purpose hand pad used for cleaning and deburring. 6” x 9” sheet may be cut to various sizes for hand use, on disc pad holder, or in mini mandrel.

**3M D/A DISC PAD HOLDER - 5” 3MD-945**
Soft and flexible pad faced with (Velcro type) hooks so Scotch-Brite pad will cling and allows easy working of contoured surfaces.

**3M MINI MANDREL 3MM-300**
Mandrel holds rectangles of Scotch-Brite pad. Chucked in a drill, this works like a flap wheel to deburr tubing and irregular shaped edges. 3” long with 1/4” shank.

See our web store for selection of grinders and sanders.
3 PC DEBurring SET - ALUM.  
Aluminum handle with telescoping blade holder.  
DBB-10 & DBB-20 blades included and store in the handle.  
Extra blade for Aluminum or Steel  
Extra blade for Plastic  
Hooked Blade  

DEBurring Blade - FOR EDGES  
Carbide V-shaped blade for deburring edges of aluminum sheets up to 1/8" thick. Fits handle shown above.

ONE HOLE DEBurring BIT - CHATTERLESS  
DEBurr BIT  3/32" - 1/4"  w/ 3/16" shank  
DEBurr BIT  1/8" - 27/64"  w/ 1/4" shank  
DEBurr BIT  3/16" - 35/64"  w/ 1/4" shank  
100 degree deburring bit with Straight Shanks for use after drilling and prior to dimpling all holes.  
Made from high speed steel.

HEX DEBurr TOOL 3"- CHATTERLESS  
HEX DEBurr TOOL 10"- CHATTERLESS  
Deburring bit with hex shank fits into a cordless screw driver.  
A 100 degree, one-hole chatterless deburring bit comes fitted to the 1/4" hex shank.  
A cordless screwdriver is very controllable and makes deburring drilled holes almost effortless.  
Use the 3" shaft for most jobs. Use the 10" shaft when deburring the inside rib flanges and other hard to reach areas.  

3M CUTTING & POLISHING WHEEL 6"  
6" x 1" x 1" Center Hole (with 3MR-150 included)  
3M CUTTING & POLISHING WHEEL 2"  
2" x 3/4" x 1/4" Center Hole  
3M CUTTING & POLISHING WHEEL 1"  
1" x 1" x 3/16" Center Hole  
Long lasting and aggressive for tough deburring and polishing.  
Use to deburr and radius edges.  
Will not load up like grinding wheel.  
1" & 2" wheels for use in drill or die grinder for tight spaces.  
Van’s Aircraft recommended.

LIGHT DEBurring WHEEL 6"  
6" x 1" x 1" Center Hole (with 3MR-150 included)  
3M EXL UNITIZED WHEEL 1"  
1" x 1" x 3/16" Center Hole  
Scotch-Brite Light Deburring Wheels are designed for removing fine burrs and polishing at the same time.  
1" wheels for use in drill or die grinder for tight spaces.  

3M REDucer BUSHING 1—1/2"  
1" dia. bushing for reducing the hole of wheels from 1” to 1/2”.  
Included with 6” wheels.

3M MANDREL 1/4”  
Mandrel for 2” Scotch-Brite wheel above. 1/4” shank.  
Threads screw into 1/4” hole in wheel.

3M SCREW-ON MANDREL  
Screw on mandrel for 1” Scotch-Brite wheels above.  
Screws into a 3/16” hole and has a 1/4” chucking shank.
**Filing Kit**  
**File-Kit**

Kit contains the following items. See descriptions of individual items below.

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>File Card / Brush</td>
<td>FCB-20</td>
</tr>
<tr>
<td>5-Pc. 8” File Assortment</td>
<td>FK-5</td>
</tr>
<tr>
<td>10” Vixen File</td>
<td>FV-10</td>
</tr>
<tr>
<td>Universal Handle</td>
<td>FH-22</td>
</tr>
<tr>
<td>Needle File Set</td>
<td>FN-10</td>
</tr>
<tr>
<td>8” Vixen File</td>
<td>FV-8</td>
</tr>
<tr>
<td>10” Vixen File</td>
<td>FV-10</td>
</tr>
</tbody>
</table>

True Vixen brand files are widely recognized as the most efficient ever designed for aluminum and also fiberglass. Milled for fast cutting. Excellent for smoothing sheet edges, scarfing lap joints, and all general filing of components. Standard cut with safe (uncut) edges.

<table>
<thead>
<tr>
<th>Item Description</th>
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</tr>
</thead>
<tbody>
<tr>
<td>8” Round Bastard</td>
<td>FSR-8</td>
</tr>
<tr>
<td>8” Square Bastard</td>
<td>FSS-8</td>
</tr>
<tr>
<td>8” Half Round Bastard</td>
<td>FSHR-8</td>
</tr>
<tr>
<td>8” Mill Bastard</td>
<td>FSM-8</td>
</tr>
<tr>
<td>8” Flat Multi-Kut</td>
<td>FSMLT-8</td>
</tr>
</tbody>
</table>

SIMONDS “Black Maxi-Sharp” files are specially treated with a black oxide coating. The files stay sharper and last longer due to increased resistance to loading and rust.

<table>
<thead>
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<tbody>
<tr>
<td>Needle File - Set of 10</td>
<td>FN-10</td>
</tr>
</tbody>
</table>

This file set contains ten 5-1/2” files of assorted shapes. Plastic case keeps files separated. Imported files of good quality and reasonably priced.

<table>
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</tr>
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<tbody>
<tr>
<td>Lutz File Handle</td>
<td>FH-22</td>
</tr>
</tbody>
</table>

4-1/2” long, deluxe handle clamps tightly onto tool shanks. Thumb screw makes changing tools quick and easy. Try one on your files, reamers, deburring bits, razor blades, etc. A good handle makes a tool easier to control and safer to use.

<table>
<thead>
<tr>
<th>Item Description</th>
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</tr>
</thead>
<tbody>
<tr>
<td>File Card / Brush</td>
<td>FCB-20</td>
</tr>
</tbody>
</table>

Used to keep files clean and working smoothly. Steel bristle side quickly removes filings from file grooves. Brush side cleans filings from fine cut files, needle files, saws, and drill bits. Tip: To keep files from loading, rub file with chalk.
NIBBLING TOOL BY ADEL
NIBBLER REPLACEMENT PUNCH
The original Adel Nibbling Tool notches and trims steel up to .0475” thick and aluminum up to .0625” thick. Start with a 7/16” hole then use the nibbler to cut to the size and shape desired.

KLENK OFFSET - LEFT
KLENK OFFSET - RIGHT
These are the best snips we have ever used. Klenk Offset Snips are ideal for use on aircraft aluminum. Serrated edges grip for cutting precise corners. The red grip tool cuts to the left and straight. The green grip tool cuts to the right and straight.

IRWIN OFFSET SNIPS - LEFT
IRWIN OFFSET SNIPS - RIGHT
Irwin Offset Snips have less serrations on the blades for smoother cuts in aluminum. The red grip model cuts to the left and straight. The green grip model cuts to the right and straight.

EDGE FORMER
This is a tool that REALLY WORKS! Roller shape forms a slightly turned edge on aluminum to assure a tight fit along the joints of overlapping sheets. Hardened stainless rollers are attached to Vice-Grip handles. Handle is at a comfortable-to-use angle. Rollers are adjustable to the aluminum thickness and once set can be locked to reproduce exact results. Very controllable.

OFFSET HAND SEAMER
Offset design features angled jaws so handles will clear work. Use for straightening and aligning fittings and rib flanges. Angled jaws allow tool clearance when adjusting rib flanges in the jig prior to skinning.

FLUTING PLIERS
Flute flanges between rivet holes to flatten ribs and bulkheads. Protruding jaw spaces the beginning of the flute back the proper distance from the web. Makes nice narrow flutes - shallow or full depth - without sharp nicks left by other brands. No nicks means no stress risers to cause trouble later.

KLENK OFFSET - LEFT
KLENK OFFSET - RIGHT
EDGE FORMER
OFFSET HAND SEAMER
FLUTING PLIERS
NIBBLING TOOL BY ADEL
NIBBLER REPLACEMENT PUNCH
Made by Cleaveland, this is a reproduction of an old design, and the only one that works really well.
“CENTER-IT” TUBE DRILLING JIG DJ-08
CENTER-IT is for drilling pipe and other round objects and is made specifically for use in a drill press.
The V-block bolts to the drill press table enabling the drilling of round pieces parallel and centered.
Grooves on outer sides eliminate slippage while holding pipe.
Made from Aluminum extrusion: 5” Long, 4” Wide, 1-3/4” Tall.

FLY CUTTER FC-53
With a capacity of 1 3/4” to 8”, the fly cutter is used for cutting lightening holes in ribs and spars.
The 1/2” shank is to be used only in a drill press and cuts best at low RPM.

UNIBIT 1/8” - 1/2” by 32nds DBU-1
UNIBIT 3/16” - 1/2” by 16ths DBU-2
UNIBIT 1/4” - 3/4” by 16ths DBU-3
UNIBIT SET - THREE ABOVE DBU-SET3
Single cutting edge creates perfectly round holes in metal, plastic and other thin materials.
Made of high speed molybalenum steel, heat treated and tempered for long life. Perfect for drilling grommet holes when installing wire, control cables or antenna leads.

ROTABROACH - HOLE CUTTERS DBRB-7
Rotabroach Sheet Metal Cutter Kit for materials up to 1/4” thick.
Cutter sizes include 5/16” 3/8” 7/16” 1/2” 9/16” 5/8” 3/4”.
Cuts very clean holes in flat stock or round tubes.
Built in slug ejector.

HOUGEN - HOLE CUTTERS DBHC-6
Similar to standard hole saws but very sharp teeth designed to “mill” crisp holes.
7/8” 1-1/8” 1-3/8” cutters will cut 1/8” deep.
1-3/4” 2” 2-1/2” cutters will cut 3/16” deep.
All produce very clean holes.

STRAIGHT FLUTE REAMER

<table>
<thead>
<tr>
<th>Size</th>
<th>Part No.</th>
<th>Size</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>#40</td>
<td>* RSF-40</td>
<td>5/16”</td>
<td>RSF-516</td>
</tr>
<tr>
<td>#30</td>
<td>* RSF-30</td>
<td>3/8”</td>
<td>RSF-380</td>
</tr>
<tr>
<td>3/16”</td>
<td>RSF-316</td>
<td>7/16”</td>
<td>RSF-716</td>
</tr>
<tr>
<td>1/4”</td>
<td>RSF-140</td>
<td>1/2”</td>
<td>RSF-120</td>
</tr>
<tr>
<td></td>
<td></td>
<td>9/16”</td>
<td>RSF-916</td>
</tr>
</tbody>
</table>

* Use these sizes for enlarging rivet holes on prepunched kits

BOELOUBE - DRY PUSH-UP STICK LBL-13
Multipurpose lubricant developed by Boeing keeps cutting edges cool for longer life and a sharper cutting edge.
Use with drill bits, taps, reamers, files, saw blades, deburring tools, and belt sanders.
Works well with wood, composites, graphite, and metals.

BOELOUBE – 12 oz. PASTE LBL-307
Paste works better on cold tools and vertical surfaces.

515-432-6794 HELP-LINE
3-IN-1 JOBBER DRILL SET

116 piece set. High speed steel, US made. Production grade drills are ground from solid. Set includes Fractions 1/16" - 1/2" by 64ths, Nos. 1 - 60 and Letters A - Z in a folding metal index.

DRILL SET-CHICAGO LATROBE

Same as set described above except Chicago Latrobe production grade. Very high quality.

COBALT JOBBER BITS NUMBER SIZES 1-60
COBALT JOBBER BITS LETTER SIZES A-Z
COBALT JOBBER BITS FRACTION 1/16" - 1/2"

Fractional set includes 1/16" - 1/2" by 64ths. Heavy duty jobber length cobalt drills are 135 degree split point. Made to NAS907 type J specifications. These bits do not exhibit embrittlement problems like many imported bits. Metal index (box) included.

COBALT JOBBER DRILLS ~ 135 DEGREE SPLIT POINT

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Size</th>
<th>Part No.</th>
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<tbody>
<tr>
<td>#40 Pkg 6</td>
<td>DBJ-40P</td>
<td>#28</td>
<td>DBJ-28</td>
<td>#40 Pkg 6</td>
<td>DBJ-40P</td>
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<tr>
<td>#30 Pkg 6</td>
<td>DBJ-30P</td>
<td>#27</td>
<td>DBJ-27</td>
<td>#30 Pkg 6</td>
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<td>#26</td>
<td>DBJ-26</td>
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<td>DBJ-21</td>
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<td></td>
<td>#29</td>
<td>DBJ-29</td>
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<tr>
<td></td>
<td></td>
<td>Other sizes may be available upon request.</td>
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</tbody>
</table>

See pull-out chart for decimal equivalents.

PLASTIC AND LAMINATE DRILLS

Drill bits specifically designed to drill clean holes in all types of plastic. 60 degree point prevents cracking.

<table>
<thead>
<tr>
<th>Size</th>
<th>DBP-180</th>
<th>DBP-532</th>
<th>DBP-316</th>
<th>DBP-140</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8&quot;</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>5/32&quot;</td>
<td></td>
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<tr>
<td>3/16&quot;</td>
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<tr>
<td>1/4&quot;</td>
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DRILL STOPS

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>#40</td>
<td>DBS-40</td>
</tr>
<tr>
<td>#30</td>
<td>DBS-30</td>
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<tr>
<td>#21</td>
<td>DBS-21</td>
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<tr>
<td>#10</td>
<td>DBS-10</td>
</tr>
<tr>
<td>4 Sizes</td>
<td>DBS-SET4</td>
</tr>
</tbody>
</table>

COBALT AIRCRAFT EXTENSION DRILLS

135 DEGREE SPLIT POINT

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Length</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>#40</td>
<td>6</td>
<td>DBC6-40</td>
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<tr>
<td>#30</td>
<td>6</td>
<td>DBC6-30</td>
</tr>
<tr>
<td>#21</td>
<td>6</td>
<td>DBC6-21</td>
</tr>
<tr>
<td>#12</td>
<td>6</td>
<td>DBC6-12</td>
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<tr>
<td>1/4&quot;</td>
<td>6</td>
<td>DBC6-14</td>
</tr>
<tr>
<td>#40</td>
<td>12</td>
<td>DBC12-40</td>
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<tr>
<td>#30</td>
<td>12</td>
<td>DBC12-30</td>
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<tr>
<td>#21</td>
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<tr>
<td>#12</td>
<td>12</td>
<td>DBC12-12</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>12</td>
<td>DBC12-14</td>
</tr>
</tbody>
</table>

ORDERS 800-368-1822
3/8” SIOUX AIR DRILL - 2600 rpm
1/4” SIOUX AIR DRILL - 6000 rpm
Full sized Industrial Grade Air Drill made in US.
New ergonomically designed housing.
Teasing throttle for excellent control.
Full ball and needle bearing construction.
3/4 horse power.
Equipped with Jacob’s chuck.
Finest Production Quality.

1/4” SIOUX PALM DRILL 3600 rpm.
Small handy sized drill. Overall length 6”, weight 1.5 lb.
Comes standard with 1/4” Jacob’s chuck.
Very Fine Teasing throttle for maximum control.
1/3 horse power, 3600 rpm.
Full ball and needle bearing construction.
Same fine quality as Sioux drills above.

SIOUX PALM DRILL W/ ROHM CHUCK
The best drill (ADS-12 above) paired with the best keyless chuck (KC-140 below).
This makes a great combination of drill speed, tool change speed, and tool weight.
More nose heavy than the standard ADS-12, not as quick changing as the quick change tooling kit on the next page, but an economical midpoint.

1/4” ROHM KEYLESS CHUCK
Manufactured in Germany ROHM Keyless Chucks are the best available! Standard 3/8-24 internal thread to attach to any drill.
All metal construction.
1/4” chucking capacity.
Heavier than the Jacobs 1B, but no chuck key to keep track of.

1/4” CP PALM DRILL
A very handy, compact Air Drill.
Nice teasing throttle for an import tool.
6” overall length. Weighs 1.25 lb.
1/4” drill capacity chuck.
Rear exhaust.
Variable speed control. 2800 rpm
Quality Import.

3/8” AIR DRILL
3/8” REVERSIBLE AIR DRILL
This drill will accept bits from 0” - 3/8”.
2500 rpm.
Fitted with keyless chuck.
Import priced for any budget.

3/8” KEYLESS CHUCK
Keyless Jacob’s 3/8” Chuck to replace your standard chuck.
No More Lost Chuck Keys!
Saves Time - Increases Productivity

This unique system is in use by the largest manufacturing company.

Various tools can be used in the drill without needing a chuck key to change them.

Industry has found that this system saves many hours in the construction process.

Quick Change System

Revolutionize Your Shop

- Screw off traditional chuck - screw on Quick Change Chuck.
- Chuck operates similarly to an air hose quick connection.
- Spring loaded balls in chuck seat in indentations on tool shanks.
- The tool is held securely.
- Some tools come equipped with quick change shanks.
- Shank Adapters fit standard drill bits, unibits, micro stop countersink, etc.
- Need for chuck with key is eliminated.

Quick Change Chuck QC-65

Quick Change Chuck is designed to fit any standard drill motor with a 3/8-24 threaded spindle.
Chuck is 1-11/16” long x 3/4” diameter.
To operate, slide front sleeve away from drill - remove or install tools with quick change shanks or adapter shanks.
No chuck key to lose and hunt for.

Standard Chuck Adapter QCA-380

This adapter solves the only dis-advantage to the Quick Change System, how to use an odd sized drill bit. Thread your old key chuck on this adapter and in a snap it’s back on the drill.

Quick Change Adapter #40 QA-40
Quick Change Adapter #30 QA-30
Quick Change Adapter 3/16” QA-316
Quick Change Adapter 1/4” QA-140
Quick Change Adapter 3/8” QA-380

Used with the Quick Change Chuck shown above.
They adapt tools and drill bits with straight shanks to Quick Change shanks.
Select the adapter which fits the shank of the tool you want to use with your Quick Change System.

Internal Threaded Adapter QAT-1428

Quick Change Threaded Adapter has 1/4-28 internal threads.
Accepts Threaded Shank Drill Bits shown on page 19.

Quick Change Kit QC-KIT

Kit contains the following items.
See descriptions of individual items above.

Quick Change Chuck QC-65
Standard Chuck Adapter QCA-380
#40 Quick Change Adapter Qty. 3 QA-40
#30 Quick Change Adapter Qty. 3 QA-30
3/16” Quick Change Adapter Qty. 1 QA-316
1/4” Quick Change Adapter Qty. 3 QA-140
3/8” Quick Change Adapter Qty. 1 QA-380
**COUNTERSINK KIT CN-KIT**

Kit contains the following items. See descriptions of individual items below.

- **Notched Micro Stop Countersink CN-192**
  - #40 Single Flute Cutter (3/32” rivet) CCSF-40
  - #30 Single Flute Cutter (1/8” rivet) CCSF-30
  - #19 S.F. Cutter (#8 screw) CCSF-19
  - #28 S.F. Cutter (#6 Screw) CCSF-28

- **Notched Micro Stop Countersink CN-192**
  - Heavy Duty Series with Full Flange Skirt.
  - 1/4-28 Threaded Shaft.
  - .001” Increment depth adjustment with spring tension lock.
  - 9/32” Shaft Travel.
  - 5/8” Dia. Cutter Capacity.
  - 1/4” Dia. Shank
  - Quick Change Shank version available (see page 17)

- **Threaded Micro Stop Countersink CT-196**
  - Standard series with standard type skirt.
  - 1/4-28 Threaded Shaft.
  - .001” Increment depth adjustment with threaded lock.
  - 9/32” Shaft Travel.
  - 5/8” Dia. Cutter Capacity.
  - 1/4” Dia. Shank

- **100 Degree 1-Hole Countersink Cutters**
  - Pilot Size |  Fastener   | Part No.
  - #40       | 3/32” Rivet | CCSF-40
  - #30       | 1/8” Rivet  | CCSF-30
  - #28       | #6 Screw    | CCSF-28
  - #19       | #8 Screw    | CCSF-19

- **100 Degree 3-Flute Countersink Cutters**
  - Pilot Size |  Fastener   | Part No.
  - #40       | 3/32” Rivet | CC-40
  - #30       | 1/8” Rivet  | CC-30
  - #21       | 5/32” Rivet | CC-21
  - #33       | #4 Screw    | CC-4
  - #28       | #6 Screw    | CC-6
  - #19       | #8 Screw    | CC-8
  - #10       | #10 Screw   | CC-10

100 degree Countersink Cutters used with Micro Stop Units.
1/4-28 threaded shank. These are new, very high quality cutters.

- **Rivet Removal Tool RRT-4**
  - This nifty little tool works much like the countersink cage.
  - Interchangeable collars center over universal head rivets while the bit drills out the center.
  - Comes with #40, #30, #21, #10 bits and collars.
Kit contains the following items.
See descriptions of individual items below.

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADA-30</td>
<td>ANGLE DRILL ATTACHMENT</td>
</tr>
<tr>
<td>DBT-19</td>
<td>Right Angle Drilling Attachment US made by Terry Tools. Extra small style fits into tight areas. Face radius is .375&quot; with 1/4-28 threaded spindle. Accepts threaded shank drill bits (below) up to #10.</td>
</tr>
<tr>
<td>DBT-30</td>
<td>ANGLE SNAKE DRILL ATTACHMENT</td>
</tr>
<tr>
<td>DBT-10</td>
<td>22” long handle with 1-1/16” offset alignment. Accepts threaded shank drill bits (below) up to #10.</td>
</tr>
<tr>
<td>DBT-21</td>
<td>COBALT THREADED SHANK BITS 1/4”-28 135 DEGREE SPLIT POINT</td>
</tr>
<tr>
<td></td>
<td>#40 THREADED BIT - 1-1/4”</td>
</tr>
<tr>
<td></td>
<td>#30 THREADED BIT - 1-1/4”</td>
</tr>
<tr>
<td></td>
<td>#21 THREADED BIT - 1-1/4”</td>
</tr>
<tr>
<td></td>
<td>#19 THREADED BIT - 1-1/4”</td>
</tr>
<tr>
<td></td>
<td>#12 THREADED BIT - 1-1/4”</td>
</tr>
<tr>
<td></td>
<td>#10 THREADED BIT - 1-1/4”</td>
</tr>
<tr>
<td></td>
<td>6 Sizes Above</td>
</tr>
<tr>
<td></td>
<td>#40 STUBBY THREADED BIT - 1/2”</td>
</tr>
<tr>
<td></td>
<td>#30 STUBBY THREADED BIT - 1/2”</td>
</tr>
<tr>
<td></td>
<td>#40 LONG THREADED BIT - 2-1/8”</td>
</tr>
<tr>
<td></td>
<td>#30 LONG THREADED BIT - 2-1/8”</td>
</tr>
<tr>
<td></td>
<td>ANGLE DRILL CHUCK ADC-379</td>
</tr>
<tr>
<td></td>
<td>This little 3-jaw chuck measures 7/8&quot; long not including the 1/4-28 thread that allows it to screw into the angle drill. Tightens down on various sized drill bits between 1/16”-1/4” Precision ground hardened jaws.</td>
</tr>
<tr>
<td></td>
<td>SIOUX 90 DEG DRILL ADAS-1551</td>
</tr>
<tr>
<td></td>
<td>Top quality right angle drill, trigger feathers like a dream. Obviously this drill is not for everyone, but if you use these everyday or just want the best one you can find, here it is. We do not stock this item so please allow 2-5 days extra delivery time. Accepts 1/4” – 28 threaded bits. Made in USA.</td>
</tr>
<tr>
<td></td>
<td>TAYLOR 90 DEG DRILL ADAT-50</td>
</tr>
<tr>
<td></td>
<td>This little right angle drill motor is great for tight spots. It is a good alternative to the high priced production model above. Accepts 1/4” – 28 threaded bits. Imported.</td>
</tr>
</tbody>
</table>
Cleaveland Spring Back Dimple Dies

Spring Back Angle on Die Faces
Minimizes Skin Deformation
Skins remain very flat!

Precision Made on CNC Machine
Stainless Steel - Heat Treated
Polished Dimpling Surfaces

3/32” RIVET DIMPLE DIES *DIE426-3
1/8” RIVET DIMPLE DIES *DIE426-4
5/32” RIVET DIMPLE DIES DIE426-5
3/16” RIVET DIMPLE DIES DIE426-6

3/32” SMALL DIA. FEMALE DIE DIE426-3S
1/8” SMALL DIA. FEMALE DIE DIE426-4S
Small diameter female die allows dimpling in close quarters.
Ex. – When a hole has been drilled too close to a flange.

#4 SCREW DIMPLE DIES DIE509-4
#6 SCREW DIMPLE DIES *DIE509-6
#8 SCREW DIMPLE DIES *DIE509-8
#10 SCREW DIMPLE DIES DIE509-10
* Sizes required for the current Van’s RV kits.

TANK DIES - 3/32” RIVET DIE426-3T
Tank dies make deeper dimples to allow for the layer of tank sealer between the rivet and the skin.
Rivet will set flush with the skin’s surface.

1/8” POP RIVET DIES - 120 degree DIECS4-4

Don’t make 14,000 mistakes on your plane.
We guarantee these dies work better than any others or we will give you a refund!

DIMPLING Kit DIE-KIT

6 PAIRS OF DIMPLE DIES DIES - 6 SETS
2 SMALL DIAMETER DIES DIE426-3S & -4S
SET OF 8 FLAT SETS SSF-SET8
3/32 UNIVERSAL CUPPED SET SSC-3
1/8 UNIVERSAL CUPPED SET SSC-4
5/32 UNIVERSAL CUPPED SET SSC-5
3/16 UNIVERSAL CUPPED SET SSC-6
WOODEN DIE & SET ORGANIZER (shown below) DIEB-45

3/32” CLOSE QUARTERS DIES DIE426-3CQ
1/8” CLOSE QUARTERS DIES DIE426-4CQ

Just what you need where a squeezer or C-Frame won’t reach..
Pull die mandrel with pop riveting tool to squeeze dimple.
Same superior face design as on our standard dies.

TIGHT FIT DIMPLING FIXTURE DIE426-3DF

Screws to workbench overhanging enough to allow rib flange to slide over. Machined springback female die built in.
Use standard male die in rivet gun or c-frame ram to make dimple from top. Only 1/4” thick.

WOODEN DIE & SET ORGANIZER DIEB-45
Keep your Dimple Dies, Flat Sets, and Cupped Sets organized.
28 Holes to keep your dies in order.

515-432-6794 HELP-LINE
C-FRAME TOOL

This tool is needed for both dimpling and setting rivets. Its use assures the dimple dies or rivet sets are held perpendicular to the skin’s surface, a difficult task with a hammer or rivet gun held by hand.

Use the C-Frame for dimpling all control surfaces and internal areas of aluminum sheets. It is also very useful for riveting stiffeners and hinge fittings to the wing and empennage spars using RSB-12 (page 24).

This C-Frame Tool is a combination of the best features of several similar tools we have used.

- **Throat Depth:** 22 inches.
- **Arm:** 1” x 2” x .120” wall steel tubing.
- **Base:** 1-1/2” x 4” x 5/16” channel.
- **Bushings:** 1/2” ID sintered bronze bushings.
- **Base Set Holder:** Accepts a .401” shank - same as a rivet gun. Use any .401” shank rivet tools in C-Frame.
- **Ram:** Stainless, heat treated. Ram accepts .187” shanks of dimple dies or squeezer sets.
- **Return Spring:** Low tension spring holds ram off skin for positioning.
- **C-Frame Table:** Prints for building a carpet covered wooden table top. This provides a perpendicular work surface level with the dimple die. Kit available below.

**CLEAVERLAND’S C-FRAME TOOL HAS UNIQUE DESIGN FEATURES**

C-Frame Table Kit CFT-48

The C-Frame table is an integral part of the C-Frame. It ensures that the dies are perpendicular to the skins when they contact. This produces dimples that are consistent all around. Small chips fall into the nap of the carpet so the skin slides around without getting scratched. This table will improve the quality of your work. The parts are precut and dadoed. Adjustable feet are included for “fine tuning” the table to the C-Frame for perfect alignment. The frame supports high strength cardboard and carpet glues to the cardboard top.

**LEVER OPERATED DIMPLING TOOL**

This compression style dimpling tool has the advantage of being virtually noise free. It uses a modified industrial toggle clamp and a long handle to apply force to the dimple dies.

- **60 lbs** 28”X16”X3” 22” Throat depth 3/16” Die shank (Industry standard) (This ships from the manufacturer, extra shipping / lead times apply).

***You can NOT set rivets with this tool.***
Cleaveland Hand Squeezer
30% Lighter Weight
65% Less Effort Required

**HandSqueeze Kit SCH-KIT**

- SQUEEZER with 3” LIGHTWEIGHT YOKE  SCH-22
- QUICK CHANGE YOKE PINS    SQP-20
- 1/8” x 1/2” FLAT SET    SSF-1
- 1/4” x 3/8” FLAT SET  SSF-4
- 1/2” x 3/8” FLAT SET  SSF-8
- 1/8” UNIVERSAL CUPPED SET  SSC-4

**CLEAVELAND SQUEEZER HANDLE - MODEL 22**  SCH-22

Yokes sold separately, (page 23)

This squeezer outperforms all other squeezers on the market. As with all the tools we sell, pull it out of the box and give it a try. If you don’t agree send it back.

We recommend the 3” reach yoke for general applications. The larger yokes tend to get heavy for repeated work. 1/8” maximum diameter rivet.

**Why should you choose the Cleaveland Hand Squeezer?**

Manufactured from 6061-T6 Aluminum, with anodized finish.
Weight: 19 oz. without yoke. (29 oz. for next lightest competitor).
Size is 13-1/4”L, 3-1/8”W, and 15/16”D without yoke.
Force required to set an AN470-4-2.5 is 22.4 lbs. at the end of the handles (64 lbs. for others).

This unit does not use the standard cam action found on all other squeezers. A new innovative patented design sets the rivet with 35% of the force required on other models.
Threaded ram is easily adjusted to compensate when setting various length rivets or when dimpling various skin thicknesses.
Quick change yoke pins allows you to rapidly change yokes without using tools.
The Cleaveland Hand Squeezer accepts pneumatic 214C style yokes which can be used on a pneumatic squeezer body.

Compare quality and features, then the price of other hand squeezers and you will find this is an outstanding value.

**FLAT SETS - SET OF 8 BELOW**

| 1/8” body length x 1/2” diameter | SSF-1  |
| 1/8” body length x 3/8” diameter | SSF-2  |
| 3/16” body length x 3/8” diameter | SSF-3  |
| 1/4” body length x 3/8” diameter | SSF-4  |
| 5/16” body length x 3/8” diameter | SSF-5  |
| 3/8” body length x 3/8” diameter | SSF-6  |
| 7/16” body length x 3/8” diameter | SSF-7  |
| 1/2” body length x 3/8” diameter | SSF-8  |

**AN470 UNIVERSAL CUPPED SET - 3/16” SHANK**

| 3/32” x 3/8” body length | SSC-3 |
| 1/8” x 3/8” body length | SSC-4 |
| 5/32” x 3/8” body length | SSC-5 |
| 3/16” x 3/8” body length | SSC-6 |
| 1/8” x 1/8” body length | SSC-4S |

**ECONOMY IMPORT HAND SQUEEZER**  SIMP-1

If you need an inexpensive squeezer for a few rivets we also have an import knuckle popper to get you by. 1” Yoke included.
### Pneumatic Sqz Kit SN-KIT

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>PNEUMATIC SQZ. with 3” YOKE</td>
<td>SN-214</td>
</tr>
<tr>
<td>QUICK CHANGE YOKE PINS</td>
<td>SQP-20</td>
</tr>
<tr>
<td>ADJUSTABLE SET HOLDER</td>
<td>SNSHA-45</td>
</tr>
<tr>
<td>1/8” X 1/8” UNIVERSAL CUPPED SET</td>
<td>SSC-4S</td>
</tr>
<tr>
<td>1/8” X 1/2” FLAT SET</td>
<td>SSF-1</td>
</tr>
<tr>
<td>1/8” X 3/8” FLAT SET</td>
<td>SSF-2</td>
</tr>
<tr>
<td>1/2” X 3/8” FLAT SET</td>
<td>SSF-8</td>
</tr>
<tr>
<td>PNEUMATIC SQUEEZER BODY (no yoke)</td>
<td>SNB-214</td>
</tr>
</tbody>
</table>

This Pneumatic Squeezer is manufactured in the US using all new components. SHSH-100 set holder below comes with the body. All moving parts are heat treated and tempered to ensure trouble free service. This type of squeezer requires a larger initial investment than the manual type however it will speed up dimpling and riveting. The uniformity of dimples and rivets will be superior to those squeezed by hand.

- **2” REACH YOKE (A)**: SNY-20
- **2.5” REACH YOKE (B)**: SNY-25
- **3” YOKE (C-Recommended for RV’s)**: SNY-30
- **3” LIGHTWEIGHT YOKE (D-Best for RV’s)**: SNY-30LW
- **4” REACH YOKE (E)**: SNY-40
- **1” - THIN NOSE YOKE (F)**: SNYT-105
- **2.5” - THIN NOSE YOKE (G)**: SNYT-255
- **2.5” FLANGE NOSE YOKE (H)**: SNYF-251
- **4” THIN NOSE YOKE (I)**: SNYT-405

These pneumatic squeezer yokes, with a variety of nose designs and throat depths, are made from 4140 steel. They are heat treated prior to machining to eliminate warping. The varied yoke designs expand the usefulness of the pneumatic squeezer allowing hard to reach areas to be dimpled and riveted with ease.

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOOT CONTROL</td>
<td>SNBF-70</td>
</tr>
</tbody>
</table>

This foot control hooks to our pneumatic squeezer. It allows you to run the squeezer with your foot making the squeezing process even more controllable. Foot pedal is very controllable and can be feathered as good or better than the original trigger. Easy to switch back to the trigger.

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>SET HOLDER - 1” Yoke Base</td>
<td>SNSH-100</td>
</tr>
<tr>
<td>SET HOLDER - 1.25” Yoke Base</td>
<td>SNSH-125</td>
</tr>
</tbody>
</table>

Yokes with 1” bases require the Short set holder. (1”- 3” yokes)
Yokes with 1.25” bases require the Long set holder. (4” yokes)

(Ask for details when ordering yokes)

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>QUICK CHANGE YOKE PINS</td>
<td>SQP-20</td>
</tr>
</tbody>
</table>

Quick Release Yoke Pins allow Pneumatic Squeezer yokes to be changed quickly and easily.

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>SHIM WASHERS PKG 6</td>
<td>SSW-6</td>
</tr>
</tbody>
</table>

Hardened washers to shim dimple dies and rivet sets to achieve desired results.

- 2 each - .005” .015” .032” thick
RIVET GUN 2X — up to 1/8” rivet  
RIVET GUN 3X — up to 3/16” rivet  
RIVET GUN 4X — up to 1/4” rivet  

New manufacture to Cleaveland specs.  
Accepts .401 dia. shank rivet sets.  
*** EZ Change Retaining Spring included. ***

Extra sensitive teasing throttle for full control.  
Hardened tool steel piston and alloy steel cylinder for long life.  
Limited Lifetime warranty.  
Spool valve provides slow heavy blows needed to drive rivets.  
Rubber grip for comfortable solid feel. Light & compact.  
Designed to operate with 90 psi air pressure.  
Recommend using Air Flow Restrictor below.

**NOTE: DO NOT mistake an “Air Hammer” or “Muffler Tool” for a RIVET GUN.  
Such tools are not intended to be used for riveting.  
They hit too hard and too fast.  
They are not controllable and will ruin your project.**

EZ CHANGE RETAINING SPRING  
RGS-25

This spring makes changing sets quick and easy.  
Change sets without removing spring. Included with Rivet Guns.

SIOUX 2X RIVET GUN  
RG2X-SIOUX

Very fine teasing trigger for very controllable riveting.  
Quick Change and Beehive springs included.  
Made in USA.

DYNASWIVEL RESTRICTOR (US)  
ASRD-14

CLICK TYPE RESTRICTOR (Import)  
AFR-1

Used on the rivet gun to control the strength of blow.  
Adjust when changing from one size of rivet to another.  
Swivel has 1/4 turn full on to full off air flow control.  
Brass click type restrictor provides a positive adjustment.

BACK RIVET SET  
RSB-35

12" BACK RIVET SET  
RSB-12

1/2” diameter flush set with slim DELRIN spring tension sleeve.  
Used for setting flush rivets from the back side.  
Tension sleeve safely holds both layers of aluminum tightly together while riveting.  
12” version can be used in the c-frame, or to back rivet wing skins.

BACK RIVET PLATE – 4 x 8”  
BBRP-48

BACK RIVET PLATE – 4 x 16”  
BBRP-416

Blanchard ground back rivet plate is designed to slip into a cutout in a 1/4” masonite bench top cover and sit just proud of the surface. Perfect for back riveting control surfaces.
1" DIA. MUSHROOM SET
RSM-10
Stubby 2-1/16" mushroom flush set with .401 dia. shank.
The 1" dia. face is highly polished.
This is the ideal size for setting 3/32" & 1/8" flush head rivets.
U.S. made - excellent quality.

FLUSH SET WITH RUBBER GUARD
RSMR-60
Flush set with .401 dia. shank.

SWIVEL FLUSH SET W/ RUBBER GUARD
RSMS-75
Swivel flush set with .401 dia. shank.

3/32" CUPPED SET - STRAIGHT 3.5"
RSC-33
1/8" CUPPED SET - STRAIGHT 3.5"
RSC-43
5/32" CUPPED SET - STRAIGHT 3.5"
RSC-53
3/16" CUPPED SET - STRAIGHT 3.5"
RSC-63

3/32" CUPPED SET - STRAIGHT 5.5"
RSC-35
1/8" CUPPED SET - STRAIGHT 5.5"
RSC-45

3/32" CUPPED SET - DBL OFFSET 5.5"
RSO-38
1/8" CUPPED SET - DBL OFFSET 5.5"
RSO-48

Cupped sets used for setting AN470 universal head rivets.
Precision ground .401 shanks.
Double offset shank allows reaching rivets in restricted areas.

BUCKING BARS

1.0 lb. MINI BAR (A) BB-74
1.0 lb. PALM BAR (B) BB-670
1.9 lb. ANVIL BAR (C) BB-83
2.2 lb. FOOTED BAR (D) BB-30
BACK RIVETING BAR (E) BB-46
CUSTOM RV-10 BAR (F) BBRV-10

Bucking Bars are available in dozens of shapes and sizes.
The few chosen here are useful for a wide variety of applications.
We only sell bars that are HARDENED and ground.
Each bar has several polished surfaces.
Use the surface which allows the bar to be held firmly, flush to the
rivet stem and perpendicular to the skin surface.

TUNGSTEN BUCKING BAR - 1"X1"X2" 1.5# BBT-12
TUNGSTEN BUCKING BAR - 1"X4"X5/8" 1.7# BBT-41

Tungsten bars are the best bucking bars.
Made from solid Tungsten these bars are twice as heavy as
standard steel bars and over twice as heavy as cast bars.
Small size allows it to fit into tight places.
All surfaces are polished.
Once you use a Tungsten bar you will prefer to use it over a
conventional steel bar.
ALL-IN-ONE RIVET GAUGE  RLG-1
Gauge measures -3,-4,-5,-6 universal head and flush rivets. Used to check proper length of exposed rivet shank BEFORE setting, and to check for proper length and width shop head AFTER setting.

3M RIVETING TAPE  RT-685
Specialty tape designed by 3M to hold rivets in place. Low stretch polyester backing with green adhesive zone edges, and transparent tack-free center window to allow rivets to not be trapped during setting process.

REMOVABLE MAGIC TAPE  RT-811
Tape holds rivets in position while back riveting. Scotch Magic REMOVABLE Tape is easily removed. Similar to Post-It Notes adhesive.

WEIGHTED TAPE DISPENSER  RTD-34
Refillable weighted dispenser with rubber bottom. *** DOES NOT FIT RT-685 TAPE ***

HEAVY DUTY RIVET CUTTER  RC-50
Heavy duty steel construction. Hardened cutting edges cut 3/32” to 1/4” rivets. Cut rivets to length from 1/4” to 3/4” in 1/16” increments using adjustable stops.

CLEKO PLIERS  CLP-20
Nickel plated pliers. Use for installation and removal of Cleko-Loc, Kwik-Loc, or Monogram (Wedge-Loc) brand fasteners. Fits all sizes of clekos and cleko clamps.

3/32” WEDGE-LOC  Bag of 25 / CL332-25
3/32” WEDGE-LOC  Bag of 100 / CL332-100
1/8” WEDGE-LOC  Bag of 25 / CL18-25
1/8” WEDGE-LOC  Bag of 100 / CL18-100
5/32” WEDGE-LOC  Bag of 10 / CL532-10
3/16” WEDGE-LOC  Bag of 10 / CL316-10
Spring-loaded plunger-type fasteners used to hold drilled components tightly together prior to riveting. See pliers above. Steel bodies are plated in different colors to distinguish sizes. Highest quality fasteners - work smoothly - hold tightly.

CLEKO CLAMPS  CLC-50
Spring-loaded plunger type clamp fasteners operated using cleko pliers. 1/2” or 1” deep jaws. Useful for holding sheets to ribs or bulkheads prior to drilling. Good quality fasteners - work smoothly - hold tightly.
PNEUMATIC POP RIVET PULLER

PRN-91

Pneumatic Rivet Puller is the right tool when installing large numbers of pop rivets.
Reduces strain on forearms and wrists.
Interchangeable nose pieces included.
Replacement jaws available.
Pulls 4 sizes of rivets: 3/32”  1/8”  5/32”  3/16”.

POWERLINK POP RIVET TOOL

PRS-20

50% Easier to use than ANY other manual pull rivet tool.
Shorter grip opening for one handed operation.
30:1 Mechanical Advantage with patented compound link.
Soft contoured handles with innovative latch for storage.
Wrench and nose pieces are stored out of the way on handle.
Jam free front end design for consistent operation.
Smaller nose housing than other tools.

This tool is amazing. Anyone who has pulled many pop rivets with other tools will appreciate this one.
1/8” rivets can easily be pulled with one hand.

50% Easier to Squeeze!!

SWIVEL POP RIVET TOOL

PRS-37

Rivet head SWIVELS 360 DEGREES for riveting at ANY angle.
Extended nose piece for hard to reach locations.
Interchangeable nose pieces and wrench included.
Pulls 4 sizes of rivets: 3/32”  1/8”  5/32”  3/16”

AN BOLT GAUGE

BG-585

Covers AN sizes from AN-3 to AN-10.
Measures bolts and eye-bolts up to 5” in length.
Simply lay the bolt in the correct sized slot and read the dash number on the chart below. All steel construction.

SCREW CHEK’R

SCG-211

The SCREW CHEK’R identifies all machine screws, bolts, wood screws, self tapping screws, standard size rivets, and common cotter pin sizes up to 5/16” diameter.

1. Pass screw through smallest clearance hole to determine size.
2. Screw into threaded holes to determine thread pitch.
3. Numbers on face grid indicate:
   Screw Size
   Clearance Drill Size
   Tap Drill Size
   Tap Series (n.c., n.f., n.s.)
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Wires are made from 301 full hard stainless steel .042” thick. Wrenches will always maintain their rigidity and tension. Washers will always fit into position and are held firmly. Set of four fits over 90% of all aircraft washers.

NOTE: WT-1501 is best for RVs -3 through 3/8” bolts.

Complete with Rivet Punch, Set, Anvil for setting rivets. More convenient and easier to use than other punch style tools. Will not crack or distort brake lining. Can be used in a vise or hand held.

Shaped to obtain superior access to vacuum pump flange nuts. Nickel-plated hardened steel is laser cut for a tight fit on pump flange nuts.

Wrenches and tools are made from hardened alloy steel, black oxide finish. The 9” version has a diagonal nose. The right hand twister mechanism retracts automatically making operation simpler and faster.

New Reversible feature allows twisting in a clockwise or counter-clockwise direction. Both sizes feature automatic return.

Annealed stainless steel safety wire comes rolled in center feed economical 1 lb. cans.

CDI is the leading torque wrench maker in the US. They are branded and sold by the “big name” tool suppliers. These are the same high quality wrenches at a reasonable price.

NOTE: WT-1501 is best for RVs -3 through 3/8” bolts.
RATCHETING TERMINAL CRIMPERS  WTC-380

Easy to squeeze ratcheting crimper sets a crimp that really holds. Crimps 22-28, 16-18, and 12-10 gauge terminals in three separate crimping nests. Properly crimps each time. Great for aircraft electrical wiring. Crimps terminal and strain relief all at once.

AUTOMATIC WIRE STRIPPER  WS-39

Self-adjusting wire stripper cuts and strips 26 to 10 AWG wire. Does not nick wire like most others. Breaks and pulls off casing without cutting the wire inside. Very nice tool for close quarter work such as behind instrument panel.

TUBE BENDER  TB-368

1/4”  5/16”  3/8” OD Tubing

SMALL TUBE BENDER  TB-167

1/8”  3/16”  1/4” OD Tubing

Lever-type Imperial Eastman Triple Header Bender is US made. Calibrated markings for making accurate left hand, right hand, and offset bends. Use for bending annealed copper, aluminum, steel, stainless steel, and hard copper tubing of bending temper. Large - 1”, Small - 9/16” radius bend to center of tube.

MIDGET TUBE CUTTER  TC-105

Imperial Eastman Imp Tube Cutter is ideal for cutting aluminum fuel and pitot/static lines as they are installed in the fuselage. Designed for cutting copper, brass, aluminum, thin wall steel, stainless steel, monel, and plastic in close quarters. This small 1.75” x 1.25” x .5” cutter handles 1/8” thru 5/8” OD tubing.

RATCHETING TUBE CUTTER HANDLE  TC-RH

The ratcheting tube cutter handle has a minimal clearance radius of 1 1/4-inches. Insert the TC-105 cutter above and the handle allows it to cut in very tight quarters.

ROLO-FLARE TOOL  TRF-37

Best quality aircraft tubing flare tool on the market. Produces a perfect radius at the neck and a highly polished surface on the face of the flare. Makes a 37 degree flare in tubing. 1/8”  3/16”  1/4”  5/16”  3/8”  7/16”  1/2”  5/8”  3/4” OD.
**VISIT OUR WEB SITE FOR AIR COMPRESSOR FAQ**

**LIGHTWEIGHT HOSE & COUPLER KIT**

This lets you leave the heavy rubber hose and coupler on the floor. Kit contains ten feet of very flexible air hose with mini coupler and three Mini Plugs for use in your air tools.

<table>
<thead>
<tr>
<th>Lightweight Kit</th>
<th>Leave the heavy hose &amp; coupler on the floor.</th>
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**DELUXE AIRHOSE KIT**

This kit comes with three 10’ hoses that connect with mini couplers to your tool and the included manifold block. The block bolts to the wall or the bench where your standard airhose plugs into it. You can plug in three tools (drill, squeezer, and blow gun) all at once. The ends of manifold block are capped to allow for later expansion.

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Rectus couplers are very high quality and are German made. Their superior flow characteristics result in lower pressure drop than standard couplers. Rated for 1000 psi maximum. Mini connectors - small size and light weight to reduce fatigue. Max flow rate on mini coupler is 21cfm. Large couplers - standard industrial interchange or MIL C-4109-E

* Also available in other configurations upon request.

**DYNASWIVEL REGULATOR (US)**

Used on the rivet gun to regulate the strength of blow. Adjust when changing from one size of rivet to another. Swivel has 1/4 turn full on to full off air flow control. Brass click type restrictor provides a postive adjustment.

**CLICK TYPE REGULATOR (Import)**

| ASRD-14 | AFR-1 |

**AIR TOOL SWIVEL**

Allows hose to drop to floor however the tool is held.

**PISTOL GRIP BLOW GUN**

Lever throttle adjusts air flow from a trickle to full blast. Inlet is 1/4” NPT.
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**ORDERS 800-368-1822**
Orders received by 2 p.m. CST are generally shipped the same day. Items not in stock will be back ordered, then filled and charged when shipped.

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