



ZEPHYR



**TOOLS ENGINEERED  
TO PERFORM**

# A ssembly Tools with Technical Superiority Engineered to Perform

Since 1939, Zephyr has established a reputation as a leading designer and manufacturer of assembly tools and tooling systems for the aerospace industry.

Today's Zephyr tools are ideally suited to many assembly operations where high standards of quality and demanding performance are required. Whether you're dealing with aluminum, stainless steel, titanium or the latest graphite and composite materials, Zephyr provides the solution.

Specialized tools for assembly make the work better. Less time on re-work can spell the difference between profit and loss.



## ANGLE DRILLS

Considered to be the standard of the Industry. These small, compact drilling accessories are designed for the difficult to reach drilling, countersinking and spot facing applications. Capacities range up to 5/8" in aluminum and '14" in titanium and stainless steel. A new high speed unit is available for composite materials.



## MICRO STOP COUNTERSINK CAGES

For depth control in countersinking holes. Micrometer dial for adjustment in .001 inch increments. Instant and positive setting, automatically locked in. The secondary locking ring eliminates accidental re-setting. A newly developed model offers high speed capabilities for the latest graphite and composite materials.



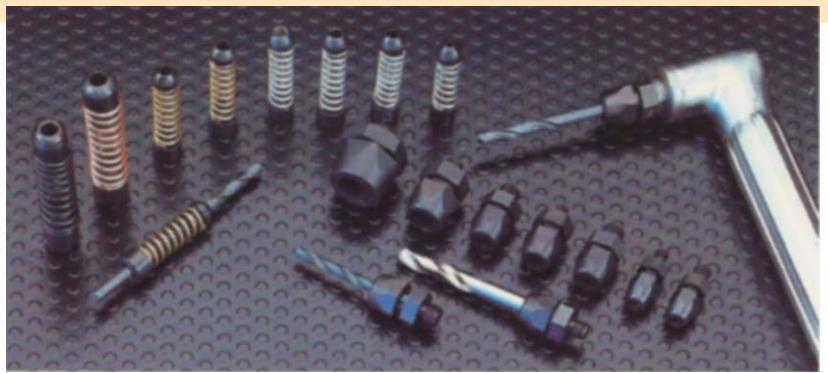
## COUNTERSINK CUTTERS, BACK SPOTFACERS AND PILOTS

Precision manufactured two and three flute cutters are available in high speed steel and carbide for most standard and exotic materials (titanium, stainless steel, Inconel, aluminum alloys and composites). Zephyr can also manufacture special! custom cutters to meet your requirements.



## DRILL STOPS AND COLLET CHUCK DRILL ADAPTERS

The coil spring in these drill stops cushions drill breakthrough, reducing drill bit breakage and damage to the workpiece. Drill stops are available in fractional numbered and letter drill sizes. Collet Chuck Drill Adapters can double or triple drill life by letting you use a straight shank drill bit in a tool with a threaded spindle. Easy to use, they offer improved concentricity for more precise holes.



## KWIK-LOK CLAMPS

This temporary blind hole clamping system is available in both power driven and plier actuated styles. Available in a full range of diameters and grip lengths. Handi-Klamps are designed to work on a wide range of surfaces, shapes, thicknesses and materials from the lightest plastics and wood to sheet metal. The Side-Klamp offers an economical alternative to vise grips. Ideal for bonding, gluing and sealants



## RIVET AND SUPER SHAVERS

Zephyr provides the solution to the problem of aerodynamic drag; standard, medium and heavy duty shavers for the flush machining of rivets and blind fasteners. Zephyr offers a shaver for every application. Every shaver has a .0005-inch adjustment range and is designed and manufacture red for heavy duty use and long service life. These shavers can also be used for burr and bead removal on other non-ferrous metals, composites and plastics.



## WELD SHAVERS

Zephyr Weld Shavers can reduce weld beads to the parent metal surface plane or to a pre-selected height in one pass with fingertip depth control in .001 inch increments. Excellent for finishing aluminum, stainless, titanium and related materials. They can also cut grooves to a pre-selected depth in aluminum surfaces. Multiple models and cutting heads are available in various sizes for different applications and metals.

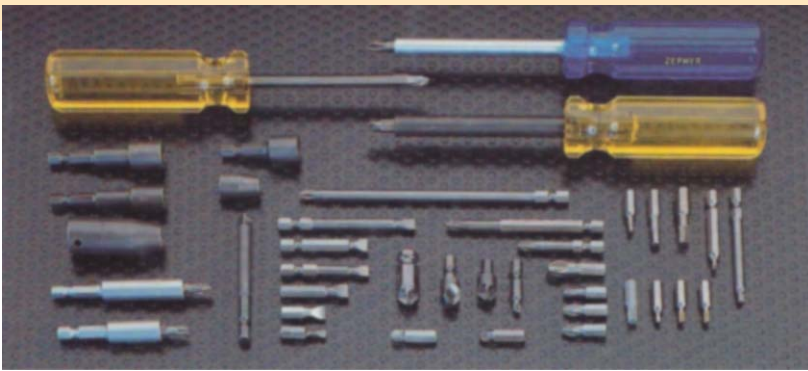


## POSITIVE FEED DRILLS

Zephyr drills produce high quality straight, tapered, countersunk or counterbored holes by drilling at a fixed rate of feed with respect to drill rotation speed. Designed for high production rates, these tools are available for every application from our smallest right angle drill for close quarters requirements up to our largest drill incorporating depth sensing with .001-inch control. Our latest pistol grip unit offers exceptional hole quality in composite applications for holes sizes up to 1/4".



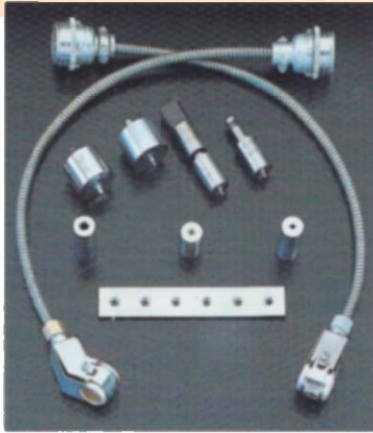
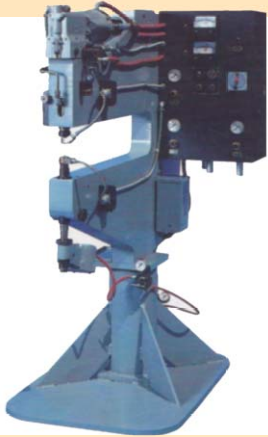




## SCREWDRIVER BITS

Zephyr offers the broadest selection and highest quality conventional and ACR® Anti-Camout Recess bits on the market. The combination of ACR® and Zephyr Z-Forge™ provides the best available quality through a unique single operation, which forms the ribs on the bit as it is forged. The Z-Forge™ process provides the optimal change in grain flow so that Zephyr bits provide higher torque with increased hardness. A forged bit is a better bit.

ACR® is a registered trademark of the Phillips Screw Company.



## DIMPLING EQUIPMENT

Dimpling allows the use of flush head fasteners in sheets that are too thin for normal machined countersinks. In sheet combinations where the top sheet material thickness is less than the height of the fastener head, a machined countersink will result in a knife edge condition for the top sheet. This condition will result in a loss of shear strength. Dimpling produces a conical depression by forming the material the same size as the fastener head with a minimal reduction in the shear bearing area of the sheet material. Zephyr offers a full range of Ram Coin Dimplers and tooling from the lightest sheet metal applications to the heaviest titanium requirements.



## LOK-FAST™

### TORQUE CONTROL TOOLS BLIND FASTENERS TOOLS FRANGIBLE COLLAR TOOLS

Lok-Fast produces a full range of installation and removal tools for Visu-Lok I and II, Composi-Lok I, II and III Hi-lok, Hi-Lite and Veri-Lite, and K-fast fasteners. Quick Change Kits are designed to allow the operator to quickly exchange sockets and hex keys without extra tooling, kits are available in several configurations, including pneumatic or hand tool versions. Lok-Fast brand now offers battery operated cordless tools.



## MARTIN™ AIRCRAFT TOOL

Tough Tools for the Air Frame Industry offering a variety of solutions for Riveting, Countersinking holes, Counterbore and dimpling applications. Martin brand also offers Rivet Sets for Squeezers and Rivet Guns, coarse and fine tooth Hole Saws along with many other outstanding products.

## OUR BRANDS:



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