

GUNDRILLS

PRECISION HOLES

SUPERIOR

Finishes 10 times smoother than conventional drilling plus controlled straightness at any depth in most materials.

FASTER

Drilling, boring and reaming done in one operation, one pass, no "woodpeckering."

ECONOMICAL

Saves multiple handling, set-up time and equipment.



BURDON GUNDRILLS

BURDON

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Straight Precision Holes

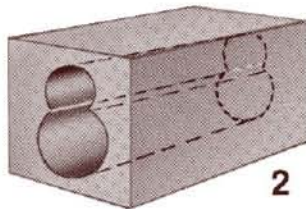
IN ANY APPLICATION



1



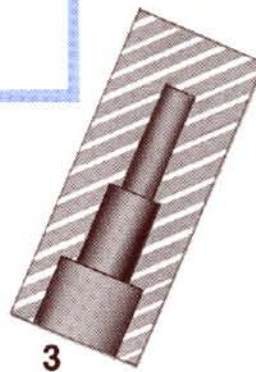
1



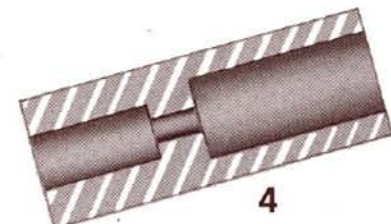
2

1. interrupted
2. overlap

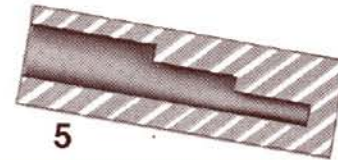
3. step
4. concentric
5. co-tangent



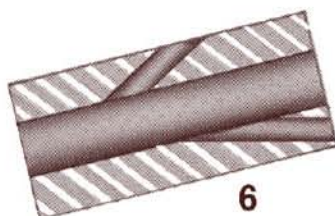
3



4



5



6



8



7

6. angle
7. radius
8. parallel

IN MOST MATERIALS

- ALUMINUM
- STEEL
- COPPER
- MOLYBDENUM
- TITANIUM, etc.

... and in any form

- FORGED
- ROLLED
- CAST
- FORMED

Burdon Gundrill Quality Is Built In

The Burdon Gundrill is a unique tool for producing precision holes more efficiently. It combines the ability to machine from the solid with the accuracy of a boring tool and produces a finished, straight hole to any depth. It satisfies most job requirements without further operations. The elimination of boring and reaming operations results in obvious savings.

Burdon Gundrills are of the single flute design, so constructed that the full length of the carbide cutting tip is utilized. This is accomplished by incorporating maximum size coolant passage plus carbide wear-pads designed to provide adequate lubrication and tool support for the complete regrind life of the tool tip.

The shanks are of heat treated tubular alloy steel with a large chip channel. Coolant flow of sufficient

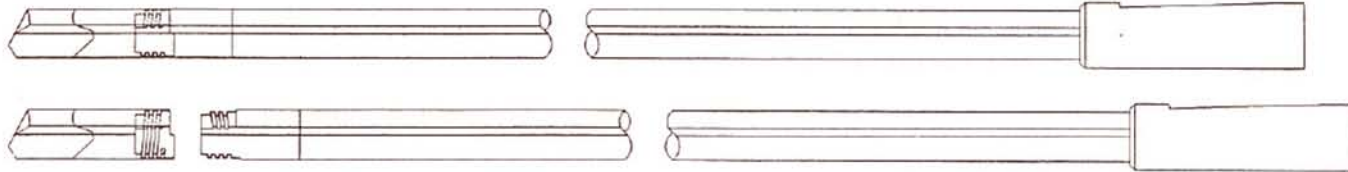
volume and continuous chip emission is thus ensured.

Tool drivers conform to industry accepted dimensions and are supplied in proper size to suit the customer's equipment.

Gundrills are normally used in machines specifically designed for them but may also be used in lathes, machine centers, drill presses, boring machines and automatic screw machines, providing certain modifications are made to the equipment and proper feed and coolant are used.

The Burdon Gundrill is a superior product for all hole drilling, shallow as well as deep, and, through our new production techniques, is available at a very competitive price. We invite your investigation.

Detachable Head Gundrills Pat. 5,114,286 5/19/92



Burdon detachables utilize a coupling which by design locks the tip in a strong, straight and concentric unit on shank. Economy in one shank being used for a multitude of tips and tip diameters. Technical and Engineering services available.

Burdon detachable gundrill coupling allows drill tip to be easily attached and detached. Two precision bearing diameters are well spaced to give straightness and concentricity. Special thread clamps join coupling to allow minimal oil leakage and delivers maximum torque for gundrilling.

Economical Burdon detachables save money utilizing one shank for many drill heads and various diameters. Adaptation of existing drill shanks may be possible. Labor is reduced by ease of handling in the machine and on the shop floor. Extension shanks are available to increase drill length. Drill tips can be easily sharpened when detached from shanks making the length of drill shorter. When returning drill for retipping the used carbide head section need only be returned saving packaging and freight costs.

COST EFFECTIVE RETIPPING

Recycle your used gundrills in our retipping program. You receive the savings, fast delivery and good as new tool quality. We are equipped to retip Burdon Gundrills or any of our competitor's.

EMERGENCY DELIVERY SERVICE

We have the stock and resources to deliver on accelerated basis of 3 days or less, 1-flute gundrills to your specification. Subject to inventory and production restrictions. "Just in time" and blanket orders, to 1 year guarantee timely deliveries.

Burdon Gundrills Are Readily Specified

Burdon Gundrills are custom made to your print or Burdon Standards. Many tips, shanks and drivers are stocked that cover the range of .093" to 2" in diameter. These components can be used in combination to fill most customer's requirements on a prompt delivery basis.

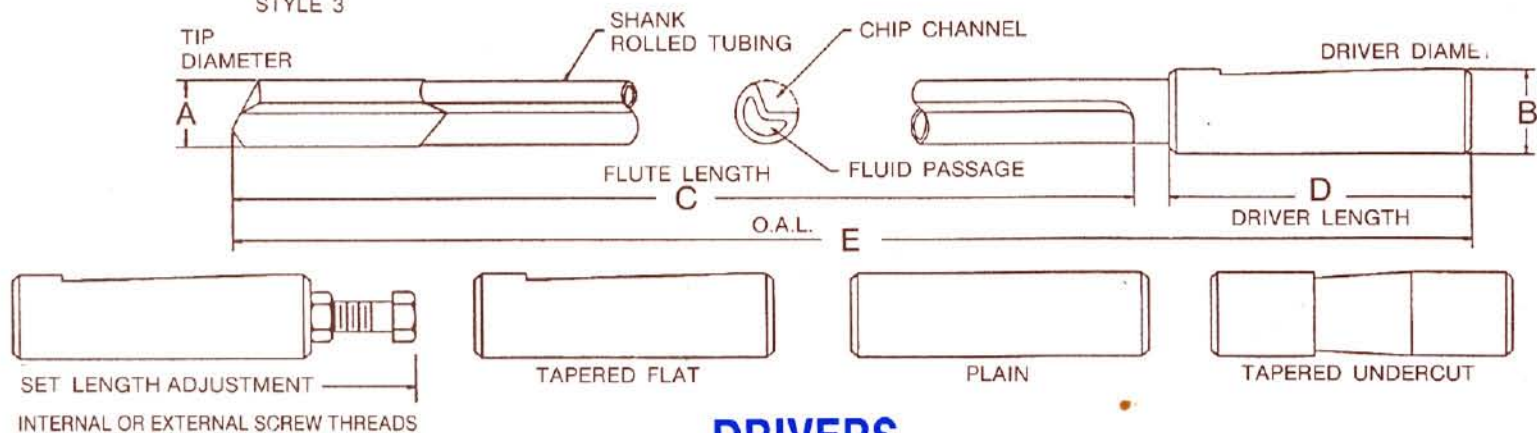
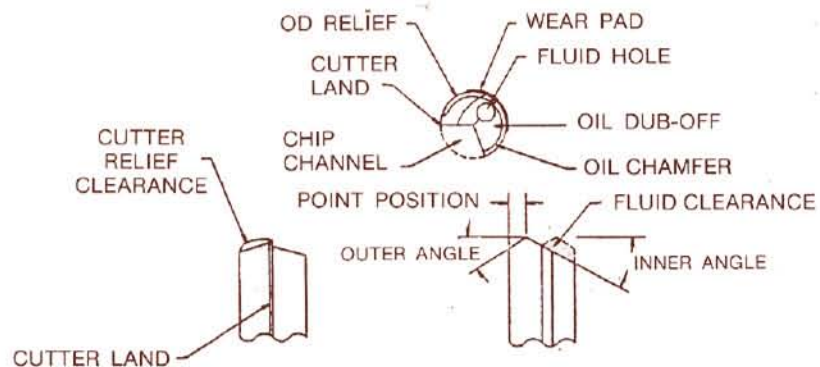
Standard tips are supplied with general purpose cutting angles, but tips can be furnished with other angles when required for special material or work.

When ordering without a print, include the dimensions indicated by the letters in the diagram below. In addition, to help expedite our service to you, please state: hole size, depth, tolerances and material to be drilled.

Special tips and drivers are available on request.

DRILL TIP RELIEFS

Gundrill Tips are available in any relief per print. Three standard styles are shown. Styles 1 and 2 are most commonly used; Style 3 only occasionally for high precision work.



DRIVERS

ADDITIONAL PRODUCTS & SERVICES AVAILABLE

EMERGENCY DELIVERIES
RETIPPING SERVICE
RE-SHARPENING & STRAIGHTENING
TROUBLE SHOOTING
ENGINEERING SERVICES
TECHNICAL INFORMATION
SHARPENING FIXTURES
INSPECTION INFORMATION

DETACHABLE GUNDRILLS
1 & 2 FLUTE GUNDRILL & GUN REAMERS
STEP GUNDRILLS
DOUBLE & HAPPY FACE FLUID HOLE
COATINGS
STOCK DRILLS
GUNDRILL SYSTEM DIAGRAM
SOLID CARBIDE SHANK GUNDRILLS

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