

ZX Modular Boring, Facing, & Contouring Systems

FROM COGDILL TOOL PRODUCTS



Cogsdill's ZX Modular Boring, Facing, and Contouring Systems allow the user to machine a variety of contoured surfaces on horizontal boring machines in *one tooling set-up*. A wide variety of operations can be performed:

❖ Boring ❖ Facing ❖ Taper boring ❖ Contour boring ❖
❖ Deep-cavity boring ❖ Grooving ❖ Back spotfacing ❖ Chamfering ❖

Multiple set-ups, secondary operations, and time consuming tool changes are eliminated. Customers report *productivity increases of up to 500%*. Heavy-duty, backlash-free design ensures consistent accuracy. Cam-lock bonnet makes mounting fast and easy. Modular design makes it easy to change from one type of tool to another.

ZX systems can be used on any boring machine with a programmable inner quill and independent parallel feeds on the Z-axis (spindle) and W-axis (workpiece). Radial feed motion is controlled by the Z-axis feed on the spindle.

Lower your production costs, increase productivity, and improve quality with ZX Modular Boring, Facing, and Contouring Systems from Cogsdill Tool Products!

See reverse side for more information on ZX systems for facing, boring, contouring, and for machining valve seat pockets.

ZX Modular Boring, Facing, & Contouring Systems

ZX facing, boring and contouring heads (single-slide)

- ❖ Our most versatile ZX head, for multiple operations in one set-up
- ❖ Heavy-duty design for long life
- ❖ Key-in-slot actuation for precise, repeatable backlash-free toolslide movement
- ❖ Qualified locating holes in toolslide for easy top tool mounting via “T” slots
- ❖ Modular top tooling can be made compatible with any existing boring system tooling
- ❖ 2:1 actuation ratio for easy programming



ZX boring and contouring heads (twin-slide)

- ❖ Twin slides for balanced cutting action with higher cutting speeds
- ❖ Long stroke capability without changing toolslide (additional stroke capability available)
- ❖ Bottom-facing capability for blind-bore applications is available
- ❖ Enclosed design prevents chip loading in actuation mechanism
- ❖ Special shank design allows easy adjustment of tool home position when used on multiple machines
- ❖ 2:1 actuation ratio for easy programming

ZX valve-seat pocket tools

- ❖ Twin toolslides (on most models) offer balanced cutting forces for higher cutting speeds
- ❖ Rigid cutter support and in-bore piloting produce very accurate, high quality, chatter-free finishes deep in bore cavities, even when machining inconel-clad bores
- ❖ Unique damper assembly eliminates chatter in small-diameter bores
- ❖ Wide range of diameters with ability to up-size using existing tool body
- ❖ Wide variety of cartridges and inserts for virtually any job
- ❖ Modular design features easy-to-assemble extensions with non-deforming internal bearing surfaces; innovative design is not threaded, so it won't lock up
- ❖ 2:1 actuation ratio for easy programming
- ❖ Mechanically-actuated models available for use on machines without programmable inner quills




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