



ZX SYSTEMS

Facing and contouring heads



FACE/OFF

(and boring, grooving, chamfering)

cogsdill.com

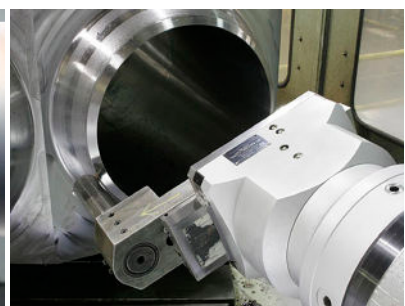
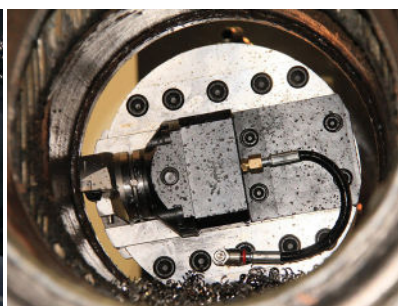
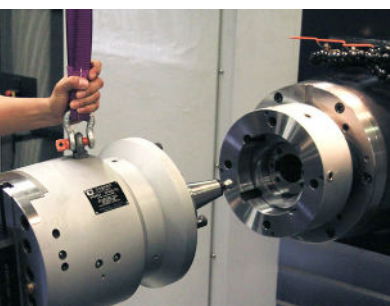


We're talking heads

The Cogsdill ZX range of Contouring and Boring tools, allow relatively simple 2-axis CNC programs to perform a variety of machining operations, converting linear actuator motion into radial movement. Part changes can be accommodated quickly and easily with program changes.

Operations that were previously performed manually can be converted to CNC Control, thus improving productivity, accuracy, part to part repeatability and improved surface finish.

Many customers who have changed to the ZX System from conventional tooling report productivity increases of up to 500%



Stock heads available

ZX300-TC Facing and Contouring Head

Slide Length	300mm
Maximum Stroke	75mm
Maximum Boring Diameter	800mm
Maximum Speed	500RPM

ZX420-TC Facing and Contouring Head

Slide Length	420mm
Maximum Stroke	102mm
Maximum Boring Diameter	980mm
Maximum Speed	350RPM



Standard sizes from 200mm–900mm available on request



Examples of components machined using ZX



g and contouring heads in the US.
or immediate shipping!



More flexibility. Extra support.

The ZX system features a quick release mounting device called a CamLock bonnet. The bonnet is precisely machined to fit the specific Horizontal Boring Machine (HBM) for which it will be installed. The bonnet bolts to the outer spindle of the machine and utilizes our quick-release CamLock mechanism.

CamLock allows for the swapping of the various heads and tools onto the bonnet with a simple marrying of four points and locking with an Allen Key.

Compatible with:

Mazak



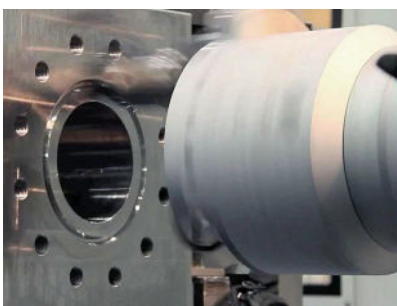
SORALUCE



TOSHIBA



and many others...



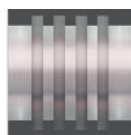
Configurations using ZX tools:



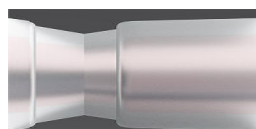
O/D
Threading



O/D Tapers
& Radii



Grooving



Tapers & Radii

Machine Tool Requirements

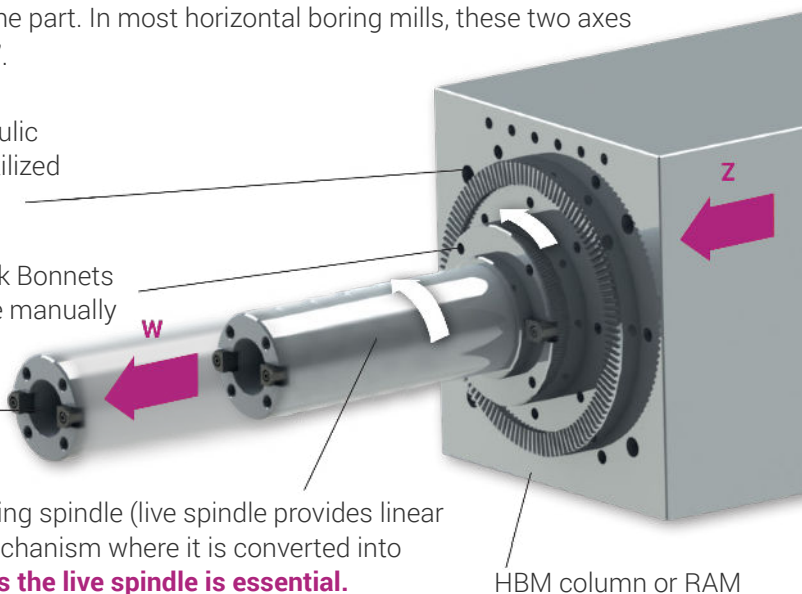
The ZX™ system requires the use of a horizontal boring mill with a programmable inner spindle that rotates in unison with the outer spindle, or milling sleeve. The axial movement of the inner spindle is converted within the tool into radial cutting stroke for diameter control. Movement of the table, or machine column, on a parallel axis controls the axial location of the cutting edge relative to the part. In most horizontal boring mills, these two axes are referred to as "W" and "Z".

Location of automatic hydraulic clamping & pick up device utilized by Rotary Couplings

Location to bolt on Cam Lock Bonnets on the rotating milling sleeve manually

Connection to ZX-Tool shank

Rotating CNC-controlled boring spindle (live spindle provides linear moving motion to the ZX mechanism where it is converted into radial stroke. **For all ZX-Tools the live spindle is essential.**



Universal Diamond Burnishing Tools (UDBT)

Did you know?

By combining Cogsdill's premium range of burnishing tools with the ZX facing heads, you can now achieve low Ra surface finishes in one pass. The proven diamond technology of the UDBT further enables you to achieve results not attainable from any other metal removal process.

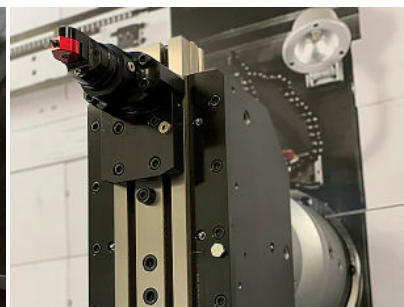
UDBT are designed to be adjustable through 180 degrees, which makes them the ideal choice tool for lower volume batch components where a designated orientated tool is not required.

Offers flexibility for burnishing large bores, outside dia's, tapers and faces – and a superior finish compared to turning alone.

The quick and simple castellated adjustment makes this the most versatile diamond burnishing tool on the market, with simple set-up and no special operator skills required.

Currently two standard Capto sizes with optional shank types available:

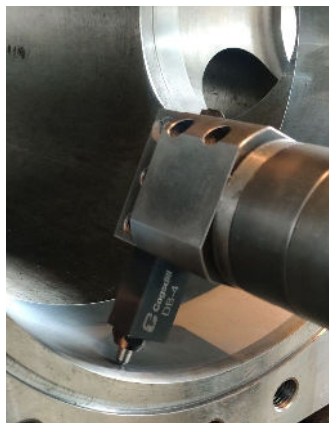
- UDBT-C5 and UDBT-C6 – integrated Capto Shank supplied with through coolant capability
- KM50 and KM63 – integrated KM with through coolant capability available upon request



For conventional slide adapters

The DB Series offers enhanced flexibility for high-volume applications or when adjustable spring pressure is required.

Utilizing our unique and proven diamond geometry, but designed for use in conventional open-ended square shank slide adapters.



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