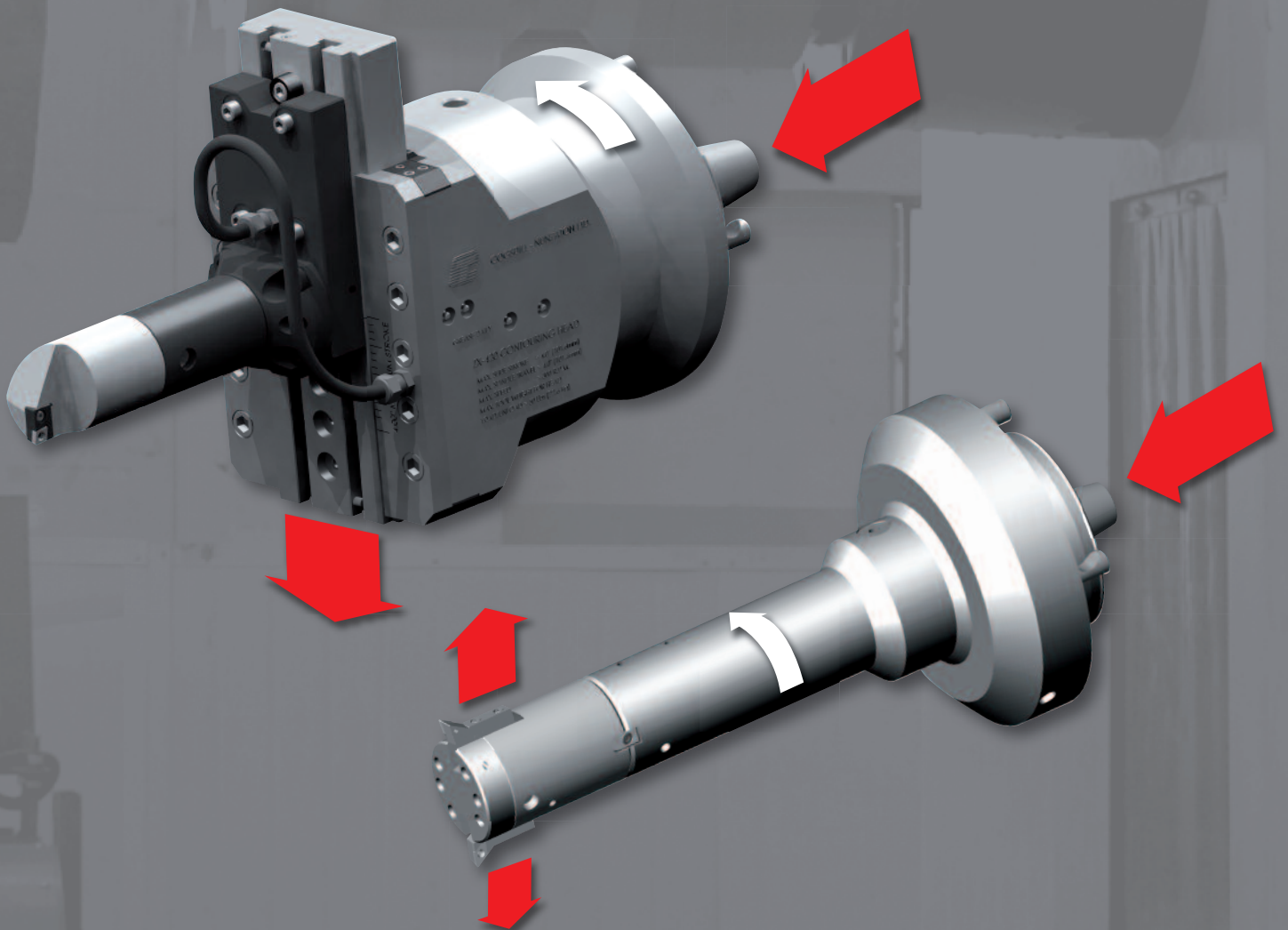




# ***ZX™ - Tooling Systems***

*Bottle Boring · Facing · Contouring · Grooving · Back Spot Facing · Taper Boring*  
*in one set-up*



# ZX™ Tooling Systems



*Bottle Boring · Facing · Contouring · Grooving · Back Spot Facing · Taper Boring  
in one set-up*

## Worldwide Markets

ZX tooling is generally used by the metal cutting industries who utilize Horizontal Boring Machines where components are too large to be machined on a lathe.

The ZX Boring Tools can also be adapted to Deep Hole Drilling machines, Mill/Turn machines and Horizontal and Vertical machining centres, to produce internal extended reach cavities, seat pockets and bottle shaped contours including roughing and finishing operations in one set-up.

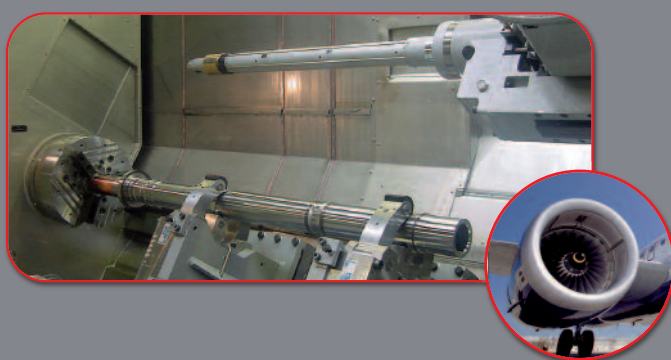
## Application Samples:

Valve bodies, oil valves, heavy equipment, compressors, large castings, heavy gear boxes, power generating equipment, blowout preventors, large engine blocks, aerospace and marine parts.

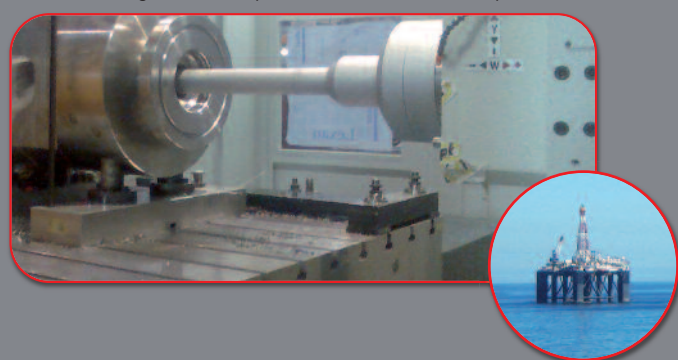
Bottle boring in landing gear part with high pressure coolant supply



Deep contouring in jet turbine shaft on a millturn machine



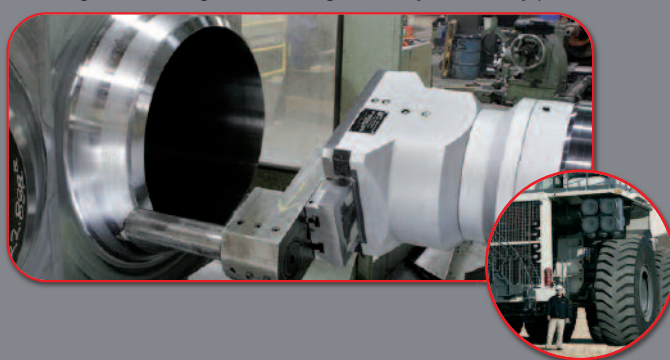
Machining valve seat pocket in a wellhead component



Backspotfacing / machining internal taper on ship equipment

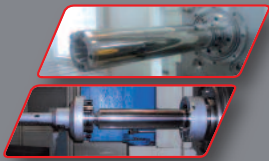


Facing / contouring / chamfering on heavy machinery part



# ZK™ Tooling Systems

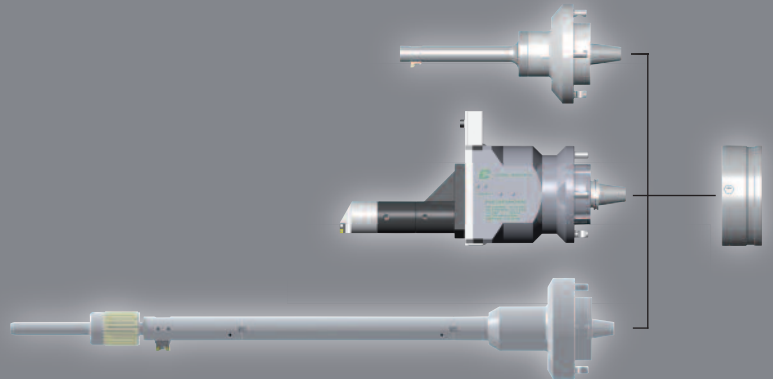
*Bottle Boring · Facing · Contouring · Grooving · Back Spot Facing · Taper Boring  
in one set-up*



Loaded into a Camlock Bonnet  
on the machine spindle



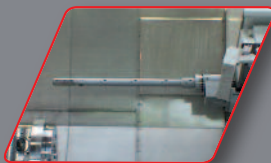
Machining process in  
Valve Seat Pocket



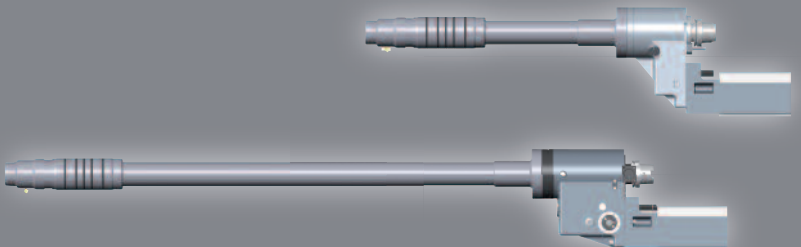
Contouring / Facing Head, Modular-Boring Tool, Valve Seat Tool and  
Cam-Lock Bonnet for fast and easy mounting



Special Drive Unit of Bottle  
Boring Tool



Special Drive Unit actuated  
by U-Axis



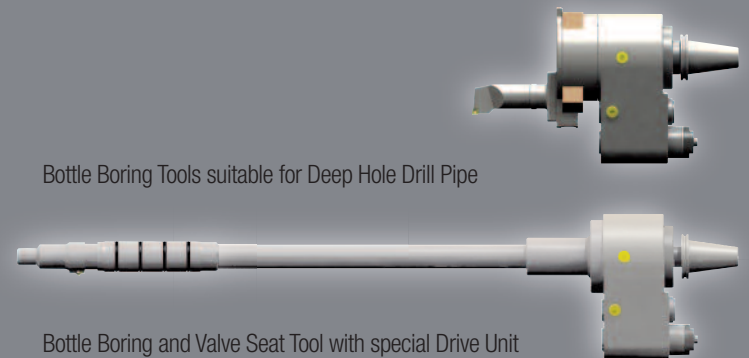
Bottle Boring and Valve Seat Tool with special Drive Unit and Carriage System



Facing Head with Integral  
Drive Unit



Special Drive Unit of Bottle  
Boring Tool



Bottle Boring Tools suitable for Deep Hole Drill Pipe

Bottle Boring and Valve Seat Tool with special Drive Unit

**Achieve a Super Finish on your Seat Pocket – Quickly and Effortlessly**



**From Boring ...**



**... to Burnishing in One Setup!**

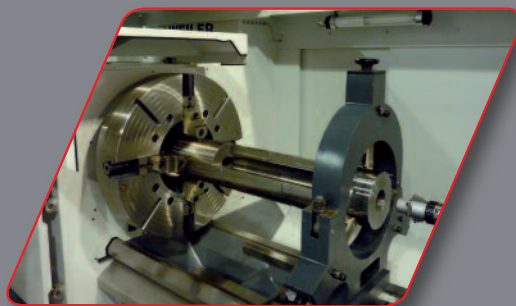


# ZX™ Tooling Systems

*Bottle Boring · Facing · Contouring · Grooving · Back Spot Facing · Taper Boring  
in one set-up*



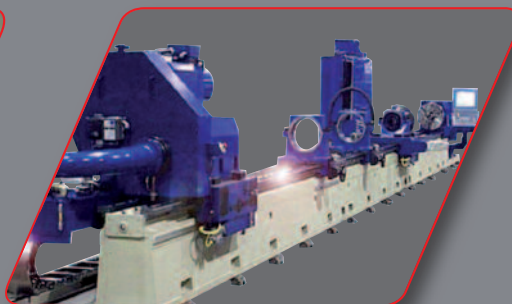
## USE ZX-TOOLING ON VARIOUS MACHINE TYPES



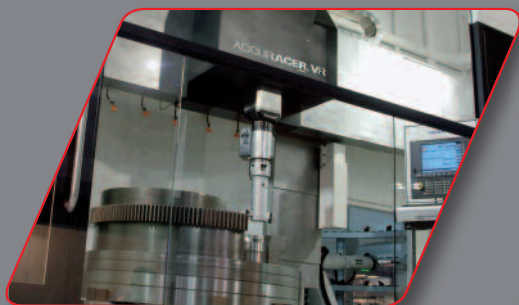
Turning Lathe with separate Drive-Unit



Horizontal Boring Mill with W and Z Axis (Live Spindle)



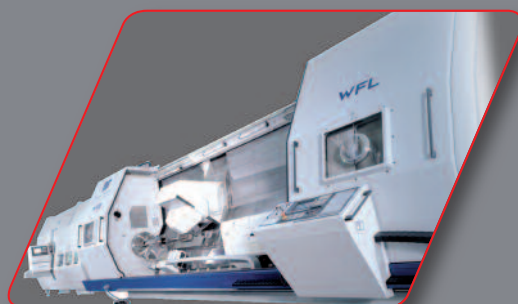
Deep Hole Drill Machine with separate Drive-Unit



Gantry Mill and Turning Center with Drive Unit



Horizontal Machining Center with additional U-Axis



Milling Turning Center with U-Axis

### FOR ADDITIONAL INFORMATION

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