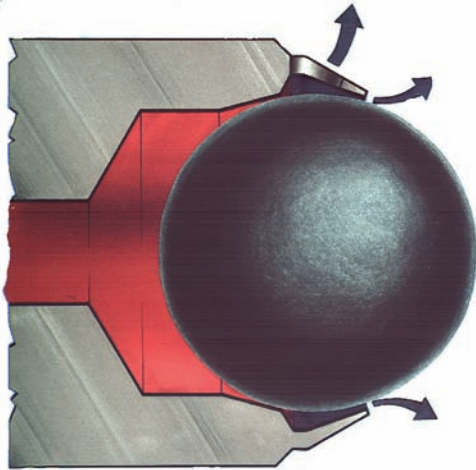


## Hydrostatic Tools

ECOROLL's hydrostatic HG tools can roller burnish and deep roll even the most complex contours and free-form surfaces. The HG tools can be applied with CNC-controlled lathes, drills, milling machines and machining centers as well as with manually controlled machines. HG tools can process materials up to a hardness of 65 HRC.



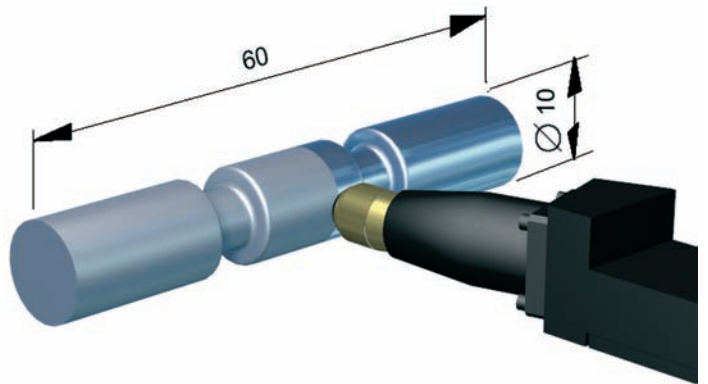
HG burnishing ball and ball retainer; arrows signify direction of fluid leakage

This group of tools includes types HG2 – HG25.

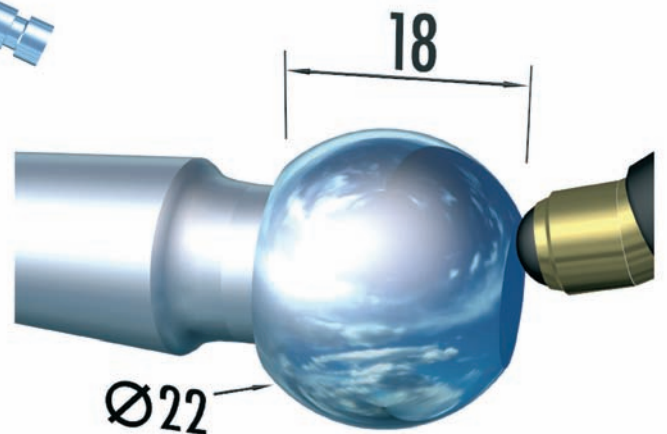
The unique HG tool design is based on a burnishing ball made of an especially hard material. This ball is hydrostatically suspended by pressurized liquid, either water soluble coolant or oil. The ECOROLL HGP line of pumps supply the tools with a consistent, controllable source of operating pressure. This pressure generates the burnishing force that is applied as the ball rotates against the workpiece surface.



Deep rolling a valve with an HG6 tool to improve its fatigue strength.



Machining a control valve piston with an HG6 tool to optimize sliding performance.



Machining a ball stud with an HG6 tool.