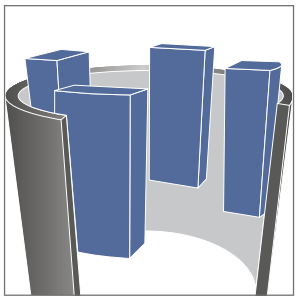
HONING AND SUPERFINISHING

DIMENSIONAL ACCURACY AND SHAPE ACCURACY PERFECTLY OPTIMISED

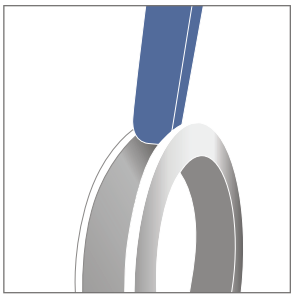
ATLANTIC develops honing stones for the production of the finest and precisely defined surface structures. The shape, dimensions and specifications of these honing stones are precisely adapted to the respective process. Special mixing processes, pressing techniques and impregnation types help to reduce abrasive wear and to achieve a very homogeneous structure which guarantees very consistent results with regard to process parameters such as material removal, surface quality and service life.

Long stroke honing with honing stones



Long-stroke honing
of inner diameters/bores of cylinder liners

Plunge finishing with honing stones



Short-stroke honing

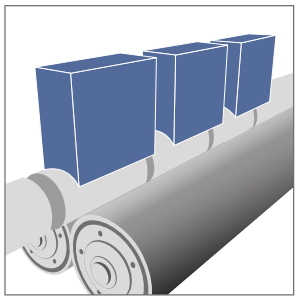
- inner and outer rings of ball bearings
- inner and outer rings of roller bearings
- camshafts or crank-shafts

Superfinishing

Superfinishing (short-stroke honing) allows particularly high surface qualities to be achieved, which guarantee a high contact bearing surface required for highly stressed components.

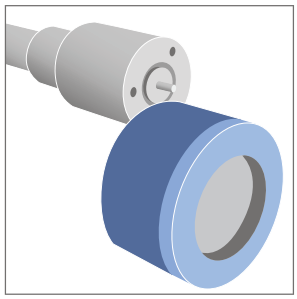
Scan code now!
Here you will find 3D animations of our grinding processes.

Thrufeed finishing with honing stones



Thrufeed finishing
e.g. of taper rollers, cylindrical rollers, piston pins etc.

Finishing with honing cups



Superfinishing with honing cups

- Finishing of flat surfaces
- Finest machining of spherical components e.g. balls

Honing

During the pre-machining of workpieces, geometric errors usually occur which can only be eliminated by honing. Roundness errors are corrected. Honed surfaces have a high contact ratio and are extremely resilient and wear-resistant.