

Automatic Superfinishing Machines



Materials

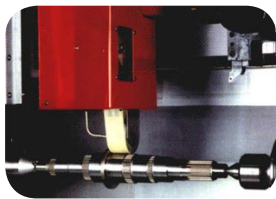
Copper, chrome, aluminium, stainless steel, rubber plastic, brass and extremely hard materials such as ceramic, tungsten-carbide, hardchrome, high density metals, plasma coated materials and many others

Applications

Microfinishing of hard turned components, camshafts, crankshafts, bearing surfaces, printing rollers, rollers for foil rolling, feed rolls, rubber rolls, rocker shafts, piston rods, rollers for copying machines, pneumatic pistons, pistons for pneumatic springs, valve slides, control levers, valves, printer axles etc.



Samples of different parts



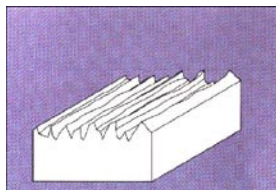
Microfinishing of shafts

Special advantages

- Easy installation
- Easy to use - no special training necessary
- Rapidly achieves high lustre
- Faster finish with an oscillating abrasive
- Constant accuracy on finish
- Constant surface quality
- Essential maintenance-free operation
- Rapid belt change reduces working time loss
- No dust emission
- Low noise emission
- Boosts productivity and profits

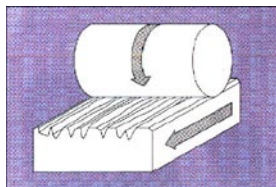
Surface of workpiece

Microscopic view depicts typical peaks and valleys.



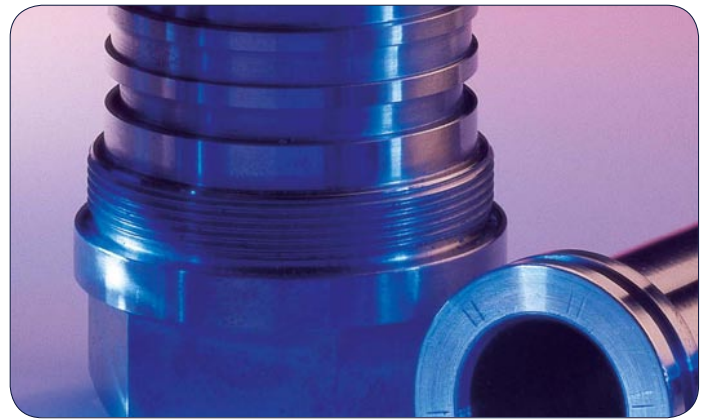
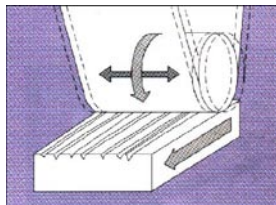
Grinding

Bonded mediums create a finer finish but generate fishtails, chatter marks and traverse marks.



Film Microfinish

A single layer, constantly indexing, abrasive oscillates and rapidly removes peaks, chatter marks, fishtails and traverse marks.



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Automatic Superfinishing Machines

Cylinder finisher



Superfinishing machine for microfinishing of copper and chrome rolls. Fast and profitable finish of rollers for the printing industry. Fully automatic with Siemens S7 PLC control. Can be equipped with belt and stone grinding heads.

Roll grinding machine



Grinding and polishing with tandem-arranged superfinishing station. Roll finishing up to 1 meter dia and 16 m length. Pre-finishing and reworking of hard chrome rollers, heating rollers, calenders, plungers, hydraulic rods etc.

Machine for finishing steering rods and camshafts



Multi-station superfinishing of steering rods. Pre-deburring and tandem-arranged high pressure refinement in one pass.



Machine for finishing of pistons, bars and axles

Two stations with short stroke honing heads up to 2,000 strokes/min. Additional overriding long stroke oscillation for surface bearing ratio. Plunge-cut finishing, 3-second cycle for Audi clutch cylinders.

Plunge type superfinisher

Modular finishing concept for axle parts, shafts and other cylindrical parts. Simultaneous finishing of various surfaces for BMW shock absorbers. Load levelling. Dry and wet finishing system for the production of friction-optimised surfaces.



Centerless grinding and superfinishing machine



4 stations belt grinding machine for pre-finishing to surface quality $Ra=0.08\mu\text{m}$ with tandem-arranged microfinish operation up to $Ra=0.03\mu\text{m}$. For finishing of shock absorbers, piston rods and hydraulic cylinders from 8 to 80 mm and variable length in the mass production.