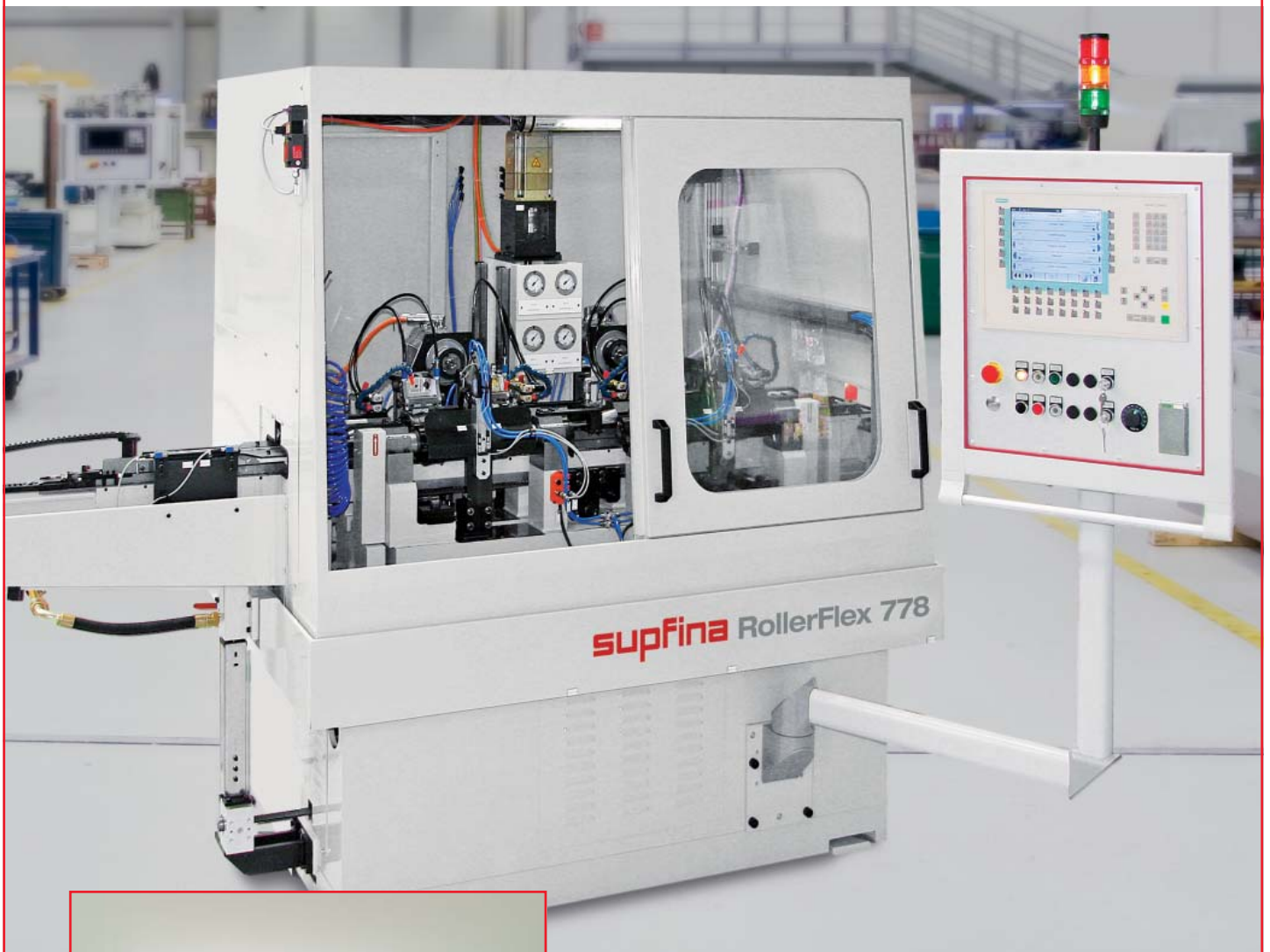


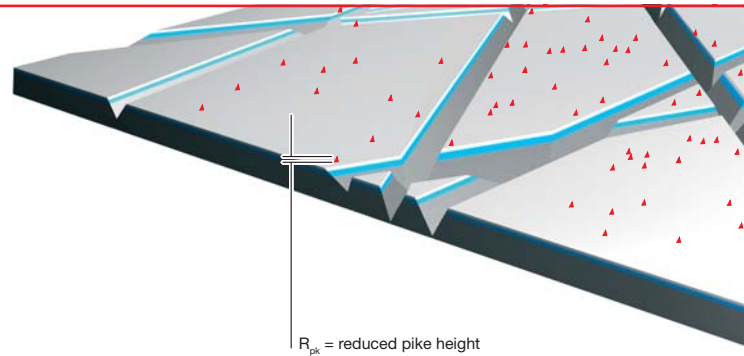
supfina

Superfinishing-Machine

Supfina RollerFlex 778



**Machining of
bearing rollers**



R_{pk} = reduced pike height

Superfinish

Machining of bearing rollers

The Supfina 778 RollerFlex marks the industry standard for the Superfinishing of bearing rollers. In the most recent generation of roller bearings, the improvements in performance and permissible load are based on the consistent reproduction of exactly defined surface parameters. Here, the highly productive Supfina RollerFlex 778 plays a crucial roll.

The machine's dynamically balanced Superfinishing units are designed for high frequencies and amplitudes. The resulting large stock removal rates lead to short machining times. The two-step Superfinishing process of the Supfina RollerFlex 778 generates plateau surfaces with a defined cross-hatch pattern, an optimum profile and roundness as well as a high bearing ratio.

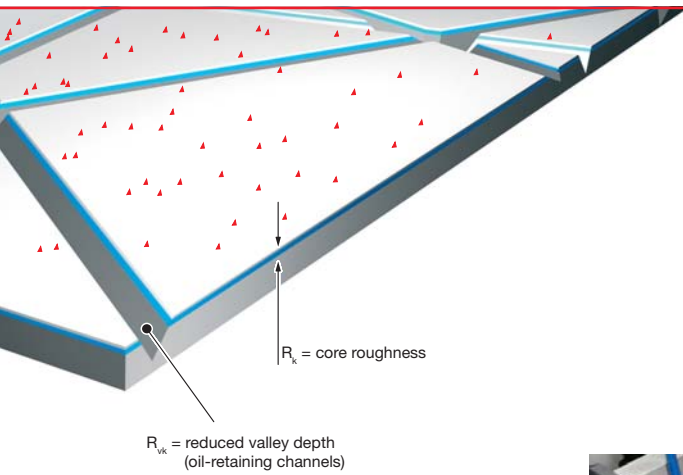
The integrated loading system is very versatile and can be adjusted to different workpiece dimensions quickly. Through the intelligent use of NC-controlled adjusting axes, set-up times of less than 20 minutes are achieved.

- Two or four operating stations
- Two or four Superfinishing units
- Workpiece drive and centering by horizontally arranged support rollers
- NC-controlled adjustment
- Digital drives for tools and workpiece
- Integrated loading and unloading, NC controlled
- Two-step Superfinishing process
- State-of-the-art control system
- Multi-range tooling
- Set-up times < 20 minutes

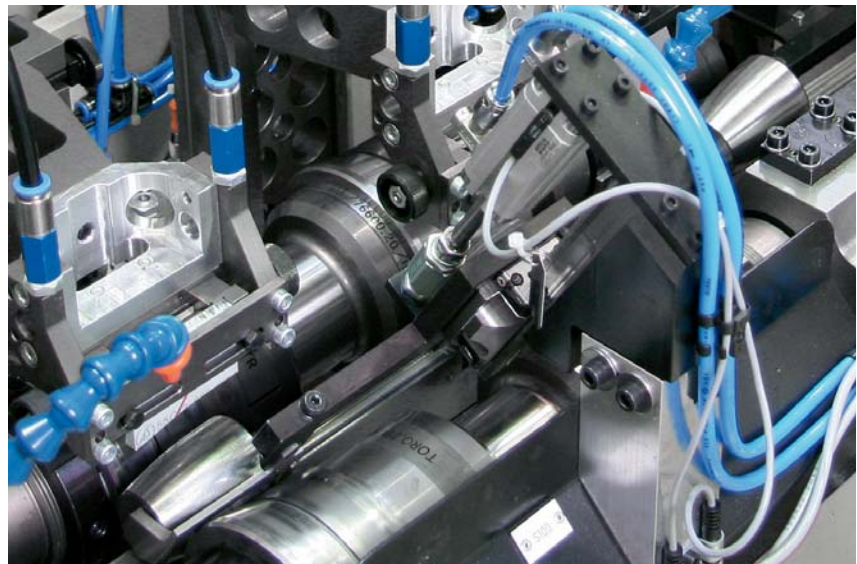


supfina RollerFlex 778

Typ:	Workpiece-Ø:	Workpiece width:
A	14–50 mm	12–60 mm
B	50–120 mm	50–200 mm



Operation of asymmetrical spherical rollers



Our system features

⇒ your benefit

NC-controlled Superfinishing units

- Fast setting through automatic adjustment of the oscillator
- Optimum quality due to automatic adjustment of the oscillation frequency, optimized for the respective cycle
- Superimposed stroke for Superfinishing of any given profile on parts > Ø 50 mm

Flexible, infinitely adjustable support rollers

- Fast setting process
- Range tooling with only few exchange parts

Two-step Superfinishing process

- Generation of optimized bearing surface quality
- Extended tool life

Two or optionally four operating stations with digital drives

- Improved torque and speed characteristics
- Reduced cycle time
- Additional productivity

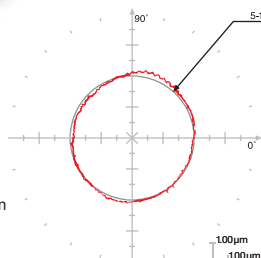
Large working range and versatility for different workpiece types

- Suitability for small, medium and large size batches
- Optimized for spherical, cylindrical and tapered rollers

Spherical rollers



Measuring range: 1.000mm
Measuring interval: 0.10°
□15-500



Spherical rollers-Ø approx.: 20mm

Roundness: 0.41 µm

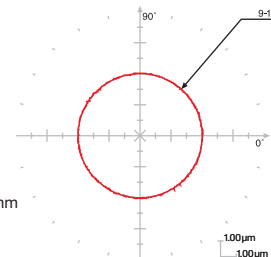
Roughness Ra: 0.038 µm

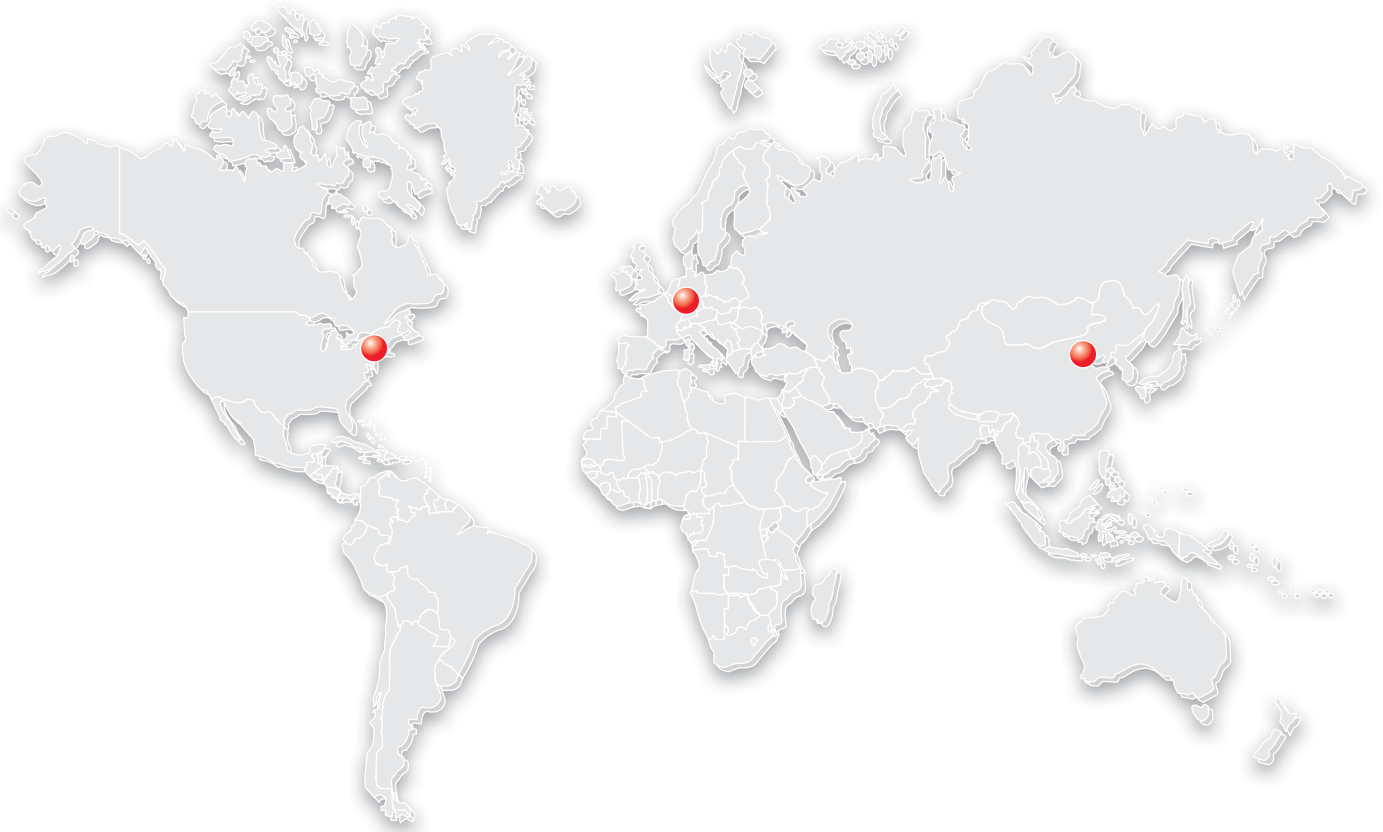
Rpk: 0.049 µm

Stock removal: 6 µm

Cycle time: 3.5 s

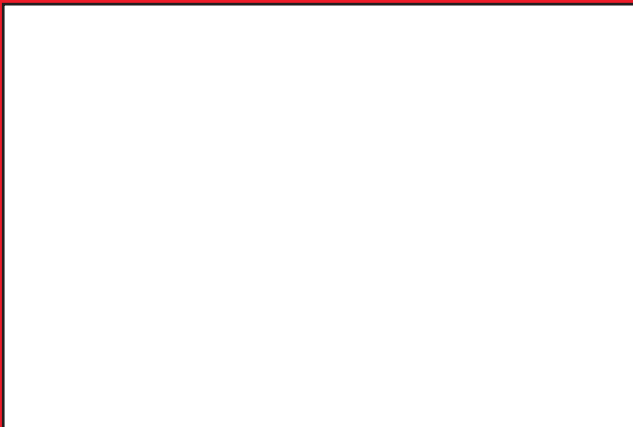
Measuring range: 1.000mm
Measuring interval: 0.10°
□15-500





With locations in America and Asia and over 50 distributors worldwide we can offer customers comprehensive global service.

Surface Finishing Systems
www.supfina.com



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