

Advantages of Supfina SpeedFinish®

Process

- Compared to superfinishing, a larger amount of material is removed
- Dry machining possible due to low heat generation

Easy handling and high process reliability

Surface appearance

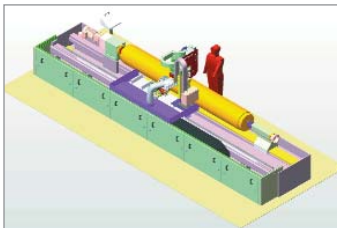
- No typical superfinishing surface appearance
- Creation of a fine surface grinding pattern
- Homogeneous peak-to-valley height without grinding marks

Cost-effectiveness

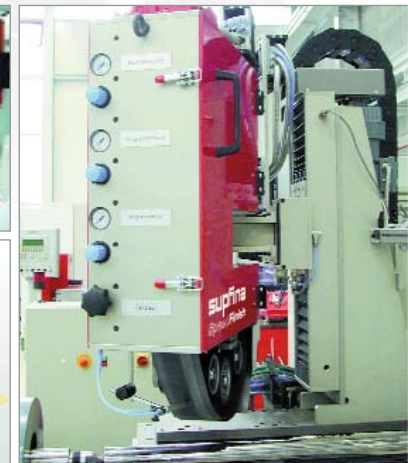
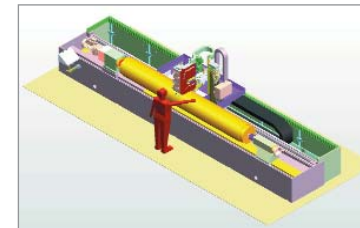
- Increased tool lifetimes
- Shorter machining times compared to grinding
- Lower investment costs compared to a grinding machine



supfina



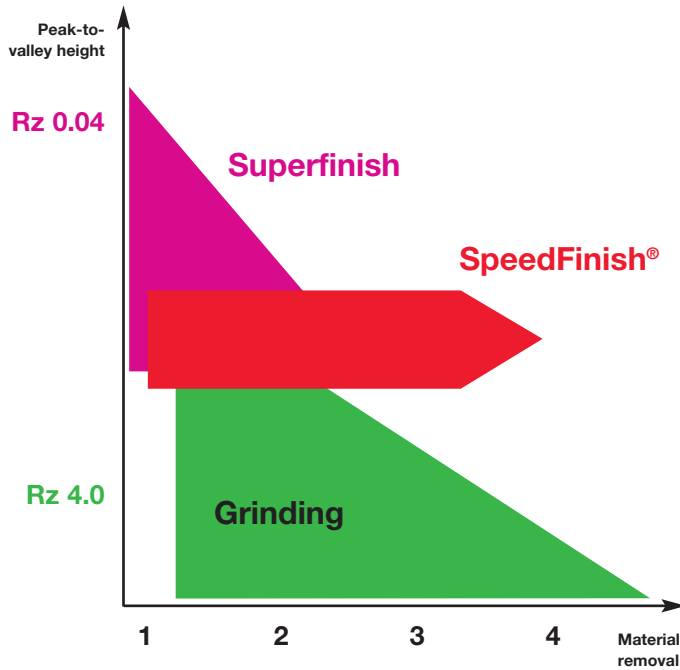
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**Supfina SpeedFinish®
Attachment**

Supfina SpeedFinish® – the fast finishing process



Typical parts:

- Work rolls
- Calender rolls
- Piston rods
- Guideways
- Ink ductor rollers
- Rubber rollers

Comparison SpeedFinish® / conventional tape grinding

The circular diagram shows a circle divided into four quadrants labeled 0, 1, 2, and 3. The top quadrant (0) is red and labeled 'Supfina SpeedFinish®'. The right quadrant (1) is grey and labeled 'Tape grinding'. The bottom quadrant (2) is white. The left quadrant (3) is white.

Reference application:

Hard-chrome plated aluminum roller
 Not rough ground
 Final peak-to-valley height Rz 2 – 3 µm
 Homogeneous grinding pattern
 No feed spirals

Machining time:
Tape grinding = 2.0 hours
SpeedFinish® = 0.5 hours

Comparison SpeedFinish® / conventional OD cylindrical grinding

The circular diagram shows a circle divided into four quadrants labeled 0, 1, 2, and 3. The top quadrant (0) is red and labeled 'Supfina SpeedFinish®'. The right quadrant (1) is grey and labeled 'OD cylindrical grinding'. The bottom quadrant (2) is white. The left quadrant (3) is white.

Reference application:

Work roll (Sendzimir) from the mill stand
 Required peak-to-valley height Ra 0.15 µm without grinding marks
 Stone finishing peak-to-valley height Rz 0.2 µm without geometrical deviations
 Polish, high-gloss < Rz 0.08 µm without optical irritations

Machining time:
OD cylindrical grinding = 0.75 hours
Supfina SpeedFinish® = 0.5 hours