

# Superfinishing-Machine

Supfina RollerPro 470 • 478 • 480 • 488



**Machining of cylindrical  
and tapered rollers**



# Superfinish

## Machining of cylindrical rollers and tapered rollers

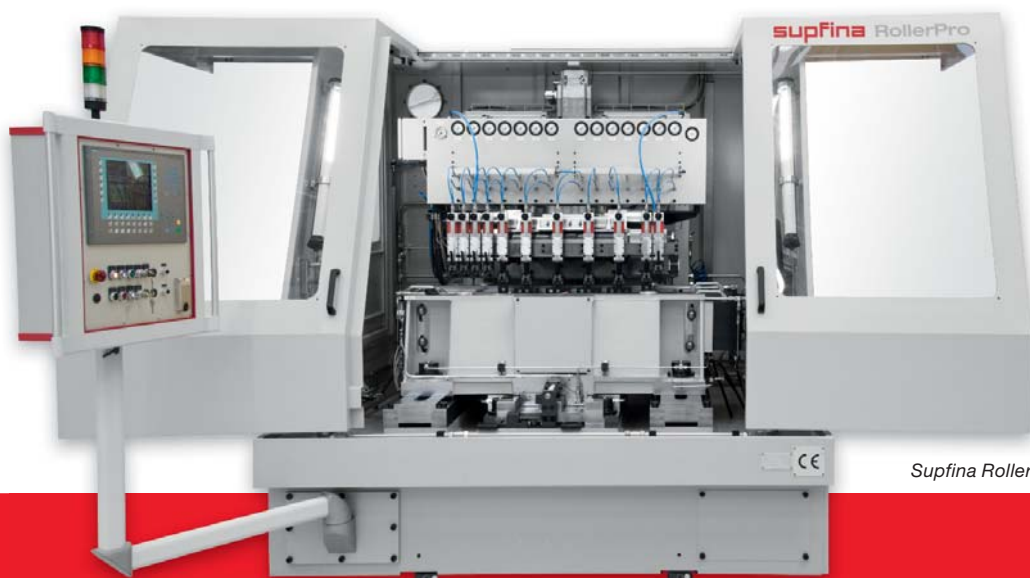
- Continuous Superfinishing process for high volume production of rollers
- Dynamically balanced pneumatic oscillator
- Vertical Superfinishing unit adjustment for stone and roller change
- Optional superimposed stroke
- Connection of up to 14 stone guides with fast change system
- Infinitely adjustable and individually controllable stone pressure
- Stone wear indication supporting fully automatic operation
- Infinitely adjustable transport roller gap, optionally automatic
- Transport rollers with an effective length of 900 and 1100 mm
- Profiled transport rollers available to generate specific workpiece geometries
- Automatic workpiece feed

### **supfina** RollerPro 470 • 480

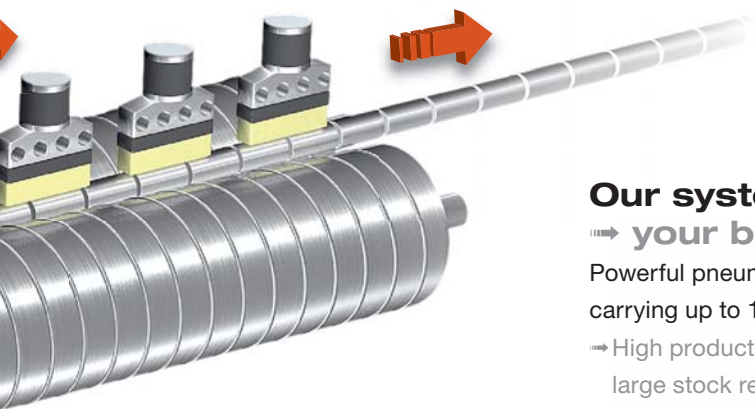
Workpiece diameter: 6–100 mm  
Workpiece length: up to 250 mm

### **supfina** RollerPro 478 • 488

Workpiece diameter: 5–24 mm  
Workpiece length: up to 65 mm



Supfina RollerPro 480



## Our system features ⇒ your benefit

Powerful pneumatic oscillator  
carrying up to 14 stone guides

- ⇒ High production output through large stock removal
- ⇒ Long service life and low wear
- ⇒ No undesired vibrations
- ⇒ Short set-up time due to quick change systems and automatic vertical adjustment

Flexible transport roller adjustment

- ⇒ Large working area
- ⇒ The setting time can be further reduced by utilizing the optional NC adjustment

Transport rollers with an effective length of up to 1100 mm with optimized profiles

- ⇒ Increased productivity with production speeds to 9 m/min and beyond
- ⇒ Generation of fully crowned, cylindrical / convex and logarithmic workpieces

Safety and monitoring devices

- ⇒ In case of stone wear, the machine stops automatically to avoid damage
- ⇒ Parts with incorrect orientation or dimension can not enter the machine
- ⇒ Operator supervision is reduced to a minimum

The Supfina RollerPro 470 and 478 are the sprinters among the Superfinishing machines. Depending on the workpiece dimensions, hundreds of rollers per minute can be machined in the center-less through-feed process. At the same time, the highest demands regarding geometrical and surface quality are met.

Modular options available are designed for different levels of automation.

Through the intelligent use of NC-controlled adjusting axes, very short set-up times are achievable. Transport rollers with an effective length of up to 1100 mm and specific profile designs open up new potentials.

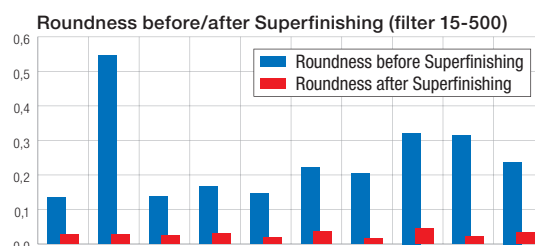
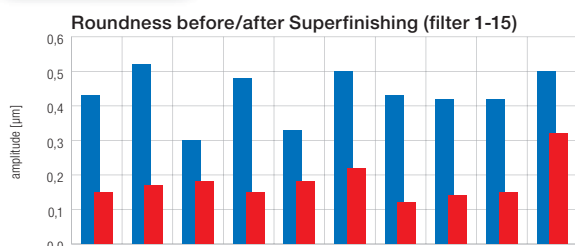
On the raceway of antifriction bearing rollers, the centerless through-feed Superfinishing process generates defined crowned or logarithmic profiles.

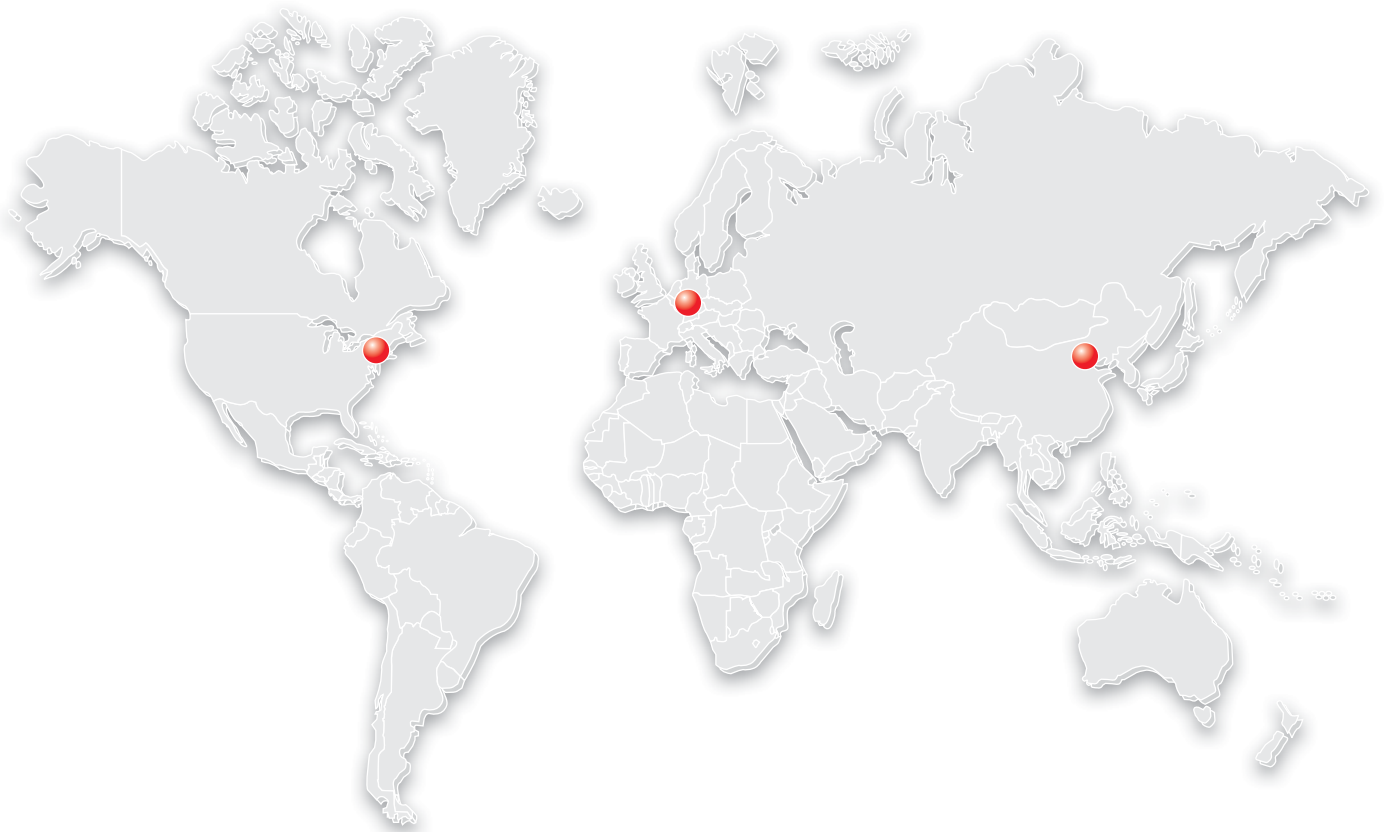


### Cylinder rollers



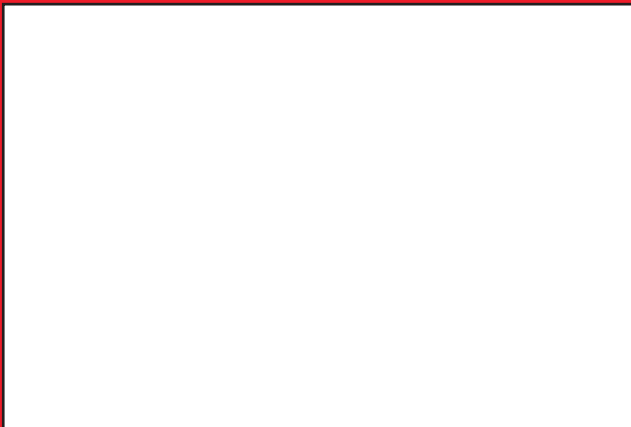
Roller Ø approx.: 13 mm  
Length approx.: 18 m  
Roughness Ra: 0.04 µm  
Production rate: 400 parts per min.





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

Surface Finishing Systems  
**www.supfina.com**



Supfina Grieshaber GmbH & Co. KG  
Schmelzegrün 7 · 77709 Wolfach / Germany  
Phone +49 7834 866-0 · Fax +49 7834 866-200  
info@supfina.com · www.supfina.com



Supfina Machine Company, Inc.  
181 Circuit Drive · N. Kingstown, RI 02852 / USA  
Phone +1 401 294-6600 · Fax +1 401 294-6262  
info@supfina.com · www.supfina.com



Supfina Grieshaber GmbH & Co. KG  
Beijing representative Office  
DiYang Tower 1202B  
Chaoyang District Beijing 100027 / P.R. China  
Phone +86 84536-669 · Fax +86 84536-670  
supfina@126.com · www.supfina.com