



An ISO 9001:2015 Certified

# THROUGH FEED SUPERFINISHING MACHINE ARI-SUP 1000 TF NC



Shock absorber rods & rocker rod

Gala No. 1, Sanskruti,  
Sagar Signature Complex,  
Waliv Phata, Vasai (East),  
Palghar Dist. - 401208,  
Maharashtra, India.

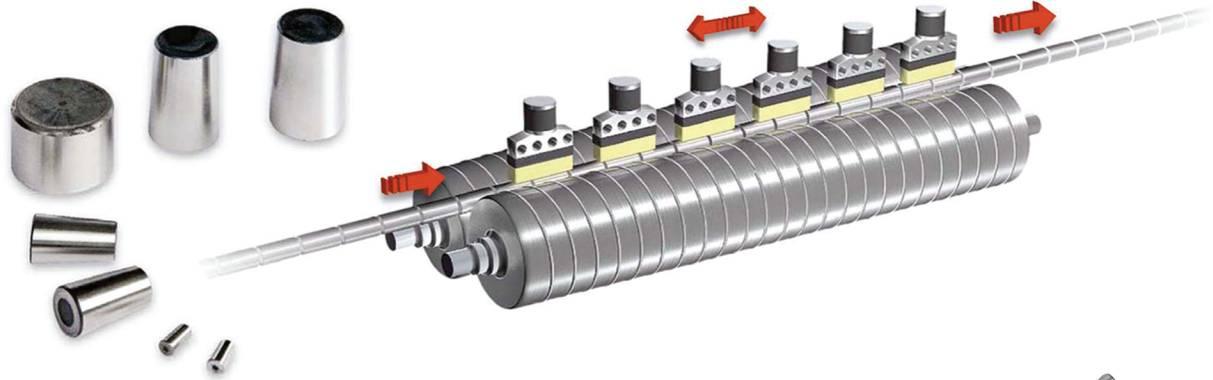
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CIN No: U74120MH2014PTC255058



## ARIHANT HONING INDIA PVT LTD

AN ISO 9000 -2015 COMPANY



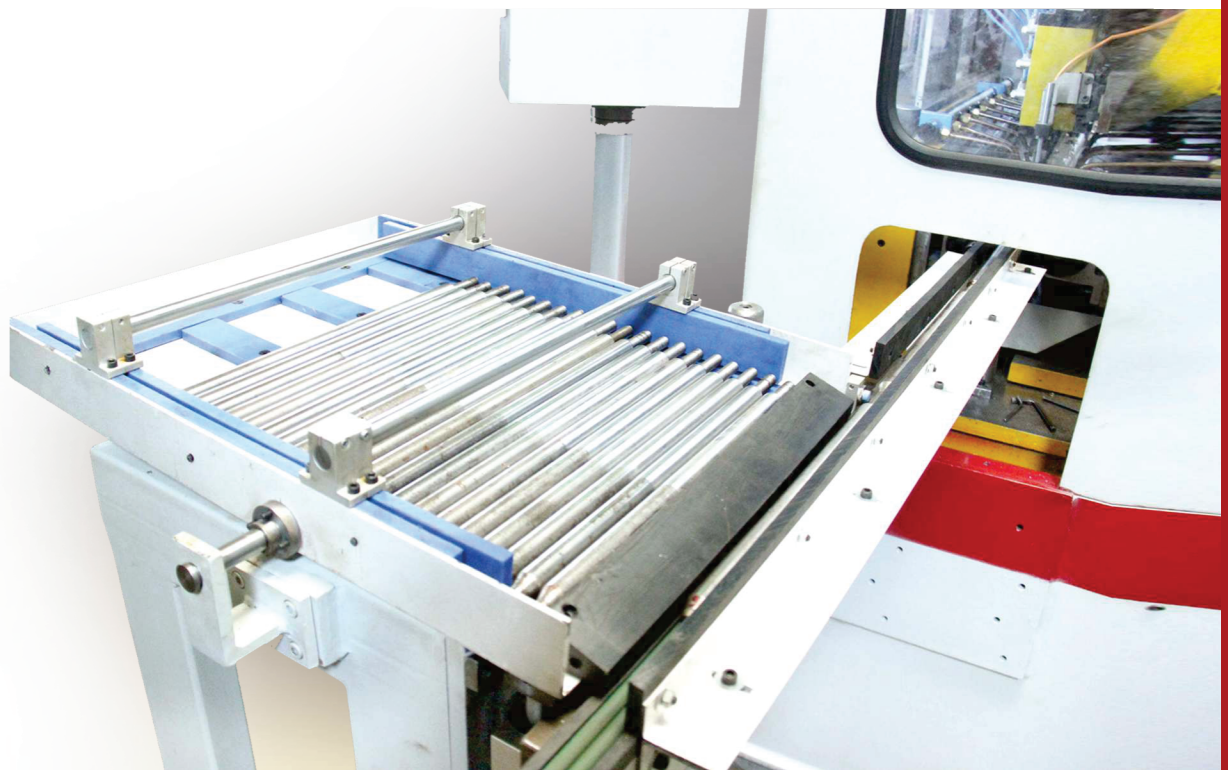
# Superfinish

## Machining of cylindrical rollers and tapered rollers

- Continuous Superfinishing process for high volume production of rollers
- Dynamically balanced mechanical oscillator
- Vertical Superfinishing unit adjustment for stone and roller change
- Optional superimposed stroke
- Connection of up to 12 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 500, 800 and 1000mm
- Profiled transport rollers available to generate specific workpiece geometries
- Automatic workpiece feed



	ARI-SUP 500TF	ARI-SUP 1000TF
Workpiece diameter	6mm to 20mm	15mm to 50mm
Workpiece length	Lenght 400mm	Lenght 600mm





## Our system features - your benefit

### Powerful mechanical oscillator carrying up to 12 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 1000 mm with optimized profiles

- Increased productivity with production speeds to 3 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 ARI-SUP 500TF, 800TF and 1000TF are the sprinters among the Super-finishing machines. Depending on the workpiece dimensions, multiple components 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 1000 mm and specific profile designs open up new potentials.

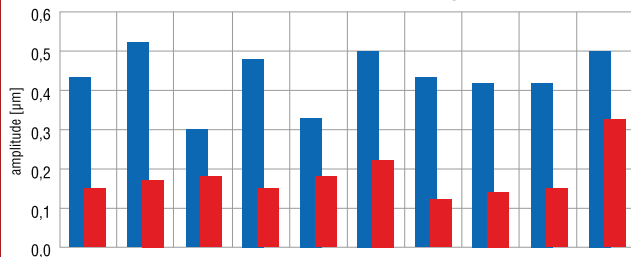


### Cylinder rolls

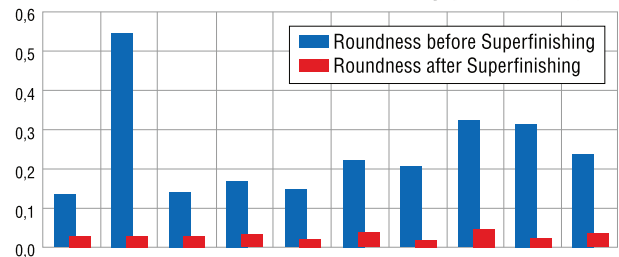


Roller  $\phi$  approx : 13 mm    Roughness Ra : 0.04 $\mu$ m  
 Length approx : 18m    Production rate : 400 parts per min.

#### Roundness before/after Superfinishing (filter 1-15)



#### Roundness before/after Superfinishing (filter 15-500)



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