

# Centerless Grinding, Polishing Deburring



## Materials

of stainless or carbon steel, special alloys, copper, brass, aluminium, chrome- or nickel plated, carbon fiber tubes, plasma nitrated or ceramic spray coated, paper or plastic tubes, bars out of glass and sintered materials as well as many other materials and coatings are finished.

## Applications

Grinding and finishing of stainless tubes for surface improvements required to meet the stringent hygienic specifications of the food industry. Special optical appearance of the surface for the ornamental tubing used in the architecture and for household applications. Improved surface characteristics on bar stock. Removing of scale on boiler tubes for ultrasonic testing purpose. Tolerance improvements on peeled bars. Pregrinding for plating purpose. Enhanced surface characteristics for hydraulic components which improve life time of seals, reduce friction and enhance corrosion resistance. Removing of surface defects and to clean surfaces after heat treatment. Deburring of automotive components.

## Special Features and Benefits

- Pressure controlled finishing
- Easy operation with computer controlled features
- High surface qualities can be easily achieved
- Fast finishing with multi head grinding sequence
- Constant finishing results for quality and consistency
- Grinding w/o chatter marks and tearing from bonded wheel
- Low maintenance with high productivity
- Quick belt change feature for reduced down time
- No dust emission with wet grinding
- Covered stations for low noise emission
- Boost productivity and profit



Centerless system KS100

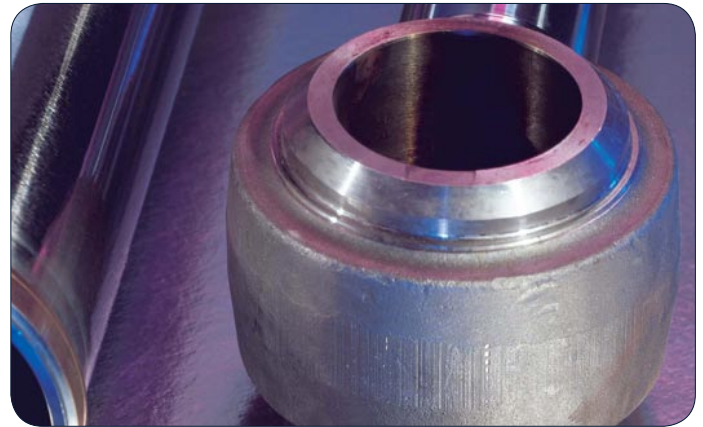


Flat grinding system FS384

## Models

Machine versions specified for different diameters:

- RPS 374 von 3 - 80 (150) mm
- PRS 376 von 12 - 150 (250) mm
- RPS 377 von 50 - 350 (500) mm



## Configuration and Options

- Stonegrinding heads
- Beltgrinding heads
- Deburring stations
- Buffing heads with angle adjustment
- Superfinishing heads
- Microfinishing heads
- Induction heating systems
- Induction hardening systems



## Automation

- for material handling:
  - Vibratory conveyor
  - Roller conveyor
  - Belt transport systems
  - Transfer tables
- packaging systems in plastic
- for loading and storage:
  - Automatic magazines
  - Bunker magazines
  - Bundle loader



## Service & Support

- Research and development
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## Grinding and Polishing Systems

### 12 Station Grinding and Polishing Model RPS 374



Stainless steel tube finishing line with 8 pressure controlled beltgrinding stations and 4 adjustable angle buffing stations. Wet belt grinding and mirror finish buffing with automatic compound system in one pass.

Diameter 10 to 150 mm are automatically loaded from a bundle loader. After finishing operation tubes are automatically wrapped in plastic bags for protection. Diameter adjustment for different tubes servo controlled operator selected user programs.

### 2 Station Grinding- and Polishing Model RPS 374



Various parts from 2 mm up to 80 mm and short length 10mm up to 6 meter. Precision components, linear motion rails, steering racks, valve components.

### 2 Station Polishing Model PB 377



Polishing of ball bearing spindles from 20 - 150 mm diameter.

### 8 Station Beltgrinding and Buffing Model RPS 377



Hydraulic cylinders, stainless steel tubes, bar stock, carbon tubes, aluminium tubes / bars, paper tubes, peeled bars and other cylindrical products up to 500 mm dia can be finished. Pressure controlled grinding heads can be set for cylindricity improvements or constant stock removal.

### 6 Station Bar Grinding and Finishing Model RPS 376



Bar finishing prior- and after chrome plating. Solid bar diameters up to 150 mm and tubes up to 250 mm. Part weights up to 1000kg. Finishing to  $Ra=0.04 \mu\text{m}$  /  $Rz = 0.6 \mu\text{m}$  with multi belt sequence. Enhanced corrosion resistance of the polished bars due to pressure controlled grinding which enhances the micro crack density of the chrome layer. Temperature treatments of the chrome layers by induction and teflon coating systems for improved longevity of the finished bar.

## Europe / Asia / Middle East

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