



# Conventional Surface Grinders FSM 480



## SKU : 122802

This series of manual surface grinding machines is aimed at users who have to carry out short and simple grinding work with high precision but at low cost. They are a perfect solution for repair and training workshops. The machine frame in cross table construction offers high quality. The table is guided easily and a magnetic clamping plate is also part of the standard accessories, as is the dust suction device.

- Cast-iron machine base absorbs vibrations
- Magnetic clamping plate 125 x 300 mm
- Extensive standard equipment included
- Angle-adjustable grinding vise

## TECHNICAL SPECS

### WORKING AREA

Table dimensions	210 mm x 450 mm
Spindle axis-to-table surface distance	450 mm

### MEASURES AND WEIGHTS

Grinding wheel dimensions	200 mm x 13 mm x 32 mm
Weight	730 kg

### TRAVELS

Travel X-axis	480 mm
Travel Y-axis	230 mm
Travel distance per hand-wheel rotation, X-axis	5 mm
Travel distance per hand-wheel rotation, Y-axis	5 mm
Travel distance per hand-wheel rotation, Z-axis	1 mm

### FEED

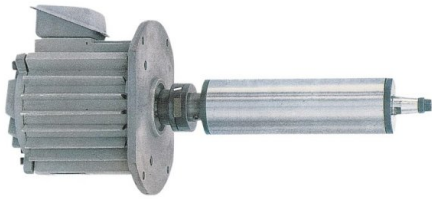
Scale ring division X-axis	0.02 mm
Scale ring division Y-axis	0.02 mm
Scale ring division Z-axis	0.005 mm

### ACCURACIES

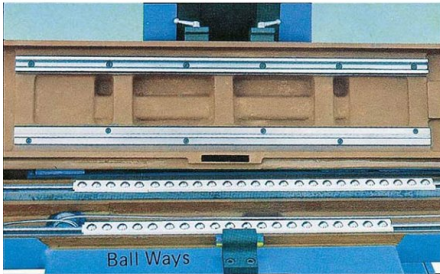
Roughness	$\geq 0,63 \mu\text{m Ra}$
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### DRIVE CAPACITY

Motor rating main drive	1.5 kW
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Main spindle drive with advanced precision bearing



Linear ball guide for guide for smooth table travel



Permanent magnetic clamping plates with micro pole pitch - ideal for high-precision grinding work



Angle-adjustable grinding vise (standard equipment)

## PRODUCT DETAILS

- Spindle resists high loads; mounted in pre-loaded angular deep-groove ball bearings ensures low-vibration operation, high accuracy, increased lifetime and low maintenance
- Completely leak-proof and balanced spindle motor with high load capacity
- Solid, vibration-absorbing construction
- V- and flat guides in X and Y directions for consistently high accuracy
- Longitudinal table movement over linear ball guide; linear roller guideway
- Adjustable hand wheel scales for vertical and transverse adjustments allows zeroing at any position
- Central lubrication
- Grinding parallelism 0,005 mm / 300 mm

## STANDARD EQUIPMENT

Exhaust vacuum  
 Work lamp  
 Magnetic clamping plate 125 x 300 mm  
 Balancing shaft  
 Balancing station  
 Angle - adjustable grinding vise  
 Grinding wheel flange  
 Grinding wheel dresser  
 Grinding wheel  
 Operating tools  
 Operator manual

## OPTIONAL EQUIPMENT

- Coolant device FSM 480 - 122802, SKU : 253338



## KNUTH on YouTube Information to the point

On our YouTube channel you can find videos for nearly all machines from our program. We show the machines from current deliveries and you get an impression of the handling, the processing quality and the machining performance.

**Are you interested in a machine for which you cannot find a current video?  
Please feel free to contact us!**