

# 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 4.9 x 11.8 in.
- Extensive standard equipment included
- Angle-adjustable grinding vise



## TECHNICAL SPECS

### WORKING AREA

Table dimensions	8 in x 18 in
Spindle axis-to-table surface distance	17.72 in

### MEASURES AND WEIGHTS

Grinding wheel dimensions	7.87 in x 0.51 in x 1.26 in
Weight	1606 lbs

### TRAVELS

Travel X-axis	18.9 in
Travel Y-axis	9 in
Travel distance per hand-wheel rotation, X-axis	0.2 in
Travel distance per hand-wheel rotation, Y-axis	0.2 in
Travel distance per hand-wheel rotation, Z-axis	0.04 in

### FEED

Scale ring division X-axis	0.00079 in
Scale ring division Y-axis	0.00079 in
Scale ring division Z-axis	0.0002 in

### ACCURACIES

Roughness	>= 063 µm Ra
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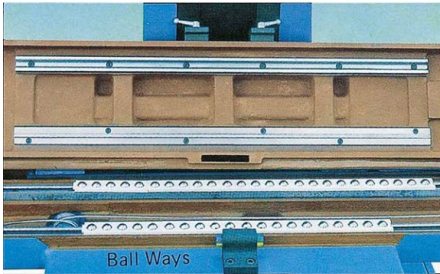
### DRIVE CAPACITY

Motor rating main drive	2 Hp
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## PRODUCT DETAILS



*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)*

- 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 0.0002" / 12"

## STANDARD EQUIPMENT

Exhaust vacuum  
Work lamp  
Magnetic clamping plate 5"x11.75"  
Balancing shaft  
Balancing station  
Angle - adjustable grinding vise  
Grinding wheel flange  
Grinding wheel dresser  
Grinding wheel  
Operating tools  
Operator manual