

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

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

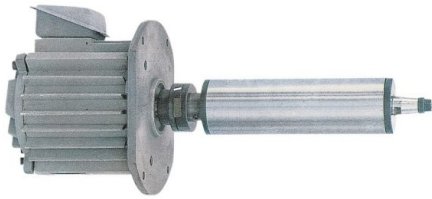
Roughness	$\geq 0.63 \mu\text{m Ra}$
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DRIVE CAPACITY

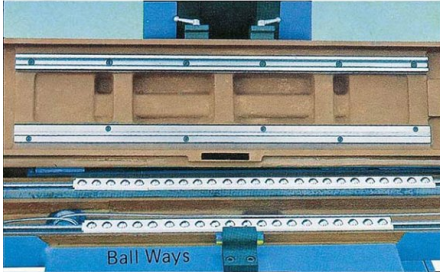
Motor rating main drive	2 Hp
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MEASURES AND WEIGHTS

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



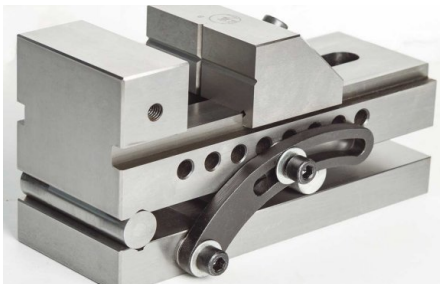
Main spindle drive with advanced precision bearing



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 0.0002" / 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

OPTIONAL EQUIPMENT

- Coolant device FSM 480 - 122802, SKU : 253338