

# CNC FLAT GRINDING MACHINES

## Series FSG AF



### HIGHLIGHTS

- Full enclosure
- Controlled vertical and transverse axis
- Spindle motor AC-Servo
- Infinitely spindle speed
- Autom. balancing of the grinding disk
- Automatic cycles
- Dressing with compensation
- Also with semiautomatic operation
- Touch panel
- Highest precision

### TECHNICAL DATA AT A GLANCE

| Maschine typ       | ←→ mm | ↑↓ mm |  mm |  min <sup>-1</sup> |  kg |
|--------------------|-------|-------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| <b>FSG 1224 AF</b> | 305   | 610   | 300 x 600                                                                              | 500-2.200                                                                                               | 3.700                                                                                    |
| <b>FSG 1640 AF</b> | 405   | 1.015 | 400 x 1.000                                                                            | 500-2.200                                                                                               | 5.500                                                                                    |

Further information on the machine series and numerous accessories can be found on our website:  
<https://www.wagner-maschinen.de/en/grinding>

# HIGH-PERFORMANCE FLAT GRINDING MACHINE FSG AF 1224/1640

FSG AF 1224/1640 Order no.: 630760/630761



## ALL HIGHLIGHTS AT A GLANCE

- Longitudinal and transverse axis: needle bearing
- Vertical axis: used steel bars with roller bearing
- Precision spindle with 4 angular ball bearing
- Complete electrical equipment 400 V./50 Hz.
- AC servo motor in the Y-axis with encoder
- AC motor in the Z-axis with encoder
- Indirect measuring system in the Y- and Z-axis
- Flange with grinding disk
- Levelling screws
- Heat exchanger electrical cabinet

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## TECHNICAL DATA

- Max. grinding length e 610/1.015 mm
- Max. grinding width 305/405 mm
- Max. distance spindle centre – table surface 600 mm
- Distance table – floor 975 mm
- Workpiece weight without magnetic plate 420/670 kg
- Workpiece weight with magnetic plate 314/423 kg

### Table

- Table size 300 x 600/400 x 1.000 mm
- T-slots  
14 x 150 x 1 / 14 x 100 x 3 mm
- Adjustable table speed 5-25 m/min.
- Table traverse path 700/1.100 mm
- Maximum transverse travel 350/450 mm

- Feed 0-2,250 mm/min.
- Smallest increment 0,001 mm
- Maximum vertical path 440 mm
- Feed 0-675 mm/min.
- Automatic delivery 0,001-0,04 mm
- Smallest increment 0,001 mm
- Speed range 500-2.200 U/min.
- Spindle motor 5,5 kW
- Y-/Z-axis, AC servo motors 1,1 kW
- Hydraulic motor 1 HP/6 P / 2 HP/6 P
- Dimensions of the grinding disk 355 x 50 x 127 mm
- Connected load 12/13 kVA
- Installation surface 3.230 x 2.428 x 2.091 / 4.130 x 2.680 x 2.091 mm
- Net weight o 3.700/5.500 kg

## STANDARD EQUIPMENT

- Full enclosure
- Longitudinal and transverse axis: needle bearing
- Vertical axis: used steel bars with roller bearing
- Precision spindle with 4 angular contact mated bearing
- Complete electrical equipment 400 V./50 Hz.
- AC-Servo-Motor in the Y-axis with encoder
- AC-Motor in the Z-axis with encoder
- Indirect measuring system in the Y- and Z-axis
- Flange with grinding disk
- Levelling screws
- Heat exchanger electrical cabinet

## SPECIAL EQUIPMENT

- Electromagnetic plate
- Adjustable adhesive force and automatic demagnetisation (chuck control)
- Temperature controller for hydraulic unit
- Wet grinding unit with automatic fleece roller filter system 120L
- Dressing of the grinding disk on the table, with compensation
- Software adjustment for offset plunge grinding
- Oil mist extraction power 4 m3
- Grinding disk flange with balancing weights

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We reserve the right to make design changes in the course of technical improvements. Illustrations, dimensions and weights are not binding.