

Conventional Surface Grinders **HFS 104 NC**



TECHNICAL SPECS

WORKING AREA

1020 mm x 400 mm
680 kg
640 mm
1000 mm x 400 mm
14 mm
3 positions
0,001 / 0,005 / 0,01 mm

Travel Z-axis HEADSTOCK

Travel X-axis

Spindle speed 500 1/min - 2300 1/min

1120 mm

430 mm

RAPID FEED

Rapid feed Y-/Z-axis 0 mm/min - 1200 mm/min

FEED

Feed per rotation (electronic hand-wheel) - Y-axis	0,1 / 0,5 / 1,0 mm
Feed per rotation (electronic hand-wheel) - Z-axis	mm
Feed speed - X axis (hydraulic)	min. 3 / max. 25 m/min
Feed speed Z-axis	0 mm/min - 1200 mm/min
Autom. feed - Micro-feed Y-axis	0.001 mm - 0.01 mm
Autom. feed - Coarse feed Y-axis	0.005 mm - 0.04 mm
Automatic Z-axis feed	0.1 mm - 25 mm

DRIVE CAPACITY

Motor rating main drive	5.5 kW
Motor rating hydraulic pump	2.2 kW
Motor rating coolant pump	0.18 kW
Z and y axis servo motor	0,55 / 0,55 kW
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SKU: 122425

The HFS NC series is a solution for automatic and semi-automatic surface and flute grinding. This machine offers advantages in terms of precision and efficiency thanks to grinding cycles that can be easily programmed via the touchscreen and the automatic grinding wheel dressing mode. This can be inserted into the machining cycles and compensates dimensions and speed fully automatically. The option of switching between semi-automatic and automatic operation also extends the range of applications from repair workshops and training to series production.

- Automatic grinding wheel dressing cycle
- Magnetic table and built-in demagnetization feature
- Vertical axis with ball screw and servo motor for high precision
- Easy auto-mode programming
- Extensive standard equipment package

MEASURES AND WEIGHTS

Grinding wheel dimensions	400 mm x 127 mm x 40 mm
Overall dimensions (length x width x height)	3.8 m x 2 m x 2.5 m
Weight	3050 kg



External hydraulic unit and oil cooler ensure thermal stability during continuous operation



Touchscreen display for easy programming of grinding cycles





Dressing mode for grinding wheels with automatic dimension and speed (rpm) compensation ensures constant grinding rate and can be entered while in

PRODUCT DETAILS

- Designed for continuous operation at maximum speed, very quiet operation, maximum accuracy and minimal heat accumulation ensure optimum machining results
- Dual guides for linear table motion
- Spindle head and Z-axis move on precision linear guides with preloaded ball screws
- Servo drives on Y- and Z-axis and hydraulic linear table movement can be adjusted via an infinitely variable electronic proportional valve for precise and consistent feed
- 3-step electronic hand-wheel allows for precise positioning of the Y- and Z-axis
- The heavy-duty, rigid grinding spindle head features maintenance-free preloaded highprecision angular ball bearings
- External hydraulic unit and large oil cooler ensures thermal stability
- Automatic central lubrication system

STANDARD EQUIPMENT

Magnetic clamping plate
Coolant system with magnetic separator
Central lubrication
Hydraulic oil cooler
Grinding wheel flange
Diamond dresser with holder
Balancing station
Setup feet
Tool box
Operator manual

OPTIONAL EQUIPMENT

• cooling water with magnetic and tape filtration for HFS NC, SKU: 251573