

THE NEW LOOK OF PERFORMANCE





PRODUCT RANGE MILLING







Highlights

- / Torque drives in the B- and C-axis
- / 5-axis simultaneous machining
- Modern travelling column machine concept
- Machine bed: welded steel construction
- / X- / Y- / Z-slide made of cast iron
- All guides, ball screws and axle motors behind protective claddings

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Highlights

- Sturdy machine table incl.
- Counter bearing
- 40-fold tool magazine
- / Motor spindle 15.000 rpm
- / Glass scales X / Y / Z
- Large machining area, loading opening & large window
- / Optimum chip removal

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Highlights

- Extensive options list for more flexibility
- State-of-the-art controls
 SIEMENS 840D sl
 HEIDENHAIN TNC640
- ✓ Digital Process Assistant **EMCONNECT**YOUR GUIDE IN TECHNOLOGY



Travel area

/ Travel X-axis
/ Travel Y-axis
/ Travel Z-axis
/ Swivel range B-axis
/ Rotation range C-axis
/ Distance spinIde nose – table
/ Machine weight

750 mm 610 mm 500 mm ± 100° n x 360° 150 - 650 mm 8.900 kg



Feed

/ Rapid traverse speed X / Y / Z
/ Work feed rate
/ Feed force X / Y / Z
/ Acceleration
/ Reference variables X / Y / Z
/ Diameter ball screw X / Y / Z
/ Central lubrication system Guides, ball screw and motor spindle

50 m/min 15 m/min 5.000 N 6 m/s² 45 / 45 / 35 40 mm Grease

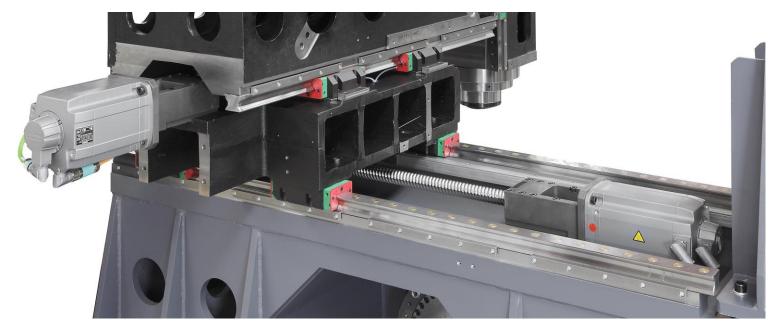


Feed

✓ Drive motors directly connected to the mounted ball screw

/ Higher dynamics

 Higher (continuous) precision compared to the belt drive





Rotary table

Table top dimensions Distance floor - table top **/**T-slot size (center H7, remainder H12) Number of slots Groove distance Max. speed B-axis Max. speed C-axis Max. workpiece weight (evenly distributed)

750 x 600 mm 805 mm 14 mm 5 100 mm 50 rpm 100 rpm 400 kg





Rotary table



- / B- and C-axis are driven by torque motors
- / Highest dynamics and precision
- / Long-term accuracy due to backlash and wear-free movement



a company of the Kuhn Group





Spindle

/ Speed range
/ Torque (S6)
/ Spindle power (S6)
/ Tool holder
/ Drive
/ Manufacturer

50 – 15.000 rpm 100 Nm 15 kW HSK-63A Motorspindle Weiss





Tool magazine

Number of tool positions	40 (60/90)
Alternating principle	S-Arm
Tool management	Random
Chip-to-chip time	4.9 s
Max. tool diameter	80 mm
Max. tool diameter (empty space)	125 mm
Max. tool length	250 mm
Max. tool weight	8 kg
Max. load weight drum	130 kg



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Control

/ SIEMENS 840D sl / OPERATE / HEIDENHAIN TNC 640

TFT Monitor 22"



TFT Monitor 19"





EMCONNECT

- ✓ Direct interaction of the EMCO apps with the controller
- Intuitive user interface optimized for touch operation
- Ongoing expansion of the available apps
- Customer-specific applications
 Optimized for EMCO machine portfolio
- Simple update and upgrade option

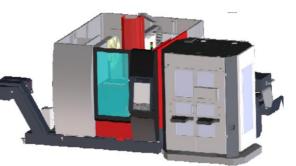
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Machine options

- / Air/coolant through the spindle with/ without belt filter system
- / Tool and workpiece measurement
- 60- and 90-fold tool changer (other sizes on request)
- Automation options e.g. rotary union table, automatic machine doors, interfaces for robots and pallet systems, etc.



Highlights

/ Torque drives in B- and C-axis

- Counter bearing in the table
- / Glass scales X / Y / Z as standard
- / Performance spindle 15.000 rpm, 100 Nm, 15 kW
- / B-axis ± 100°
- Fast tool change and high acceleration
- / EMCONNECT
- Very good price-performance ratio
- / Modern design



In favor of EMCO ...

Solution Provider: complete processes and solutions, not only machines

/ Turning and milling machines with customizable automation concepts

Customer proximity: flexible, regional service and spare parts supply

European technology and production

beyond standard