G500, G520



Turn-mill centers for high-performance machining of large workpieces



New dimensions in turning and milling

The INDEX G500/G520 is an innovative turn-mill center in a class of its own – especially when it comes to efficient production of large workpieces with high complexity and

Based on a rigid and vibration-damping machine bed in mineral cast block design and generously dimensioned linear guides in X and Z axes, this series incorporates modern mechanical engineering to achieve excellent machining results with high productivity.

Three tool carriers with a tool pool of up to 151 tools provide maximum flexibility for complete machining of complex workpieces.

A total of up to 14 productive axes ensure impressive machining results without exception.

The large work area, is unique in this class and impresses with its sophisticated features that allow simultaneous machining using all three tool carriers with no collision risk.

The vertically sloping interior paneling ensures optimum chip flow. The chip conveyor can be mounted on the right or left side, depending on customer requirements.

The INDEX G500/G520 is relied on for the manufacture of a wide range of products in many industries, such as machinery construction, automotive and aerospace.

The machine concept

- Identical main and counter spindles with spindle clearance dia. of 120 mm
- Chuck up to 500 mm in dia.
- 3 tool carriers for up to 151 tools
- Powerful motorized milling spindle with proven Y/B quill kinematics for complex 5-axis milling operations (G520)
- Sophisticated work area concept for turning lengths up to 1,600 / 2,300 mm and variable machining options
- High thermal and mechanical stability
- High dynamic response (rapid traverse rate up to 50 m/min)



Best performance for applications in the automotive, medical, aerospace, and machinery industries

INDEX offers customers optimal solutions for flexible and efficient production. INDEX engineers have leveraged years of experience from many industries in their product development. Products and processes are made ready for commercial production through feasibility studies, efficiency analyses

and, above all, close collaboration with customers. Due to the carefully planned design and great flexibility of INDEX products, customers can also utilize an extensive modular

The INDEX G500 and INDEX G520 turn-mill centers offer the best performance for customers from the machinery, automotive, and aerospace industries, with high availability and process reliability - the most comprehensive solution when it comes to high-performance machining of large workpieces.













Steel

1 60 mm x 510 mm



Aluminum

110 mm x 120 mm



Steel

Shaft

1 60 mm x 320 mm



Centrifuge

Aluminum

200 mm x 60 mm







Steel

140 mm x 285 mm



Flange

Steel

178 mm x 120 mm



Bearing flange

Steel

129 mm x 136 mm



Turret head

Steel

273 mm x 76 mm

Complete machining based on a modular system

The modular system in this series offers a wide range of options. Up to 3 tool carriers can be integrated into the work area.

The work area offers ample space to machine any kind of workpiece. The working range allows for parts up to 1,600/2,300 mm in length.

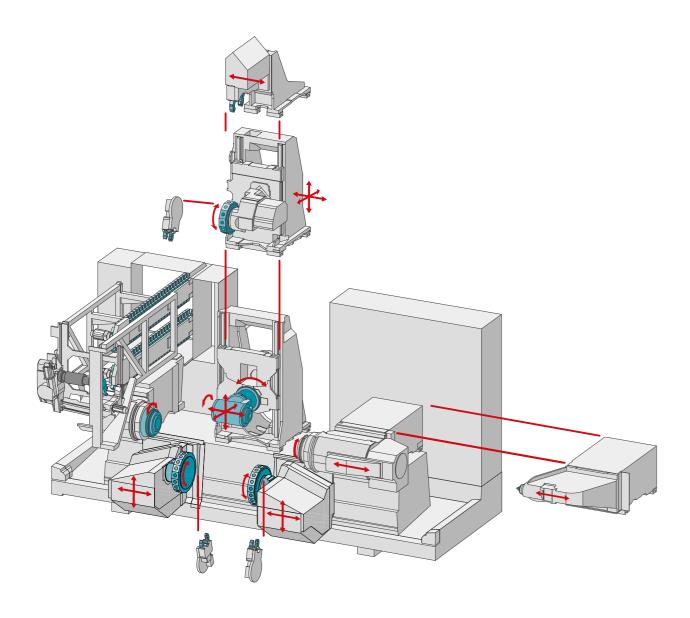
The powerful main and counter spindles are designed for bar diameters up to 120 mm and for chucked part diameters of up to 500 mm.

Turret steady rests are available for machining long or shaft-shaped parts.

The INDEX G520 features a powerful motorized milling spindle capable of performing simultaneous 5-axis machining. The ergonomic setup and operating concept played a major role in the new design.

All the relevant components are easily accessible for operating and maintenance personnel.

The modular robot cell iXcenter is available for all machines in this series, for flexible feeding and discharging of blanks and finished parts.





The components

Main and counter spindles

- Spindle clearance dia. 120 mm
- Max. speed 2,500 rpm
- 85 kW, 2,000 Nm (40% DC)
- Chuck diameter 500 mm

Upper turret (INDEX G500)

- 12 live stations, each VDI 40 with W-serration
- 5,400 rpm, 18 kW, 42 Nm (25% DC)
- X axis 295 mm, rapid traverse rate 30 m/min
- Y axis +/-100 mm, rapid traverse rate 20 m/min
- Z axis 1,580 mm / 2,290 mm, rapid traverse rate 50 m/min

Two turrets with 18 stations each (optional for INDEX G500)

- 18 live stations each, VDI 40 with W-serration
- 5,400 rpm, 18 kW, 42 Nm (25% DC)
- X axis 210 mm, rapid traverse rate 30 m/min
- Z axis 1,600 / 2,300 mm, rapid traverse rate 40 m/min

Motorized milling spindle (INDEX G520)

- HSK-T63, 12,000 rpm, 150 Nm (25% DC)
- Capto-C6, 18,000 rpm, 100 Nm (25% DC)
- X axis 750 mm, rapid traverse rate 30 m/min
- Y axis +/- 170 mm, rapid traverse rate 20 m/min
- Z axis 1,600 / 2,300 mm, rapid traverse rate 50 m/min
- B axis -25°/+205°, rapid traverse rate 75 rpm

Tailstock

- SK30 mounting
- Pressing force 9,000 N (100% DC)
- Rapid traverse rate 40 m/min

Upper steady rest on separate slide (optional)

• Clamping range 12 - 152 mm / 30 - 245 mm

Lower turret steady rests (optional)

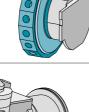
• Clamping range 52 – 131 mm

Tool magazine (INDEX G520)

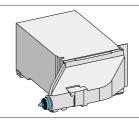
- Single-row: 58 tool locations HSK-T 63 / Capto-C6
- Double-row: 115 tool locations HSK-T 63 / Capto-C6
- Max. tool weight 10 kg
- Max. tool diameter 160 mm
- Max. tool length 500 mm
- Setup station

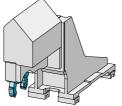




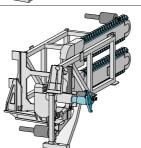








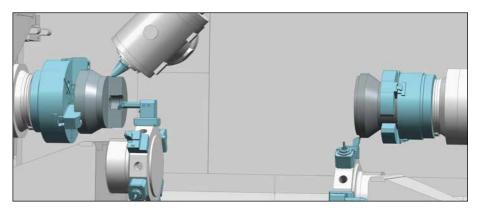




Large degrees of freedom in the work area for a wide variety of machining options

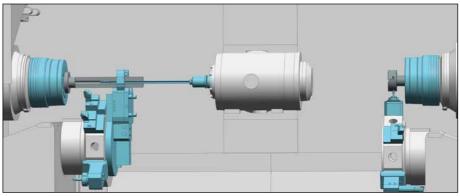
INDEX G520

Maximum productivity by simultaneous machining with 3 tools



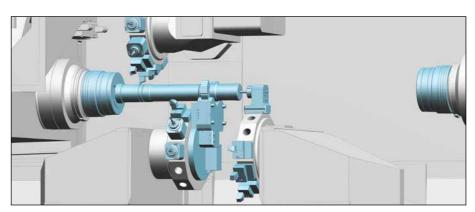
INDEX G520

Use of tools up to 500 mm long in the motorized milling spindle, e.g., for deep-hole drilling applications with the highest precision.



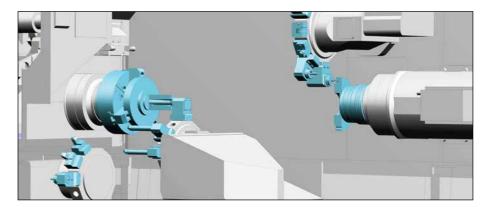
INDEX G500

Flexible shaft machining through the use of turret steady rests

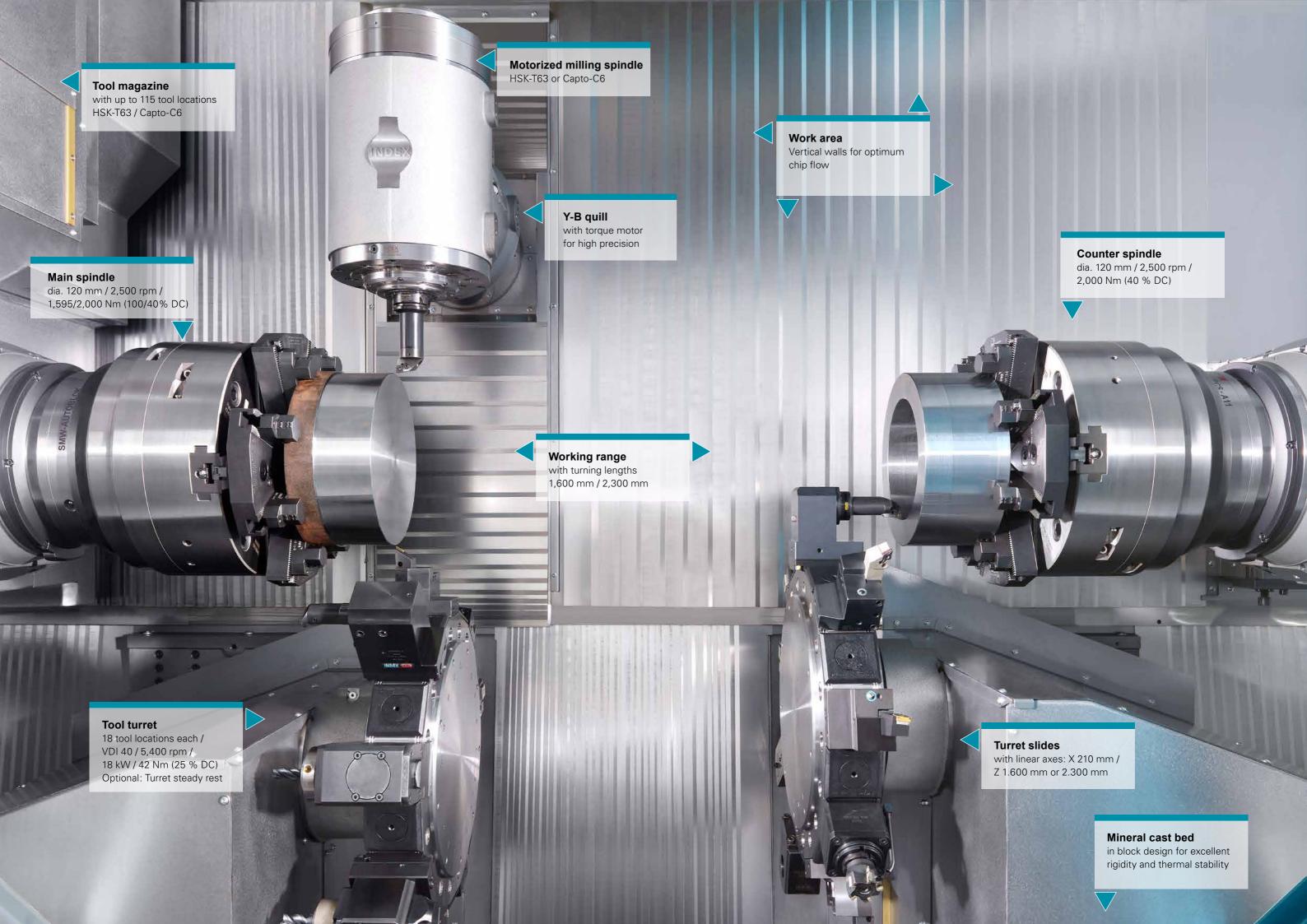


INDEX G500

Maximum freedom from collisions due to "submergence" of the lower tool carriers.







Robot cell Xcenter

Intelligent automation - even more flexibility and efficiency

With the iXcenter robot cell, blanks and finished parts can be fed and discharged quickly, safely and flexibly.

The overall sequence between the machine and the robot cell is created using predefined macros in the NC program.

The sliding door in the machine's work area, which opens and closes automatically, provides access to the robot.

The iXcenter is modular in structure and allows you to efficiently integrate various processes. The iXcenter's ease of access to spindles, tool carriers, and tool magazine makes you fully prepared to set up the machine.

Your benefits

- Automatic and ergonomic workpiece feeding and discharge
- Modular basic cell that allows flexible expansion
- Low-manned continuous operation is possible
- Door designed for optimum access and view of the machine
- Compact design
- Modern INDEX machine design
- Entire system from one source

Technical data

- 6-axis robot for 165 kg load capacity
- Reach 2,660 mm





Unlock more potential

Integration of downstream processes by attaching specialized modules

- Pallet/rack modules
- Storage systems
- Circulating conveyors
- Measuring units
- Discharge units

- Cleaning stations
- Deburring modules
- Laser marking modules
- Testing modules
- Additional customer-specific solutions

Add on any configuration options available for the machine

- Bar loading magazines
- Chip conveyors arranged left/right

Options available for the basic cell

- 6-axis robot with up to 270 kg load capacity
- Double grippers in flange and shaft versions
- Automatic gripper change, including gripper storage

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The cockpit for easy integration of the machine in your business organization



Focus on production and control - Industry 4.0 included.

The iXpanel operating concept provides access to networked production. With iXpanel, your operator always has all relevant information for efficient production right at the machine. iXpanel is included with the standard version and can be enhanced with custom options. You can use iXpanel just as you require it for your business organization – that's Industry 4.0 tailored to suit your needs.

Future-proof.

iXpanel integrates the latest control generation SIEMENS Sinumerik 840D solution line. Use iXpanel intuitively via an 18.5" touchscreen monitor.



The Control Control (1) and the Control (1) an

Productive.

Maximum performance through comprehensive technology cycles and programming screens, e.g. for optimum turning, milling and drilling, especially when using several tools simultaneously.

Intelligent.

The machine always starts with the control home screen. Other functions can be displayed on a second screen at any time. Operators can enjoy direct, activity-related assistance already with the standard version, such as workpiece drawings, setup lists, programming aids, documentation, etc.

All of this is accessible right at the machine.

Virtual & open.

With the optional VPC box (industrial PC), iXpanel opens up the world of the Virtual Machine with the 3 operating modes

- CrashStop
- RealTime mode
- Independent simulation (VM on board) directly in the control system.

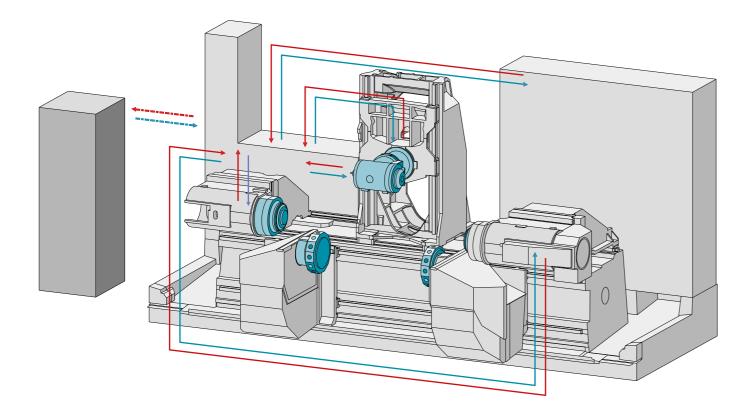
 Thanks to the VPC box, the machine car

Thanks to the VPC box, the machine can be integrated into your IT structure without any restrictions.



index-werke.de/ixpanel

The cooling concept: efficient use of energy



Intelligent use of proven cooling principles:

Targeted heat dissipation

All high-loss heat sources of the INDEX G500/ G520 are cooled directly by multiple fluid circuits. In addition to the cooling circuits for the main spindle, counter spindle, motorized milling spindle, and the torque drive of the B axis, there is also a separate cooling circuit for the hydraulic system and control cabinet. The lost heat energy is absorbed directly in the coolant and removed from a central location of the machine.

• Economic use of waste heat

The INDEX "cold water interface" allows the heat loss energy stored in the cooling medium to be removed from a central location and conveyed for another use, if required,

e.g., production hall heating, service water heating or process heating for other production steps. The recovery of machine waste heat enables a sustainable reduction of energy costs in the company.

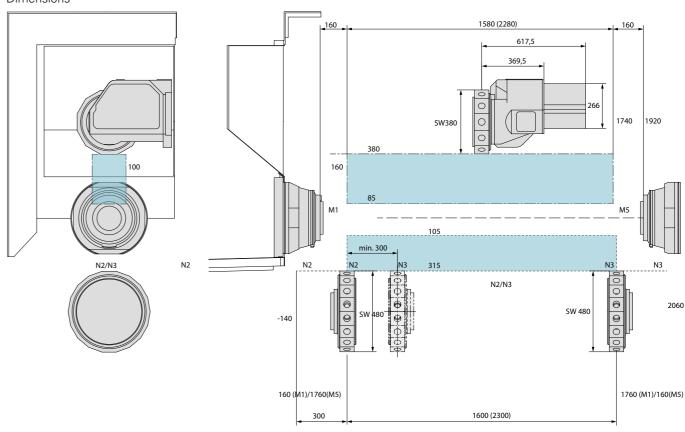
• Climate-neutral dissipation of heat

The cold water interface provides the ability to dissipate heat in a climate-neutral manner, if the machine waste heat stored in the

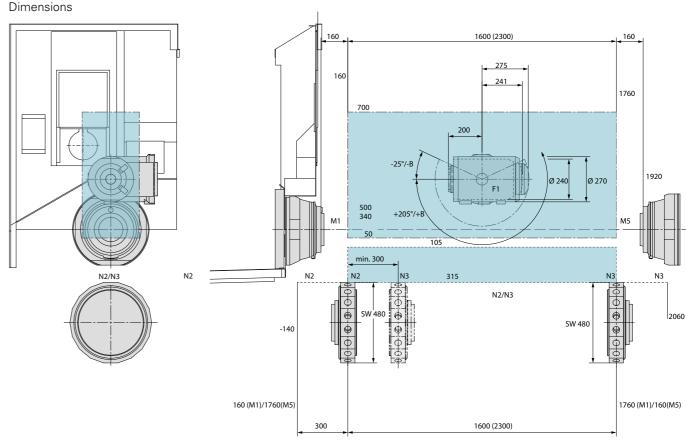
cooling medium cannot be used otherwise. The necessary cooling unit can be used with the help of the water interface first on the outside of the production hall and also centrally for several machines. This offers a considerable energy savings potential for production hall heating dissipation/climate control or increased efficiency as a result of centralized heat disposal

Work area INDEX G500 - Turning length 1,600 mm (2,300 mm) -

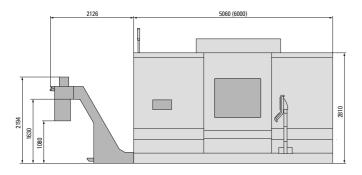
Dimensions

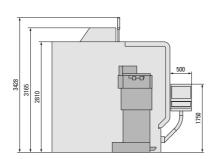


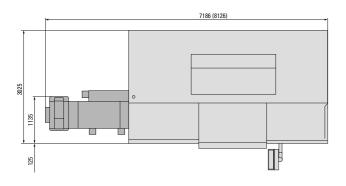
Work area INDEX G520 - Turning length 1,600 mm (2,300 mm) -



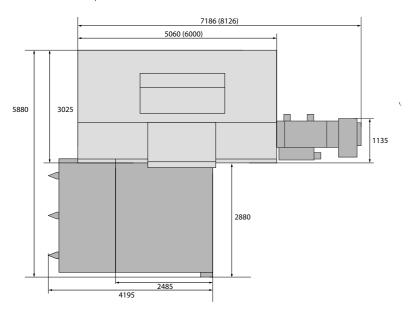
Installation plan for INDEX G500/G520 Turning length 1,600 mm (2,300 mm) / chip conveyor at left and workpiece handling







Installation plan for INDEX G500/G520
Turning length 1,600 mm (2,300 mm) / chip conveyor at right iXcenter with basic cell and pallet module



Tachnical data

| Turning length | Technical data | | | |
|---|---|----------------|------------------------|---------------------------------------|
| Turning length | | | INDEX G500 | INDEX G520 |
| Main spindle and counter spindle Spindle clearance mm 120 120 | | mm | 1,600 | 1 600 |
| Main spindle and counter spindle | | | | · · · · · · · · · · · · · · · · · · · |
| Spindle clearance | Turning length – long version | HIIII | 2,300 | 2,300 |
| All | Main spindle and counter spindle | | | |
| • Max. speed | Spindle clearance | mm | 120 | 120 |
| • Drive power (100% / 40% DC) kW 68 / 85 68 / 85 • Torque (100% / 40% DC) Nm 1,595 / 2,000 1,595 / 2,000 C axis resolution deg. 0.001 0.001 Upper tool carrier Turret Motorized m Kinematics XYZ XYZB Tooling system VDI40 DIN ISO 10889-1 HSK-T63 //C Number of stations 12 • Max. speed | Spindle head ISO 702/1 | | A11 | A11 |
| • Torque (100%/40% DC) Nm 1,595/2,000 1,595/2,000 500 Chuck diameter mm 500 500 500 C axis resolution deg. 0.001 0.001 Upper tool carrier Turret Motorized m 500 500 500 C axis resolution deg. 0.001 0.001 Upper tool carrier Turret Motorized m 500 500 500 500 500 500 500 500 500 5 | Max. speed | rpm | 2,500 | 2,500 |
| Chuck diameter mm 500 500 C axis resolution deg. 0.001 0.001 Upper tool carrier Turret Motorized m Kinematics XYZ XYZB Cooling system VDI40 DIN ISO 10889-1 HSK-T63 //C Number of stations 12 • Max. speed rpm 5,400 12,000 // 18 • Drive power (100% DC) kW 18 26 // 27.5 • Y lorque (25% DC) Nm 42 150 // 1000 750 // 30 // 10 X slide travel, rapid traverse rate, feed force mm / m/min / N 295 // 30 // 10,000 750 // 30 // 10 750 // 30 // 10 X prid traverse rate, feed force mm / m/min / N 4 // 100 // 20 // 11,000 +/ 170 // 20 // 20 X rapid traverse rate, feed force mm / m/min / N 50 // 11,000 +/ 170 // 20 // 20 X rapid traverse rate, feed force mm / m/min / N 50 // 11,000 +/ 170 // 20 // 20 Tool carrier, bottom left/right Turret XZ Turret XZ Tooling system VDI-40 DIN ISO 10889-1 VDI-40 DIN Number of st | Drive power (100% / 40% DC) | kW | 68 / 85 | 68 / 85 |
| Caxis resolution deg. 0.001 0.001 | • Torque (100%/40% DC) | Nm | 1,595 / 2,000 | 1,595 / 2,000 |
| Turret | Chuck diameter | mm | 500 | 500 |
| XYZ XYZB | C axis resolution | deg. | 0.001 | 0.001 |
| VDI40 DIN ISO 10889-1 | Upper tool carrier | | Turret | Motorized milling spindle |
| Number of stations 12 • Max. speed rpm 5,400 12,000 / 18 • Drive power (100% DC) kW 18 26 //27.5 • Torque (25% DC) Nm 42 150 / 10,000 750 / 30 / 10,000 750 / 30 / 10 / 10,000 750 / 30 / 10 / 10,000 750 / 30 / 10 / 30 / 30 / 30 / 30 / 30 / 3 | Kinematics | | XYZ | XYZB |
| • Max. speed rpm 5,400 12,000 // 18, • Drive power (100 % DC) kW 18 26 // 27.5 • Torque (25% DC) Nm 42 150 // 100 X slide travel, rapid traverse rate, feed force mm / m/min / N 295 / 30 / 10,000 750 / 30 / 10 Y slide travel, rapid traverse rate, feed force mm / m/min / N 50 / 11,000 +/-170 / 20 / Z rapid traverse rate, feed force mm/min / N 50 / 11,000 50 / 11,000 B axis swivel range, rapid traverse rate degrees/rpm -25/+205 / 7 Tool carrier, bottom left/right Turret XZ Turret XZ Tooling system VDI-40 DIN ISO 10889-1 VDI-40 DIN ISO 10889-1 Number of stations (live), turret XYZ/XZ 18 18 • Max. speed rpm 5,400 5,400 • Drive power (25% DC) kW 18 18 • Torque (25% DC) kW | Tooling system | | VDI40 DIN ISO 10889-1 | HSK-T63 // Capto-C6 |
| • Drive power (100% DC) kW 18 26 // 27.5 • Torque (25% DC) Nm 42 150 // 100 X slide travel, rapid traverse rate, feed force mm / m/min / N 295 / 30 / 10,000 750 / 30 / 10 Y slide travel, rapid traverse rate, feed force mm / m/min / N 4/-100 / 20 / 11,000 4/-170 / 20 / 12,000 50 / 11,000 B axis swivel range, rapid traverse rate degrees / rpm 50 / 11,000 50 / 11,000 B axis swivel range, rapid traverse rate degrees / rpm | Number of stations | | 12 | |
| ■ Torque (25% DC) Nm 42 150 // 100 X Slide travel, rapid traverse rate, feed force mm / m/min / N 295 / 30 / 10,000 750 / 30 / 10 Y Slide travel, rapid traverse rate, feed force mm / m/min / N +/-100 / 20 / 11,000 +/-170 / 20 / 10,000 Z rapid traverse rate, feed force m/min / N 50 / 11,000 50 / 11,000 B axis swivel range, rapid traverse rate degrees/rpm -25 / +205 / 7 Tool carrier, bottom left/right Turret XZ Tooling system VDI-40 DIN ISO 10889-1 VDI-40 DIN ISO 10889-1 VDI-40 DIN Number of stations (live), turret XYZ/XZ 18 18 18 ■ Max. speed rpm 5,400 5,400 ■ Drive power (25% DC) kW 18 18 18 ■ Torque (25% DC) kW 18 18 18 ■ Torque (25% DC) Nm 42 42 42 X Slide travel, rapid traverse rate, feed force mm / m/min / N 210 / 30 / 10,000 210 / 30 / 10 Z rapid traverse rate, feed force mm / m/min / N 40 / 11,000 40 / 11,000 Tool magazine Tooling system B | Max. speed | rpm | 5,400 | 12,000 // 18,000 |
| ■ Torque (25% DC) Nm 42 150 // 100 X Slide travel, rapid traverse rate, feed force mm / m/min / N 295 / 30 / 10,000 750 / 30 / 10 Y Slide travel, rapid traverse rate, feed force mm / m/min / N +/-100 / 20 / 11,000 +/-170 / 20 / 11,000 Z rapid traverse rate, feed force m/min / N 50 / 11,000 50 / 11,000 B axis swivel range, rapid traverse rate degrees/rpm -25/+205 / 7 Tool carrier, bottom left/right Turret XZ Tooling system VDI-40 DIN ISO 10889-1 VDI-40 DIN ISO 10889-1 VDI-40 DIN Number of stations (live), turret XYZ/XZ 18 18 18 ■ Max. speed rpm 5,400 5,400 ■ Drive power (25% DC) kW 18 18 18 ■ Torque (25% DC) kW 18 18 18 ■ Torque (25% DC) Nm 42 42 42 X Slide travel, rapid traverse rate, feed force mm / m/min / N 210 / 30 / 10,000 210 / 30 / 10 Z rapid traverse rate, feed force mm / m/min / N 40 / 11,000 40 / 11,000 Tool magazine Tool magazine Tool magazine Tool magazine locations | Drive power (100% DC) | kW | 18 | 26 // 27.5 |
| Y slide travel, rapid traverse rate, feed force mm / m/min / N | • Torque (25% DC) | Nm | 42 | 150 // 100 |
| Z rapid traverse rate, feed force m/min / N 50 / 11,000 50 / 11,000 B axis swivel range, rapid traverse rate degrees/rpm -25/+205 / 7 Tool carrier, bottom left/right Turret XZ Turret XZ Tooling system VDI-40 DIN ISO 10889-1 VDI-40 DIN Number of stations (live), turret XYZ/XZ 18 18 • Max. speed rpm 5,400 5,400 • Drive power (25% DC) kW 18 18 • Torque (25% DC) Nm 42 42 X slide travel, rapid traverse rate, feed force mm / m/min / N 210 / 30 / 10.000 210 / 30 / 10 Z rapid traverse rate, feed force mm / m/min / N 40 / 11,000 40 / 11,000 Tool magazine Tool magazine Tool magazine HSK-T63 / C Tool weight max. kg 10 Max. tool diameter mm 500 Max. tilting torque Nm 15 Turret steady rest (loptional) Turret steady rest clamping range (with chip guard) mm 5,060 x 3,025 x | X slide travel, rapid traverse rate, feed force | mm / m/min / N | 295 / 30 / 10,000 | 750 / 30 / 10,000 |
| ### B axis swivel range, rapid traverse rate degrees/rpm -25/+205/7 ### Tool carrier, bottom left/right Turret XZ Turret XZ ### Turret XZ Turret XZ ### Tooling system VDI-40 DIN ISO 10889-1 ISO 1889-1 | Y slide travel, rapid traverse rate, feed force | mm / m/min / N | +/-100 / 20 / 11,000 | +/-170 / 20 / 11,000 |
| As axis swivel range, rapid traverse rate degrees/rpm -25/+205/7 | Z rapid traverse rate, feed force | m/min / N | 50 / 11,000 | 50 / 11,000 |
| VDI-40 DIN ISO 10889-1 I8 18 18 18 18 18 18 1 | B axis swivel range, rapid traverse rate | degrees/rpm | | -25/+205 / 75 |
| VDI-40 DIN ISO 10889-1 VDI-40 DIN ISO 10889-1 VDI-40 DIN Number of stations (live), turret XYZ/XZ 18 18 18 18 18 18 18 1 | Tool carrier, bottom left/right | | Turret XZ | Turret XZ |
| • Max. speed rpm 5,400 5,400 • Drive power (25% DC) kW 18 18 • Torque (25% DC) Nm 42 42 X slide travel, rapid traverse rate, feed force mm/min / N 210 / 30 / 10.000 210 / 30 / 10.000 Z rapid traverse rate, feed force m / min / N 40 / 11,000 40 / 11,000 Tool magazine Tooling system HSK-T63 / C Tool magazine locations 58 / 115 Tool weight max. kg 10 Max. tool diameter mm 160 Max. toll length mm 500 Max. tilting torque Nm 15 Turret steady rest (optional) Turret steady rest (apmping range (with chip guard) mm 52 - 131 52 - 131 General data Length x width x height - long version mm 5,060 x 3,025 x 3,165 5,060 x 3,025 x 3,165 6,000 x 3, | | | VDI-40 DIN ISO 10889-1 | VDI-40 DIN ISO 10889-1 |
| No Drive power (25% DC) kW 18 18 Norque (25% DC) Nm 42 42 X slide travel, rapid traverse rate, feed force mm / m/min / N 210 / 30 / 10.000 210 / 30 / 10 Z rapid traverse rate, feed force m / m/min / N 40 / 11,000 40 / 11,000 Tool magazine Tool magazine locations 58 / 115 Tool weight max. kg 10 Max. tool diameter mm 160 Max. tool length mm 500 Max. tilting torque Nm 15 Turret steady rest (optional) Turret steady rest clamping range (with chip guard) mm 52 - 131 52 - 131 General data Length x width x height - long version mm 5,060 x 3,025 x 3,165 5,060 x 3,02 Weight, short/long version t 25/30 27/32 | Number of stations (live), turret XYZ/XZ | | 18 | 18 |
| Torque (25% DC) Nm 42 42 X Slide travel, rapid traverse rate, feed force mm / m/min / N 210 / 30 / 10.000 210 / 30 / 10 Z rapid traverse rate, feed force m /min / N 40 / 11,000 40 / 11,000 Tool magazine Tool ing system HSK-T63 / C Tool weight max. kg 10 Max. tool diameter mm 160 Max. tool length mm 500 Max. tilting torque Nm 15 Turret steady rest (optional) Turret steady rest clamping range (with chip guard) mm 52 - 131 52 - 131 General data Length x width x height mm 5,060 x 3,025 x 3,165 5,060 x 3,02 Length x width x height - long version mm 6,000 x 3,025 x 3,165 6,000 x 3,02 Weight, short/long version t 25 / 30 27 / 32 | Max. speed | rpm | 5,400 | 5,400 |
| X slide travel, rapid traverse rate, feed force mm / m/min / N 210 / 30 / 10.000 210 / 30 / 10 Z rapid traverse rate, feed force m / min / N 40 / 11,000 40 / 11,000 Tool magazine Tooling system HSK-T63 / C Tool magazine locations 58 / 115 Tool weight max. kg 10 Max. tool diameter mm 160 Max. tool length mm 500 Max. tilting torque Nm 15 Turret steady rest (optional) Turret steady rest clamping range (with chip guard) mm 52 - 131 Seneral data Length x width x height long version mm 6,000 x 3,025 x 3,165 6,000 x 3,025 x 3,025 Weight, short/long version t 25 / 30 27 / 32 Tool magazine Tool m | • Drive power (25% DC) | kW | 18 | 18 |
| X slide travel, rapid traverse rate, feed force mm / m/min / N 210 / 30 / 10.000 210 / 30 / 10 X rapid traverse rate, feed force m / min / N 40 / 11,000 40 / 11,000 X rapid traverse rate, feed force m / min / N 40 / 11,000 40 / 11,000 X rapid traverse rate, feed force m / min / N 40 / 11,000 40 / 11,000 X rapid traverse rate, feed force m / min / N 40 / 11,000 X rapid traverse rate, feed force m / min / N 40 / 11,000 X rapid traverse rate, feed force m / min / N 40 / 11,000 X rapid traverse rate, feed force m / min / N 40 / 11,000 X rapid traverse rate, feed force m / min / N 40 / 11,000 X rapid traverse rate, feed force m / min / N 40 / 11,000 X rapid traverse rate, feed force m / min / N 40 / 11,000 X rapid traverse rate, feed force m / min / N 40 / 11,000 X rapid traverse rate, feed force m / min / N 40 / 11,000 X rapid traverse rate, feed force m / min / N 40 / 11,000 X rapid traverse rate, feed force m / min / N 40 / 11,000 X rapid traverse rate, feed force m / min / N 40 / 11,000 X rapid traverse rate, feed force m / min / N 40 / 11,000 X rapid traverse rate, feed force m / min / N 40 / 11,000 X rapid traverse rate, feed force m / min / N 40 / 11,000 X rapid traverse rate, feed force m / min / N 40 / 11,000 X rapid traverse rate, feed force m / min / N 40 / 11,000 X rapid traverse rate, feed force m / min / n 40 / 11,000 X rapid traverse rate, feed force m / min / n 40 / 11,000 X rapid traverse rate, feed force m / min / n 40 / 11,000 X rapid traverse rate, feed force m / min / n 40 / 11,000 X rapid traverse rate, feed force m / min / n 40 / 11,000 X rapid traverse rate, feed force m / min / n 40 / 11,000 X rapid traverse rate, feed force m / min / n 40 / 11,000 X rapid traverse rate, feed force m / min / n 40 / 11,000 X rapid traverse rate, feed force m / n 40 / | • Torque (25% DC) | Nm | 42 | 42 |
| Z rapid traverse rate, feed force m /min / N 40 / 11,000 40 / 11,000 Tool magazine Tooling system HSK-T63 / C Tool magazine locations 58 / 115 Tool weight max. kg 10 Max. tool diameter mm 160 Max. tool length mm 500 Max. tilting torque Nm 15 Turret steady rest (optional) Turret steady rest clamping range (with chip guard) mm 52 - 131 52 - 131 General data Length x width x height mm 5,060 x 3,025 x 3,165 5,060 x 3,025 x 3,165 Length x width x height - long version mm 6,000 x 3,025 x 3,165 6,000 x 3,025 x 3,165 Weight, short/long version t 25 / 30 27 / 32 | • | mm / m/min / N | 210 / 30 / 10.000 | 210 / 30 / 10.000 |
| HSK-T63 / C C Tool magazine locations 58 / 115 | | | | |
| HSK-T63 / C C Tool magazine locations 58 / 115 | Tool magazine | | | |
| Tool weight max. kg 10 Max. tool diameter mm 160 Max. tool length mm 500 Max. tilting torque Nm 15 Turret steady rest (optional) Turret steady rest clamping range (with chip guard) mm 52 - 131 52 - 131 General data Length x width x height mm 5,060 x 3,025 x 3,165 5,060 x 3,025 x 3,165 Length x width x height - long version mm 6,000 x 3,025 x 3,165 6,000 x 3,025 x 3,165 Weight, short/long version t 25/30 27/32 | | | | HSK-T63 / Capto-C6 |
| Max. tool diameter mm 160 Max. tool length mm 500 Max. tilting torque Nm 15 Turret steady rest (optional) Turret steady rest clamping range (with chip guard) mm 52 - 131 52 - 131 General data Length x width x height mm 5,060 x 3,025 x 3,165 5,060 x 3,025 x 3,165 Length x width x height - long version mm 6,000 x 3,025 x 3,165 6,000 x 3,025 x 3,165 Weight, short/long version t 25/30 27/32 | Tool magazine locations | | | 58 / 115 |
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| Max. tilting torque Nm 15 Turret steady rest (optional) 52 - 131 Turret steady rest clamping range (with chip guard) mm 52 - 131 52 - 131 General data Length x width x height mm 5,060 x 3,025 x 3,165 5,060 x 3,025 Length x width x height - long version mm 6,000 x 3,025 x 3,165 6,000 x 3,025 Weight, short/long version t 25/30 27/32 | Max. tool diameter | mm | | 160 |
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| Turret steady rest clamping range (with chip guard) mm $52 - 131$ $52 - 131$ General data Length x width x height mm $5,060 \times 3,025 \times 3,165$ $5,060 \times 3,025 \times 3,165$ $6,000 \times 3,100 \times 3,100$ | Max. tilting torque | Nm | | 15 |
| General data Length x width x height mm 5,060 x 3,025 x 3,165 5,060 x 3,025 x 3,165 Length x width x height - long version mm 6,000 x 3,025 x 3,165 6,000 x 3,025 x 3,165 Weight, short/long version t 25/30 27/32 | Turret steady rest (optional) | | | |
| Length x width x heightmm $5,060 \times 3,025 \times 3,165$ $5,060 \times 3,025 \times 3,165$ Length x width x height - long versionmm $6,000 \times 3,025 \times 3,165$ $6,000 \times 3,025 \times 3,165$ Weight, short/long versiont $25/30$ $27/32$ | Turret steady rest clamping range (with chip guard) | mm | 52 - 131 | 52 - 131 |
| Length x width x heightmm $5,060 \times 3,025 \times 3,165$ $5,060 \times 3,025 \times 3,165$ Length x width x height - long versionmm $6,000 \times 3,025 \times 3,165$ $6,000 \times 3,025 \times 3,165$ Weight, short/long versiont $25/30$ $27/32$ | General data | | | |
| Length x width x height - long versionmm $6,000 \times 3,025 \times 3,165$ $6,000 \times 3,025 \times 3,165$ Weight, short/long versiont $25/30$ $27/32$ | | mm | 5,060 x 3,025 x 3,165 | 5,060 x 3,025 x 3,165 |
| Weight, short/long version t 25/30 27/32 | | | | 6,000 x 3,025 x 3,165 |
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| Control Siemens S840D sl Siemens S8 | · | | | Siemens S840D sl |

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