



MAXXMILL 400 - 630 - 750





MAXXMILL 400

Compact vertical milling centre

AXXMILL

MAXXMILL 400 is the ideal vertical milling centre for complex 5-axis machining of small workpieces in small or medium quantities. Is suited for perfectly tool and mould making, mechanical, precision and medical engineering, optical industry, contract manufacturing and further education facilities.

- 1 MACHINE BED
 - Machine bed and slide systems made of solid welded steel and cast iron components
- **2** TOOL MAGAZINE
 - Tool changer with 30 tool stations
- 3 SPINDLE
 - Mechanical spindle direct drive: 12000 rpm
 - Water-cooled motor spindle: 24000 rpmn

4 CONTROL

- State-of-the-art touch screen control technology from Siemens - Siemens 840D sl or Heidenhain - TNC 620
- emcoNNECT available for Siemens Sinumerik 840D sl

5 CONTROL PANEL

■ Ergonomically positioned and swivelling control panel

6 TABLE

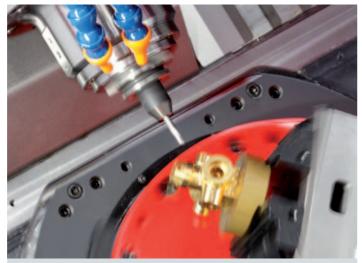
■ Massive swivel-rotary table with ø 400 mm

7 CHIP REMOVAL

■ The chips can be removed by an optional available hinge type chip conveyer



Swivel-rotary table. The swivel-rotary table has a flexible clamping surface with a diameter of 400 mm and can be loaded with 80 kg. A workpiece with a maximum edge length of 250 x 250 x 225 mm can be processed on 5 sides with optimum results.



Swivel range. With +/- 100° swivel range the B-axis provides a larger work area compared with the products from other manufacturers. The C-axis can be rotated by 360° without limitation.



Heidenhain TNC 620. The TNC 620 is a compact but versatile contouring control for up to five controlled axes. Thanks to its flexible operating concept—workshop-oriented programmability with HEIDENHAIN conversational programming or off-line programming—and its scope of features, it is especially suited for use on milling machines.

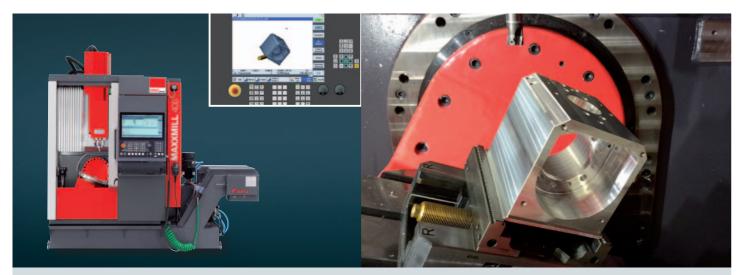


Sinumerik 840D sl inkl. Shopmill. Sinumerik 840D sl incl. Shopmill: The Sinumerik 840D sl incl. Shopmill is a universal and flexible CNC system and offers free contour programming, Moving cycles for complex contours, fast reference point setting with touch probe systems, tilting the working plane, Cylindrical surface machining, 3-D tool compensation, fast execution through short block processing times.



Tool magazine. Is equipped with 30 tool stations. At the version with 24.000 U/min the spindle has a HSK-A40 recording.

MAXXMILL 400 Technical Highlights



For Industrial Training: Maxxmill 400 with Sinutrain includes beside to the machine and 18 licenses for SinuTrain and Sinumerik Operate, 20 users for EMCO Campus and accessories ready for use. The illustration of the operator panel front, machine control panel and user interface correspond to the original design, which allows for real operation. The user interface corresponds to the original SINUMERIK Operate interface. The simulation is identical with the real control. The full functionality of SINUMERIK Operate on SINUMERIK 840D sl/828D is available.



Workpieces of 250 x 250 x 225 mm with a weight of up to 80 kg can be machined with the MaxxMill 400 in one setting on 5 sides.

Highlights

- 5-axis machining in a single set-up
- Top thermostability
- Top machining precision
- Modern moving column concept
- Massive swivel-rotary table with Ø 400 mm provides high stability and precision
- Compact machine design
- Cutting-edge control technology from Siemens or Heidenhain
- emcoNNECT for Siemens 840D sl
- Extensive options such as water-cooled motor spindle with 24000 rpm
- Optimal chip removal
- Attractive price-performance ratio
- Made in the Heart of Europe

MAXXMILL 630

Compact vertical milling center

The new CN vertical milling center Maxxmill 630 is capable to mill parts with an edge size of 445 x 445 x 290 mm in just one operation in an efficient and precise way. Its compact design in cast iron and welded steel guarantees the maximum in rigidity and thermosymmetry. Short power flows assure the highest precision and an excellent surface quality of the workpiece.

MACHINE BASE

■ The machine base consists of welded steel construction, the X-Y slide and the Z-axis are cast iron.

2 TOOL CHANGER

- Tool changer with 30 tool stations
- 60-fold chain magazin optional available

3 SPINDLE

- Mechanical spindle direct drive: 12000 rpm
- Motor spindle: 15000 rpm



4 OPERATING PANEL

- Available with Heidenhain or Siemens touch screen control technology
- 90° Swivelling operating panel
- emcoNNECT available for Siemens Sinumerik 840D sl

5 TARI I

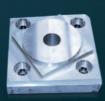
■ Swivelling-rotary table

6 CHIP REMOVAL

■ The chip removal can be handled by an optional available hinge type chip conveyer.







Test piece (Aluminium)

MAXXMILL 750

Compact vertical milling center

The new CNC vertical milling center Maxxmill 750 is capable to mill parts with an edge size of 530 x 530 x 417 mm in just one operation in an efficient and precise way. Its compact design in cast iron and welded steel guarantees the maximum in rigidity and thermosymmetry. Short power flows assure the highest precision and an excellent surface quality of the workpiece. At the new Maxxmill 750, with its long Y-axis, large linear guides and the ability to machine workpieces up to a maximum weight of 300 kg, optimum conditions were created for the

MACHINE BASE

■ The machine base consists of welded steel construction, the X-Y slide and the Z-axis are cast iron.

TOOL CHANGER

- Tool changer with 30 tool stations
- Tool changer with 40 or 60 tool stations as option available

- Mechanical spindle direct drive: 12000 rpm
- Motor spindle: 15000 rpm



4 OPERATING PANEL

- Available with Heidenhain or Siemens touch screen control technology
- 90° Swivelling operating panel
 emcoNNECT available for Siemens Sinumerik 840D sl

- Swivelling-rotary table
- Optional with counter bearing for enhanced stability

CHIP REMOVAL

- The chip removal can be handled by an optionally available hinge type chip conveyer.
- Air or water for the chip removal is available as option.

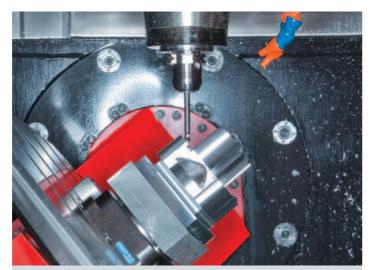








Swivel-rotary table. The swivel-rotary table has a large clamping area of 630×500 mm (24.8×19.6 ") resp. 750×600 mm (29.5×23.6 ") and can bear loads of up to 200 kg (440.9 lb) resp. 300 kg (661.3 lb). This makes it possible to simply machine workpieces with an edge size of $445 \times 445 \times 290$ mm ($17.5 \times 17.5 \times 11.4$ ") or $530 \times 530 \times 417$ mm ($20.8 \times 20.8 \times 16.4$ "). The special shape of the table allows the spindle nose to move closer to the table center.



Travel range. With a travel range of +/- 100°, the B axis provides a larger work area than most products from other manufacturers. The C axis can be infinitely rotated by 360°.



The Sinumerik 840D sl incl. Shopmil. The Sinumerik 840D sl incl. Shopmill is a universal and flexible CNC system and offers free contour programming, milling cycles for complex contours, fast reference point setting with touch probe systems, tilting the working plane, cylindrical surface machining, 3-D tool compensation, fast execution through short block processing times.



Heidenhain TNC 620. The TNC 620 is a compact, adaptable control for up to five controlled axes. With its flexible operating concept - workshoporiented programmability in the HEIDENHAIN Klartext dialog or external programming – and its scope of performance, it is perfectly suited for EMCO milling centers.



Tool changer. The tool changer of the Maxxmill 630 is a drum magazine for 30 tools (60 tools chain type magazine as option). For Maxxmill 750, a tool magazine with 40 or 60 tool stations is available as option. The tools are managed according to the variable tool station coding principle (random), which means that tools are always deposited in the first free magazine station for time reasons.

MAXXMILL 630 / 750 Technical Highlights



Massive structure. The carriage, slide and machining head are made of cast iron for maximum stability and best workpiece finishing. Cast components are optimized by means of FEM analysis, which means that these components are lightweight and stable at the same time.



The direct drive on the Z-axis stands for highest auccuracy and prevents any reverse of pulleys or belts.

Highlights

- 5-sided machining in a single set-up
- Top thermostability
- **■** Top machining precision
- Modern moving column concept
- Massive tilting rotary table 750 x 600 mm (29.5 x 23.6") / 630 x 500 mm (24.8 x 19.7") provides high stability and precision
- Compact machine design
- Cutting-edge control technology from Siemens or Heidenhain
- emcoNNECT available for Siemens Sinumerik 840D sl
- Extensive options such as water-cooled motor spindle with 15000 rpm
- Optimal chip removal
- Attractive price-performance ratio
- Made in the Heart of Europe



Your "Control Center" for the entire production flow





DASHBOARD - For a Quick Overview of the Machine Status

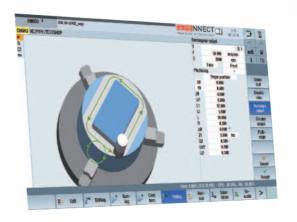
Clear and compact processing of all relevant machine and NC data depending on the configuration of the machine (number of tool systems, spindles, ...) and the active operating mode (JOG, MDA, AUTO). Know at a glance whether everything is OK or whether the machine operator will be required to interact.



emcoNNECT's hardware basis is a 22" industrial touch control panel combined with an industrial PC (IPC).

Highlights

- Direct interaction between EMCO Apps and the control
- Intuitive user interface optimized for touch control
- Range of available applications is continuously being expanded
- **■** Customised and project-specific applications
- Optimized for the EMCO machine range
- emcoNNECT allows for easy and quick configuration and updating

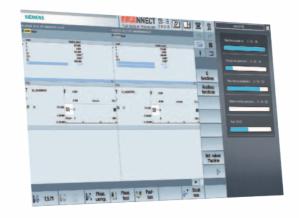


SINUMERIK - the Control and the Machine's Centerpiece

Thanks to the App Launcher operators may switch between the emcoNNECT Apps and the control at any time. All it takes to do so is a click on the emcoNNECT logo. To improve the work processes on the machine the control can, as shown in the picture, be operated in full screen mode or in interaction with practical apps (sidebar).

MACHINE DATA – All Data related to Productivity at a Glance

Operating data collection to inform the user about the current production status and OEE (Overall Equipment Effectiveness) values full screen or sidebar.





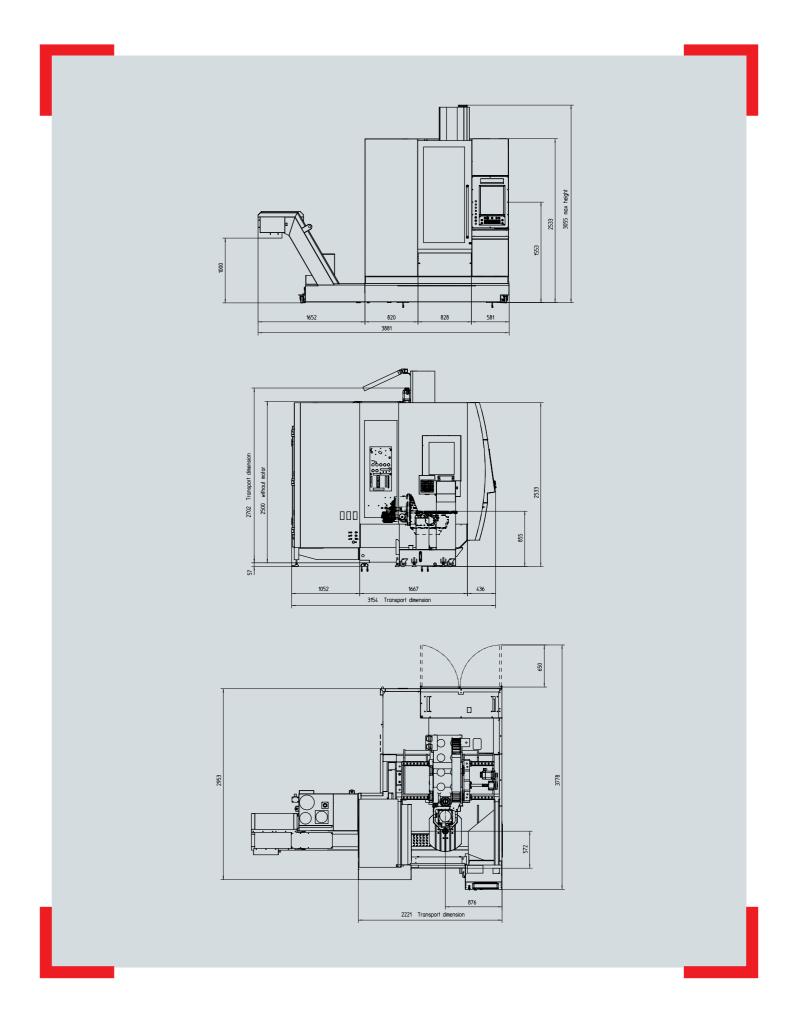
DOCUMENTS – A Digital and Expandable Document Collection Customised to Suit Your Individual Needs

To display PDF documents such as machine documentations, programming instructions, process descriptions ... Including favourites management - full screen or sidebar

Installation plan MM 400

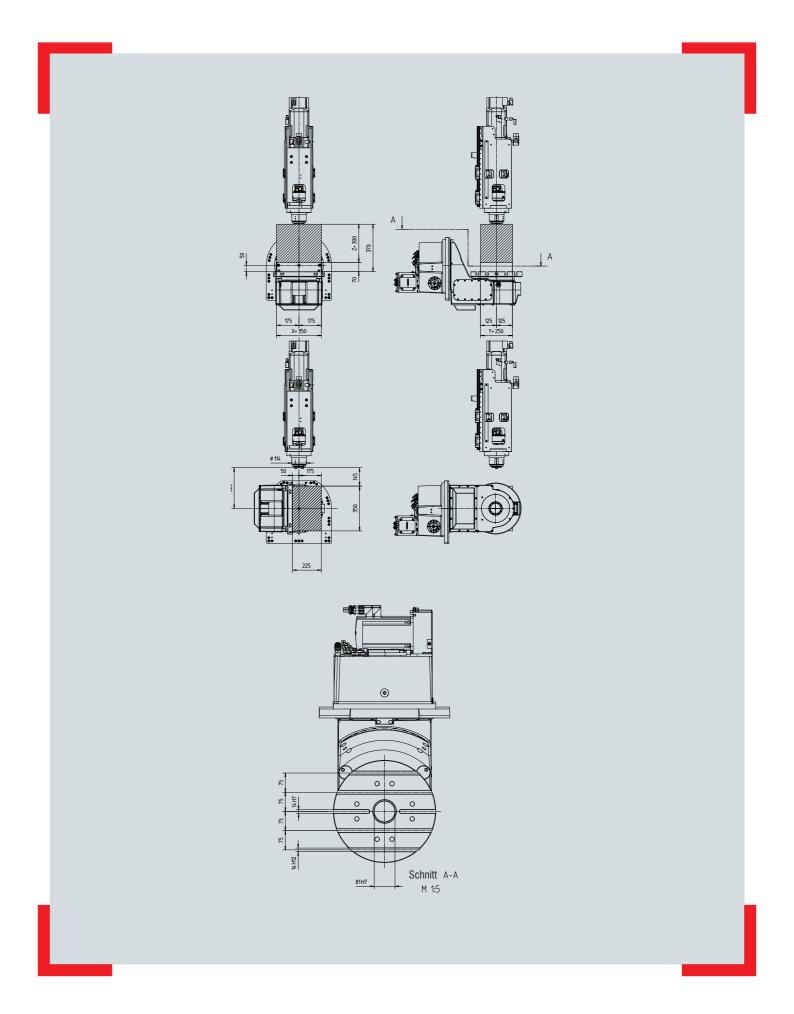
1629 (Transport Dimension) 1589 493 427

Installation plan MM 630

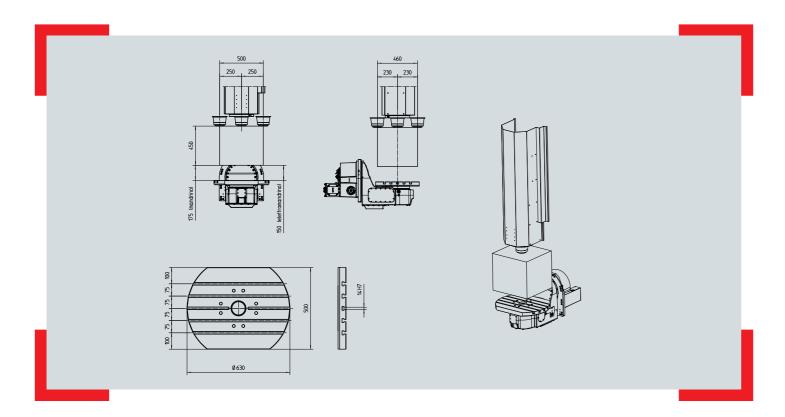


Installation plan MM 750

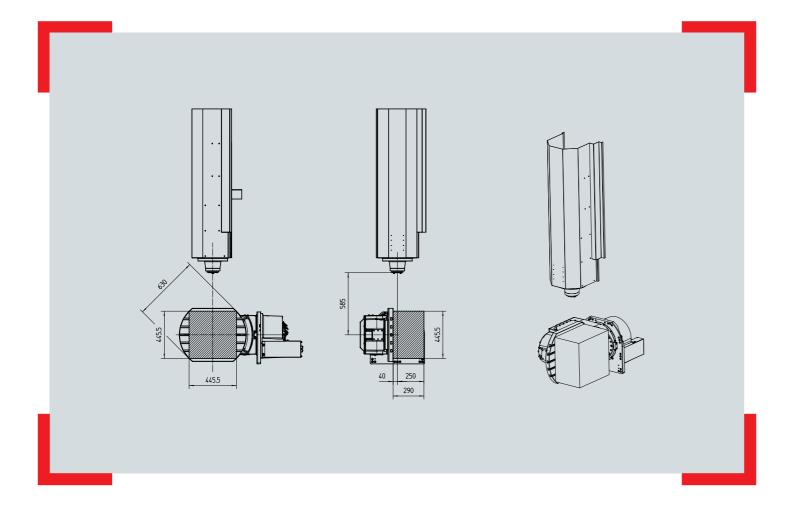
Work area MM 400



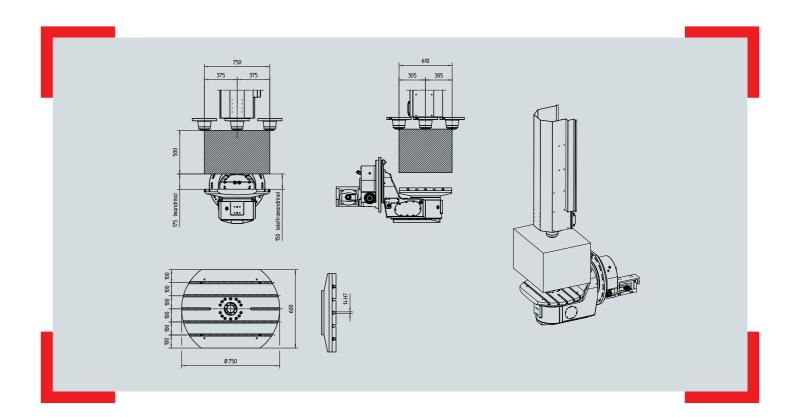
Work area MM 630



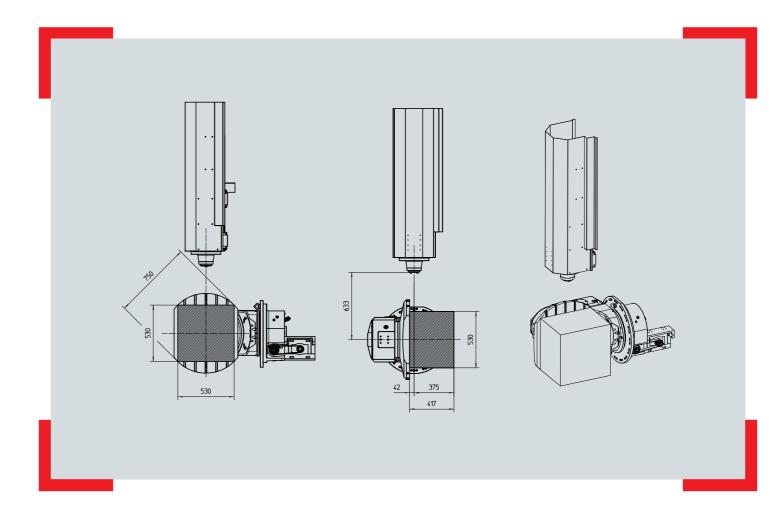
Work area



Work area MM 750



Work area





Drive

Travel in Y 250 mm (8.8") 460 mm (18.1") 610 mm Corsa asse Z 300 mm (11.8") 450 mm (17.7") 500 mm (17.7") Distance spindle nose - table (min max. / mechanical spindle) 70 / 370 mm 115 / 675 mm 115 / 675 mm Distance spindle nose - table (min max. / motor spindle) 70 / 370 mm 150 / 650 mm 150 / 650 mm Distance spindle nose - table (min max. / motor spindle) 70 / 370 mm 150 / 650 mm 150 / 650 mm Swivel range B-axis + /+ 100° <th>Travel and tolerances</th> <th>MAXXMILL 400</th> <th>630</th> <th>750</th>	Travel and tolerances	MAXXMILL 400	630	750
Corsa asse Z S00 mm (11.8") 450 mm (17.7") 500 mm (11.8") 175 / 675 mm (17.5" 175 / 675 mm (18.5" 175 / 675 mm (18.5" 18.5"	Travel in X	350 + 100 (13.8 + 3.9")	500 + 50 (19.6 + 1.9")	750 + 50 (29.5 + 1.9")
Distance spindle nose - table (min max. / mechanical spindle) 70 / 370 mm 175 / 675 mm (8.8 / 28.55) (8.8 / 28.55	Travel in Y	250 mm (9.8")	460 mm (18.1")	610 mm (24")
(2.8 / 14.6 f) (6.8 / 26.5 f) (6.9	Corsa asse Z	300 mm (11.8")	450 mm (17.7")	500 mm (19.6")
(2.8 14.6") (5.9 25.5")	Distance spindle nose - table (min max. / mechanical spindle)	- /		175 / 675 mm (6.8 / 26.5")
Range of rotation C-axis (rotary table) 0 – 360° 0 – 360° 0 – 360° 0 – 360° Positioning accuracy P according to VDI 3441 * 10 μm 10 μm 11 Positioning repeatability Ps according to VDI 3441 * 4 μm 4 μm 4 μm Positioning accuracy B axis (litting – with motor encoder) 36 sec 20 sec. 20 Positioning accuracy C axis (table – with motor encoder) 15 sec 10 sec. 10 Feed Feed Basis (litting – with motor encoder) 15 sec 20 sec. 20 Positioning accuracy C axis (table – with motor encoder) 15 sec 20 sec. 20 Positioning accuracy Exis (table – with motor encoder) 30 m/min (1181.1 ipm)	Distance spindle nose - table (min max. / motor spindle)			150 / 650 mm (5.9 / 25.5")
Positioning accuracy P according to VDI 3441 * 10 μm 10 μm 10 μm 10 μm Positioning repeatability Ps according to VDI 3441 * 4 μm 4 μm 4 μm Positioning accuracy B axis (tilting – with motor encoder) 36 sec 20 sec. 20 cec. Positioning accuracy C axis (table – with motor encoder) 15 sec 10 sec. 10 sec. Feed Bapid motion speed X-Y-Z axis 30 m/min (1181.1 ipm) 30 m/min (1181.1 ipm) 30 m/min (1181.1 ipm) 30 m/min (1181.1 ipm) 20 m/min (1181.1 ipm) 20 m/min (1181.1 ipm) 20 m/min (1181.1 ipm) 20 m/min (1181.1 ipm) 30 m/min (1181.1 ipm) 30 m/min (1181.1 ipm) 20 m/min	Swivel range B-axis	+/- 100°	+/- 100°	+/- 100°
Positioning repeatability Ps according to VDI 3441 * 4 μm	Range of rotation C-axis (rotary table)	0 – 360°	0 – 360°	0 – 360°
Positioning accuracy B axis (tilting – with motor encoder) 36 sec 20 sec. 20 Positioning accuracy C axis (table – with motor encoder) 15 sec 10 sec. 10 Feed Bapid motion speed X-Y-Z axis 30 m/min (1181.1 ipm) 30 m/min (1181.1 ipm) <t< td=""><td>Positioning accuracy P according to VDI 3441 *</td><td>10 <i>μ</i>m</td><td>10 μm</td><td>10 μm</td></t<>	Positioning accuracy P according to VDI 3441 *	10 <i>μ</i> m	10 μm	10 μm
Positioning accuracy C axis (table – with motor encoder) 15 sec 10 sec. 10	Positioning repeatability Ps according to VDI 3441 *	4 μm	4 μm	4 μm
Feed Rapid motion speed X-Y-Z axis 30 m/min (1181.1 ipm) 25 m/min (118.1 ipm) 25 m/min (118.1 ipm) 25 m/min (118.1 ipm) 25 m/min (118.1 ipm)	Positioning accuracy B axis (tilting – with motor encoder)	36 sec	20 sec.	20 sec.
Rapid motion speed X-Y-Z axis 30 m/min (1181.1 ipm) 25 mm 20 rpm 25 mm 25 mm 20 rpm	Positioning accuracy C axis (table – with motor encoder)	15 sec	10 sec.	10 sec.
Max. rotational speed B axis 20 rpm 16 rpm 25 Max. rotational speed C axis 25 rpm 20 rpm 25 Max. feed force X axis 3000 N (674.4 lbs) 5000 N (1124 lbs) 5000 N (124 lbs) 5000 N	Feed			
Max. rotational speed C axis 25 rpm 20 rpm 25 Max. feed force X axis 3000 N (674.4 lbs) 5000 N (1124 lbs) 500 S (1124 lbs) 5	Rapid motion speed X-Y-Z axis	30 m/min (1181.1 ipm)	30 m/min (1181.1 ipm)	30 m/min (1181.1 ipm)
Max. feed force X axis 3000 N (674.4 lbs) 5000 N (1124 lbs) 500 N (1124 lbs) <	Max. rotational speed B axis	20 rpm	16 rpm	25 rpm
Max. feed force Y axis 3000 N (674.4 lbs) 5000 N (1124 lbs) 3000 N (500 lbs) 3000 N (500 lbs) 3000 N (500 lbs) 3000 N (500 lbs) 5000	Max. rotational speed C axis	25 rpm	20 rpm	25 rpm
Max. feed force Z axis 3000 N (674.4 lbs) 5000 N (1124 lbs) 3000 N (303 mm) 750 x 600 600 mm	Max. feed force X axis	3000 N (674.4 lbs)	5000 N (1124 lbs)	5000 N (1124 lbs)
Max. acceleration X-Y-Z axis 4 / 3 / 3 / m/s² 3 m/s² 3 Tilting table Clamping area Ø 400 mm (15.7") 630 x 500 mm (24.8 x 19.6") 750 x 600 (29.5 x 2 (24.8 x 19.6") (29.5 x 2 (24.8 x 19.6") (29.5 x 2 (24.8 x 19.6") 805 mm (3.7") 100 mm (3.8 mm (2.9") 75 mm (2.9") 75 mm (2.9") 100 mm (3.8") 100 mm (3.8") <td>Max. feed force Y axis</td> <td>3000 N (674.4 lbs)</td> <td>5000 N (1124 lbs)</td> <td>5000 N (1124 lbs)</td>	Max. feed force Y axis	3000 N (674.4 lbs)	5000 N (1124 lbs)	5000 N (1124 lbs)
Tilting table Clamping area Ø 400 mm (15.7") 630 x 500 mm (24.8 x 19.6") 750 x 600 (29.5 x 2 (Max. feed force Z axis	3000 N (674.4 lbs)	5000 N (1124 lbs)	5000 N (1124 lbs)
Clamping area Ø 400 mm (15.7") 630 x 500 mm (24.8 x 19.6") 750 x 600 (29.5 x 2 (24.8 x 19.6")) 750 x 600 (29.5 x 2 (24.8 x 19.6")) 262.5 x 2 (29.5 x 2 (24.8 x 19.6")) 750 mm (3.8") 855 mm (33.7") 805 mm (3 (29.5 x 2 (Max. acceleration X-Y-Z axis	4 / 3 / 3 / m/s ²	3 m/s ²	3 m/s ²
(15.7") (24.8 x 19.6") (29.5 x 2	Tilting table			
Slot number 5 5 5 Distance between two T-slots 75 mm (2.9") 75 mm (2.9") 100 mm (300 mm) Groove wide 14 mm (0.55") 10 mm (0.55") 14 mm (0.55") 10 mm (0.55")	Clamping area			750 x 600 mm (29.5 x 23.6")
Distance between two T-slots 75 mm (2.9") 75 mm (2.9") 100 mm (2.9") Groove wide 14 mm (0.55") 100 kg (440.9 lb) 300 kg (661, Max. permissible workpiece weight with counterbearing 500 kg (1102, Max. permissible workpiece weight with counterbearing 500 kg (1102, Max. permissible workpiece weight with counterbearing 500 kg (1102, Max. permissible workpiece weight with counterbearing 500 kg (1102, Max. permissible workpiece weight with counterbearing 500 kg (1102, Max. permissible workpiece weight with counterbearing 500 kg (1102, Max. permissible workpiece weight with counterbearing 500 kg (1102, Max. permissible workpiece weight with counterbearing 500 kg (1102, Max. permissible workpiece weight with counterbearing 500 kg (1102, Max. permissible workpiece weight with counterbearing 500 kg (1102, Max. permissible workpiece weight with counterbearing 500 kg (1102, Max. permissible workpiece weight with counterbearing 500 kg (1102, Max. permissible workpiece weight workpiece weight with counterbearing 500 kg (1102, Max. permissible workpiece weight workpiece we	Table-floor distance	860 mm (33.8")	855 mm (33.7")	805 mm (31.6")
Groove wide 14 mm (0.55") 14 mm (0.55") 14 mm (0 Max. workpiece weight (equally distributed) 80 kg (176 lb) 200 kg (440.9 lb) 300 kg (661, 300 kg (611, 300 kg (1102, 300 kg (110	Slot number	5	5	5
Max. workpiece weight (equally distributed) 80 kg (176 lb) 200 kg (440.9 lb) 300 kg (661, 300 kg (1102, 300	Distance between two T-slots	75 mm (2.9")	75 mm (2.9")	100 mm (3.9")
Max. permissible workpiece weight with counterbearing 500 kg (1102, Main spindle (mechanical spindle) Speed range 50 – 12000 rpm 50	Groove wide	14 mm (0.55")	14 mm (0.55")	14 mm (0.55")
Main spindle (mechanical spindle) Speed range 50 - 12000 rpm	Max. workpiece weight (equally distributed)	80 kg (176 lb)	200 kg (440.9 lb)	300 kg (661,3 lb)
Speed range 50 – 12000 rpm 50 – 12000	Max. permissible workpiece weight with counterbearing			500 kg (1102,3 lb)
Maximum spindle torque 33 Nm (30.2 ft/lbs) 100 Nm (73.8 ft/lbs) 100 Nm (73.8 ft Maximum spindle power 7 kW (9.4 hp) 15 kW (20.1hp) 15 kW (20. Tool taper ISO 30 DIN 69871 ISO 40 DIN 69871 ISO 40 DIN 69871	Main spindle (mechanical spindle)			
Maximum spindle power 7 kW (9.4 hp) 15 kW (20.1hp) 15 kW (20. Tool taper ISO 30 DIN 69871 ISO 40 DIN 69871 ISO 40 DIN 69871	Speed range	50 – 12000 rpm	50 – 12000 rpm	50 – 12000 rpm
Tool taper ISO 30 DIN 69871 ISO 40 DIN 69871 ISO 40 DIN 69	Maximum spindle torque	33 Nm (30.2 ft/lbs)	100 Nm (73.8 ft/lbs)	100 Nm (73.8 ft/lbs)
· ·	Maximum spindle power	7 kW (9.4 hp)	15 kW (20.1hp)	15 kW (20.1hp)
Pull stud DIN 69872A ISO 7388/2 Type B ISO 7388/2 Type	Tool taper	ISO 30 DIN 69871	ISO 40 DIN 69871	ISO 40 DIN 69871
	Pull stud	DIN 69872A	ISO 7388/2 Type B	ISO 7388/2 Type B

direct drive

direct drive

direct drive

50 – 24000 rpm 38 Nm (27.9 ft/lbs)	50 - 15000 rpm	50 - 15000 rpm
38 Nm (27.9 ft/lbs)		
	100 Nm (73.8 ft/lbs)	100 Nm (73.8 ft/lbs)
16 kW (21.5 hp)	20 kW (26.8 hp)	20 kW (26.8 hp)
HSK-A40	ISO 40 (HSK-A63)	ISO 40 (HSK-A63)
30 ISO 30	30 (60)	30 (40 / 60)
30 HSK-A40		
double arm gripper	double arm gripper	double arm gripper
Random	Random	Random
2 Sek.	2 sec.	2 sec.
63 mm (2.5")	80 mm (3.1")	80 mm (3.1")
100 mm (3.9")	125 mm (4.9")	125 mm (4.9")
200 mm (7.9")	250 mm (9.8")	250 mm (9.8")
5 kg (11.0 lb)	8 kg (17.6 lb)	8 kg (17.6 lb)
70 kg (154.3 lb)	100 kg (220.5 lb)	100 kg (220.5 lb)
120 l (31.7 gal)	200 l (52.8 gal)	250 l (60 gal)
2 bar (29.0 PSI)	2 bar (29.0 PSI)	2 bar (29.0 PSI)
40 l/min (10.6 gal/min)	40 l/min (10.6 gal/min)	40 l/min (10.6 gal/min)
6 bar (79.8 PSI)	6 bar (79.8 PSI)	6 bar (79.8 PSI)
200 NI/min	200 NI/min	200 NI/min
Grease	Grease	Grease
Oil / central lubrication	Grease	Grease
Oil / central lubrication	Grease	Grease
2300 mm (90.6")	3060 mm (120.4")	3060 mm (120.4")
1630 x 2300 mm	2500 x 3120 mm	2770 x 3350 mm
(64.2 x 90.6")	(98.4 x 122.8")	(109 x 131.8")
3300 kg	4800 kg	7900 kg
	30 ISO 30 30 HSK-A40 double arm gripper Random 2 Sek. 63 mm (2.5") 100 mm (3.9") 200 mm (7.9") 5 kg (11.0 lb) 70 kg (154.3 lb) 120 I (31.7 gal) 2 bar (29.0 PSI) 40 l/min (10.6 gal/min) Grease Oil / central lubrication Oil / central lubrication 2300 mm (90.6") 1630 x 2300 mm	30 ISO 30 30 (60) 30 HSK-A40 double arm gripper double arm gripper Random Random 2 Sek. 2 sec. 63 mm (2.5") 80 mm (3.1") 100 mm (3.9") 125 mm (4.9") 200 mm (7.9") 250 mm (9.8") 5 kg (11.0 lb) 8 kg (17.6 lb) 70 kg (154.3 lb) 100 kg (220.5 lb) 120 I (31.7 gal) 200 I (52.8 gal) 2 bar (29.0 PSI) 2 bar (29.0 PSI) 40 l/min (10.6 gal/min) 40 l/min (10.6 gal/min) 6 bar (79.8 PSI) 6 bar (79.8 PSI) 200 Nl/min 200 Nl/min Grease Oil / central lubrication Grease Oil / central lubrication Grease Oil / central lubrication Grease 2300 mm (90.6") 3060 mm (120.4") 1630 x 2300 mm

^{*} Values measured at a temperature of 22°C, with the machine mounted on the floor. Machine, with linear scales - pitch compensated with laser, and motor encoders in the rotary axis.















