





Compact technology for maximum efficiency EMCOMILL 1200 and EMCOMILL 750

3-axis CNC milling machines for the machining of small to medium lot sizes

EMCOMILL 1200



Test UNI ISO 10791-7

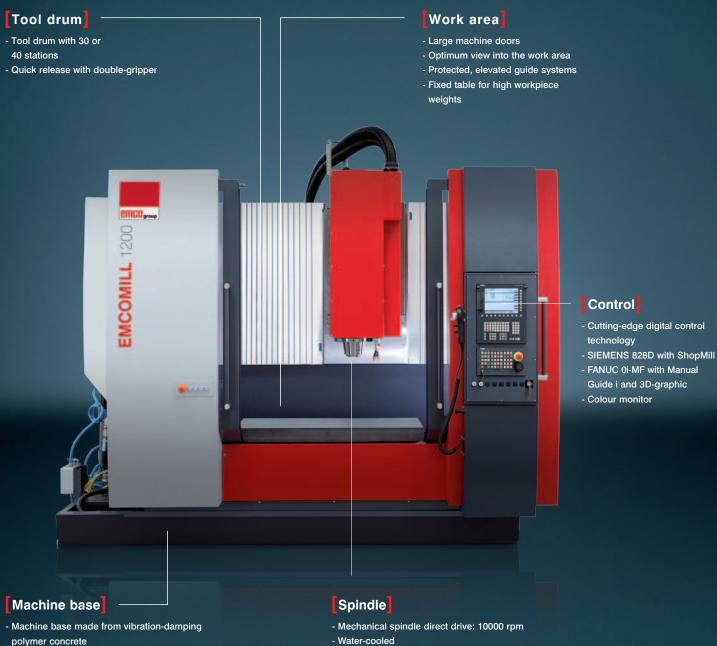
(Aluminum)



Tool

(Steel)

Contour machining (Aluminium)



motor spindle: 15000 rpm

The new moving column milling machine EMCOMILL 1200 is an addition to EMCO's product range: the flexible, vertical CNC milling machine for 3-axis milling work has a compact machine layout, a travel of 1200 mm in the X-axis, 600 mm in the Y-axis, the latest control technology, as well as a very attractive price-performance ratio. The solid fixed table and large work area enable the machining of heavy workpieces weighing up to 1500 kg.

EMCOMILL 750



Bearing housing

(Steel)



Pump housing

(Aluminium)



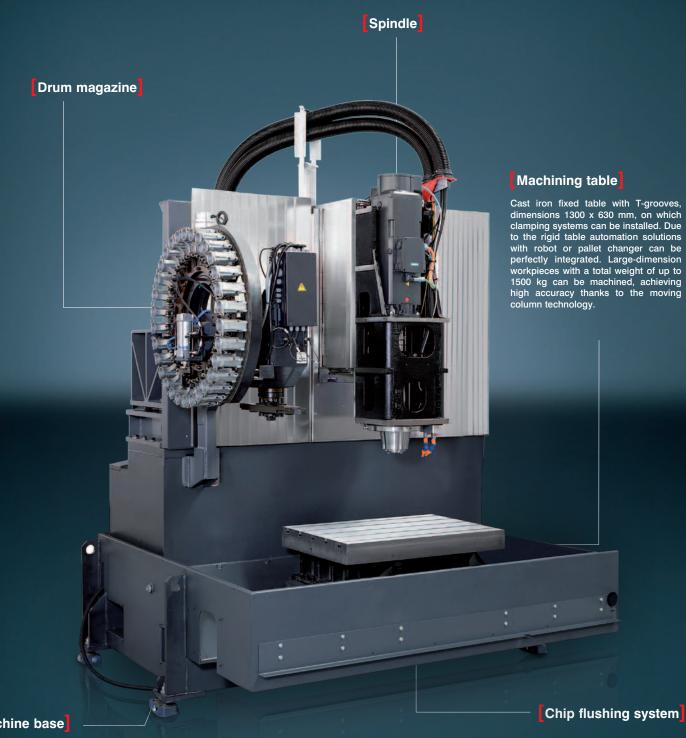
Sliding carriage mount (Steel)



With a travel of 750 mm in the X-axis and a maximum workpiece weight of 800 kg, the EMCOMILL 750 is the smaller version of the EMCOMILL 1200. A compact machine design, generous work area and maximum stability are just some of its excellent features.

[Machine construction]

The new EMCOMILL 1200 and EMCOMILL 750 series is designed as a moving column milling machine. The machine base is made from particularly vibration-damping polymer concrete. The X-slide is made from welded steel; the Y- and X-slides are made from a stress-free mould.



Machine base

[Technology]

Highlights

- High-performance milling spindles
- Flexible tool system
- Large work area with wide machine doors
- Solid fixed table for workpiece weights
 - up to 1500 kg

- State-of-the-art control technology from SIEMENS and FANUC
- Large number of options
- Best price-performance ratio
- Made in the Heart of Europe



As a 4th axis, a rotary table with a diameter of 200 mm is available, offering up to 0.001° precise resolution and NC-interpolation.



Caged roller ways and ball screws. Oil-lubricated caged roller ways size 45 mm in X-axis and 35 mm in Y-, Z-axis, with high resistance to mechanical strains and at the same time high displacement speed with no vibrations and fluid motions.



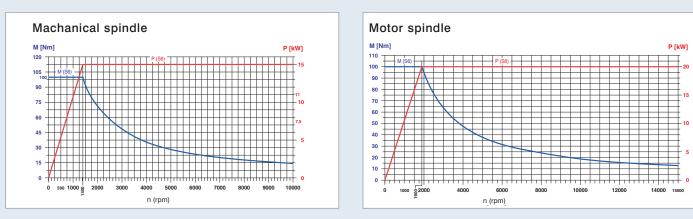
High-performance spindle ISO 40 DIN 69871 / ISO 7388/2 type B. Option: ISO 40 DIN 69871 / DIN 69872, BT40, HSK-A63 (only for motor spindle)



The tool magazine has 30 stations (40 as option). The tool management with random tool selection uses a double-gripper that allows to make a pre-search of the tool during the machining cycle. Alternatively it is possible to utilise the tool magazine with a fixed place for big-dimensioned tools, leaving the two adjacent stations free.

[Technology]

Power



Control

The EMCOMILL 1200 and 750 use state-of-the-art control technology. Siemens 828D with Shopmill and Fanuc 0i-MF with Manual Guide i are the latest products on the market and provide optimum CNC control experiences for both operators and programmers.



SIEMENS 828D

- SHOPMILL dialog programming
- USB interface
- Network drive / Ethernet
- TFT colour monitor 10.4"
- 3D simulation

[Options]

- Tool magazine with 40 stations
- Tool holder BT40, HSK-A63, ISO 40 DIN 69871/69872
- 4th axis
- Glass scales in all axes
- Handwheel
- Alarm status lamp
- Control cabinet cooling unit
- Automatic tool measuring

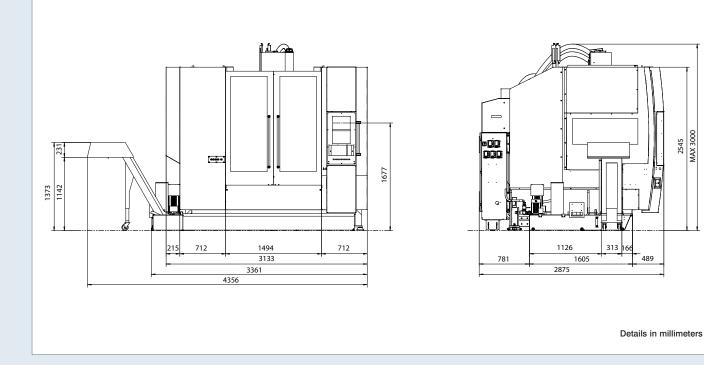


FANUC 0i-MF

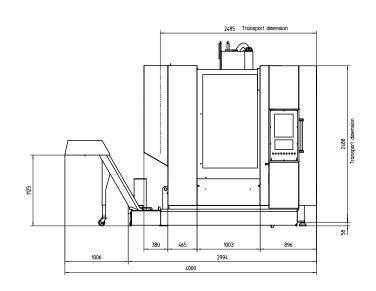
- Manual Guide i dialog programming
- USB interface
- Network drive / Ethernet
- PCMCIA slot
- Colour monitor
- 3D simulation
- Coolant and air through the spindle
- Bandpass filters with high pressure pumps
- Chip flushing
- Coolant gun
- Integrated hydraulics unit for clamping systems
- Oil mist separator
- Automatic doors
- Chip conveyor

[Installation plans]

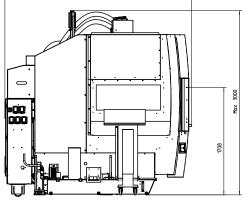
Installation plan EMCOMILL 1200



Installation plan EMCOMILL 750



2970 Transport dimension



Details in millimeters

MAX 3000

2545

489

[Technical data]



Work area EMCOMILL 750 EMCOMILL 1200 Travel in X - axis 750 mm (29.5°) 1200 mm (47.2°) Travel in X - axis 550 mm (21.6°) 600 mm (32.6°) Travel in X - axis 500 mm (19.7°) 500 mm (19.7°) Min /max. motor spindle nose-table distance 70 / 570 mm (2.7 / 22.4°) 70 / 570 mm (2.7 / 22.4°) Table Table dimensions length / width 900 / 630 mm (35.4 / 24.8°) 1300 / 630 mm (35.2 / 24.4°) Table dimensions length / width 900 / 630 mm (35.4 / 24.8°) 1300 / 630 mm (27.7 / 22.4°) 70 / 570 mm (2.7 / 22.4°) Table dimensions length / width 900 / 630 mm (35.4 / 24.8°) 1300 / 630 mm (35.2 / 24.8°) 1300 / 630 mm (35.4 / 24.8°) Table dimensions length / width 900 / 630 mm (35.4 / 24.8°) 1300 / 630 mm (37.1°) 790 mm (2.7 / 22.4°) Table dimensions length / width 900 / 630 mm (35.4 / 24.8°) 1300 / 630 mm (31.1°) 1300 / 630 mm (31.1°) Max table load 800 kg (1763.68 lb) 100 km (73.8 lt/16.8 100 km (73.8 lt/16.8 Spindle motor power (S6) 15 KW (20.1 hp) 15 KW (20.1 hp) 15 KW (20.1 hp) Tool holder (DN 69871) ISO 40 (B140, HSK-A63) ISO40 (B140, HSK-A			
Travel in Y - axis 550 mm (21.6) 600 mm (23.6) Travel in Z - axis 500 mm (19.7) 500 mm (23.6) Min, max. motor spindle nose-table distance T0 / 570 mm (2.7 / 22.4') 70 / 570 mm (2.7 / 22.4') Table Table dimensions length / width 900 / 630 mm (35.4 / 24.8') 1300 / 630 mm (51.2 / 24.8') Table dimensions length / width 900 / 630 mm (35.4 / 24.8') 1300 / 630 mm (51.2 / 24.8') Table dimensions length / width 900 / 630 mm (31.4 / 24.8') 1500 kg (3306.93 lb) Max. table load 800 kg (1763.66 lb) 1500 kg (3306.93 lb) Distance table surface / floor 790 mm (31.1') 790 mm (31.1') Main spindle (mechanical spindle) 50 - 10000 rpm 50 - 10000 rpm Spindle motor power (56) 15 KW (20.1 hp) 15 KW (20.1 hp) Torque (56) 15 KW (20.1 hp) 15 KW (20.1 hp) Torque (56) 15 KW (20.1 hp) 15 KW (20.1 hp) Torque (56) 15 KW (20.1 hp) 15 KW (20.1 hp) Torque (56) 15 KW (20.1 hp) 15 KW (20.1 hp) Torque (56) 15 KW (20.1 hp) 10 Nm (73.8 ft/bs) Torque (56) 10 Nm (73.8 ft/bs) 10 Nm (73.8 ft/bs) Spindle	Work area	EMCOMILL 750	EMCOMILL 1200
Travel in Z - axis 500 mm (19.7) 500 mm (19.7) Min, max. motor spindle nose-table distance 100 / 600 mm (3.9 / 23.6') 100 / 600 mm (3.9 / 23.6') Min, max. motor spindle nose-table distance 70 / 570 mm (2.7 / 22.4') 70 / 570 mm (2.7 / 22.4') Table Table dimensions length / width 900 / 630 mm (35.4 / 24.8') 1300 / 630 mm (51.2 / 24.8') Figuoves: number, width, spacing 5 x 18 x 125 mm (0.2 x 0.71 x 4.92') 5 x 18 x 125 mm (0.2 x 0.71 x 4.92') Max. table load 800 kg (1763.68 lb) 1500 kg (3306.93 lb) 100 Nm (73.8 fl/bs) Distance table surface / floor 790 mm (31.1') 790 mm (31.1') Min spindle (metchanical spindle) Speed range 50 - 10000 rpm 50 - 10000 rpm 50 - 10000 rpm Torque (56) 15 KW (20.1 hp) 15 KW (20.1 hp) 15 KW (20.1 hp) Tod holder (DIN 69871) UsO 40 (E140, HSK-A63) 1500 kg (26.8 hp) 1500 kg (26.8 hp) Spindle motor power S1 / S6 20 kW (26.8 hp) 20 kW (26.8 hp) 150 kg (40.9 KK-A63) Spindle motor power S1 / S6 20 kW (26.8 hp) 20 kW (26.8 hp) 150 kg (40.9 KK-A63) Spindle motor power S1 / S6 20 kW (26.8 hp)	Travel in X - axis	750 mm (29.5")	1200 mm (47.2")
Min./max. motor spindle nose-table distance 100 / 600 mm (3 9 / 23 6') 100 / 600 mm (3 9 / 23 6') Min./max. motor spindle nose-table distance 70 / 570 mm (2.7 / 22 4') 70 / 570 mm (2.7 / 22 4') Table Table Table Table Table dimensions length / width 900 / 630 nm (35.4 / 24.8') 1300 / 630 mm (51.2 / 24.8') Max. table load 800 kg (1763.68 lb) 1500 kg (3306.93 lb) Main spindle (mechanical spindle) 730 mm (31.1') 790 mm (31.1') Main spindle (mechanical spindle) 50 - 10000 rpm 50 - 10000 rpm Torque (56) 100 km (73.8 ft/bs) 100 km (73.8 ft/bs) Spindle motor power (S6) 15 kW (20.1 hp) 15 kW (20.1 hp) Torque (58) 100 Nm (73.8 ft/bs) 100 Nm (73.8 ft/bs) Orive Direct drive Direct drive Main spindle (motor spindle) 50 - 15000 rpm 50 - 15000 rpm Speed range 50 - 15000 rpm 50 - 15000 rpm Torque S6 100 Nm (73.8 ft/bs) 100 Nm (73.8 ft/bs) Spindle motor power S1 / S6 20 kW (28.8 hp) 20 kW (28.8 hp) Tool change functions 30 (40)	Travel in Y - axis	550 mm (21.6")	600 mm (23.6")
Min. max. motor spindle nose-table distance 70 / 570 mm (2.7 / 22.4") 70 / 570 mm (2.7 / 22.4") Table	Travel in Z - axis	500 mm (19.7")	500 mm (19.7")
TableImage: Constraint of the second se	Min./max. motor spindle nose-table distance	100 / 600 mm (3.9 / 23.6")	100 / 600 mm (3.9 /23.6")
Table dimensions length / width 900 / 630 mm (35.4 / 24.8') 1300 / 630 mm (51.2 / 24.8') T-grooves: number, width, spacing 5 x 18 x 125 mm (0.2 x 0.71 x 4.92') 5 x 18 x 125 mm (0.2 x 0.71 x 4.92') Max. table load 800 kg (1763.68 lb) 1500 kg (3306.93 lb) Distance table surface / floor 790 mm (31.1') 790 mm (31.1') Main spindle (mechanical spindle) 50 - 10000 rpm 50 - 10000 rpm Speed range 50 - 10000 rpm 50 - 10000 rpm Torque (56) 15 KW (20.1 hp) 15 KW (20.1 hp) Tool holder (DIN 69871) ISO40 (B140, HSK-A63) ISO40 (B140, HSK-A63) Drive Direct drive Direct drive Torque (56) Speed range 50 - 15000 rpm 50 - 15000 rpm 50 - 15000 rpm Torque S6 100 Nm (73.8 ft/lbs) 100 Nm (73.8 ft/lbs) 20 kW (26.8 hp) Speed range 50 - 15000 rpm 50 - 15000 rpm 50 - 15000 rpm Torque S6 100 Nm (73.8 ft/lbs) 100 Nm (73.8 ft/lbs) 20 kW (26.8 hp) Spindle motor power S1 / S6 20 kW (26.8 hp) 20 kW (26.8 hp) 20 kW (26.8 hp) Tool change 30 (40) </td <td>Min./max. motor spindle nose-table distance</td> <td>70 / 570 mm (2.7 / 22.4")</td> <td>70 / 570 mm (2.7 /22.4")</td>	Min./max. motor spindle nose-table distance	70 / 570 mm (2.7 / 22.4")	70 / 570 mm (2.7 /22.4")
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Distance table surface / floor 790 mm (31.1°) 790 mm (31.1°) Main spindle (mechanical spindle) 50 – 10000 rpm 50 – 10000 rpm Torque (S6) 100 Nm (73.8 ft/lbs) 100 Nm (73.8 ft/lbs) Spindle motor power (S6) 15 kW (20.1 hp) 15 kW (20.1 hp) Tordue (IN 69871) ISO40 (BT40, HSK-A63) ISO40 (BT40, HSK-A63) Drive Direct drive Direct drive Main spindle (motor spindle) 50 – 15000 rpm 50 – 15000 rpm Speed range 50 – 15000 rpm 50 – 15000 rpm Torque S6 100 Nm (73.8 ft/lbs) 100 Nm (73.8 ft/lbs) Spindle motor power S1 / S6 20 kW (26.8 hp) 20 kW (26.8 hp) Tool change 50 – 15000 rpm 50 – 15000 rpm Tool change (DIN 69871) ISO BT40, HSK-A63 ISO BT40, HSK-A63 Tool change 50 (40.1 HSK) 20 kW (26.8 hp) 20 kW (26.8 hp) Tool change 30 (40) 30 (40) 30 (40) Number of tool stations 30 (40) 20 kW (26.8 hp) 250 mm (8.7) Max. tool diameter 80 mm (3.1°) 80 mm (3.1°) 80 mm (3.1°) <td>T-grooves: number, width, spacing</td> <td>5 x 18 x 125 mm (0.2 x 0.71 x 4.92")</td> <td>5 x 18 x 125 mm (0.2 x 0.71 x 4.92")</td>	T-grooves: number, width, spacing	5 x 18 x 125 mm (0.2 x 0.71 x 4.92")	5 x 18 x 125 mm (0.2 x 0.71 x 4.92")
Main spindle (mechanical spindle) Survey Surve	Max. table load	800 kg (1763.68 lb)	1500 kg (3306.93 lb)
Speed range 50 - 10000 rpm 50 - 10000 rpm Torque (S6) 100 Nm (73.8 ft/lbs) 100 Nm (73.8 ft/lbs) Spindle motor power (S6) 15 kW (20.1 hp) 15 kW (20.1 hp) Tool holder (DIN 69871) ISO40 (BT40, HSK-A63) ISO40 (BT40, HSK-A63) Drive Direct drive Direct drive Main spindle (motor spindle) 50 - 15000 rpm 50 - 15000 rpm Speed range 50 - 15000 rpm 50 - 15000 rpm Torque S6 100 Nm (73.8 ft/lbs) 100 Nm (73.8 ft/lbs) Spindle motor power S1 / S6 20 kW (26.8 hp) 20 kW (26.8 hp) Tool holder (DIN 69871) ISO BT40, HSK-A63 ISO BT40, HSK-A63 Tool change 50 (40) 30 (40) 30 (40) Number of tool stations 30 (40) 30 (40) 20 kW (26.8 hp) Tool change time (tool / tool) 2 sec 2 sec 2 sec Max. tool diameter 80 mm (3.1°) 80 mm (3.1°) Max tool diameter (with empty station) 125 mm (4.9°) Max. tool length 250 mm (9.8°) 250 mm (9.8°) 250 mm (9.8°) Ases	Distance table surface / floor	790 mm (31.1")	790 mm (31.1")
Torque (S6) 100 Nm (73.8 ft/lbs) 100 Nm (73.8 ft/lbs) Spindle motor power (S6) 15 kW (20.1 hp) 15 kW (20.1 hp) Tool holder (DIN 69871) ISO40 (BT40, HSK-A63) ISO40 (BT40, HSK-A63) Drive Direct drive Direct drive Main spindle (motor spindle) 50 - 15000 rpm 50 - 15000 rpm Speed range 50 - 15000 rpm 50 - 15000 rpm Torque S6 100 Nm (73.8 ft/lbs) 100 Nm (73.8 ft/lbs) Spindle motor power S1 / S6 20 kW (26.8 hp) 20 kW (26.8 hp) Tool change Tool change Tool change Number of tool stations 30 (40) 30 (40) Tool change time (tool / tool) 2 sec 2 sec Max. tool diameter 80 mm (3.1") 80 mm (3.1") Max. tool diameter (with empty station) 125 mm (4.9") 125 mm (4.9") Max. tool weight 2 kg (17.6 hp) 8 kg (17.6 hp) Aese	Main spindle (mechanical spindle)		
Spindle motor power (S6) 15 kW (20.1 hp) 15 kW (20.1 hp) Tool holder (DIN 69871) ISO40 (BT40, HSK-A63) ISO40 (BT40, HSK-A63) Drive Direct drive Direct drive Main spindle (motor spindle)	Speed range	50 – 10000 rpm	50 – 10000 rpm
Tool holder (DIN 69871) ISO40 (BT40, HSK-A63) ISO40 (BT40, HSK-A63) Drive Direct drive Direct drive Main spindle (motor spindle) 50 – 15000 rpm 50 – 15000 rpm Speed range 50 – 15000 rpm 50 – 15000 rpm Torque S6 100 Nm (73.8 ft/lbs) 100 Nm (73.8 ft/lbs) Spindle motor power S1 / S6 20 kW (26.8 hp) 20 kW (26.8 hp) Tool holder (DIN 69871) ISO BT40, HSK-A63 ISO BT40, HSK-A63 Tool change Number of tool stations 30 (40) 30 (40) Tool change time (tool / tool) 2 sec 2 sec 2 sec Max. tool diameter 80 mm (3.1°) 80 mm (3.1°) Max tool diameter (with empty station) 125 mm (4.9°) Max. tool weight 8 kg (17.6 hp) 8 kg (17.6 hp) 8 kg (17.6 hp) Axes Teact of torce in X, Y, Z 30 m/min (1181.1 ipm) 30 m/s² Feed force in X, Y, Z 30 m/min (1181.1 ipm) 30 m/s² 300 N (s² General data T T 300 mm (118.1°) 3000 m (s? Power supply 20 kVA 20 kVA 20 kVA	Torque (S6)	100 Nm (73.8 ft/lbs)	100 Nm (73.8 ft/lbs)
Drive Direct drive Direct drive Main spindle (motor spindle)	Spindle motor power (S6)	15 kW (20.1 hp)	15 kW (20.1 hp)
Main spindle (motor spindle) Speed range 50 – 15000 rpm 50 – 15000 rpm Torque S6 100 Nm (73.8 ft/lbs) 100 Nm (73.8 ft/lbs) Spindle motor power S1 / S6 20 kW (26.8 hp) 20 kW (26.8 hp) Tool holder (DIN 69871) ISO BT40, HSK-A63 ISO BT40, HSK-A63 Tool change 50 – 15000 rpm 2 sec 2 sec Number of tool stations 30 (40) 30 (40) 30 (40) Tool change time (tool / tool) 2 sec 2 sec 2 sec Max. tool diameter 80 mm (3.1") 80 mm (3.1") 80 mm (3.1") Max. tool length 250 mm (9.8") 125 mm (4.9") 125 mm (4.9") Max. tool veight 8 kg (17.6 hp) 8 kg (17.6 hp) Axes Feed force in X, Y, Z 30 m/min (1181.1 ipm) 30 m/min (1181.1 ipm) Axis acceleration in X, Y, Z 30 m/s² 3 m/s² 3 m/s² General dat 20 kVA 20 kVA 20 kVA Overall height 3000 mm (118.1") 3000 mm (118.1") 3000 mm (13.2 x113") Installation area W x D (without chip corveyor, with tank) <t< td=""><td>Tool holder (DIN 69871)</td><td>ISO40 (BT40, HSK-A63)</td><td>ISO40 (BT40, HSK-A63)</td></t<>	Tool holder (DIN 69871)	ISO40 (BT40, HSK-A63)	ISO40 (BT40, HSK-A63)
Speed range 50 – 15000 rpm 50 – 15000 rpm Torque S6 100 Nm (73.8 ft/lbs) 100 Nm (73.8 ft/lbs) Spindle motor power S1 / S6 20 kW (26.8 hp) 20 kW (26.8 hp) Tool holder (DIN 69871) ISO BT40, HSK-A63 ISO BT40, HSK-A63 Tool change	Drive	Direct drive	Direct drive
Torque S6 100 Nm (73.8 ft/lbs) 100 Nm (73.8 ft/lbs) Spindle motor power S1 / S6 20 kW (26.8 hp) 20 kW (26.8 hp) Tool holder (DIN 69871) ISO BT40, HSK-A63 ISO BT40, HSK-A63 Tool change So (40) Number of tool stations 30 (40) 30 (40) Tool change time (tool / tool) 2 sec 2 sec Max. tool diameter 80 mm (3.1") 80 mm (3.1") Max. tool diameter (with empty station) 125 mm (4.9") 125 mm (4.9") Max. tool length 250 rmm (9.8") 250 rmm (9.8") Max. tool weight 8 bg (17.6 hp) 8 kg (17.6 hp) Axes S000 N (1124 lbs) Feed force in X, Y, Z 30 m/min (1181.1 ipm) 30 m/min (1181.1 ipm) Feed force in X, Y, Z 30 m/min (20 kVA S000 N (1124 lbs) Axis acceleration in X, Y, Z 30 m/s² 3 m/s² General data 20 kVA Power supply 20 kVA 20 kVA 20 kVA Overall height 3000 mm (118.1") 3000 mm (118.1") 300	Main spindle (motor spindle)		
Spindle motor power S1 / S6 20 kW (26.8 hp) 20 kW (26.8 hp) Tool holder (DIN 69871) ISO BT40, HSK-A63 ISO BT40, HSK-A63 Tool change	Speed range	50 – 15000 rpm	50 – 15000 rpm
Tool holder (DIN 69871) ISO BT40, HSK-A63 ISO BT40, HSK-A63 Tool change ISO brance ISO BT40, HSK-A63 Number of tool stations 30 (40) 30 (40) Tool change time (tool / tool) 2 sec 2 sec Max. tool diameter 80 mm (3.1") 80 mm (3.1") Max. tool diameter (with empty station) 125 mm (4.9") 250 mm (9.8") Max. tool length 8 kg (17.6 hp) 8 kg (17.6 hp) Max. tool weight 8 kg (17.6 hp) 8 kg (17.6 hp) Axes Sooo N (1124 lbs) 5000 N (1124 lbs) Axis acceleration in X, Y, Z 30 m/min (1181.1 ipm) 30 m/min (1181.1 ipm) Feed force in X, Y, Z 3000 N (1124 lbs) 5000 N (1124 lbs) Axis acceleration in X, Y, Z 3000 mm (118.1") 3000 mm (118.1") Power supply 20 kVA 20 kVA Overall height 3000 mm (118.1") 3000 mm (118.1") Installation area W × D (without chip conveyor, with tank) 2994 x 2925 mm (117 x 115.2") 3361 x 2875 mm (132 x 113") Total weight of the machine 9000 kg (19841.6 lbs) 10450 kg (23038 lbs)	Torque S6	100 Nm (73.8 ft/lbs)	100 Nm (73.8 ft/lbs)
Tool change 30 (40) 30 (40) Number of tool stations 30 (40) 30 (40) Tool change time (tool / tool) 2 sec 2 sec Max. tool diameter 80 mm (3.1") 80 mm (3.1") Max. tool diameter (with empty station) 125 mm (4.9") 125 mm (4.9") Max. tool length 250 mm (9.8") 250 mm (9.8") Max. tool weight 8 kg (17.6 hp) 8 kg (17.6 hp) Axes	Spindle motor power S1 / S6	20 kW (26.8 hp)	20 kW (26.8 hp)
Number of tool stations 30 (40) 30 (40) Tool change time (tool / tool) 2 sec 2 sec Max. tool diameter 80 mm (3.1") 80 mm (3.1") Max. tool diameter (with empty station) 125 mm (4.9") 125 mm (4.9") Max. tool length 250 mm (9.8") 250 mm (9.8") Max. tool weight 8 kg (17.6 hp) 8 kg (17.6 hp) Axes T Sooo N (1181.1 ipm) 30 m/min (1181.1 ipm) Feed force in X, Y, Z 30 m/min (1181.1 ipm) 30 m/min (1181.1 ipm) Feed force in X, Y, Z 30 m/s² 30 m/s² General data T T Power supply 20 kVA 20 kVA Overall height 3000 mm (118.1") 3000 mm (118.1") Installation area W × D (without chip conveyor, with tank) 2994 x 2925 mm (117 x 115.2") 3361 x 2875 mm (132 x 113") Total weight of the machine 9000 kg (19841.6 lbs) 10450 kg (23038 lbs) 10450 kg (23038 lbs)	Tool holder (DIN 69871)	ISO BT40, HSK-A63	ISO BT40, HSK-A63
Tool change time (tool / tool) 2 sec 2 sec Max. tool diameter 80 mm (3.1") 80 mm (3.1") Max. tool diameter (with empty station) 125 mm (4.9") 125 mm (4.9") Max. tool length 250 mm (9.8") 250 mm (9.8") Max. tool weight 8 kg (17.6 hp) 8 kg (17.6 hp) Axes	Tool change		
Max. tool diameter 80 mm (3.1") 80 mm (3.1") Max. tool diameter (with empty station) 125 mm (4.9") 125 mm (4.9") Max. tool length 250 mm (9.8") 250 mm (9.8") Max. tool weight 8 kg (17.6 hp) 8 kg (17.6 hp) Axes Teapid motion speed in X, Y, Z 30 m/min (1181.1 ipm) 30 m/min (1181.1 ipm) Feed force in X, Y, Z 5000 N (1124 lbs) 5000 N (1124 lbs) 5000 N (1124 lbs) Axis acceleration in X, Y, Z 3 m/s² 3 m/s² 3 m/s² General data Tower supply 20 kVA 20 kVA 20 kVA Overall height 3000 mm (118.1") 3000 mm (118.1") 3000 mm (118.1") 3010 mm (118.1") Installation area W × D (without chip conveyor, with tank) 2994 x 2925 mm (117 x 115.2") 3361 x 2875 mm (132 x 113") Total weight of the machine 9000 kg (19841.6 lbs) 10450 kg (23038 lbs) 10450 kg (23038 lbs)	Number of tool stations	30 (40)	30 (40)
Max. tool diameter (with empty station) 125 mm (4.9") 125 mm (4.9") Max. tool length 250 mm (9.8") 250 mm (9.8") Max. tool weight 8 kg (17.6 hp) 8 kg (17.6 hp) Axes Image: Comparison of the machine 30 m/min (1181.1 ipm) 30 m/min (1181.1 ipm) Rapid motion speed in X, Y, Z 30 m/min (1181.1 ipm) 30 m/min (1181.1 ipm) 30 m/min (1181.1 ipm) Feed force in X, Y, Z 30 m/s² 5000 N (1124 lbs) 5000 N (1124 lbs) 5000 N (1124 lbs) Axis acceleration in X, Y, Z 3 m/s² 3 m/s² 3 m/s² 3 m/s² General data Image: Comparison of the machine 20 kVA 20 kVA 20 kVA Overall height 3000 mm (118.1") 3000 mm (118.1") 3000 mm (118.1") 3000 mm (118.1") Installation area W × D (without chip conveyor, with tank) 2994 x 2925 mm (117 x 115.2") 3361 x 2875 mm (132 x 113") Total weight of the machine 9000 kg (19841.6 lbs) 10450 kg (23038 lbs)	Tool change time (tool / tool)	2 sec	2 sec
Max. tool length 250 mm (9.8") 250 mm (9.8") Max. tool weight 8 kg (17.6 hp) 8 kg (17.6 hp) Axes Image: State of the state o	Max. tool diameter	80 mm (3.1")	80 mm (3.1")
Max. tool weight 8 kg (17.6 hp) 8 kg (17.6 hp) Axes Stand motion speed in X, Y, Z 30 m/min (1181.1 ipm) 30 m/min (1181.1 ipm) Feed force in X, Y, Z 5000 N (1124 lbs) 5000 N (1124 lbs) 5000 N (1124 lbs) Axis acceleration in X, Y, Z 3 m/s² 3 m/s² 3 m/s² General data 20 kVA 20 kVA 20 kVA Overall height 3000 mm (118.1") 3000 mm (118.1") 3000 mm (118.1") Installation area W × D (without chip conveyor, with tank) 2994 x 2925 mm (117 x 115.2") 3361 x 2875 mm (132 x 113") Total weight of the machine 9000 kg (19841.6 lbs) 10450 kg (23038 lbs)	Max. tool diameter (with empty station)	125 mm (4.9")	125 mm (4.9")
Axes 30 m/min (1181.1 ipm) 30 m/min (1181.1 ipm) Rapid motion speed in X, Y, Z 30 m/min (1181.1 ipm) 30 m/min (1181.1 ipm) Feed force in X, Y, Z 5000 N (1124 lbs) 5000 N (1124 lbs) Axis acceleration in X, Y, Z 3 m/s² 3 m/s² General data 20 kVA 20 kVA Overall height 3000 mm (118.1") 3000 mm (118.1") Installation area W × D (without chip conveyor, with tank) 2994 x 2925 mm (117 x 115.2") 3361 x 2875 mm (132 x 113") Total weight of the machine 9000 kg (19841.6 lbs) 10450 kg (23038 lbs)	Max. tool length	250 mm (9.8")	250 mm (9.8")
Rapid motion speed in X, Y, Z 30 m/min (1181.1 ipm) 30 m/min (1181.1 ipm) Feed force in X, Y, Z 5000 N (1124 lbs) 5000 N (1124 lbs) Axis acceleration in X, Y, Z 3 m/s ² 3 m/s ² General data 20 kVA 20 kVA Overall height 3000 mm (118.1") 3000 mm (118.1") Installation area W × D (without chip conveyor, with tank) 2994 x 2925 mm (117 x 115.2") 3361 x 2875 mm (132 x 113") Total weight of the machine 9000 kg (19841.6 lbs) 10450 kg (23038 lbs)	Max. tool weight	8 kg (17.6 hp)	8 kg (17.6 hp)
Feed force in X, Y, Z 5000 N (1124 lbs) 5000 N (1124 lbs) Axis acceleration in X, Y, Z 3 m/s ² 3 m/s ² General data 20 kVA 20 kVA Power supply 20 kVA 20 kVA Overall height 3000 mm (118.1") 3000 mm (118.1") Installation area W × D (without chip conveyor, with tank) 2994 x 2925 mm (117 x 115.2") 3361 x 2875 mm (132 x 113") Total weight of the machine 9000 kg (19841.6 lbs) 10450 kg (23038 lbs)	Axes		
Axis acceleration in X, Y, Z 3 m/s ² 3 m/s ² General data 20 kVA 20 kVA 20 kVA Power supply 20 kVA 20 kVA 20 kVA Overall height 3000 mm (118.1") 3000 mm (118.1") 3000 mm (118.1") Installation area W × D (without chip conveyor, with tank) 2994 x 2925 mm (117 x 115.2") 3361 x 2875 mm (132 x 113") Total weight of the machine 9000 kg (19841.6 lbs) 10450 kg (23038 lbs)	Rapid motion speed in X, Y, Z	30 m/min (1181.1 ipm)	30 m/min (1181.1 ipm)
General data 20 kVA 20 kVA Power supply 20 kVA 20 kVA Overall height 3000 mm (118.1") 3000 mm (118.1") Installation area W × D (without chip conveyor, with tank) 2994 x 2925 mm (117 x 115.2") 3361 x 2875 mm (132 x 113") Total weight of the machine 9000 kg (19841.6 lbs) 10450 kg (23038 lbs)	Feed force in X, Y, Z	5000 N (1124 lbs)	5000 N (1124 lbs)
Power supply 20 kVA 20 kVA Overall height 3000 mm (118.1") 3000 mm (118.1") Installation area W × D (without chip conveyor, with tank) 2994 x 2925 mm (117 x 115.2") 3361 x 2875 mm (132 x 113") Total weight of the machine 9000 kg (19841.6 lbs) 10450 kg (23038 lbs)	Axis acceleration in X, Y, Z	3 m/s ²	3 m/s ²
Overall height 3000 mm (118.1") 3000 mm (118.1") Installation area W × D (without chip conveyor, with tank) 2994 x 2925 mm (117 x 115.2") 3361 x 2875 mm (132 x 113") Total weight of the machine 9000 kg (19841.6 lbs) 10450 kg (23038 lbs)	General data		
Installation area W × D (without chip conveyor, with tank) 2994 x 2925 mm (117 x 115.2") 3361 x 2875 mm (132 x 113") Total weight of the machine 9000 kg (19841.6 lbs) 10450 kg (23038 lbs)	Power supply	20 kVA	20 kVA
Total weight of the machine 9000 kg (19841.6 lbs) 10450 kg (23038 lbs)	Overall height	3000 mm (118.1")	3000 mm (118.1")
	Installation area W $ imes$ D (without chip conveyor, with tank)	2994 x 2925 mm (117 x 115.2")	3361 x 2875 mm (132 x 113")
Compressed air required 6 bar 6 bar	Total weight of the machine	9000 kg (19841.6 lbs)	10450 kg (23038 lbs)
	Compressed air required	6 bar	6 bar

