

[That's
E[M]CONOMY:]

emco industrial
training

Designed for your profit

NEW



Not just training: Real action!
CONCEPT TURN 260

CNC training with industrial performance

Concept TURN 260

As a systematic advancement of the CT250, the CT260 convinces by its extreme solid machine bed, a thermosymmetric spindle head, precision spindle bearing, preloaded roller guides in all axes and a fast tool turret. The interchangeable control EMCO WinNC for all current industrial controls completes the machine.

[Work area]

- Straight chip drop
- Excellent ergonomics
- All-round protection against chips
- Large safety glass window in door

[Tool turret]

- 12 stations VDI16 axial
- 6 stations driven on request for milling work
- Synchronized thread cutting

[Main spindle]

- High drive performance
- Thermoresistant construction
- Large speed range
- Bar capacity \varnothing 25 mm
- Hollow clamping device



[Control]

- Latest digital AC control technology
- 21.5" touchscreen
- MOC: integrated PC
- WinNC concept: all standard NC controls on one machine
- Multifunctional handwheel

[Roller guides]

- In X and Z axes
- No backlash
- No wear
- High speed



[Machine base]

- Small installation area
- Large coolant reservoir
- Easy to clean



[Engineering]

Highlights

- PC-controlled CNC turning machine
- Extremely solid machine base, top thermostability
- Highest precision
- Compact construction
- USB and ethernet interface integrated
- Servo-motor technology in all axes
- New drive generation from Siemens
- Siemens Safety Integrated
- Absolute encoder (no referencing necessary)
- Field bus system integrated with PROFINET
- Made in the Heart of Europe



[Interchangeable Controls]

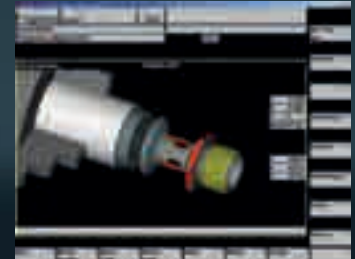
The concept of the interchangeable control unit, which can be fitted to all Concept machines, is unique. It enables the user to be trained on all CNC industry controls that are common on the market needing just one machine. The result: The CNC technicians can be applied more flexibly, which provides a significant competitive advantage for both the company and employees.



The change to a different control system is carried out within a minute by calling up the respective software



WinNC for Fanuc 31i-B including Manual Guide i as an expansion to the known WinNC controls



Simulation suitable for training using Win3D View

[Easy2control: New operating concept]

Optional it is possible to equip the machine with the latest Software of the interchangeable control, with which control specific and machine keyboards of the WinNC can be displayed on a 16:9 Full-HD screen – Easy2control. The different Panels for machine, control and quick access can be switched via tabs. The buttons and rotary knobs can either be operated by using the mouse or in case a Full HD touchscreen is used directly on the keys and switches on the monitor. To operate the software on the Concept machine a license dongle and a small machine control panel - „Easy2operate“ – is required.



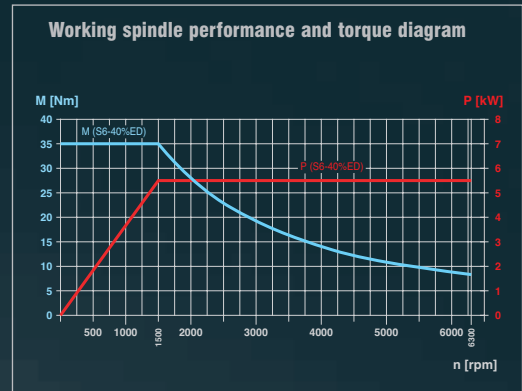
Easy2control with Easy2operate

[Engineering]

Option

- Bar loader
- Chip conveyor
- 3-jaw chuck Ø 95 mm (3.7")
- Collet chuck 385 E
- Automatic door
- Integration into FMS and CIM systems using DNC and robotic interface
- Attractive tool packages for the TC and TCM versions
- Coolant equipment

Performance



[Workpieces]

Engraving using
cylinder interpolation

Contour milled using
cylinder interpolation

Polygon - milled by
driven tool (axial)

Tapped or turned
inside thread



Fitting
(Stainless steel)

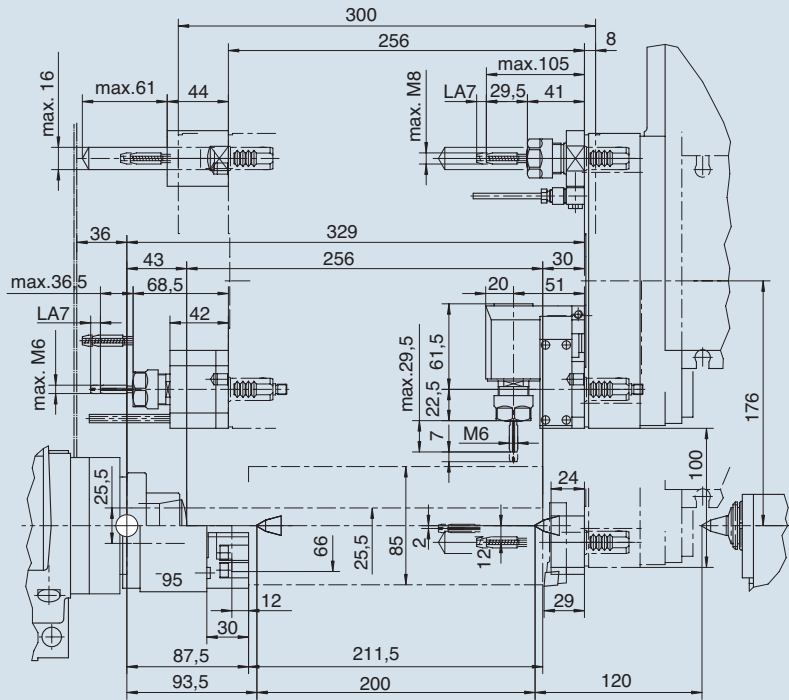


Valve cap
(Stainless steel)



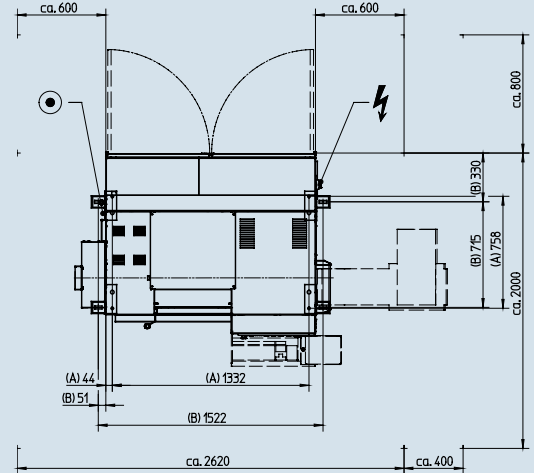
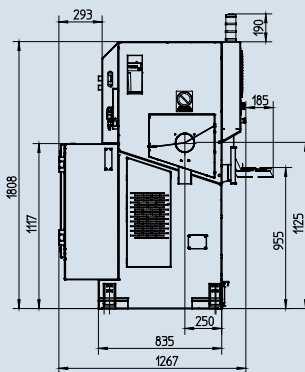
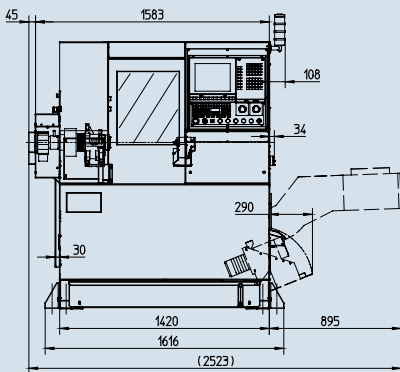
Plug
(Stainless steel)

Work area



Specifications in millimeters

Machine layout



Specifications in millimeters

[Technical data]

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CONCEPT TURN 260

Work area	
Swing over bed	Ø 250 mm (9.8")
Swing over cross-slide	Ø 85 mm (3.3")
Distance between centres	405 mm (16.0")
Maximum turning diameter	Ø 85 mm (3.3")
Max. part length TC / TCM	270 / 255 mm (10.6 / 10")
Maximum bar diameter	Ø 25.5 mm (1.0")
Travel	
Travel in X	100 mm (4.0")
Travel in Z	300 mm (11.8")
Main spindle	
Speed range	60 – 6300 rpm
Spindle torque	35 Nm (25.8 ft/lbs)
Spindle nose	Ø 70 h5
Spindle bore	Ø 30 mm (1.1")
C axis (Option)	
Circular axis resolution	0.01°
Rapid speed	100 rpm
Main motor	
Drive performance	5.5 kW (7.4 hp)
Tool turret	
Number of tool positions	12
VDI shaft (DIN 69880)	16
Tool cross section	12 x 12 mm (0.4 x 0.4")
Shank diameter for boring bars	Ø 16 mm (0.6")
Turret indexing time	1.0 sec.
Driven tools (option)	
Number of tool stations	0 or 6
Power	1.2 kW (1.6 hp)
Torque	4 Nm (3.0 ft/lbs)
Speed range	200 – 6000 rpm
Feed drives	
Rapid speed X / Z	15 / 24 m/min
Feed force in the X / Z axis	3000 / 3500 N
Acceleration time	0.1 sec
Position variation Ps (according to VDI 3441) X / Z	0,003 / 0,004 mm (0.00011811 / 0.00015748")

Tailstock

Quill stroke	120 mm (4.7")
Quill diameter (with integrated live centre)	Ø 35 mm (1.3")
Quill thrust	2500 N

Coolant system

Tank volume	140 litres
Pump performance	0.57 kW (00.8 hp)

Dimensions

Height of centres above floor	1131 mm (44.5")
Machine height	1820 mm (71.6")
Machine installation area (W x D)	1700 x 1270 mm (67.0 x 50.0")
Total weight	1100 kg (2425.1 lb)

EMCO WinNC controls

SIEMENS Operate 840D sl / 828D
SIEMENS 810D/840D
FANUC Series 31i
FAGOR 8055 TC

EMCO short bar loader LM800

Bar length	100 – 600 mm (3.9 – 23,6")
Bar diameter	6 – 25 mm (0.2 – 1,0")
Material storage	23 bars of 25 mm (1.0") diameter
Length	1200 mm (47.2")
Width	1150 mm (45.3")
Weight approx.	190 kg (418.9 lb)



EN14553 - 10/16 - Technical modifications reserved. Errors and omissions excepted.

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