



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.



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

2 MAIN SPINDLE

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



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





ROLLER GUIDES

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

5 CONTROL

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



6 MACHINE BASE

- Small installation area Large coolant reservoir
- Easy to clean

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

Options

- 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

[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



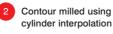
Simple to program using the EMCO WinNC control units



Simulation suitable for training using Win3D View

[Workpieces]

Engraving using cylinder interpolation





[Operating Concept: Easy2control]

The machine is equipped with the Easy2control operating concept. It displays the control-specific keyboards of WinNC controls on a 16:9 Full HD screen. Tabs are used to toggle between the different operator panels for machine, control unit and shortcuts. Operators may use the mouse or their fingers to operate the buttons.

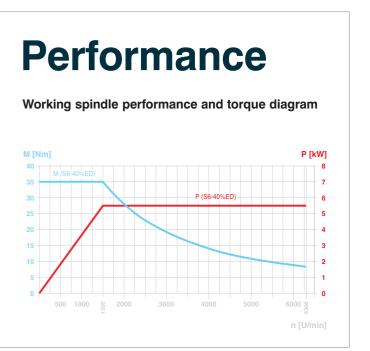








Valve cap (Stainless steel)





Polygon - milled by driven tool (axial)



Tapped or turned inside thread

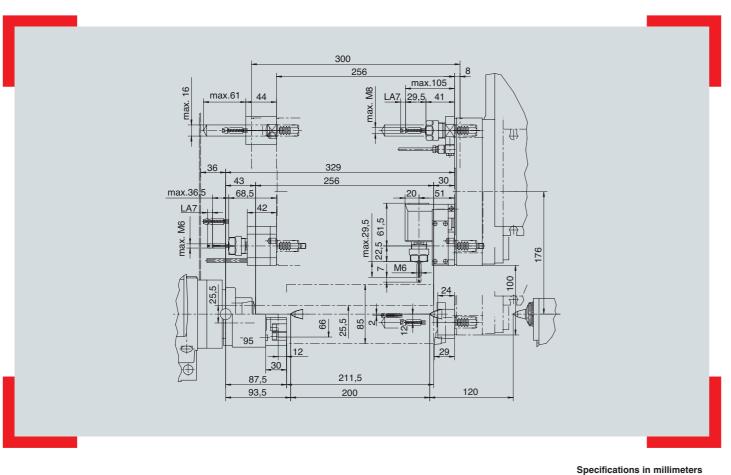


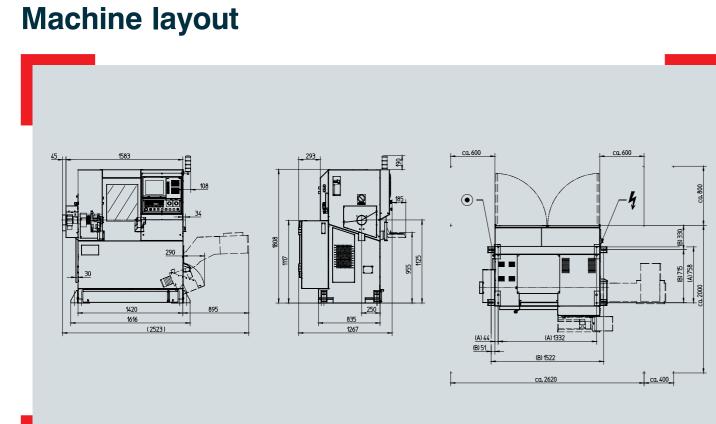




Plug (Stainless steel)

Work area





CONCEPT TURN 260 Technical data

| 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 (0ption) | |
| 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") |

| 1.0 sec. |
|-------------------|
| |
| 1.2 kW (1.6 hp) |
| 4 Nm (3.0 ft/lbs) |
| 200 – 6000 rpm |
| |

| eed drives | |
|--|---|
| apid speed X / Z | 15 / 24 m/min |
| eed force in the X / Z axis | 3000 / 3500 N |
| cceleration time | 0.1 sec |
| osition variation Ps according to VDI 3441) X / Z | 0,003 / 0,004 mm (0.00011811 / 0.00015748" |
| ailstock | |
| uill stroke | 120 mm (4.7") |
| uill diameter (with integrated live centre) | Ø 35 mm (1.3") |
| uill thrust | 2500 N |
| oolant system | |
| ank volume | 140 litres |
| ump performance | 0.57 kW (00.8 hp |
| imensions | |
| eight of centres above floor | 1131 mm (44.5") |
| achine height | 1820 mm (71.6") |
| achine installation area (W x D | 1700 x 1270 mm (67.0 x 50.0") |
| otal weight | 1100 kg (2425.1 lb) |
| | |

EMCO WinNC controls

| SIEMENS Operate 840D sl / 828D | |
|--------------------------------|--|
| ANUC Series 31i | |
| AGOR 8055 TC | |
| | |



