

[Technical Data]



Designed for your profit

CONCEPT TURN 55

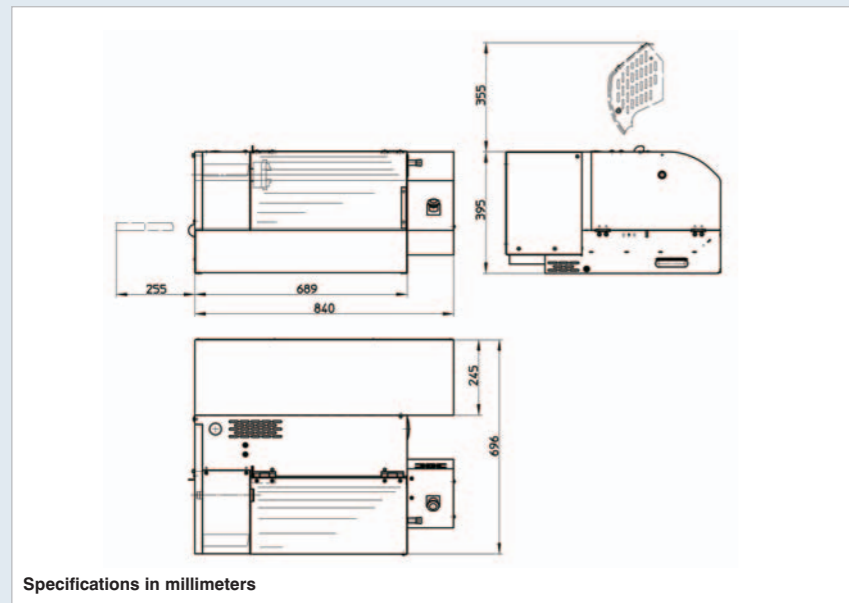
Working area	
Distance between centers	335 mm (13.2")
Swing over bed	130 mm (5.1")
Max. turning diameter	52 mm (2.1")
Max. turning length	215 mm (8.5")
Travel	
Travel in X/Z	48/236 mm (1.9/9.3")
Main spindle	
Spindle bore	16 mm (0.6")
Bearings, front bearing diameter	30 mm (1.2")
Speed range	120 – 4000 rpm
Main drive	
3-phase AC asynchronous motor, power	0,75 kW (1.01 hp)
Feed drives	
X/Z rapid traverse speed	2 m/min (78.7 ipm)
Feed force in the X/Z axes	1000 N (224.8 lbs)
Position dispersion Ps (according to VDI 3441) X/Z	0.008 mm (0.0003")
Tool turret	
Number of tool positions	8
Tool cross-section	12 x 12 mm (0.5 x 0.5")
Shank diameter for boring bars	10 mm (0.4")

Tailstock	
Quill stroke	35 mm (1.4")
Quill diameter	22 mm (0.9")
Dimensions	
Height of centers above floor	320 mm (12.6")
Machine dimensions (L x D x H)	840 x 695 x 400 (33.1 x 27.4 x 15.8")
Total weight	85 kg (187 lb)

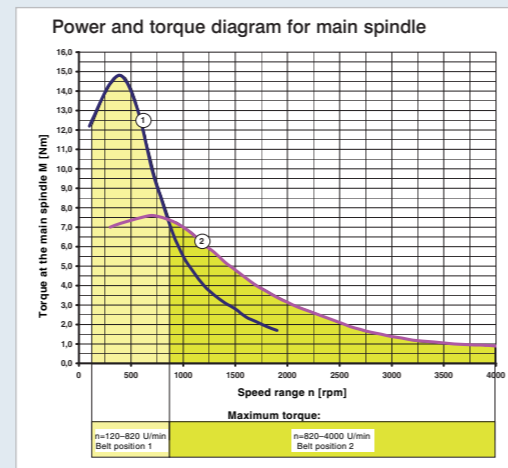
EMCO WinNC controls

Siemens 810D/840D	Siemens 810
Siemens 820	GE FANUC Series 0
GE FANUC Series 21	Emcotronic TM02
FAGOR 8055	CAMConcept

Machine layout



Power

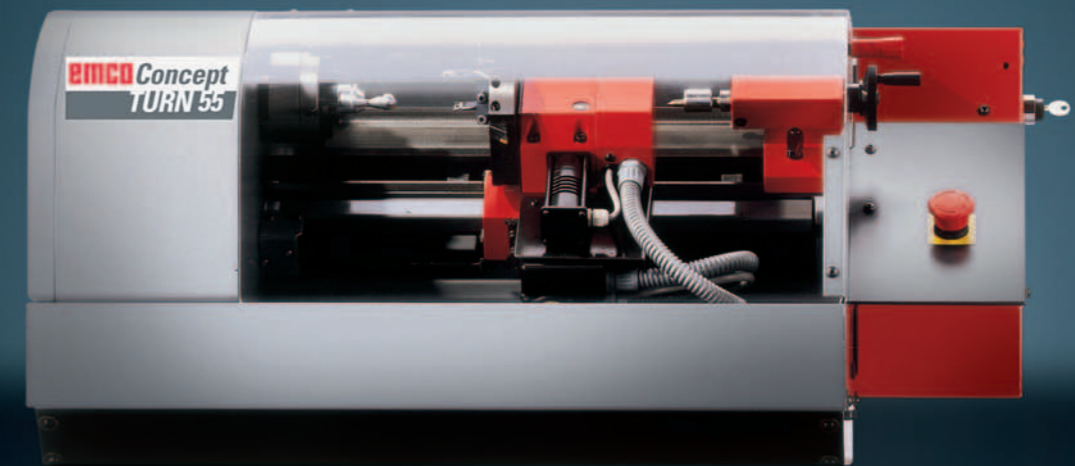


EN4532 - 10/08 - Subject to change. We can accept no liability for printing errors.

[E[M]CONOMY]
means:



Designed for your profit



Small Machine. Big Impact.
CONCEPT TURN 55

CNC training with
industrial performance

Concept TURN 55

The Concept TURN 55 is a PC-controlled 2-axis CNC tabletop lathe conforming to the industry standard in terms of design and function. All the key processes in modern manufacturing can be illustrated using this device and implemented in a practical and realistic way. With appropriate simplification, clear machine design and ease-of-operation, operators will quickly learn how to use it successfully.

[Main spindle]

- Max. speed 4000 rpm
- Clockwise/Counterclockwise spindle rotation
- Spindle bore Ø 16 mm

[Main drive]

- Infinitely adjustable main drive
- 3-phase AC asynchronous motor
- High-resolution axis motors

[Machine base]

- With pull-out drawer
- Additional space for PC tower

[Working area]

- Fully enclosed working area
- Large safety glass window in door
- All-round protection against chips

[Tool turret]

- Disc turret
- 8 stations

[Machine design]

- Industry-standard inclined-bed design
- Core components made from stable cast iron



Round-head bolt



Pin



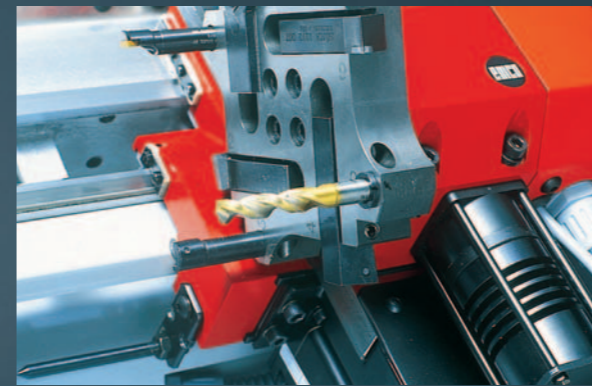
Attachment

[Technical]



Highlights

- The most compact table-top CNC lathe
- Industry-standard inclined-bed design
- High-resolution axis motors
- Clockwise/anticlockwise spindle rotation
- Infinitely adjustable main drive
- Automatic 8-position tool turret
- Automatic referencing
- Made in the Heart of Europe



Options

- Electro-mechanical tailstock
- Robotic interface
- Automatic clamping devices
- Electronic handwheel
- Control keyboard with TFT display
- Machine base with swivel table

[The interchangeable control]

The unique concept of the interchangeable control can be fitted to all Concept machines. In doing so, the user is trained on all CNC industry controls that are common on the market. Up to eight different controls can be installed and taught on one single machine.

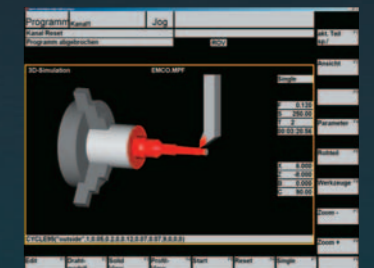
The result: All CNC technicians can be applied more flexibly. And this is a decisive plus: for qualified employees as well as for the business.



The conversion to another control system is carried out within a minute by calling up the respective software and by simply replacing the control specific module



Simple to program using the EMCO WinNC control units



Simulation suitable for training using Win3D-View