**CONCEPT TURN 105**

**Technical data**

**Work area**
- Swing over bed: 180 mm (7.09”)
- Swing over cross slide: 75 mm (2.95”)
- Distance between spindle noses: 236 mm (9.3"")
- Max. turning diameter: 75 mm (2.95”)
- Max. part length: 121 mm (4.76"")
- Max. bar-stock diameter: 20 mm (0.79”)
- Height of centers: 90 mm (3.54")

**Travel**
- Travel in X: 55 mm (2.17”)
- Travel in Z: 172 mm (6.77")

**Main spindle**
- Speed range: 150 - 4000 rpm
- Max. torque: 14 Nm
- Spindle diameter at front bearing: 45 mm (1.77”)
- Spindle bore: 20.5 mm (0.81")

**Main motor**
- Drive power: 1.9 kW / 2.6 hp

**Tool turret**
- No. of tool stations: 8
- Tool cross section: 12 x 12 mm (0.5 x 0.5")
- Shank diameter for boring bars: 16 mm (0.63")
- Turret indexing time (T1/T2/T3=45°/180°/315°) = 1.4 / 3.5 / 5.5 s

**Feed drives**
- Rapid motion speed X-Z: 5 m/min (196.85 ipm)
- Feed force X-Z: 2000 N
- Work feed X-Z: 0 - 5 m/min
- Positioning variation Ps (acc. VDI 3441) in X/Z: 0.0002"

**Tailstock**
- Quill stroke: 120 mm (4.72")
- Quill diameter: 30 mm (1.18")

**Coolant system (option)**
- Tank capacity: 35 l
- Pump power: 0.5 bar
- Flow volume: 15 l/min
- Dimensions
  - Height of center above floor: 267 mm (10.51")
  - Dimensions W x D x H: 1195 x 1100 x 1030 mm (46.89 x 43.69 x 40.51")
  - Total weight: 350 kg

**EMCO WinNC control types**
- Sinumerik operate 840d sl/828d
- FAGOR 8055 TC
- FANUC Series 31i
- CAMconcept

**Power**

**Performance and torque diagram for main spindle**

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**Small Volume. Great Performance.**

**CONCEPT TURN 105**

CNC training with industrial performance
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. 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.

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.