**Technical data**

**Work area**
- Travel in X longitudinal: 200 mm (7.9 in)
- Travel in Y transversal: 150 mm (5.9 in)
- Travel in Z vertical: 250 mm (9.8 in)
- Min. distance spindle nose - table: 95 mm (3.74 in)
- Max. distance spindle nose - table: 245 mm (9.65 in)

**Table**
- Clamping area (L x W): 420 x 125 mm (16.54 x 4.92 in)
- T-slots: quantity, width, spacing: 2 x 11 x 90 mm (2 x 0.43 x 3.54 in)
- Max. table load: 70 kg (154.32 lb)

**Millling spindle**
- Speed range: 150 - 5000 rpm
- Motor power: 1.1 kW (1.48 hp)
- Max. torque: 4.2 Nm

**Axis data**
- Rapid motion speed X / Y / Z: 5 m/min (196.85 ipm)
- Max. feed rate X / Y / Z: 0 - 5 m/min (0 - 196.85 ipm)
- Feed power X / Y: 2000 N
- Feed power Z: 2400 N

**Accuracy**
- Step resolution (X / Y / Z): 0.0015 – 0.001 mm
- 3 phase stepper motors: 0.00006 – 0.00043 mm
- Average positioning variation in X / Y: 5 µm (0.0002 in)
- Average positioning variation in Z: 5 µm (0.0002 in)

**Tool change**
- No. of tool stations: 10
- Tool selection: Directional logic
- Max. tool diameter: 55 mm (2.17 in)
- Max. tool length: 50 mm (1.97 in)
- Max. tool weight: 0.7 kg (1.54 lb)
- Tool changing time T1 / T2 / T3: 9.75 / 7.5 / 7.5 s

**Power consumptions**
- Power supply: 1.4 kW (1.88 hp)
- Compressed air: 6 bar

**Dimensions**
- Dimensions W x D x H: 1135 x 1100 x 1100 mm (44.69 x 43.31 x 43.31 in)
- Total weight: 400 kg

**EMCO WinNC Controls**
- Sinumerik Operate 840D sl / 828D
- Fanuc Series 31i
- Heidenhain TNC 640
- Heidenhain TNC 426/430
- Fagor 8055
- CAM Concept
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.

### The interchangeable control

- Stable, gray cast-iron construction, suitable for industrial use
- 10 station tool changer with directional logic
- Backlash-free bearings for working spindle in precision, lifetime-lubricated, angular ball bearings
- Infinitely variable main and feed drives
- Realistic execution of all essential milling operations

### Engineering

**Highlights**

- Stable, gray cast-iron construction, suitable for industrial use
- 10 station tool changer with directional logic
- Backlash-free bearings for working spindle in precision, lifetime-lubricated, angular ball bearings
- Infinitely variable main and feed drives
- Realistic execution of all essential milling operations

**Options**

- NC indexing device (fully functioning fourth axis) with tailstock, three-jaw chuck and live center
- Engraving spindle attachment
- Automatic clamping device
- Electronic handwheel
- Coolant system
- Minimum quantity lubrication
- Machine base with swivel table
- Easy2operate

### Highlights options

- Simple to program using the EMCO WinNC control units
- 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.