

[ E[M]CONOMY  
means: ]

**emco** industrial  
training

Designed for your profit



**Not just training: Real action!**  
**CONCEPT MILL 260**

**CNC training with industrial performance**

# Concept MILL 260

The new Concept Mill 260 combines all benefits of the proven CM 250 with comprehensive improvements in the areas of: Drive technology, optimized technical data, a new Design, drive power of 6,8 kW and a 20-station tool magazine with double-gripper. With the stable and compact construction the Concept Mill 260 fits even in smallest space.

## [Tool magazine]

- 20-station tool magazine
- Quick release with double-gripper
- Tool system SK 30 DIN 69871

## [Control]

- Latest digital AC control technology
- 21,5" Touchscreen
- MOC: Integrated PC
- WinNC: All standard NC controls on one machine
- Multifunction wheel

## [Main drive]

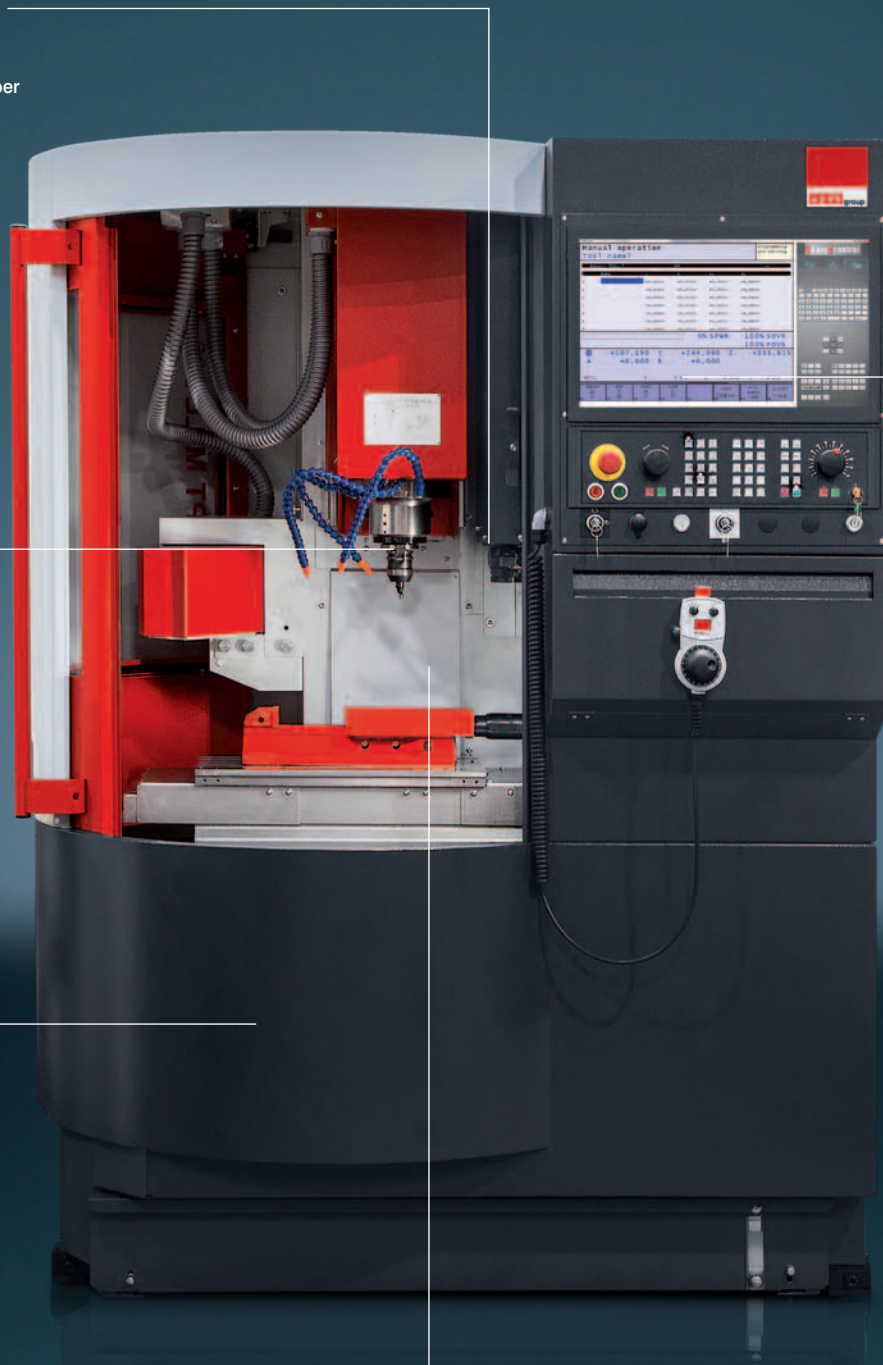
- Infinitely variable main drive
- Powerful asynchronous AC motor
- Main spindle bearing: Lifetime lubricated

## [Machine base]

- Stable construction

## [Machine design]

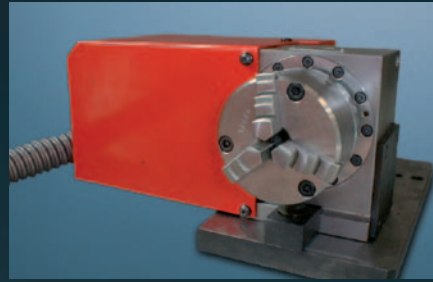
- Stable, gray cast-iron construction
- Profile rails in X / Y / Z with automatic central oil lubrication



# [Engineering]

## Highlights

- High drive speed
- 20-tool magazine
- Tool tapper SK30 according DIN 69871
- Stable and compact machine construction
- Best view when fully enclosed
- USB and Ethernet interface integrated
- Servo motor technology in all axes
- Made in the Heart of Europe



As 4th axis a rotary table with 100mm diameter (option) can be installed. The rotary table is CNC controlled and can be interpolated with any linear axis (X,Y,Z).

## [Interchangeable Controls]

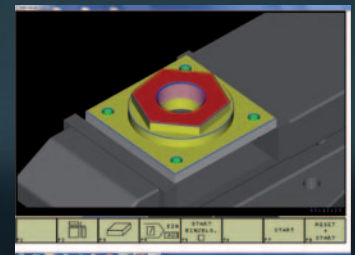
The concept of the interchangeable control unit, which can be fitted to all Concept machines, is unique. It enables the user to be trained on all CNC industry controls that are common on the market needing just one machine. The result: The CNC technicians can be applied more flexibly, which provides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

Another highlight is the Concept Mill 260 with a new, optimised machine control panel, including a 16:9 Industry-Touchscreen with a 21.5" screen and Easy2control user interface.



The Easy2control is a promising and highly flexible addition of EMCO's modular training concept with various keyboard variants. The interchangeable control is emulated on the screen: „On-Screen-Keyboard“.

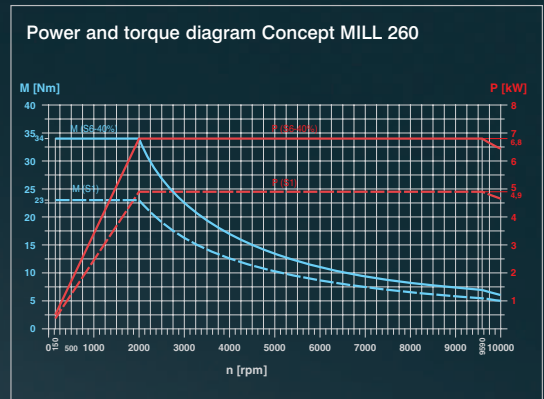
Switching between different control systems becomes this way significantly easier and faster.

# [Engineering]

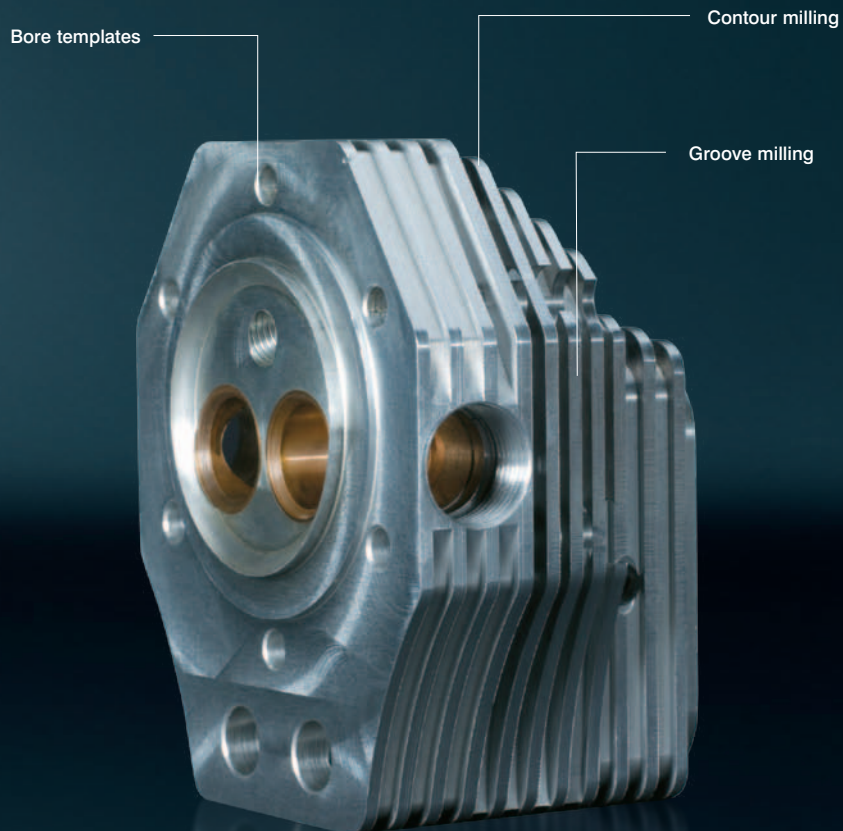
## Options

- Dividing attachment as 4th axis
- Automatic door
- Large number of automation possibilities
- Chip conveyor
- Coolant system
- Integration into FMS and CIM systems using DNC and robotic interface

## Power



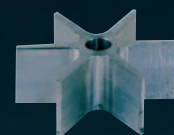
# [Workpieces]



Milled part  
(Aluminum)

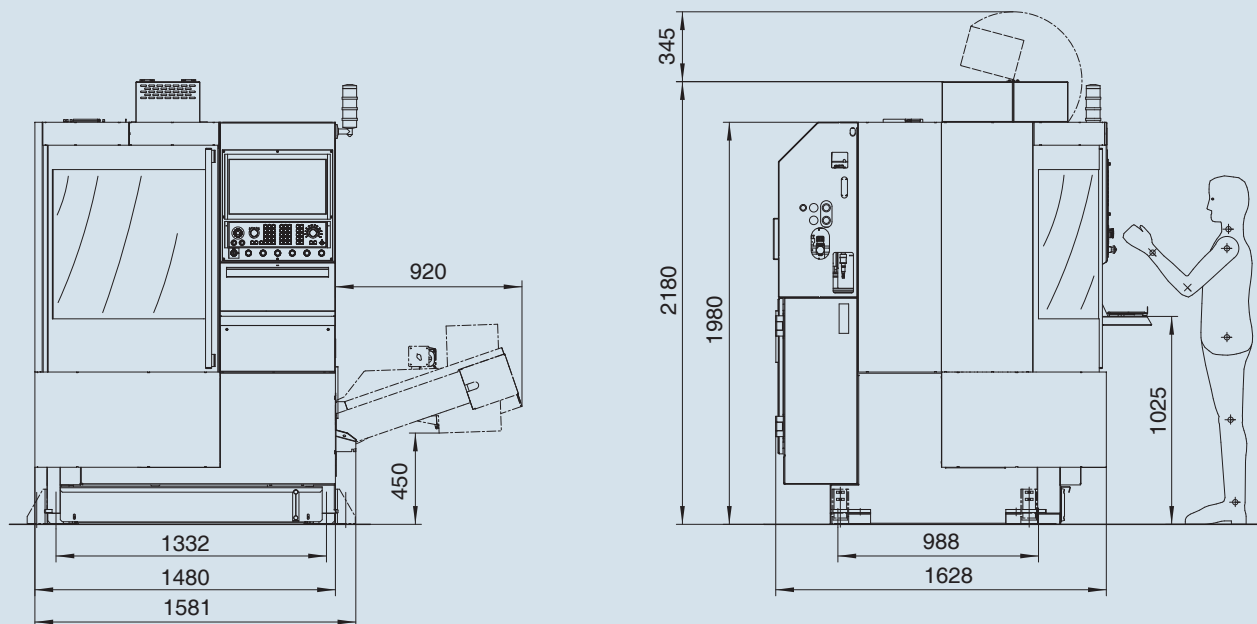


Cutter head  
(Non-ferrous metal)



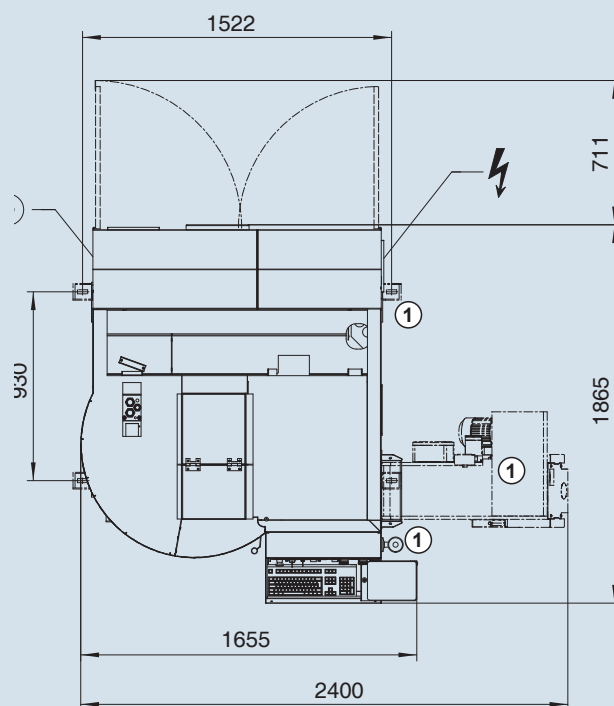
Rotor  
(Aluminum)

# Installation plan



Specifications in millimeters (inches)

# Installation plan



①.....Option

Specifications in millimeters (inches)

# [Technical data]



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## CONCEPT MILL 260

| Work area   |                                |
|---|--------------------------------|
| Travel along X axis                               | 350 mm (13.8")                 |
| Travel across Y axis                              | 250 mm (9.8")                  |
| Travel vertical Z axis                            | 300 mm (11.8")                 |
| Min. distance spindle nose - table surface        | 120 mm (4.72")                 |
| Max. distance spindle nose - table surface        | 420 mm (16.54")                |
| Table   |                                |
| Table dimensions (L x W)                          | 520 x 300 mm<br>(20.4 x 11.8") |
| T-slots: Quantity, width, spacing:                | 5 x 12 x 45                    |
| Max. table load                                   | 100 kg (220 lb)                |
| Milling spindle                                   |                                |
| Max. speed  | 150 – 10000 rpm                |
| Power asynchronous AC motor                       | 6,8 kW                         |
| Maximum torque                                    | 34 Nm                          |
| Drive   | infinitely variable            |
| Axes  |                                |
| Rapid motion speed in X/Y/Z axes                  | 24 m/min (94.4"/min)           |
| Work feed   | 0 - 10 m/min (0-39.3"/min)     |
| Max. feed force                                   | 3000 N                         |
| Positioning variation acc. to VDI 3441 (X/Y axis) | 0.004 mm (0.00016")            |
| Positioning variation acc. to VDI 3441 (Z axis)   | 0.004 mm (0.00016")            |

| Tool system                                 |  |
|---|--|
| Number of tool stations                     | 20   |
| Tool taper according DIN 69871              | SK 30  |
| Tool management                             | chaotic*                                     |
| Max. tool diameter (*free adjacent pockets) | 63 (*80) mm 2.5" (*3.15")                    |
| Max. tool length                            | 200 mm (7.9")                                |
| Max. permissible tool weight                | 5 kg (11 lb)                                 |
| Tool changing time                          | 2.5 s  |
| General data                                |  |
| Connected load                              | 9 kVA  |
| Machine diameters (L x W x H)               | 1600 x 1700 x 2200 mm<br>(63 x 66.9 x 86.5") |
| Weight                                      | 1970 kg (4334 lb)                            |
| Compressed air required                     | 6 bar  |

### EMCO WinNC controls

|                                |
|--------------------------------|
| SIEMENS Operate 840D sl / 828D |
| SIEMENS 810D/840D              |
| FANUC Series 31i               |
| FAGOR 8055 TC                  |
| Heidenhain TNC 426/430         |



EN4637 - 09/15 - Subject to change due to technical progress. Errors and omissions excepted.

[www.emco-world.com](http://www.emco-world.com)