

**emco**

**EMCOMILL E350**

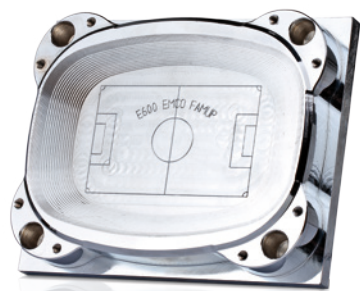
3 axes CNC milling machines  
for the machining of small  
to medium lot sizes





# / MACHINING OF SMALL TO MEDIUM LOT SIZES

With a travel in X of 350 mm, the EMCOMILL E350 offers a perfect entry into demanding CNC milling for small to medium lot sizes at a very attractive price-performance ratio. It includes a fixed 20-station tool magazine, a tool changer with dual-gripper and a direct driven mechanical main spindle with 10000 rpm.

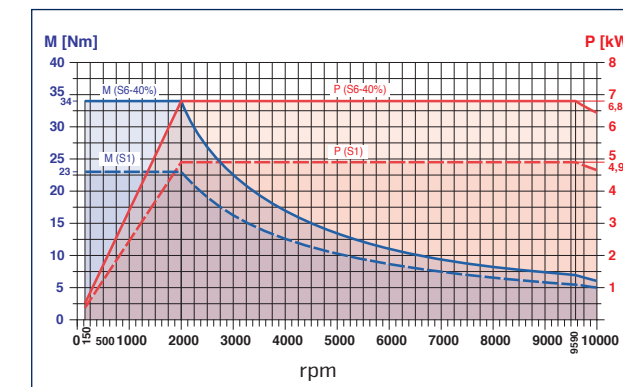


Demo part  
(Steel)

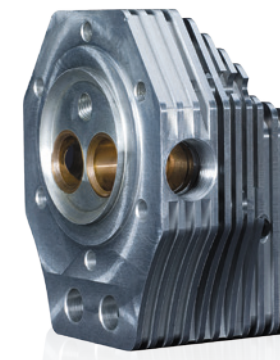
- 1 **TOOL MAGAZINE**
  - / 20-station tool magazine
  - / Tool changer with dual-gripper arm
- 2 **SPINDLE**
  - / Mechanical spindle direct drive: 10000 rpm
  - / Speed of the main drive steplessly programmable
  - / Powerful main motor
  - / Main spindle bearings greased for life time
- 3 **MACHINE STAND**
  - / Stable construction
- 4 **CONTROL UNIT**
  - / State-of-the-art control technology from Siemens
  - / Compact control design
  - / Simple data transfer, either via ethernet or USB connection
  - / Simple programming with ShopMill user interface or in ISO format
- 5 **MACHINE CONSTRUCTION**
  - / Stable, gray cast-iron construction
  - / Roller guides in X/Y/Z with automatic central oil lubrication



# / Performance and Torque



Performance and torque diagram main spindle (Siemens)



Cylinder Head  
(Steel)

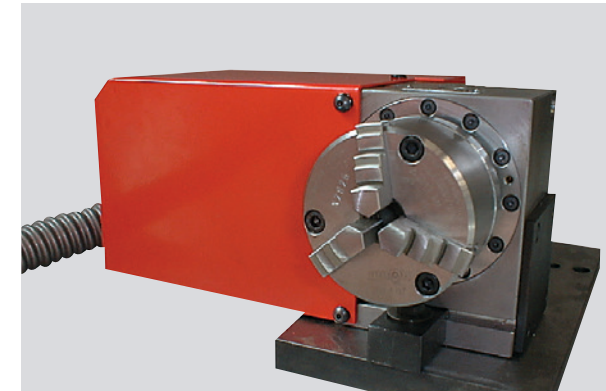


# TECHNICAL HIGHLIGHTS



## TOOL CHANGE

Quick coupler with dual-gripper arm and 'random' tool location coding; mechanical spindle with high performance drive.



## ROTARY TABLE

An optional 80 or 100 mm-diameter rotary table can be fitted as a 4th axis. The rotary table is CNC-controlled and can be interpolated with any linear axis (X, Y, Z).



## CONTROL UNIT

The control is built into the machine casing to keep the machine's outer dimensions as small as possible.

## HIGHLIGHTS

- / Extreme thermostability
- / Best machining precision
- / Mechanical spindle
- / State-of-the-art control technology from Siemens
- / JobShop programming software
- / Fairly priced
- / Minimal footprint
- / Made in the Heart of Europe

## OPTIONS

- / 4<sup>th</sup> axis
- / Electronic handwheel
- / Automatic tool and workpiece measurement
- / Automatic door
- / Triple indicator lamp

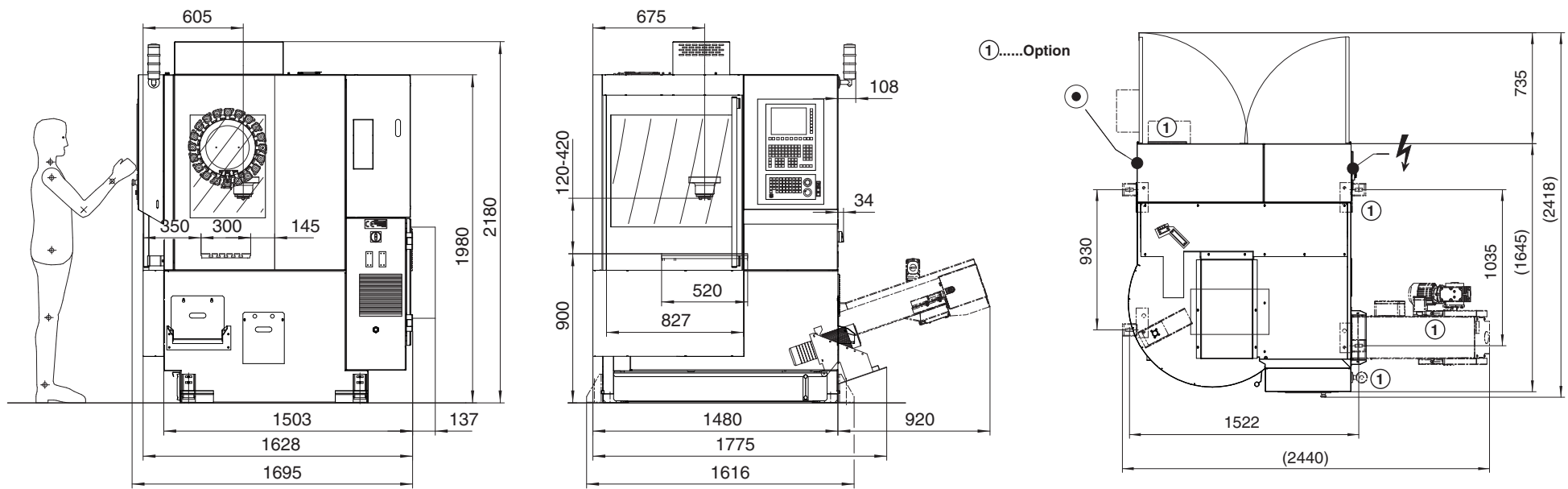


## DRUM-TYPE MAGAZINE

Drum-type magazine with 20 tool positions.

# INSTALLATION PLAN

EMCOMILL E350



Details in millimeters

# TECHNICAL DATA

## Work area

|                                     |        |
|-------------------------------------|--------|
| Travel in X                         | 350 mm |
| Travel in Y                         | 250 mm |
| Travel in Z                         | 300 mm |
| Min. clearance spindle nose – table | 120 mm |
| Max. clearance spindle nose – table | 420 mm |

## Tisch

|                                   |                |
|-----------------------------------|----------------|
| Clamping Area                     | 520 x 300 mm   |
| T-groove: number, size, clearance | 5 x 12 x 45 mm |
| Max. table load                   | 100 kg         |
| Table – floor distance            | 880 mm         |

## Spindle

|                        |                |
|------------------------|----------------|
| Speed range            | 50 – 10000 rpm |
| Spindle motor power    | 6,8 kW (S6)    |
| Spindle torque         | 34 Nm (S6)     |
| Tool taper (DIN 69871) | ISO 30         |
| Drive                  | Direct drive   |

## Tool change

|                                             |                             |
|---------------------------------------------|-----------------------------|
| Number of tool stations                     | 20                          |
| Tool selection                              | Random tool location coding |
| Max. tool diameter (without adjacent tools) | 63 mm (80 mm)               |
| Max. tool length                            | 200 mm                      |
| Max. tool weight                            | 5 kg                        |
| Time for tool change (tool / tool)          | 2,5 s                       |

## General Data

|                         |                       |
|-------------------------|-----------------------|
| Power supply            | 9 kVA                 |
| Dimensions W x P x H    | 1600 x 1700 x 1980 mm |
| Weight                  | 1970 kg               |
| Required compressed air | 6 bar                 |

beyond standard /

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