



MISSION: PRECISION

## MAXXMILL 630

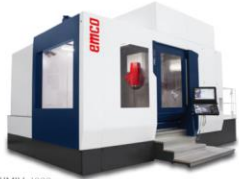


## PRODUCT RANGE MILLING

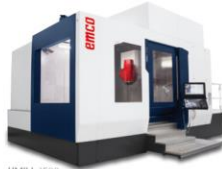
### UMILL

UNIVERSAL MACHINING CENTRES FOR 5-AXIS SIMULTANEOUS MACHINING

### EMCO MMV



UMILL 1000



UMILL 1500



UMILL 750



UMILL 630



MMV 3200



MMV 2000

### VERTICAL

HIGH-PERFORMANCE MILLING CENTRES FOR LARGE-VOLUME PARTS



DYNAMILL GS



DYNAMILL



MEGAMILL



POWERMILL

### HORIZONTAL

HIGH-PERFORMANCE MILLING CENTRES FOR LARGE-VOLUME PARTS



ECOMILL



ECOMILL PLUS



MECMILL



MECMILL PLUS

### MAXXMILL

VERTICAL MACHINING CENTRES

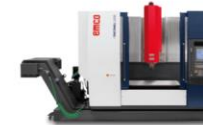
### EMCOMILL



MAXXMILL 750



MAXXMILL 630



EMCOMILL 1200



EMCOMILL 750



EMCOMILL E350

## MAXXMILL 630



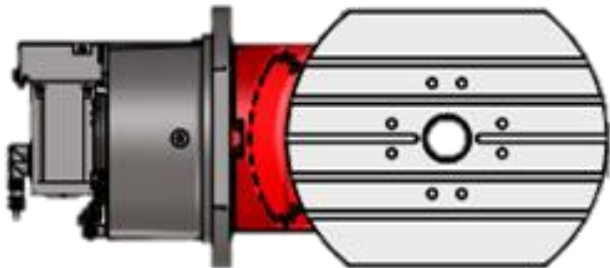
- Vertical milling center for 5-sided machining
- Modern moving column concept
- Cutting-edge control technology from Siemens or Heidenhain

## Highlights

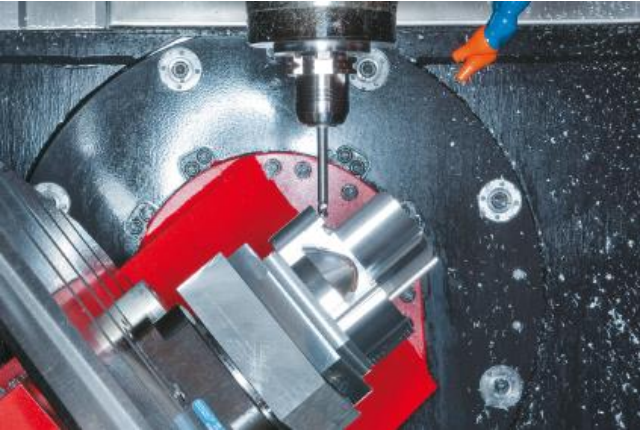


✓ Swivel-rotary table with 630 x 500 mm clamping area

✓ Machine workpieces with an edge size of 445x445x290 mm



## Highlights



- ✓ The B-axis travel range of +/- 100° provides a large work area



- ✓ Automatic tool changer for 30 tools



# Technical data

## Travel and feed

X-axis travel	500 mm
Y-axis travel	460 mm
Z-axis travel	450 mm
Distance spindle nose/table	175 / 675 mm
Rapid motion speed X-Y-Z	30 m/min
Max. acceleration	3 m/s <sup>2</sup>

## Main spindle (mechanical spindle)

Max. power	15 kW (S6)
Max. torque	100 Nm (S6)
Speed range	12.000 rpm
Tool taper	ISO 40 DIN 69871
Pull stud	ISO 7388/2 Type B
Drive	Direct drive

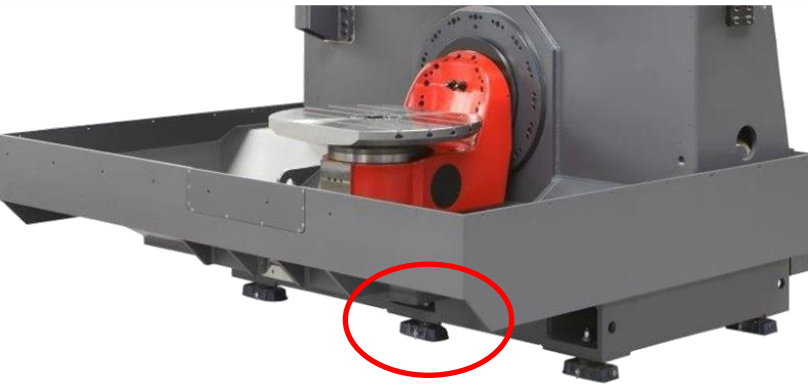
## Tilting table

Clamping area	630 x 500 mm
Table-floor distance	855 mm
Slot number	5
Distance between two T-slots	75 mm
Groove wide	14 mm
Max. workpiece weight	200 kg

## Dimensions

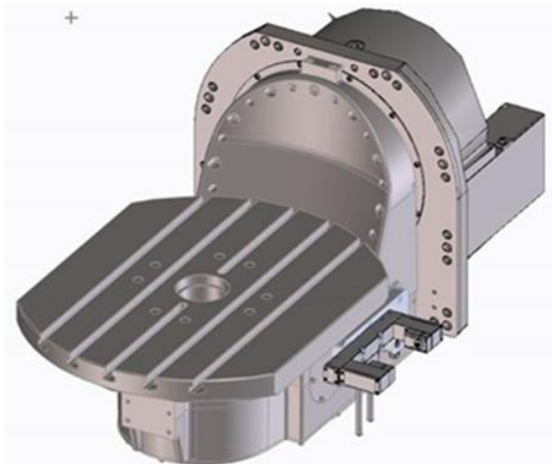
Total height	3060 mm
Total dimensions (without chip conveyor)	2500 x 3120 mm
Weight	4800 kg

## Machine structure: basement and table



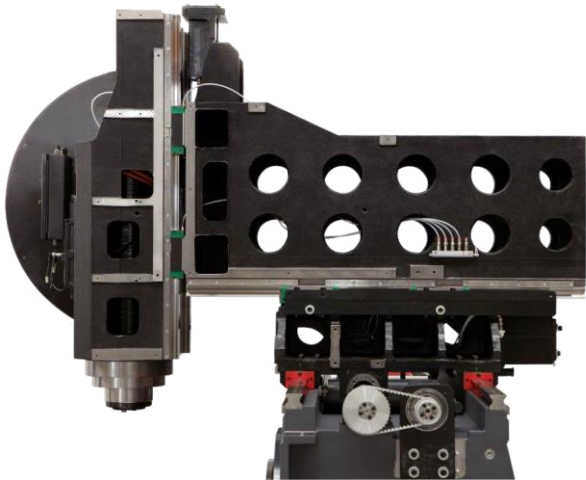
✓ New welded steel and FEM optimized basement

✓ Shaped rotary table plate for enhanced milling working area



✓ New laser measure layout installed directly on the table side

## Machine structure: axis structure



- Y- and Z-axis rigidity increase, thanks to:
  - ✓ New vertical machine structure
  - ✓ Cast iron frame for both X-Y-Z sliding structure
  - ✓ Z-axis precision and reliability improvement with direct motor design
  - ✓ Optimized Z-axis frame (cast iron) symmetrical and dimensions' contained for a bigger workspace



## Machine structure: head and spindle



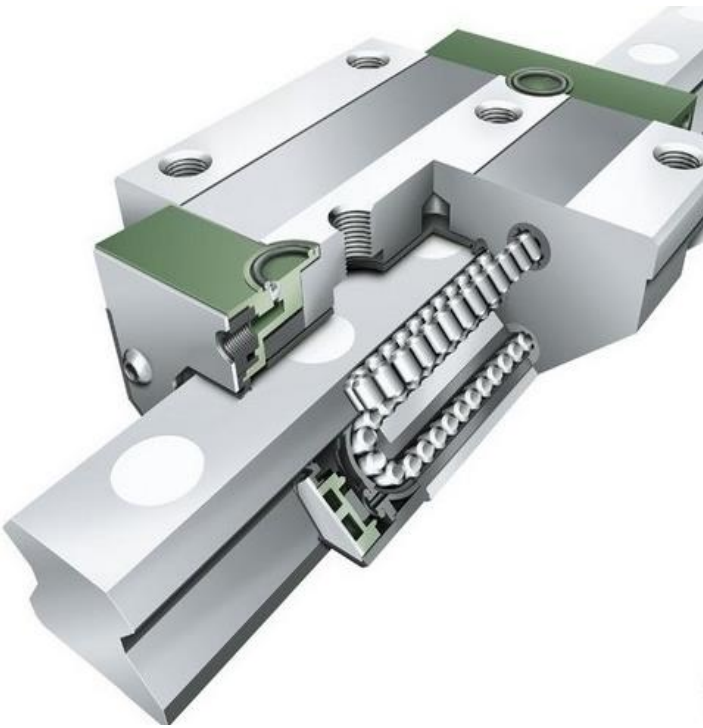
Mechanical spindle  
12.000 rpm  
(not continuous)



Motor spindle  
15.000 rpm

- ✓ The spindle and the motor are prepared for the coolant flow through the spindle
- ✓ 15.000 rpm motor spindle available (optional)
- ✓ Tool taper ISO 40 DIN69871 with pull stud ISO 7388-2 (standard), also available DIN 69872, BT40 and HSK A63 (HSK A63 and DIN 69872 only for motor spindle)
- ✓ Bigger distance spindle nose-table: 175-150 mm (mechanical spindle)

## Machine structure: guides



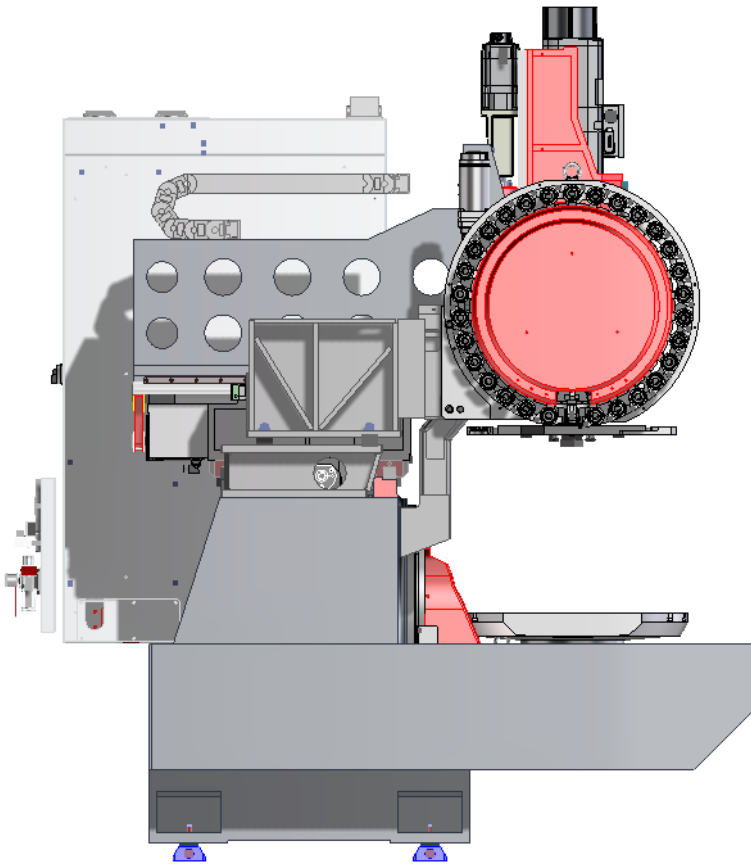
- ✓ Roller guide technology
- ✓ X-Y-Z guide size: 45-35-35
- ✓ Grease lubrication solution for high lubrication performance, improvement of machine cleanliness and lower lubricant consumption (environmentally friendly)

# Machine structure: ball screw



- / Grinded ball screw ISO 3
- / Diameter 40 mm
- / X-Y-Z Pitch 20-20-10 mm
- / X-Y-Z Feed force 5000 N
- / Grease lubrication solution for high lubrication performance, improvement of machine cleanliness and lower lubricant consumption (environmentally friendly)

# Machine structure: tool changer



Capacity: 30 tools

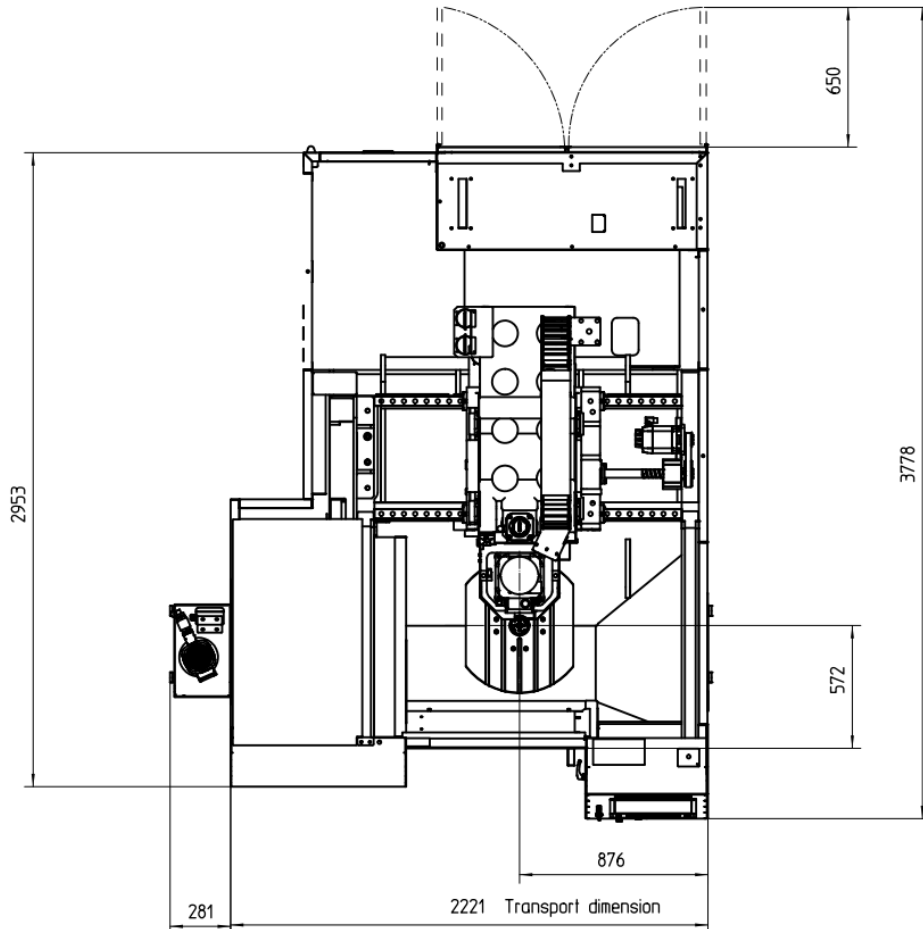
Max tool diameter:  
80 (125) mm

Max tool length: 250 mm

Max tool weight: 8 kg

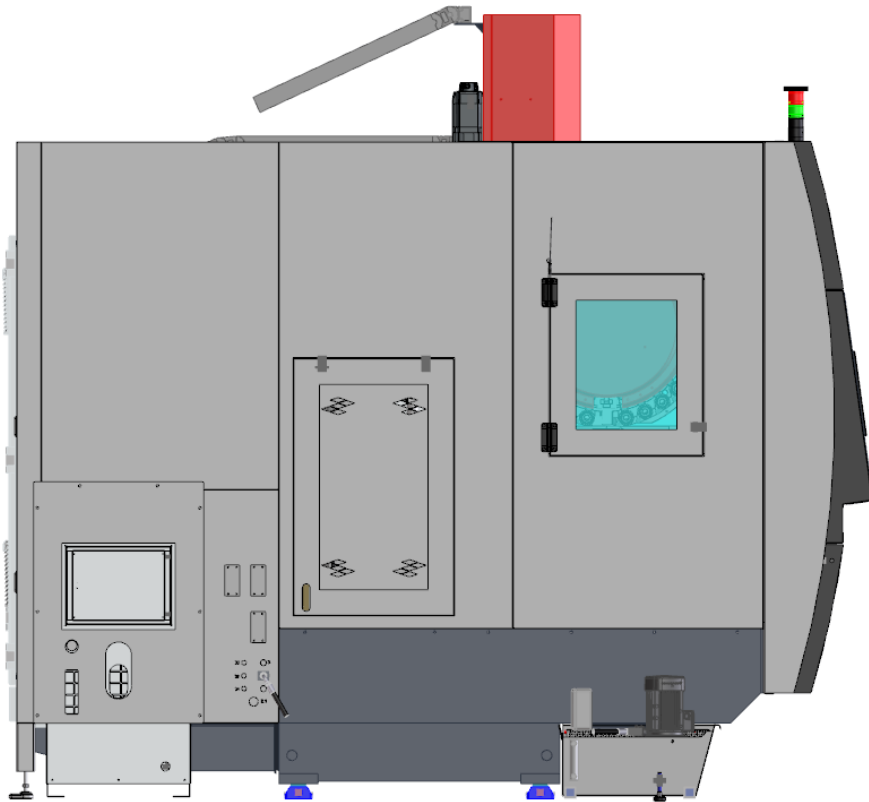
Tool change time: 2 sec.

# Machine layout



✓ New optimized machine footprint

## Machine layout: ergonomy



One side access to most of the machine systems: tool changer, pneumatic panel, hydraulic unit, process cooling plant and machine cooling system are accessible from the left side of the machine

Right side free for automation system

\*aktuell nur für Siemens 840Dsl

## In favor of EMCO ...

- ✓ Solution Provider: complete processes and solutions, not only machines
- ✓ Turning and milling machines with customizable automation concepts
- ✓ Customer proximity: flexible, regional service and spare parts supply
- ✓ European technology and production

**beyond standard** /