emco

MISSION: PRECISION

MAXXMILL 750

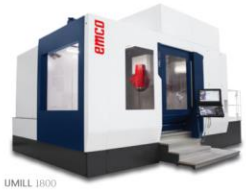
a company of the **Kuhn** Group

PRODUCT RANGE MILLING

UMILL

UNIVERSAL MACHINING CENTRES FOR 5-AXIS SIMULTANEOUS MACHINING

EMCO MMV


UMILL 1800


UMILL 1500


UMILL 750


UMILL 630


MMV 3200


MMV 2000

VERTICAL

HIGH-PERFORMANCE MILLING CENTRES FOR LARGE-VOLUME PARTS


DYNAMILL G5


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

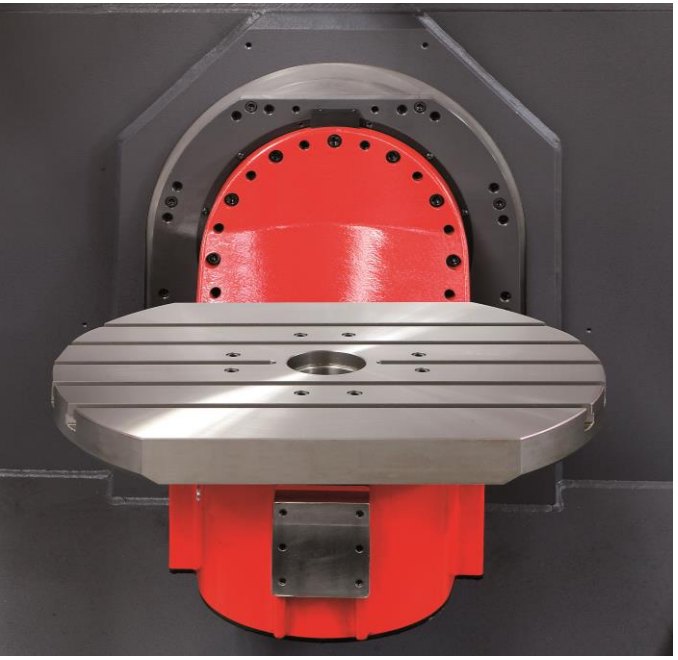

EMCOMILL 750


EMCOMILL E350

MAXXMILL 750

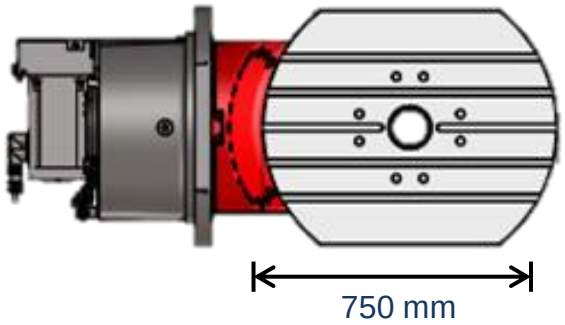
- Vertical milling center for 5-sided machining
- Modern moving column concept
- Cutting-edge control technology from Siemens or Heidenhain

Highlights

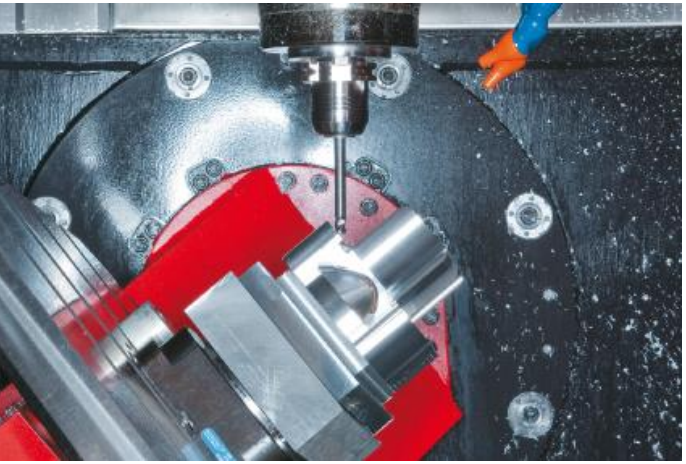


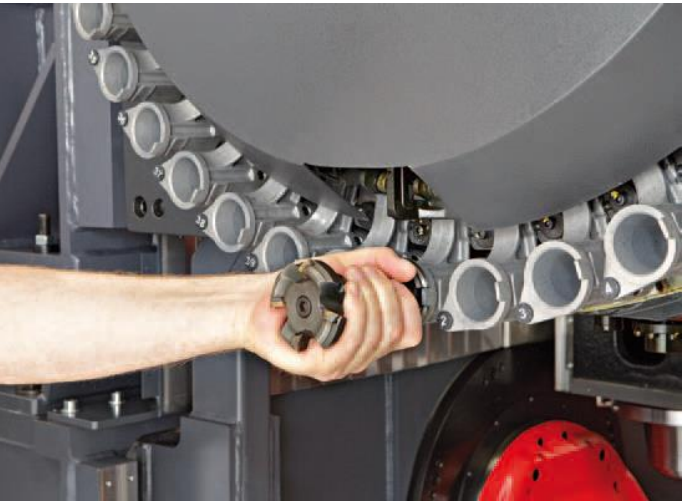
- Swivel-rotary table with 750 x 600 mm clamping area

- Machine workpieces with an edge size of 530 x 530 x 417 mm



Highlights





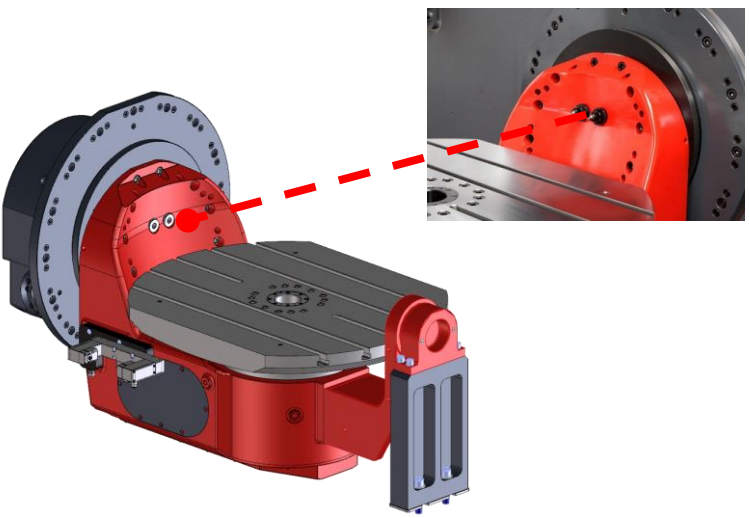
- The B-axis travel range of +/- 100° provides a large work area
- Automatic tool changer for 30 tools (40 or 60 tools as option)

Technical data

Travel and feed	
X-axis travel	750 mm
Y-axis travel	610 mm
Z-axis travel	500 mm
Distance spindle nose/table	175 / 675 mm
Rapid motion speed X-Y-Z	30 m/min
Max. acceleration	3 m/s²
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

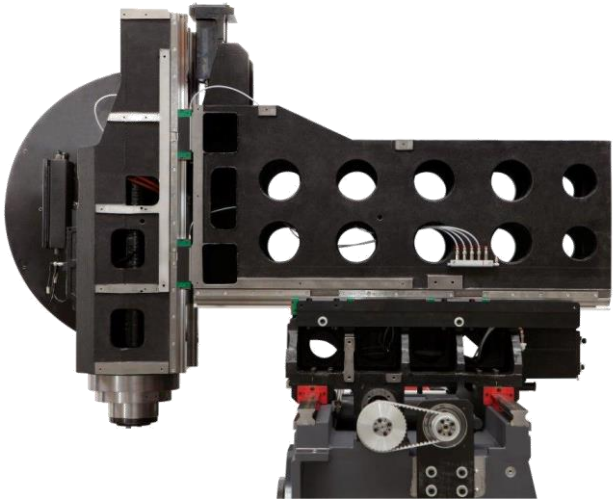
Tilting table	
Clamping area	750 x 600 mm
Table-floor distance	805 mm
Slot number	5
Distance between two T-slots	100 mm
Groove wide	14 mm
Max. workpiece weight	300 kg
Dimensions	
Total height	3060 mm
Total dimensions (without chip conveyor)	2770 x 3350 mm
Weight	7900 kg

Machine structure: basement and table



- New welded steel and FEM optimized basement
- Shaped rotary table plate for enhanced milling working area
- Extra central levelling element for a better load distribution
- Improved table load capabilities with front table support, 500kg (optional)
- Rotary table chip flushing system option available
- 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 structures
- Z-axis precision and reliability improvement with direct motor design
- Optimized Z-axis frame (cast iron) symmetrical and dimensions' contained for a bigger workspace

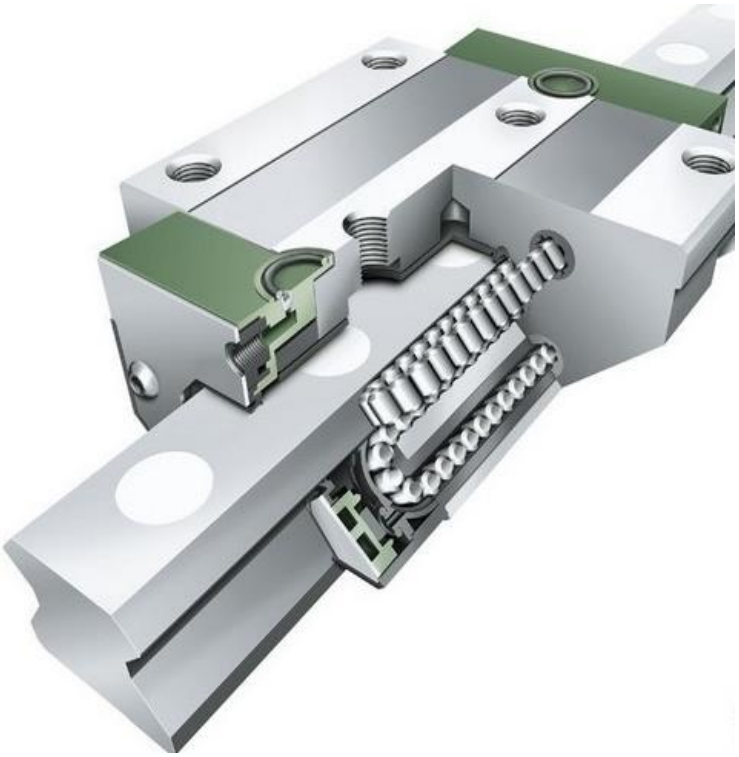
Machine structure: head and spindle

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

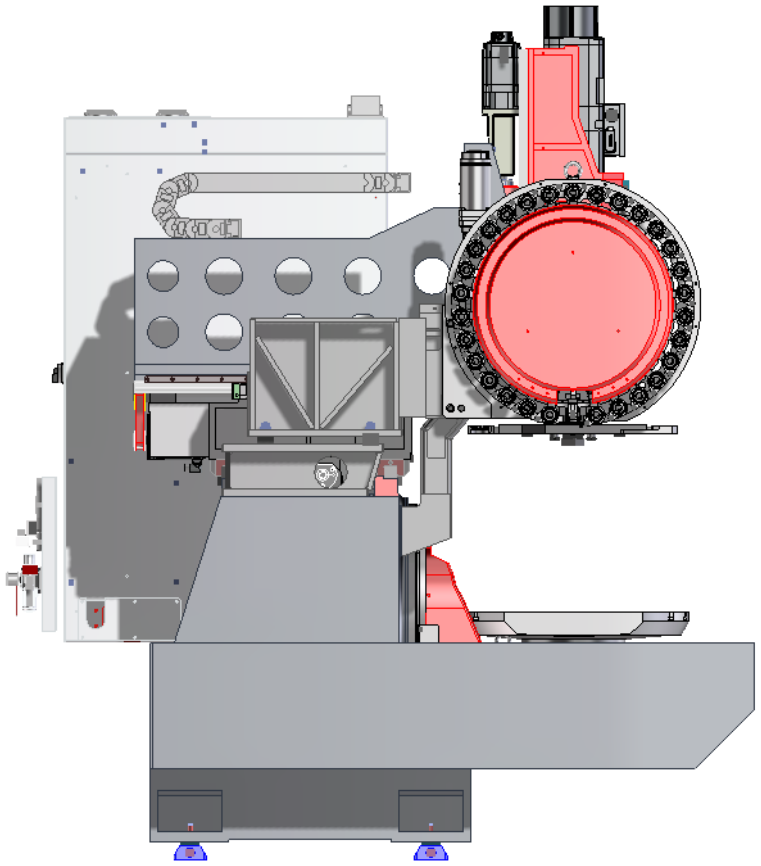


- Roller guide technology
- X-Y-Z guide size 45-35-35
- Grease lubrication solution for high lubrication performance, improvement of machine cleaness and lower lubricant consumption (environmentally friendly)

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 cleaness and lower lubricant consumption (environmentally friendly)

Machine structure: tool changer



Capacity: 30 (40/60) tools

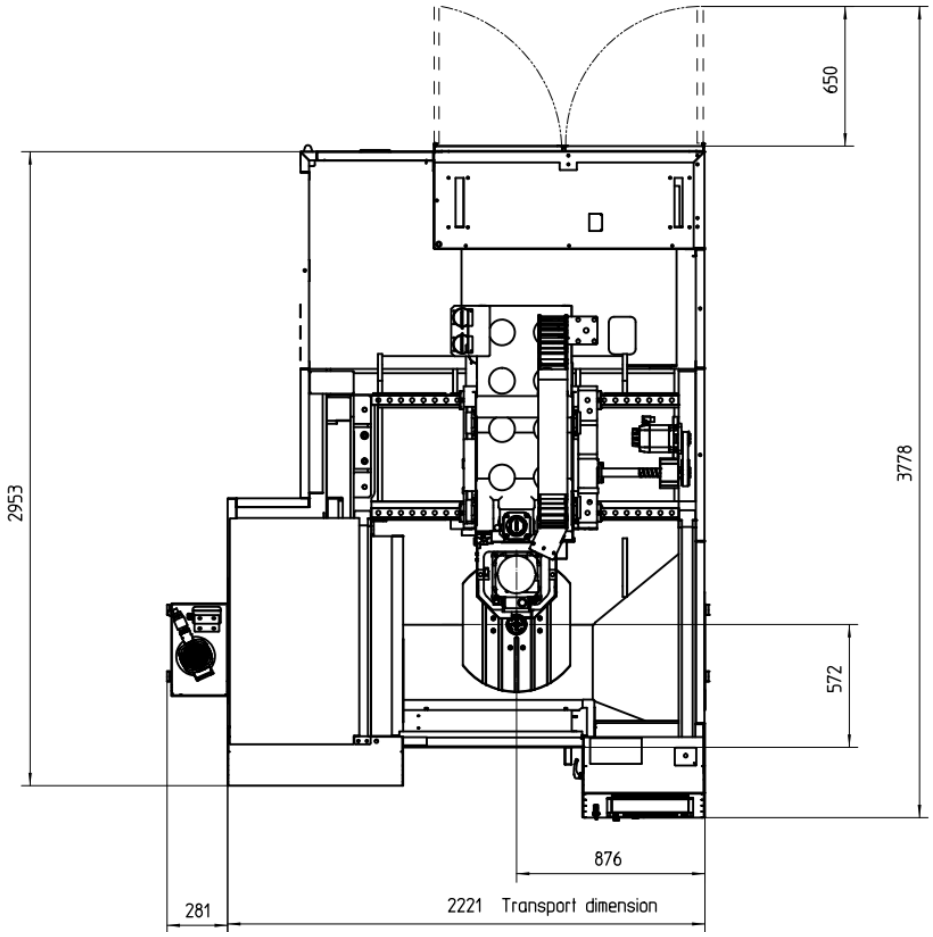
Max tool diameter:
80 (125) mm

Max tool length: 250 mm

Max tool weight: 8 kg

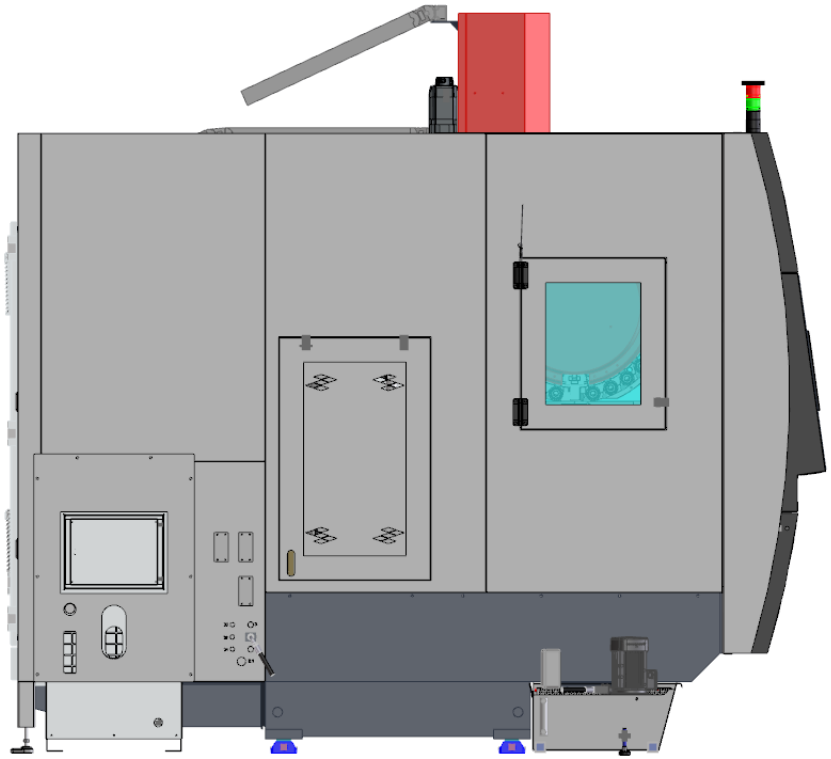
Tool change time: 2 sec.

Machine layout



New optimized machine footprint (motor spindle cooler inside the machine structure)

Machine layout: ergonomy



- Standard tool magazine’s door
- 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