

Press Release, August 2014

Vertical milling centre for efficient 3-axis machining

With the new EMCOMILL 750 and EMCOMILL 1200, EMCO has expanded its product range with two flexible, vertical CNC milling machines for 3-axis milling work. The compact machine layout and excellent price-performance ratio enable further savings to be made in production.

HALLEIN-TAXACH – 3-axis machining, a travel of 750 or 1200 mm in the X-axis, a compact machine design, maximum precision, 'Made in the Heart of Europe', latest control technology and all this at a very attractive price. The selling points of both machines are impressive from a technical, qualitative and, not least, financial perspective:

The robust moving column milling machine design offers maximum stability and thermo-symmetry with its compact base construction. The solid fixed table and large work area enable the machining of heavy workpieces weighing up to 1500 kg. Optimum precision and excellent surface quality of the workpiece are achieved through short flows of force.

The tool magazine holds 30 tool stations ready for use. This means complex machining processes can be carried out simply and efficiently. The option of 40 tool stations is also possible.

Depending on the production requirement, a powerful mechanical spindle with a maximum speed of 10 000 rpm or a water-cooled motor spindle with a maximum speed of 15 000 rpm can be selected.

The EMCOMILL can be programmed using the latest control technology. The control unit is attached to a control panel that is equipped with a pivotal function for ergonomic work.

Naturally, the EMCO commitment "Made in the Heart of Europe" also applies to the EMCOMILL 750 and 1200. The machines are developed and manufactured exclusively in Central Europe in cooperation with European brand manufacturers who meet the highest standards in quality, productivity, and efficiency.

The EMCOMILL 750 and EMCOMILL 1200 are perfectly suited to 3-axis machining of workpieces in small or medium quantities. This makes them particularly suitable for contract manufacturers, industrial enterprises such as automotive supply companies that are involved in general mechanical production, and higher-level training institutions.

Modular design concept

The many times proven modular concept also enables the EMCOMILL 750 and 1200 to be perfectly adapted to meet the requirements of the customer.

The main modules are:

- **Spindle variants**

The following can be selected

- As basic version:
 - 10 000 rpm with direct drive
 - 15 000 rpm with water-cooled motor spindle

- **Tool magazine**

The basic version includes the tool magazine (drum magazine) for 30 tools. The drum magazine can be expanded to 40 tools on request.

- **Control**

The cutting-edge SIEMENS 828D with ShopMill and FANUC 0i-MD with Manual Guide are available as controls.

- **Chip removal**

The standard version consists of a chip tray with easy lateral chip removal. For automatic chip removal, a chip conveyor can be integrated modularly into the machine design.

- **Coolant supply**

The coolant is supplied via nozzles to the side of the spindle nose. Alternatively, an internal high-pressure coolant supply through the spindle and tool can be chosen.

- **Rotary table / 4th Axis**

For the 4-axis applications, a robust rotary table with a diameter of 200 mm is available, offering up to 0.001° precise resolution and NC-interpolation.

- **Options**

Of course, EMCO offers its customers a standard selection of accessories for the new EMCOMILL 750 and 1200:

- Measuring probe for tool or workpiece measurement
- Glass scales in all axes
- Handwheel
- Bandpass filters with high pressure pumps
- Alarm status lamp
- Blowing unit
- Chip flushing
- Automatic doors

Key technical data:

	EM 750	EM 1200
Work area		
Travel in X [mm]	750	1200
Travel in Y [mm]	550	600
Travel in Z [mm]	500	500
Rapid traverse X/Y/Z [m/min]	30	30
Table		
Length x Width [mm]	900 x 630	1300 x 630
Max. table load [kg]	800	1500
Main spindle (mechanical spindle)		
Speed range [rpm]	50 – 10 000	50 – 10 000
Spindle power [kW]	15	15
Max. torque [Nm]	100	100
Main spindle (Motor spindle)		
Speed range [rpm]	50 – 15 000	50 – 15 000
Spindle power [kW]	20	20
Max. torque [Nm]	100	100
Tool magazine		
Number of tool stations	30 (40)	30 (40)
Tool change time [sec]	2	2
Max. tool diameter [mm]	80	80
Max. tool length [mm]	250	250
Max. tool weight [kg]	8	8



EMCOMILL 750



Modern moving column milling concept

About EMCO

EMCO from Salzburg, Austria, is one of the leading machine tool manufacturers in Europe. Its two commitments "Made in the Heart of Europe" and "Design to Cost" are the key success factors of this international company which stands for the highest quality manufacturing and functional design. EMCO is part of Kuhn Holding and currently employs some 660 staff at a total of five production sites in Austria, Germany and Italy.

Further information can be found online at www.emco-world.com.

Further information and requests for pictures:

EMCO Maier Ges.m.b.H. Contact:

Christa Vergnes, e-mail: Christa.Vergnes@emco.at

Salzburger Strasse 80, Postfach 131, 5400 Hallein-Taxach · AUSTRIA

Tel.: +43-6245-891-0, Fax: +43-6245-86965

Internet: www.emco-world.com