

New universal milling machine ECOMILL S - With high precision and compact dimensions the best solution for your production

The new universal milling machine ECOMILL S was developed at EMCO MECOF in Belforte Monferrato in Italy and continues the proven Mecof tradition of travelling column milling machines.

A major innovation in the new design lies in the optimal position of the operator, who can control the machining process from a remarkably privileged point.

Another advantage of the new structure is that it takes up about 20% less space, both in floor plan and height. This is due to the new specially conceived design, which allows the positioning of accessories on the mobile structure, thus avoiding taking up valuable workshop space.

The machine is equipped with two spindle motors: a standard motor with 60 kW and 330 Nm and a more powerful motor with 60 kW / 900 Nm in S1. Several mechanical milling heads developed and manufactured by Emco Mecof are available: the proven universal head, the offset head and the orthogonal milling head, which allows an undercut of 45°.

The ECOMILL S can be equipped with a floor plate and rotary table for milling or turning, as well as with various accessories for automating the machining process: automatic tool changer, tool control and measurement, chip conveyor, pendulum machining, high-pressure internal cooling through the spindle, paper belt filter, and much more.

The performance of the ECOMILL S is well supported by the latest control unit by Heidenhain TNC 7 and Siemens SINUMERIK ONE. The model presented at EMO Hannover 2023 is equipped with the Heidenhain TNC 7. The major advantages are immediately visible when looking at the user interface: The operator interface has been completely redesigned, making it more intuitive and customisable. In addition, the 24-inch screen offers enough space to select the information displayed without having to switch screens in search of what you want.

In addition to the well-known features of the options provided by EMCO MECOF, it is important not to forget the existing prerequisites for Industry 4.0, which allow the possibility of remote connection to the machine for real-time diagnostics and, thanks to the IOLink equipment, for efficient remote adjustment.

The new ECOMILL S highlights the expertise and ability of EMCO MECOF's technical team to find cutting-edge solutions that meet market requirements while offering a competitive price/performance ratio. Thanks to the features described, the ECOMILL S consolidates EMCO MECOF's tradition in meeting the requirements of general machine building when machining smaller workpieces.

HIGHLIGHTS

- excellent performance and reliability of the spindle thanks to the innovative B-axis
- 45° undercut achievable with the orthogonal head
- Design grants the best monitoring of the cutting process
- Direct drive technology on all milling heads
- Multitasking for milling and turning operations
- Machine ready for Industry 4.0
- Machine configuration according to customer's requirement

EQUIPMENT

The ECOMILL S is equipped with a wide range of technical highlights that make the machining of complex workpieces much easier:

- Automatic milling head process data calculation and calibration system of the milling head
- Adaptive feed control
- Laser measuring system for tool control and measurement
- Automatic tool change
- Radio touch probe for workpiece measurement and positioning
- Pendulum machining

These are just a few examples of the many technical features that distinguish the ECOMILL S.



The new ECOMILL S



Rotary tables



Paper filter system



Tool changer

TECHNICAL DATA:

ECOMILL S	
Areas of application: railway industry, shipbuilding, paper, plastic & wood processing, earthmoving, construction machinery, agriculture	
X-axis	3000 - 14000 mm
Y-axis	up to 1300 mm
Z-axis	up to 2000 mm
Mechanical milling heads	up to 1200 Nm, up to 6000 rpm
Coolant	40 bar

About EMCO

One of Europe's leading machine tool manufacturers, the Salzburg-based machine builder EMCO currently employs around 800 people at a total of 5 production sites in Austria, Germany and Italy. The key to the success of the international, family-owned company lies in the expertise and experience gathered over 75 years of activity in the machine tool industry. That is why EMCO stands for leading-edge, customised, automated complete solutions for both turning and milling.

About EMCO Mecof

EMCO Mecof is part of the EMCO Group. Based in Belforte Monferrato, Italy, the company has been developing and producing high-speed and high-precision machining centres as well as machining centres for milling and drilling since 1947. Backed up by many years of experience and comprehensive know-how, MECOF develops technologically perfect turnkey solutions and is able to cater for the needs of both small businesses and major OEM corporations from the automotive and aerospace sectors.

Visit our website at www.emco-world.com to learn more.

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