



**COD PROD. : 470686**

## MASINA MODEL

**No right of return - no CE marking and with a 6-month parts warranty; for export outside the EU only**

Toolroom milling machines are indispensable in the mechanical workshops of toolmaking and mould-making. Compact design, high flexibility and straightforward operation are qualities that have proved their worth many times over, and are here given a modern interpretation. Servo drives and preloaded ball screws make the machine more powerful and more precise. This machine is an excellent choice for toolmaking and mould-making, as well as repair workshops, training departments and production environments.

- Vertical and Horizontal Spindle
- Precise Preloaded Ball Screws on All Axes
- Large Vertical Column and Work Table

## DATE TEHNICE

### DOMENIUL DE LUCRU

|                                                       |                  |
|-------------------------------------------------------|------------------|
| Dimensiunile mesei                                    | 400 mm x 800 mm  |
| Canale T , numarul                                    | 6 positions      |
| Canale-T (latimea x distanta)                         | 14 mm x 63 mm    |
| Masa verticala                                        | 225 mm x 1020 mm |
| Canale-T , latimea masa verticala (număr)             | 3 positions      |
| Canale-T, latimea masa verticala (latime x distanta.) | 14 mm x 63 mm    |

### CURSE

|             |        |
|-------------|--------|
| Cursa axa X | 500 mm |
| Cursa axa Y | 400 mm |
| Cursa axa Z | 400 mm |

### CAP DE FREZARE

|                                     |                        |
|-------------------------------------|------------------------|
| Domeniul de turatie,treapta joasa   | 40 1/min - 260 1/min   |
| Domeniul de turatie, treapta inalta | 260 1/min - 2000 1/min |
| Turatia axului principal            | 40 1/min - 2000 1/min  |
| Conul axului principal              | DIN 2080 SK 40         |
| Unghi de rabatare                   | 90 deg                 |
| Cursa pinolei                       | 60 mm                  |
| Distanța varful axului              | 50 mm - 450 mm         |

principal - masa

|                                  |                 |
|----------------------------------|-----------------|
| attributes.MEG-000034.MER-002800 | 180 mm - 580 mm |
|----------------------------------|-----------------|

### AVANS RAPID

|                   |             |
|-------------------|-------------|
| Avans rapid axa X | 1200 mm/min |
| Avans rapid axa Y | 1200 mm/min |
| Avans rapid axa Z | 1200 mm/min |

### AX DE FREZARE ORIZONTAL

|                                    |                 |
|------------------------------------|-----------------|
| Conul axului principal             | DIN 2080 SK 40  |
| Distanța dintre centrul axei- masa | 145 mm - 545 mm |

### AVANSURI

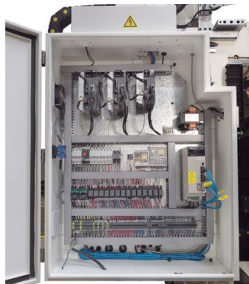
|                                      |                         |
|--------------------------------------|-------------------------|
| Avans de lucru pe axele -X / -Y / -Z | 10 mm/min - 1000 mm/min |
|--------------------------------------|-------------------------|

### PUTEREA DE ANTRENARE

|                                    |         |
|------------------------------------|---------|
| Puterea motorului principal        | 3.7 kW  |
| Avans axa- X                       | 7.7 Nm  |
| Avans axa-Y                        | 7.7 Nm  |
| Avans axa-Z                        | 10 Nm   |
| Puterea motorului pompei de racire | 0.09 kW |

### DIMENSIUNI SI GREUTATI

|                               |                       |
|-------------------------------|-----------------------|
| Dimensiuni de gabarit (lxLxl) | 1.5 m x 1.7 m x 1.8 m |
| Greutatea                     | 1550 kg               |



## DETALII PRODUS

### Machine Design

- The machine column, cast from high-grade grey cast iron, provides dynamic rigidity and lasting precision.
- The extra-wide flat guideways on the Y and Z axes guarantee stability under high loads.
- A dovetail guideway on the X axis ensures high load capacity and tipping rigidity in this axis.
- This design also offers excellent damping characteristics and allows finely adjustable wear compensation, making it particularly well suited to machining tasks with demanding stability requirements.
- The large vertical and horizontal clamping surfaces, combined with a compact and universal design, provide solutions for complex machining requirements.

### Vertical Spindle and Drive

- A swivelling vertical milling head with a slim, compact design delivers maximum flexibility with minimal space requirements.
- The ribbed housing ensures high rigidity and efficient heat dissipation.
- The ease of swivelling expands the machining options and increases the versatility of the toolroom milling machine.
- The traversable quill also enables angled drilling operations.
- For high torque at the tool, spindle speeds are adjustable via a modern inverter across two gear stages.

### Horizontal spindle

- To use the horizontal spindle, the vertical milling head can be swung clear of the working area.
- The dedicated fixture and guideway make this process quick and straightforward.
- For the use of long arbours, a robust arbour support bracket is included as standard equipment.
- The sturdy construction allows high material removal rates and the use of multiple tools simultaneously.
- The long arbours included in the scope of delivery are fully equipped with spacers and bushes.

### Feed

- Powerful servomotors enable infinitely variable feed speeds and rapid traverse in all axes
- High rapid traverse speed reduces non-productive times
- Preloaded recirculating ball screws in all axes guarantee precise, smooth and low-wear positioning without backlash and a long service life
- Micro-control via electronic hand-wheels offering the same handling and positioning as with a conventional machine, just smoother and more precise
- Reliable, maintenance-free high-volume technology

### Equipment

- The machines are supplied as standard with a comprehensive accessories package.
- The scope of delivery includes a digital readout (DRO) with linear scales, an LED work lamp, high-quality anti-vibration mounts, a set of long arbours, and a collet chuck with collets.
- The coolant system is integrated into the base frame and is easy to maintain.
- The control panel is mounted on a long boom and can always be optimally positioned by the operator
- The automatic central lubrication reliably supplies all lubrication points and simplifies daily maintenance.

### Position Indicator

- The high-resolution colour display and powerful CPU enable useful calculation and coordinate functions in multiple languages, ensuring clear and intuitive operation.
- Greater productivity and process reliability are achieved through improved working accuracy and a lower error rate.
- The robust construction of the readout and the proven linear scales enable virtually maintenance-free operation and high reliability.

### **Standard Equipment**

- Control Panel with DRO
- Preloaded ball screws and direct servo drives on all axes
- Automatic Feed on All Axes
- Electronic hand-wheels
- Arbour Support Bracket for Long Arbours
- Milling accessories
- Automatic central lubrication system
- Height-adjustable protective cover
- Coolant system
- LED work lights
- Pivoted Mounts
- Operating tools
- Operation manual

**The proven design with horizontal and vertical milling spindles, combined with large horizontal and vertical work tables, allows adaptation to virtually any production task.**

**This machine is therefore ideally suited to prototype and experimental work, toolmaking, and training applications.**