

## OverHead<sup>®</sup>M 5050A

### the 5050-Advanced

- Optimum utilization of space, free machining area
- best possible chip protection due to overhead axes
- Particularly suitable for high and bulky components



Abb. OverHead<sup>®</sup>M5050-A  
mit B&R Steuerung

## OverHead® | the 5050-Advanced

The OverHead M5050-A CNC milling machine is a revolutionary solution for those who require maximum performance and precision in confined working environments. This state-of-the-art machine is specifically designed to allow maximum travel in a compact space by cleverly placing all drives in the upper part of the machine. This leaves the machine table completely free for your individual projects and machining processes.

The OverHead M5050-A represents the state of the art in metalworking technology. It has been developed to combine efficiency, precision and user-friendliness in a compact design. Whether for small workshops or large-scale production, this machine is the ideal choice for anyone who does not want to compromise on quality and performance.

### Features

- HF spindle up to 40,000 rpm
- 10-fold linear tool changer outside the working area, chip protected
- Integrated chip collection tray
- Minimum quantity cooling/spraying system
- Completely sealed system
- Maintenance-free AC servomotors
- Completely free table clamping surface
- powerful B&R control system with maintenance-free servo motors
- reliable LES units are installed as drives with steel ball screws are installed
- network-compatible control PC with WINDOWS
- Sliding folding door

### Options

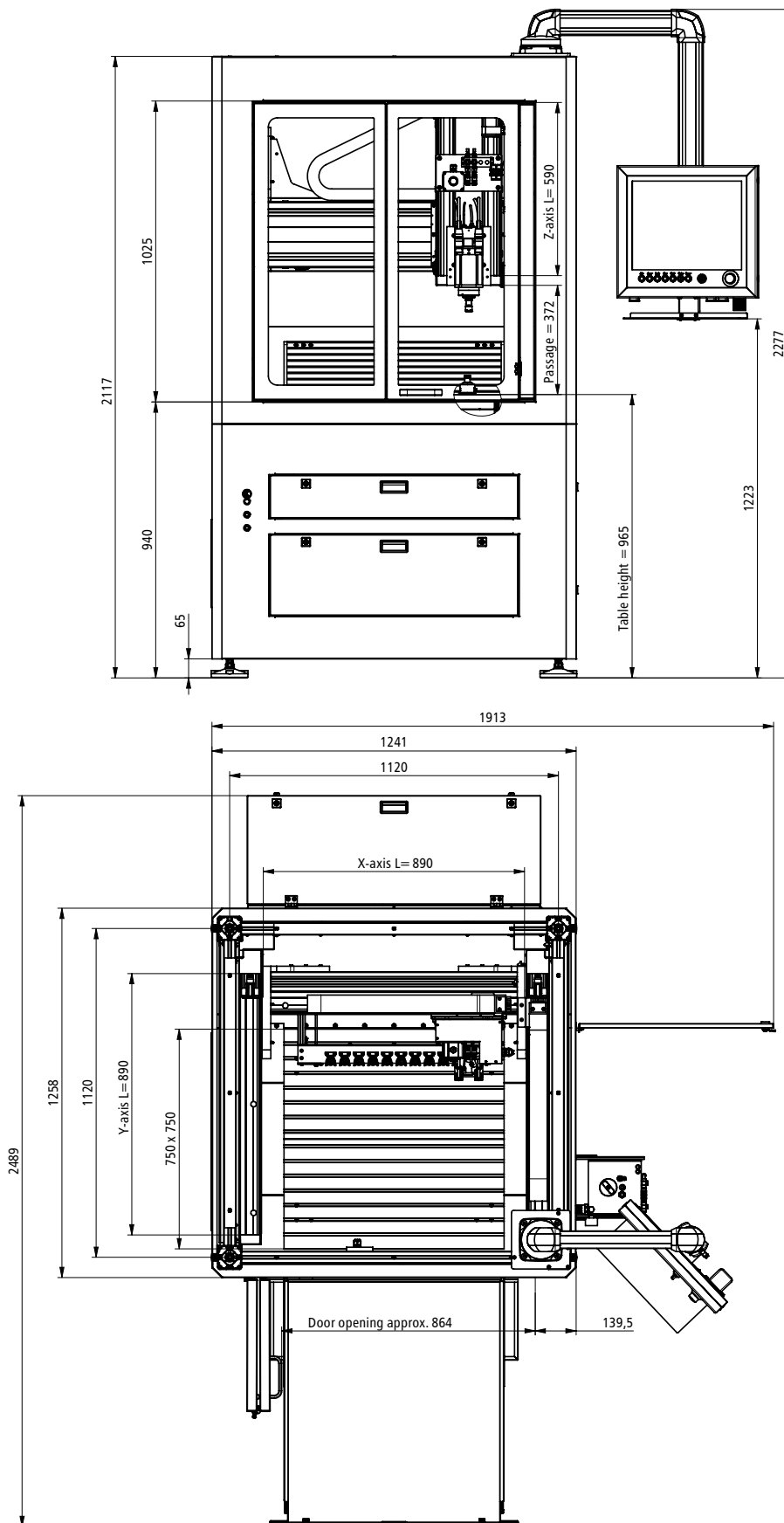
- Cool-Min cold air cooling
- Automatic tool length measurement
- electronic handwheel
- pneumatic sliding door
- Rotation units
- up to 5 axes
- closed or light-tight hood for laser applications
- Workpiece clamping systems (hand lever, vacuum clamping tables, etc.)
- Extraction systems
- Lateral loading for integration into production lines
- LED machine room lighting
- CAD/CAM software

### Technical data

OverHead®	M5050-A
Travel ranges X/Y/Z [mm]*	500 x 500
Z stroke [mm]*	310
Z passage [mm]*	370
Table clamping area WxD [mm]	750 x 750
Table load capacity [kg]	100
Workpiece size; max. [mm]	750 x 500 x 180
Dimensions WxDxH [mm]	1240 x 1310 x 2280
Travel speed [m/min]	15 m/min.
Drive motors	Brushless servo drives with absolute encoders, ball screw for each axis
Drive elements X/Y/Z	Ball screws 16 x 10 / 16 x 10 / 16 x 5 mm
Milling spindles	2kW HF spindle 50,000 1/min (water-cooled)
Tool change system	HSK 25 with 10 tool positions
Tool length, max. [mm]	90 (for HSK25 collet chuck)
Length measuring probe	Yes (zero point button)
Weight [kg]	ca. 720
Electrical specifications	400V / 16A
<b>Part No.</b>	<b>on request</b>

\*ohne montierte Komponenten an den Achsen.

## OVERHEAD® | Dimensional drawing [dimensions in mm]



## OverHead® | highest machining quality

### Typical materials:

- graphite
- copper
- aluminum
- brass
- ceramics
- Special materials

### Application areas:

- micromachining
- precision machining
- medical Technology
- electronics Industry
- automotive supply industry
- tool/mold making

