

CFB-MHX500

FREQUENCY CONVERTER

The new generation of box converters MEYRAT CFB-MHX500 represents the perfect combination of innovation and performance.

Fully optimised for the use of MEYRAT spindles, the CFB-MHX500 frequency converters enable the ideal use of MEYRAT standard spindles with diameters from 16mm to 30mm. Offering more versatility, the CFB-MHX500 Frequency Converter offers a wide range of newly designed features to provide more efficiency and benefits, including:

- Plug and play for quick and easy installation
- Allows to drive 2 spindles sequentially
- Increased security with STO function
- Operating range for low speed machining
- Improved tool lifetime by minimizing creepage currents
- Optimized for MEYRAT spindles from Ø 16 to 30mm
- Micro-USB accessible from the front



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CFB-MHX500 TECHNICAL DATA	Supply voltage (input)	100 – 240 VAC
	Power frequency (input)	50 / 60 Hz
	Rated current	≤ 6 A to 110 VAC / ≤ 3 A to 230 VAC
	Electrical protection	Internal fuse T 10 A / 250 V
	Cooling	Convection
	Number of outputs for spindles	1 or 2, depending on configuration
	Spindles drive	Sequential
	Drive frequencies	MHT: Min 8 Hz (500 rpm) MHF: Min 17 Hz (1'000 rpm)
	Internal ballast strength	470 Ω / 20 W
	Spindles settings	100 selectable sets
	Ambient operating temperature	0 – 40 °C
	Ambient humidity	5 – 90 %, without condensation
	Case dimensions L / H / D	105 / 105 / 224 mm (without connectors)
	Weight	1.9 kg
	Protection	IP20

Advanced features



OLED screen & statistics

Large graphical interface to navigate within menus, including knowledge of the status of the spindle, usage statistics and others.

Lower speeds

Specific control algorithms for low-speed rotation.

Micro-USB A interface

Accessible on the front side for remote support.

Power supply

From mains, supports a voltage of 100 to 240 VAC without adjustments.

26-pin interface

Enabling communication with CN.

STO function

Increases safety when working on one of the connected spindles.



Load Bar

Bright and colorful, representing the load of the spindle. It is detached from the main screen in order to improve its reading.

Directional Cross

Buttons illuminate independently to navigate easily in the menus. Can be used to drive the spindles from the front.

A front installation version is also available. In this way, intergenerational interchangeability is ensured.



Double (single) output

Permanent connection of two spindles, sequentially controllable, On-the-fly re-control. Also available with single output.

INTERFACE

External power supply (IEC 60320 C14)
Spindles connectors (Intercontec M17 9-pin)
CN connector (D-Sub HD 26-pin)

SECURITY

STO function (Safe lack of torque)
Current limiting
Protection against overvoltages
Internal temperature monitoring

The compatibility of the CFB-MHX500 frequency converter with the previous generation (CFB-MHF500) is ensured by a specific 15 to 26-pin adapter*. This guarantees long term support of the previous generation.

Necessary parameter sets are pre-installed in the converter so that it can drive all spindles of the MHF-16, MHF-19, MHF-20, MHF-22, MHF-25, MHF-28, MHF-30, MHT-25, MHT-30 and MDS-38 families already produced. This guarantees compatibility with these spindle families.

*however, some functions are logically affected