Milling motor

FM 1000 NC-ER



Duo-In: The speed can be continuously adjusted to any application, either manually or via the portal interface. Additional LED status display.



The Rapidfix cable enables a quick and easy connection to the portal.

Highest concentricity due to the filigree coordination of all components and the fact that armature and spindle are manufactured and balanced from one piece.



The sound pressure level of the FM 1000 NC-ER is only 74 db (A) and the device is thus.

The MAFELL milling motors are manufactured under the strictest quality controls in the German town of Oberndorf a. N. Before delivery, each milling motor is “run in” in a test cabin. This increases the tool life and the service life.

Product features

- **Extremely quiet**
- **Spindle lock**
- **Made in Germany**
- **LED indication for overload**

Areas of application

- Model making, mould making, advertising technology, engraving, jewellery, electronics, stonemasonry
- Ideally suited for portal milling machines, cutting tables, grinding devices and flexible shafts
- For wood, metal, plastics, foam, polystyrene, stone

Product description

With the FM 1000 NC-ER, MAFELL has developed another milling motor “Made in Germany”. The high quality standard and well thought-out details make the MAFELL milling motor the best partner in its performance class.

The speed can be infinitely adjusted to any application.
In addition, the digital electronics are equipped with soft start, constant speed under load, idle speed reduction and overload protection.

The labyrinth seal of FM 1000 NC-ER permanently protects the spindle and bearing from even the smallest particles, dust and chips.

Technical data — FM 1000 NC-ER

Nominal power consumption	1.000 W
Universal motor	230 V / 50 Hz
Nominal idling speed	4.000 – 25.000 rpm
NC-Portal connection	M8 / 4-pol.
Power supply in NC operation	8 - 56 V
Portal control	0 - 10 V
Clamping collar / collet chuck	43 mm (1,69 in.) / 8 mm (0,31 in.)
Dimensions (L x W x H)	254 x 79 x 73 mm (10 x 3,11 x 2,87 in.)
Sound pressure level db (A)	74 dB (A)
Weight	1,65 kg (3,64 lbs)

Models

Milling motor FM 1000 NC-ER	**9M1401**

Scope of supply

1 Collet chuck ER 16, 8 mm (0,31 in.)
1 Clamping key ER 16M
1 Union nut ER 16M
1 Mains cable 0,75 + 4 m
1 NC Portal control M8 / 4-pol, 5 m

Special accessories / tools

Union nut ER 16M, (balanced)	**093758**
Collet chuck ER 16, 3 mm	**093753**
Collet chuck ER 16, 4 mm	**093754**
Collet chuck ER 16, 6 mm	**093755**
Collet chuck ER 16, 8 mm	**093756**
Collet chuck ER 16, 3,175 mm (1/8“)	**093757**
Collet chuck ER 16, 6,35 mm (1/4“)	**093760**
Collet chuck ER 16, 10 mm	**093759**

Errors an omissions excepted. · 09/25 Printed in Germany

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