



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



The fastening is possible with the clamping collar or with the direct screw 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 spindle lock can be locked using the push button or by means of a clamping key on the flats of the spindle.



The labyrinth seal permanently protects the spindle and bearing from even the smallest particles, dust and chips.



The MAFELL milling motors are manufactured under the strictest quality controls in the German town of Oberndorf a. N.

Product features

- 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 1650 NC-LO, 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.

Technical data

FM 1650 NC-LO

Nominal power consumption	1.650 W
Universal motor	230 V / 50 Hz
Nominal idling speed	4.000 – 23.000 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.)
Portal mounting	6 x M6
Dimensions (L x W x H)	346 x 98 x 86 mm
Sound pressure level db (A)	85 dB (A)
Weight	3,22 kg (6,96 lbs)

Models

Milling motor FM 1650 NC-LO	9M1801
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Scope of supply

- 1 Collet chuck OZ 12, 8 mm (0,31 in.)
- 1 Clamping key
- 1 Mains cable 4 m
- 1 NC-Portal control M8 / 4-pol, 5 m

Special accessories / tools

Collet chuck OZ 12, 3 mm	093827
Collet chuck OZ 12, 4 mm	093828
Collet chuck OZ 12, 6 mm	093829
Collet chuck OZ 12, 8 mm	093830
Collet chuck OZ 12, 10 mm	093831
Collet chuck OZ 12, 12 mm	093832
Collet chuck OZ 12, 3,175 mm (1/8")	093833
Collet chuck OZ 12, 6,35 mm (1/4")	093834
Collet chuck OZ 12, 12,7 mm (1/2")	093835
Union nut OZ 12	093836