

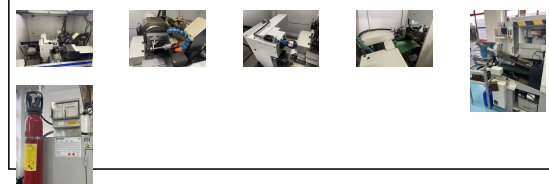
MONNIER & ZAHNER

KOEPFER MZ 120

Stock no. :1022-2352

MACHINE-DATA

Machinetype	: Gear Hobbing Machine - Horizontal
Make	: MONNIER & ZAHNER
Type	: KOEPFER MZ 120
Year	: 2009
Control type	: CNC
Control	: Fanuc 18i-MB
Storage location	: Monheim (Germany)
Origin	: Switzerland
Delivery time	: Immediately
Quotation	: Ex warehouse, loaded on truck
Price	: on request



TECHNICAL DATA

max. wheel diameter	2-45 mm
gear width	250 mm
max. module	1,5 mm
min. module	0,5 mm
Control	Fanuc 18i-MB
weight of the machine ca.	2,2 t
dimensions of the machine ca.	2100 x 1440 x 1700 m

TECHNICAL DESCRIPTION

The combined CNC gear hobbing and worm milling machine KOEPFER MZ 120 is characterized by its flexible usability and is used in the small module area.

Just by swiveling the milling spindle from the horizontal to the vertical position and selecting the corresponding operating mode of the CNC control, the worm milling machine becomes a gear hobbing machine and vice versa.

CNC control Fanuc 18i-MB (Dialog/ISO)

CNC axes =

X-axis plunge axis



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Z-axis longitudinal axis

C-axis workpiece spindle

B-axis tool spindle

V-axis loader axis longitudinal

A-axis swivel axis tool spindle head (included as an option)

Y-axis shift axis (included as an option)

With the following production programs:

Worm milling

Hobbing

Worm hobbing

Bevel gear and spur gear milling

Bevel gear hobbing

Milling cycles =

straight, oblique, crowned toothing,

radial, radial-axial, co- and counter-rotating milling,

roughing, finishing,

worm gears,

straight-toothed bevel gears, face gearing (option only in the partial process)

Worms

[Equipment]

Coolant tank 300 liters KF with LNS Turbo MS 250 Chip conveyor, built in 2021!!!

Kraft and Bauer fire extinguishing system

Spiral conveyor

Machine documentation

[Technical data]

Workpieces:

Workpiece diameter 2-45 mm

Max. workpiece length 250 mm

Tooth length 150 mm

Max. module in steel=

1 mm (gear hobbing)

1.5 mm (worm milling)

0.5 mm (bevel gear hobbing)

Tools:

Cutter diameter=

16-32 mm (gear hobbing)

40-63 mm (worm milling)

Machine:

Max. setting angle of milling head=



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+/- 45° (gear hobbing)
+/- 30° (worm milling)
Shift travel=
34 mm (manual adjustment)
34 mm (CNC axis)
Collet/retraction mandrel W 20
Max. speed of workpiece spindle 770 rpm.
Milling spindle drive 0.55 kW
Max. milling spindle speed 8000 rpm
Axis drives =
X-axis (plunging) / travel 80 mm via CNC
Z-axis (longitudinal feed) / travel 190 mm via CNC
C-axis (workpiece axis) via CNC
Rapid traverse =
X-axis 6000 mm/min.
Z-axis 6000 mm/min.
Hydraulic unit 0.37 kW

VIDEO-LINKS

Video No.1 : <https://www.youtube.com/embed/kdDqaQ8fQ8g>

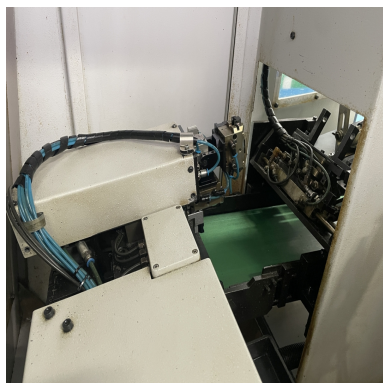
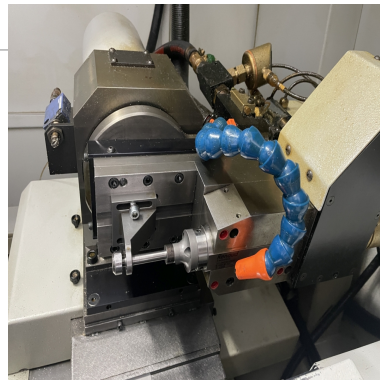
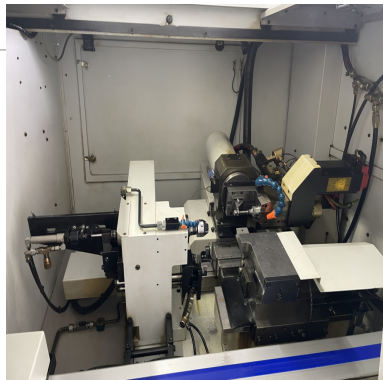
WEB-LINK

<http://mhp.logotech.de/hpm/v7/Datenblatt/datenblatt.php?machineno=1022-2352>

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Technical details and information subject to amendments and errors.

Knops Werkzeugmaschinen GmbH & Co. KG

Page: 4/4