

# Koepfer MZ120

## Gear hobbing and worm milling machine

- CNC gear hobbing and worm milling machine to produce spur gears, worm gears, worms and threads
- Suitable for large and small quantities
- Easy resetting from gear hobbing to worm millin



### Technical characteristics

#### Workpieces:

Max. module in steel:	1 mm
Hobbing:	1.5 mm
Worm milling:	2 - 45 mm
Workpiece diameter:	2 - 45 mm
Max. workpiece length:	165 mm
Autom. loading:	250 mm
Hand loading:	150 mm
Length of gear teeth:	150 mm

#### Tools:

Milling cutter diameter:	16 - 32 mm
Hobbing:	40 - 70 mm
Worm milling:	

#### Machine:

Max. setting angle of milling head:	
Hobbing:	±45°
Worm milling:	±30°
Collet / retractable arbor:	W20/3C
Workpiece spindle speed:	750 r.p.m.
Milling spindle drive:	0,55 kW
Max. milling spindle speed:	8'000 r.p.m.
Axis drives:	
X axis (plunging)	max. way = 70 mm
Z axis (longitudinal feed)	max. way = 200 mm
C axis (workpiece spindle)	
Y axis (shift axis)	34 mm
Rapid traverses: X - and Z - axis:	6 m/min
Hydraulic unit:	0,37 kW
Weight:	approx. 1'600 kp
Dimensions:	1700 x 1440 x 1700 (length/width/height)

**CNC-Control:** Fanuc 18i-MB

**Programming:** dialogue / ISO

**Milling cycles:**  
straight, oblique, crowned gearing, radial, radial-axial, climb and conventional milling, rough turning, finishing, worm wheels, straight-toothed bevel wheels, worms, front-end toothing

#### Options:

Setting angle with CNC axis  
Deburring device with disc or tool  
Different loading systems (customized)  
Positioning device for skiving or recutting

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