

FEHLMANN PICOMAX® 21-M Precision coordinate drilling and milling machine with feed table

Rapid — reliable — precise



Robust and very user-friendly precision coordinate drilling and milling machine. Ideal for training purposes, as well as for the production of single pieces and small series.

The integrated motorised table allows ultra-rapid and precise positioning not just manually, but also automatically, for bolt hole circles, dot patterns and rectangular pockets. Entries are made simply and comfortably via the digital readout's touch screen display. Glass scales and ball screws guarantee for long-lasting high production quality.

FEHLMANN PICOMAX® 21-M

Characteristics / operation:

- Digital readout Heidenhain POSITIP 8013 active, with comfortable touch screen operation (LCD-colour monitor 12.1")
- Electronic adjustable spindle speed
- Oriented spindle stop
- Quick tool change system SF32
- Precision coordinate table KS 323 M

- Direct measuring system in X and Y
- Machine base with incorporated tool cabinet, including partitioning for storing the spindle tools
- Swarf and splash guard mounted on the machine base

Areas of application:

- Apprentice training
- Prototype making / test workshops
- Special machinery
- Tool and jigs
- Repair departments



Simple, rapid spindle speed adjustment via touch screen, enter and save values directly on the display.



Additional information, such as hole tapping table, are stored.



Entering cycles and simple programming functions on display.

Technical Data

Spindle

Machine head adjustment W	450 mm
Quill movement Z	110 mm
Drive power	2.9 kW
Max. spindle torque	40 Nm
Speed range infinitely variable	50–6300 min ⁻¹

Tool change system SF 32

Repeat accuracy tool changing	0.002 mm
Tool changing (manual)	approx. 3 s

Feed drive

Feed rates X / Y	1–2000 mm/min
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Capacity (steel 700 N/mm²)

Economical milling capacity	25 cm ³ /min
Max. drilling capacity	ø 20 mm
Tapping capacity	M 16

General

Dimensions (W/D/H)	1.5/1.35/2.1 m
Machine weight	approx. 930 kg
Total connected load	4 kW
Operating voltage	3 × 400 V 50 Hz
Mains fuse, slow	16 A

Measuring system

Direct measuring system with linear scale	X/Y
Indirect measuring system with encoder	Z
Smallest programmable increment	0.001 mm
Positioning tolerance	0.010 mm

Table KS 323-M

Longitudinal travel X	450 mm
Transverse travel Y	260 mm
Clamping area	770 × 320 mm
Distance table — spindle nose	0–527 mm
Height above floor	1088 mm
Table height H	194 mm
Max. table load	200 kg
Tee-slot width	12 H8
Tee-slot spacing/amount	50 mm/5

**Made in
Switzerland**

Your Precision Advantage.®