

Details

DECKEL
repowered by FPS

FP4M

FP4 M 2203 conventional



3 axis digital display Heidenhain ND 7013

Easy to use actual value display with radius correction for 100 tools, furthermore hole circle, hole segment, hole row and hole frame calculation graphically supported. The display has 100 programmable reference points and a cutting data calculator. Machine functions such as motor brake on/off, spindle start/stop, emergency stop, are clearly organized on the control panel.

Highest precision due to direct path measuring systems in all axes.

Positioning accuracy **0,005 mm**



With additional emergency stop

Due to safety reasons an additional emergency stop button is equipped on the machine.

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Vertical milling head

The milling head can be swiveled +/- 90° and can be positioned in any number of degrees via a scale.



Horizontal working

For horizontal working the milling head must be swiveled by 90° and pushed backwards.



Slidable milling head

The vertical milling head can be additionally moved **150 mm** in the longitudinal axis for maximum working range, thus increasing the **X - Y working area to 500 x 550 mm**.

Details



Locking at the milling head

After the horizontal working or swiveling of the milling head it can be quickly brought back again in the **vertical position** via a locking and can therefore be immediately repositioned.



Vertical spindle

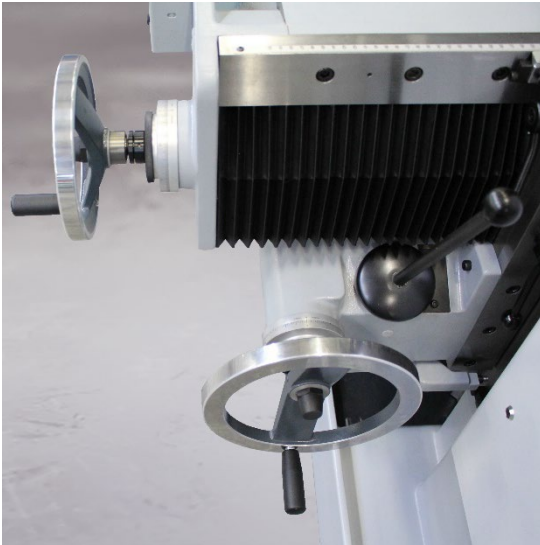
The vertical spindle is manually telescopic by **80 mm** and can be used as a drilling quill. The telescopic quill has a clamping feature



Fixed table

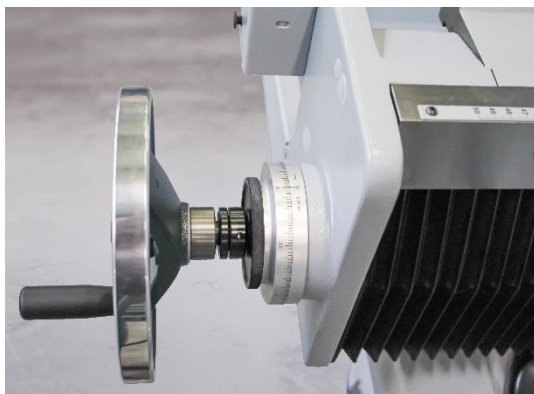
The fixed table is included in the basic equipment of the machine. It has a clamping surface of **800 x 460 mm** and the max. load is **400 kg**. The fixed table has **seven 14H7** slots with a distance of **63 mm**.

Details



Handwheels

Mechanical manual safety handwheels with additional scale ring in all axes with precision mechanical drive and sensitive response. The handwheels are arranged ergonomically and user-friendly for maximum ease of operation.



Handwheel scale

In addition to the digital display, a scale on the handwheel allows positioning in all axes.



Linear scale

The linear scale serves as a rough scale for an overview of the working position of the respective axis.

Details



Spindle speed 25 – 2500 rpm

High-torque direct drive with **18** gear stages for high efficiency and maximum milling performance on the milling spindles.



Main spindle drive

Main spindle drive via high-torque pole-changing three-phase brake motor.

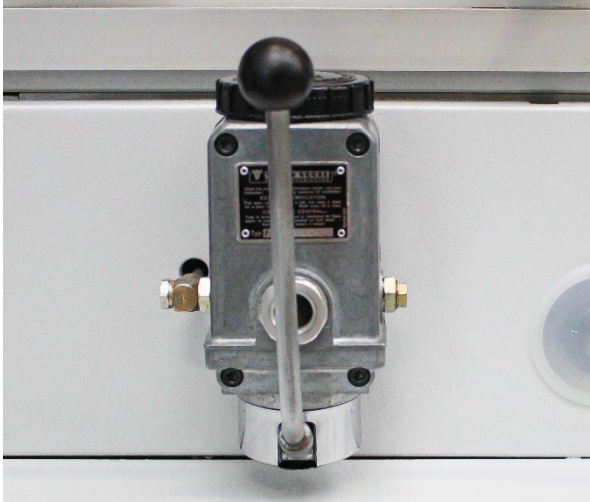


Measuring system

The machine is equipped with a direct measuring system through glass scales in **all axes X Y Z.**

Maximum precision due to direct position measuring system as standard.

Details



Manual central lubrication:

The machine is equipped with a manual central lubrication for all axes.
Lubrication is carried out by a hand pump.