

Details

DECKEL
repowered by FPS

FP4MK

FP4 MK 2203 – Active Digital



Active digital read out new machine control panel

Easy to use FPS ACTIVE 3-axis digital read out with the possibility of active automatic positioning:

Incremental chain measurement and absolute distance measurement positioning with directional setting **+/- LED display** for all axes on the machine. All machine functions such as stepless feed rapid traverse, motor brake on/off, spindle start/stop, emergency stop etc. clearly organized on the control panel. Highest precision due to direct displacement measuring system 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.

Details



Vertical milling head

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



Horizontal working

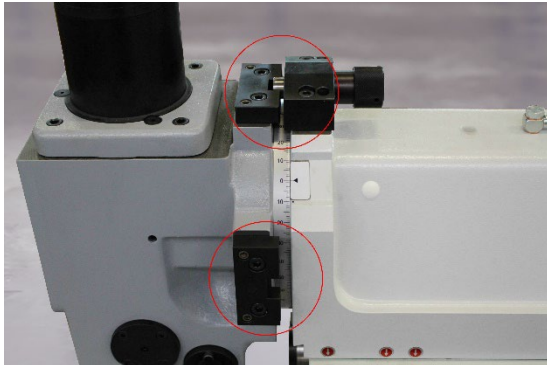
For horizontal working the milling head must be swiveled by 90° and pushed backwards.



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

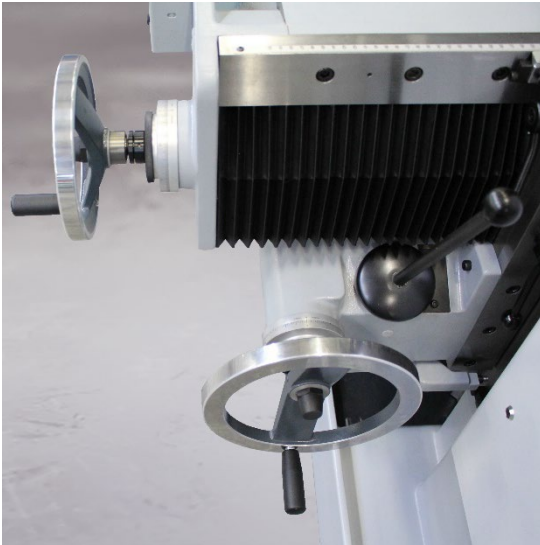
The vertical spindle is manually telescopic by **80 mm** and can be used as a drilling quill. The telescopic quill has a clamping feature



Fixed table

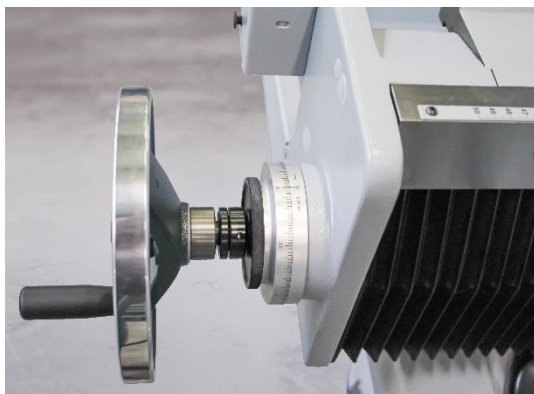
The fixed table is included in the basic equipment of the machine. It has a clamping surface of **800 x 460 mm** and the max. load is **400 kg**. The fixed table has **seven 14H7** slots with a distance of **63 mm**.

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



Automatic central lubrication:

The machine is equipped with an automatic central lubrication for all axes.