

Details

DECKEL FP1 repowered by FPS aktiv

FP1 2101 – 200 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. High precision due to direct displacement measuring system in all axes.
Positioning accuracy **0,005 mm**.



With additional LED display

LED display for direction indication in **+/-** for **X and Z** axis.
In order to control the chosen feed / axis direction at the active positioning.

Details



Vertical milling head

The milling head can be swivelled $\pm 90^\circ$ 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.



Vertical milling head

The vertical milling head is additionally moveable by **100 mm**, therefore the **X - Y** working area increases to **300 x 260 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 **60 mm** and can be used as a drilling quill. The telescopic quill has a clamping feature.



Fixed table

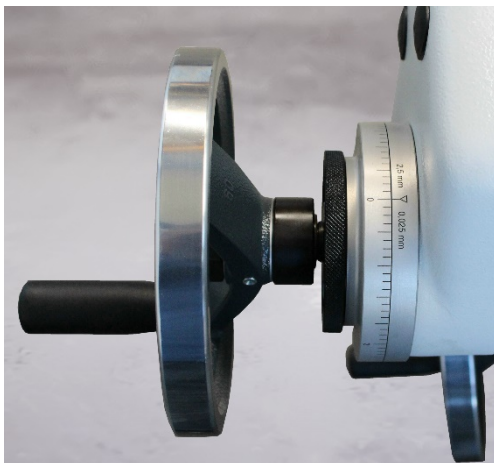
The fixed table is included in the basic equipment of the machine. It has a clamping surface of **600 x 210 mm** and the max. load is **200 kg**. The fixed table has **four 12H7 slots** with a distance of **45 mm**.

Details



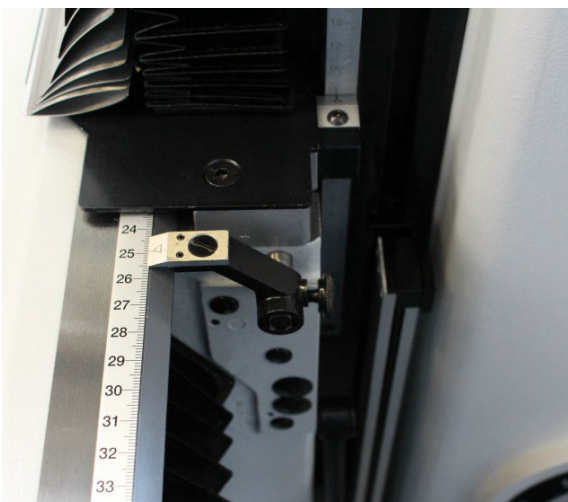
Handwheels

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

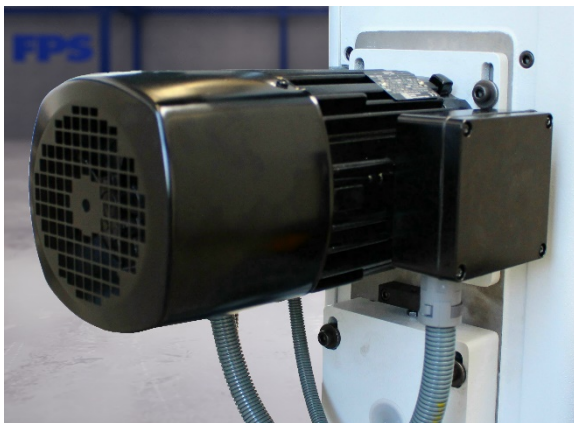
The linear scale serves as a rough scale for an overview of the working position of the respective axis.

Details



Spindle speed 40 – 2000 rpm

High-torque direct drive with **8 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.



Feed drive

Stepless adjustable digital drive.

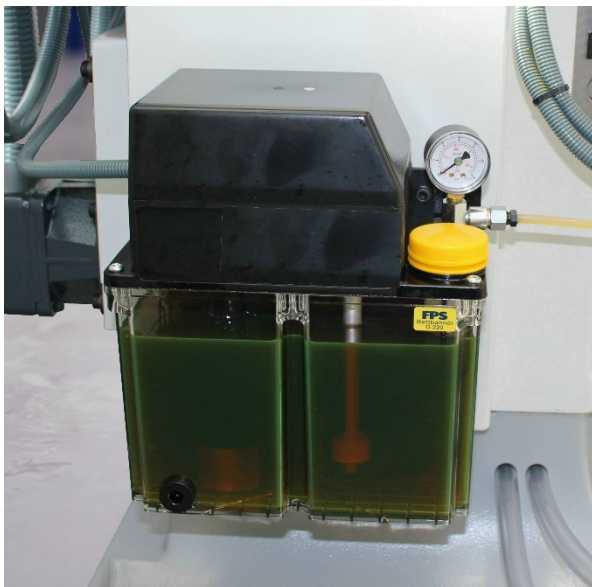
Details



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**.



Option:

Automatic central lubrication:

Automatic central lubrication can be retrofitted to all conventional DECKEL machines as a useful option.