

## Details

# DECKEL FP1

repowered by FPS aktiv

## FP1 2102 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 LED display

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

## Details



### Vertical milling head

The milling head can be swiveled  $\pm 90^\circ$  and can be positioned in any number of degrees via a scale



### Horizontal working

For horizontal working the milling head must be swiveled by  $90^\circ$  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

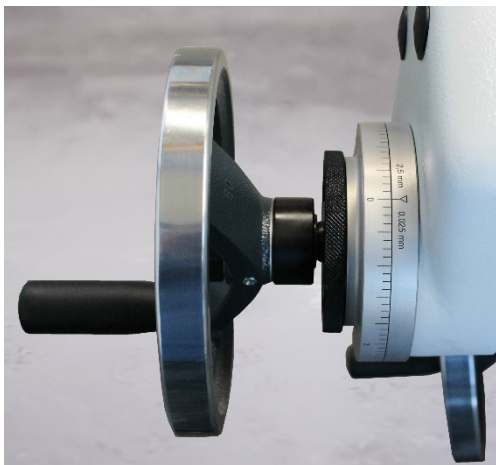
The fixed table is included in the basic equipment of the machine. It has a clamping surface of **600 x 210 mm** and the max. load is **200 kg**. The fixed table has **four 12H7** slots with a distance of **45 mm**.

## Details



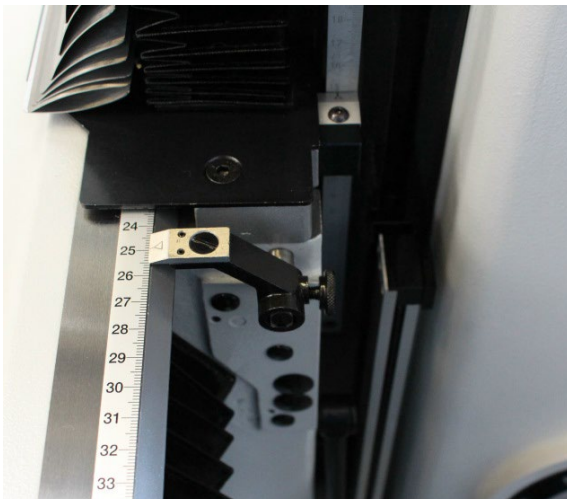
### Handwheels

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.

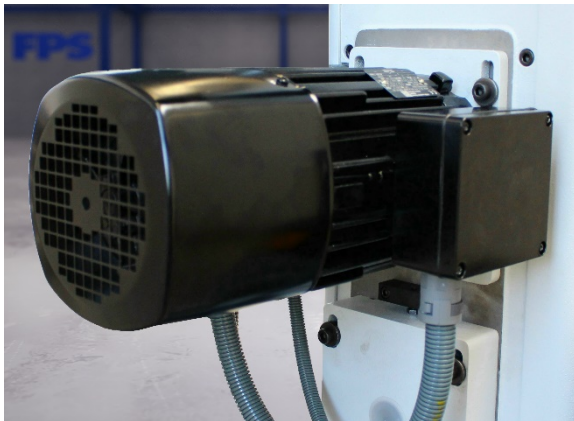


## Details



### 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.

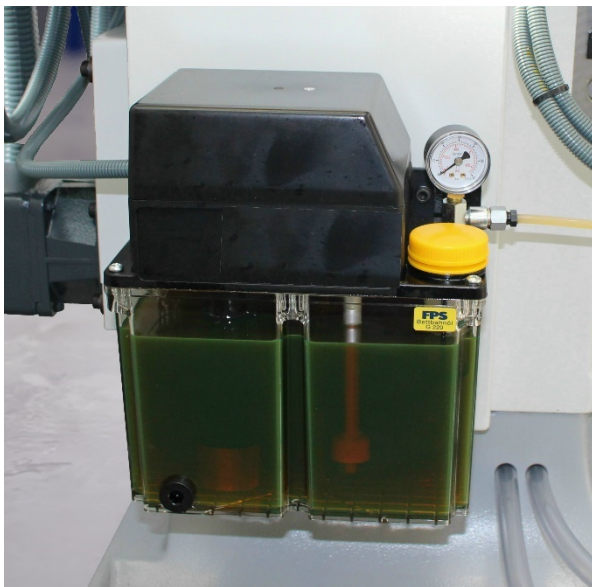
## Details



### 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.