

## Details

**DECKEL**  
repowered by FPS

**FP3LV**  
aktiv

**FP3LV 2309 – 100 Active - Digital**  
With stepless adjustable feed: X / Y / Z  
Inclined bed machine X = 1200mm



### 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

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

## 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  $90^\circ$  and pushed backwards.



### Slidable milling head

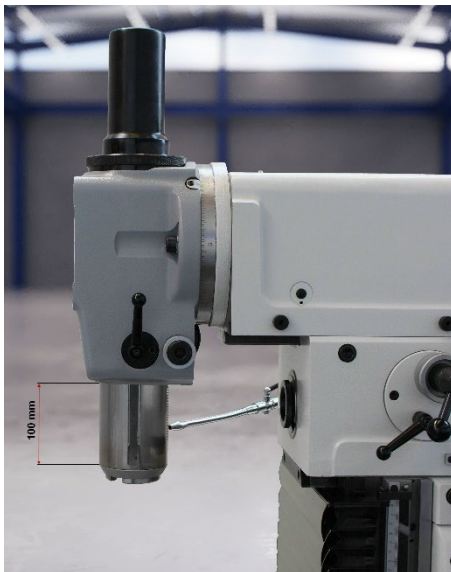
The vertical milling head can be additionally moved **200 mm** in the longitudinal axis for maximum working range, thus increasing the **X - Y working area to 1200 x 500 mm**.

## 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 **100 mm** and can be used as a drilling quill. The telescopic quill has a clamping feature



### Horizontal spindle

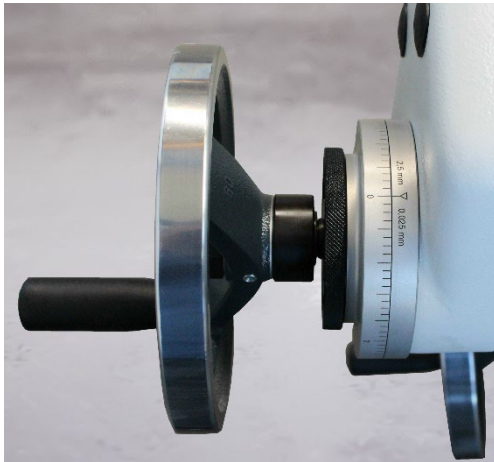
The horizontal spindle is manually telescopic by **100 mm** and can be used as a drilling quill. The telescopic quill has a clamping feature.

## Details



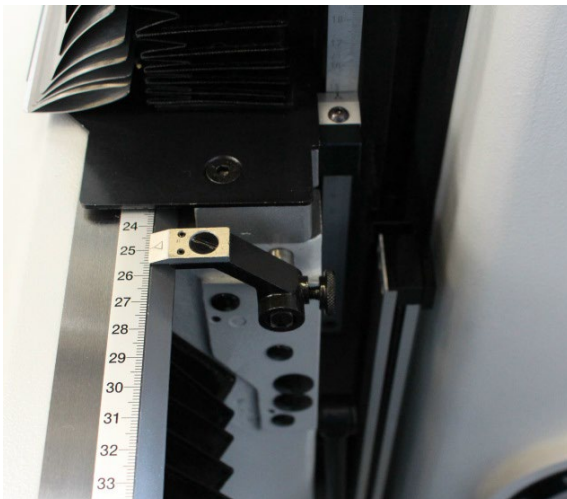
### Handwheels

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



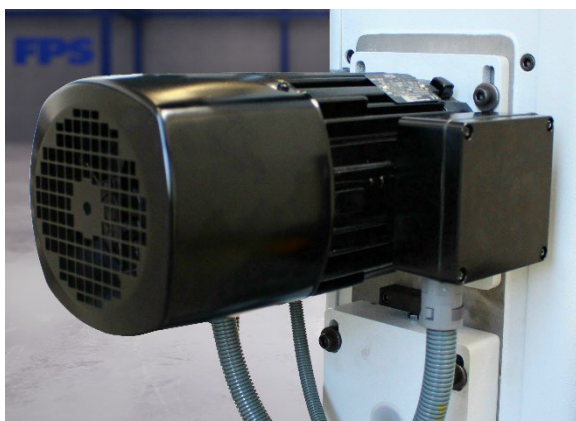
### Fixed table

The fixed table is included in the basic equipment of the machine.  
It has a clamping surface of **1400 x 550 mm** and the max. load is **3000 kg**.  
The fixed table has **six 16H7** slots with a distance of **90 mm**.



### Spindle speed 40 – 2000 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.

## Details



### Feed drive

**5 – 500 mm/min**

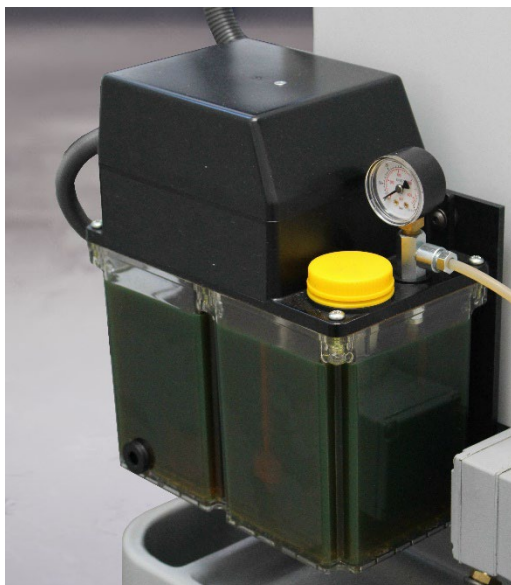
Stepless adjustable digital drive.



### 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.