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**Details** 





## **Siemens Sinumerik One with NCU 1740**

Comfortable to operate Siemens Sinumerik One contouring control. ShopMill, TFT color-flat-panel 19" multitouch screen.

ShopMill, DIN/ISO und CNC High level language under Sinumerik Operate.

Block processing time: 0.60 ms

Optional:

Machine type switchover:

manual, automatic



#### **Hydromechanic clamping system**

The spindles, vertical and horizontal, are equipped with a hydromechanic tool clamping system.

Tool holder **SK 40 / DIN 69872** or **DIN 2080** 



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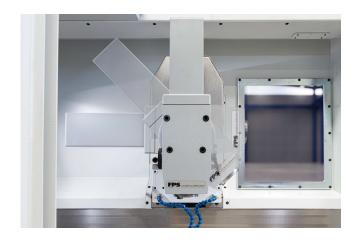


## **Slidable milling head**

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 **630 x 600 mm**.

To make the adjustment of the milling head arm in the longitudinal axis as comfortable as possible, an additional removable handwheel has been installed.





## **Vertical milling head**

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

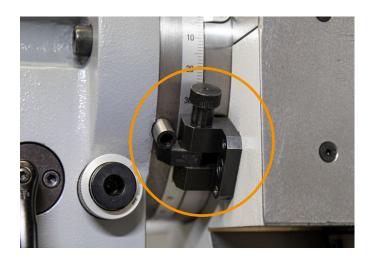
Optionally, a **digital angle encoder** can be used to align the vertical milling head with an accuracy of **+ / - 5"** (angular seconds).



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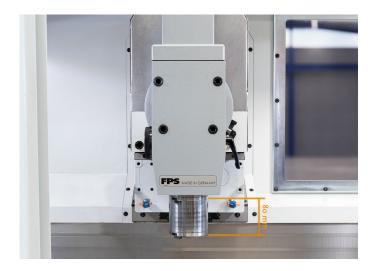
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## Locking at the milling head

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.** 



## **Telescopic vertical quill**

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



## **Horizontal working (Option)**

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

For horizontal machining, the vertical milling head does **NOT** have to be dismantled, it is pushed into the rest position.

This makes changing the machining levels

This makes changing the machining levels quick and easy.



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## **Handwheels**

Mechanical manual safety handwheels with additional scale ring in all axes with 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 easy positioning.



## **Electronic handwheel (Option)**

Portable, corded, electronic handwheel with machine - function keys.



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## **LED - workspace lighting**

The working area of the cabin is illuminated by two **24V** - **LED light strips**.



## **Coolant in spindle base**

Articulated hoses can be used to ensure that the tool is supplied with coolant in any position.



## **Coolant tank**

External, movable coolant tank with a capacity of **80 liters**.

The coolant pump is integrated in the coolant tank.



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## **Automatic central lubrication**

Lubrication of all guides and spindles due to a time interval.



## **Fixed table**

The fixed table is included in the basic equipment of the machine.

It has a clamping surface of **800 x 470 mm** and the max. load is **350 kg.** 

The fixed table has **six 14H12** slots and a center slot **14H7**, with a distance of **63 mm**.



#### Main spindle drive

Main drive by a high-torque direct drive.

Speed range:

20 - 5000 rpm infinitely variable

Output power:

7,5/14,0 kW (100%/25% DC)

Torque:

120/243 Nm (100%/25% DC)



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## **Feed drive**

Internal, infinitely variable, digital feed in all axes.

Feed range:

**0 - 5000 rpm infinitely variable** Rapid traverse:

10 m/min



## **Full protection cabin**

Full protection cabin to avoid emissions with optimal, user-friendly 2 side access.
Glazed on all sides, front with tempered glass.









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## **Extendable splash guard (Option)**

Additional, laterally extendable splash guard in the lower cabin area, under the fixed table.

Protects the operator from coolant and swarf in the leg area, especially during manual operation.



## Foot switch for tool clamping (Option)

For convenient clamping of tools without additional pressing of a switch on the control panel.



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## Minimum quantity lubrication (Option)

Minimum quantity lubrication **UFS20** for coolant (oil mist lubrication) mounted on the spindle base.

The nozzle can be removed from the machine. A compressed air supply to the machine is required (4-8 bar at 20 Nm<sup>3</sup>).



# External blowing air on spindle base (Option) Incl. Pneumatic maintenance unit

External blowing air on spindle base with removable nozzle.

Incl. articulated hose and pneumatic maintenance unit.

A compressed air supply to the machine is required (4-8 bar at 20 Nm<sup>3</sup>).



#### **Pneumatic maintenance unit**

Pneumatic maintenance unit for preparing the external compressed air. (for external blowing air)



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## Machine type switchover (Option)

Switchover by key to the machine type "hand-controlled milling machine"
Switch between

Manual mode (only manually enerable)

Manual mode (only manually operable)
NC - mode (3 - safety operation modes\*)

\*Automatic operation, setup operation, process monitoring operation



#### Milling splash protection (Option)

Electronically fused splash guard for manual operation.

Spindle operation is only possible in the working position of the cutter guard.



## NC - dividing Units (Option)

Single-axis dividing unit with hydraulic spindle clamping and interpolation.

Loading vertical: 340 kg
Loading horizontal: 95 kg
Loading horizontal with tailstock: 170 kg

Center height: 125 mm
Spindle passage: Ø 30 mm
Dividing accuracy: +/- 15 sec.
Repeating accuracy: +/- 4 sec.

Torque on the dividing spindle

max. 100 Nm



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## Overarm with counterbearing (Option)

Overarm with counterbearing for horizontal working.



## Camera (Option)

Camera for workspace monitoring. The camera is protected against penetration of liquids and dust. Video output via HDMI.





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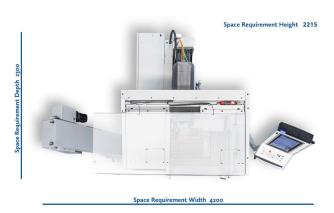
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## **Swarf conveyor** (Option)

For facilitating the removal of swarf from the work area. Swarf conveyor suitable for wet and dry machining.

Discharge height 800 mm.



<sup>®</sup>Data without safety distances



Space Requirement Width 3250