

# F 3Pro

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Universal milling machines with servo drives

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## SIEMENS CONTROL SINUMERIK 808D ADVANCED

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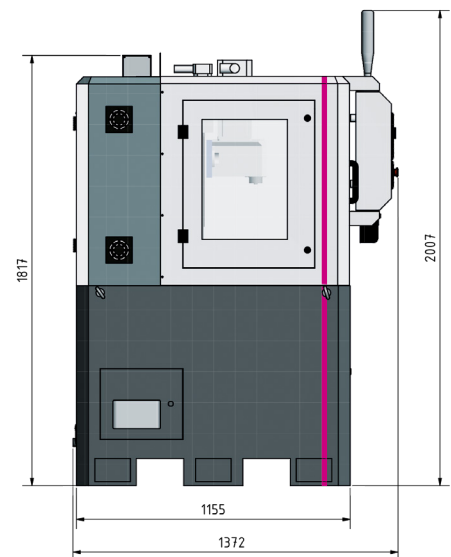
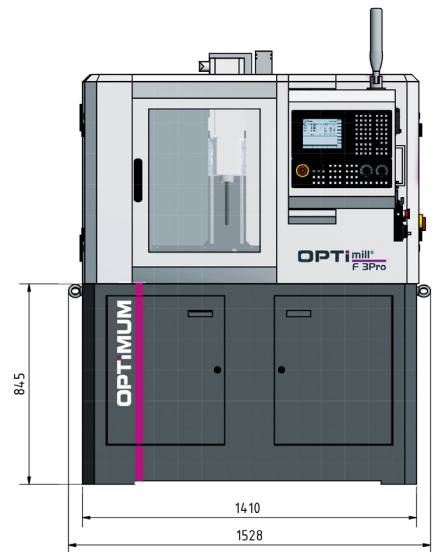
- Linear guides on all axes
- All axes with ball screws
- Servo drive on all axes (X, Y and Z axis)
- Tool change at the push of a button (electropneumatic tool clamping device)
- Coolant system
- Central lubrication
- Signal light
- Massive, exact milling table large dimensioned and precisely surface machined
- Swivelling control panel
- The portable, electronic handwheel with enabling switch and emergency stop push-button makes it much easier to run in programmes.
- Additional package SIEMENS material defects liability and free on-site service OSS see page 258
- For information on maintenance contracts, see page 258



# OPTIMILL F 3PRO

## TECHNICAL DATA

Model	F 3Pro
Article no.	3500416
<b>Machine data</b>	
Electrical connection	400 V / 3 Ph ~50 Hz
Total connected load	5 kVA
<b>Milling spindle</b>	
Drive motor S1 operation	1.5 kW
Torque drive motor S1 operation	9.5 Nm
Spindle seat	ISO 30 / BT 30 x 45°
<b>Cooling lubricant system</b>	
Coolant pump output	95 W
Tank capacity	50 litres
<b>Milling cutter size</b>	
Cutter head size max.	Ø 50 mm
End mill size max.	Ø 25 mm
<b>Milling precision</b>	
Repeat accuracy	± 0.02 mm
Positioning accuracy	± 0.01 mm
<b>Tool changer</b>	
Number of tool positions	8 <b>optional</b>
Maximum tool diameter / free additional positions	100 mm / 180 mm
Maximum tool weight	6 kg
Tool change time tool to tool	6 Seconds
<b>Travel</b>	
X axis	360 mm
Y axis	170 mm
Z axis	250 mm
<b>Feed speed</b>	
X axis	10 m/min.
Y axis	10 m/min.
Z axis	10 m/min.
<b>Speed range</b>	
Speeds*	max. 6 000 rpm
<b>Motor torque</b>	
X axis	3,5 Nm
Y axis	3,5 Nm
Z axis	6 Nm
<b>Milling table</b>	
Throat	270 mm
Clearance spindle to table	110 - 360 mm
Table length x width	460 x 200 mm
T-slot size / amount / distance	12 mm / 3 / 73 mm
Maximum payload	30 kg
<b>Dimensions</b>	
Length x width x height	1410 x 1372 x 2007 mm
Overall weight	720 kg



## SINUMERIK 808D ADVANCED

- RJ45 Ethernet port
- 8.4" LCD colour display with a resolution of 800x600
- Network function
- Ready for remote maintenance
- AST function gives users an easy optimisation option in case of stricter dynamic and precision requirements
- Closed-loop control circuit
- Greater precision
- Incremental encoder/referencing move required

### Warranty

With the warranty, you protect your machine against warranty damage for 12 or 36 months. (must be purchased with the purchase of the machine). Information on the warranty at [www.optimum-machines.com](http://www.optimum-machines.com)  
12 months; Art. no. 3589010; 36 months; Art. no. 3589012



**WORK AREA**



- Clearly visible from three sides
- Clear, resilient Makrolon panes

**HANDWHEEL**



- Portable
- Electronic
- Substantially facilitates running in of programs
- Emergency stop button
- Confirm button

**SIGNAL LIGHT**



- Visually displays the machine status
- Very bright and with a long service life

**CONNECTIONS**



- For easy access
- Easy to connect to the machine
- Data interfaces:
  - > Power connection
  - > RJ45 plug- in connection
  - > USB connection

**LINEAR GUIDE**



- Maximum static and dynamic stiffness
- High positioning accuracy
- Smooth, backlash-free movement
- Low coefficient of friction
- Excellent error compensation due to X layout

**TOOL CHANGE**



- Maximum static and dynamic stiffness
- High positioning accuracy
- Smooth, backlash-free movement
- Low coefficient of friction
- Excellent error compensation due to X layout

**OPTIONS**

**STARTER SET BT 30**

Article no. 3536107

Comprises:

- 1 piece cutter head tool holder **1**
- 1 piece drill chuck **2**
- 2 pieces each Weldon 6 mm / 20 mm **3**
- 1 piece. each Weldon 8 mm / 10 mm / 12 mm / 16 mm **3**
- 1 piece adapter BT 30 to MT 2 **4**
- 4 pieces collet chuck holder ER 32 **5**
- 1 piece collet spanner ER 32 **6**
- 18-part collet set ER 32 **7**
- 1 piece height adjuster **8**
- 1 piece assembly and tool setting aid **9**
- 14 pcs. pull studs **10**
- 1 pc. taper squeegee **11**



➤ More information can be found on page 288