

DATASHEET

CNC milling machine

OPTImill F 80 Sinumerik 808D Advanced



Ideal for parts production, prototype and fixture construction.

Article number **→** 3501085

Brand V

Catalog directory >

Metalworking machines » CNC milling machines » OPTImill F 80



Shipping informations >

Packaging Metrics		Weights		Delivery		Other	
Length	2,020 mm	Gross	1,900 kg	Delivery	Special transportation	DualUse	~
Width	1,780 mm	Net	1,700 kg	Content	1 pc(s).	SCIP	n/a
Height	2,220 mm					SVHC	No

Video 🗸

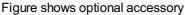
www.youtube.com/watch?v=YhloJ880f1A

Description >

- · Die-cast steel machine for high rigidity
- Carousel tool changer with ten tool places
- All linear guides with stainless steel covers
- · Automatic central lubricationli>
- Machine lamp in working area
- Siemens Main spindle motor
- SIEMENS Servo drive in all axes (closed loop)
- Max. Spindle speed up to 10,000 min⁻¹
- Portable, electronic hand wheel with enabling button and emergency stop impact switch. Facilitates the retraction of programs considerably
- Coolant device with 70 liter coolant tank
- Tool change is automatic or by pressing a button (electro-pneumatic tool clamping device)
- Massive, exact milling table; large dimensioned and precisely surface-treated
- access doors are very generously designed to reduce cleaning and maintenance time to a minimum
- LED machine light for complete illumination of the working area
- Software package "SINUMERIK 808D on PC" included. (Practical training software that allows workpieces to be programmed and simulated offline on the PC.) Download it for free at www.cnc4you.com

Media informations >







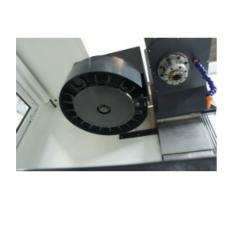
• For tools, in easy reach on the machine





- Portable
- Electronic
- Makes program retraction much easier
- Emergency stop pushbutton
- Enabling switch

- Visually indicates the condition of the machine
- High brightness and long service life



- Carousel tool changer
- Ten tool slots
- Tool change Time is seven seconds



- Clearly arranged
- Standard-compliant design
- Drives from Siemens





- Maximum static and dynamic rigidity
- High positioning accuracy
- Smooth, backlash-free movement
- Consistent precision with long service life
- Automatic
- Significantly prevents wear, repair costs and unnecessary downtime



With SINUMERIK 808D on PC, SIEMENS offers a control-identical software package that further simplifies the handling of the machine tool. Used as practical training software, it can be used to program and simulate workpieces offline. Free to download at www.cnc4you.com

Training and Learning

- Operation of SINUMERIK Operate BASIC can be learned on the PC without additional hardware
- Easy and comfortable learning with controlidentical user interface

Offline CNC programming:

- Increased productivity through programming directly on the PC
- Testing of part programs on the PC with integrated simulation

Professional CNC Presentations:

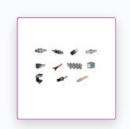
- Presentation of the user interface SINUMERIK Operate BASIC on the PC - anytime and anywhere without additional hardware
- Presentation of the extensive functions of SINUMERIK Operate BASIC incl. programGUIDE BASIC

Technical data v

Dimensions and weights			
Length (product) approx.	1925 mm	Width/depth (product) approx.	1655 mm
Height (product) approx.	2070 mm	Net weight approx.	1900 kg
Drilling/milling output			
Max. size milling head	70 mm	Max. size shaft milling cutter	25 mm
Fast motion speed			
Fast motion speed X axis	10000 mm/min	Fast motion speed Y axis	10000 mm/min
Fast motion speed Z axis	10000 mm/min		

Supply voltage	400 V	Mains frequency	50 Hz
Milling table horizontal			
Horizontal milling table length	800 mm	Horizontal milling table width	260 mm
Min. clearance vertical spindle - horizontal milling table	75 mm	Max. clearance vertical spindle - horizontal milling table	475 mm
Horizontal milling table T-groove size	16 mm	Horizontal milling table T-groove number	5
Horizontal milling table T-groove spacing	50 mm	Horizontal milling table max. load bearing capacity	150 kg
Precision			
Repetition accuracy	± 0,008 mm	Positioning accuracy	± 0,008 mm
Cooling lubricant system			
Coolant pump(s) drive power	650 W	Cooling lubricant system tank capacity	70 I
Pneumatic connection			
Pneumatic connection operating pressure	7 bar		
Travel			
Travel X axis automatic	400 mm	Travel Y axis automatic	225 mm
Travel Z axis automatic	375 mm		
Vertical spindle			
Vertical spindle spindle chuck	BT 30	Vertical spindle speed range	50 – 10000 min 1
Explanation vertical spindle speed range	Please note that the maximum spindle speed must be reduced by approx. 20 % in continuous operation.	Vertical spindle drive motor output continuous operation S1	3.7 kW
Verticle spindle drive motor output S6-30 % operation	5.5 kW	Vertical spindle torque drive motor continuous operation S1	24 Nm
Verticle spindle torque drive motor S6-30 % operation	35 Nm		
Feed motor torque			
Feed motor torque X axis continuous operation S1	3.5 Nm	Feed motor torque Y axis continuous operation S1	6 N m
Feed motor torque Z axis continuous operation S1	6 Nm		
Turret			
	carousel	Number of tool slots	10 Tools
Tool changer design			
Tool changer design Max. tool diameter	60 mm	Max. tool length	200 mm
	60 mm 6 kg	Max. tool length Tool change time chip to chip (C to C)	200 mm 15.33 s
Max. tool diameter		Tool change time chip to chip (C to	

Accessories v



Starter kit BT 30

Article number **→** 3536107





Warranty extension for SINUMERIK 808D ADVANCED

12 months

Article number **→** 3589010





Warranty extension for SINUMERIK 808D ADVANCED

36 months

Article number **→** 3589012



Options equipment ~



Primo set

Renishaw Holder BT 30

Start now with automatic workpiece and tool measurement in your production environment and benefit from the advantages

Article number **→** 3582030





Preparation for the fourth axis





4-axis complete set

OPTImill F80

Article number **→** 350108503





Swing bridge





Primo set Renishaw

Article number **→** 350108580





Motor upgrade 3-D printing

Article number **→** 350108590





3D printing interface

3-D printing

Article number **→** 350108591

