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ТЕХНИЧЕСКОЕ ОПИСАНИЕ НА ФРЕЗЕРНЫЕ СТАНКИ С ЧПУ ОПТИMILL FP



OPTImill FP 1700

DESCRIPTION

- Perfect structures and robust construction guarantee maximum rigidity and stability.
- All main components - bed, work table, column, crossbeam, saddle and headstock are made of high-quality MEEHANITE® quality castings
- Generously dimensioned guides in the X, Y and Z axes
- All guideways are hardened and ground (HRC50 -HRC55).
- The X and Y axes are equipped with roller linear guide. As a result, the axes move with the highest precision even at high speed.
- Greatest machining accuracy and high damping thanks to wide, adjustable flat guides of the Z-axis for high drilling and milling performance with high spindle output torque
- Hardened and precision ground recirculating ball spindles mounted in high-precision bearings in all three axes for high rapid traverse speeds
- Cooling of the main spindle gear (gears, bearings, spindle) through an oil circulation system. Reduction of thermal expansion
- Operating status display (end of work light)
- Axle covers
- Work lamp
- Air pistol/water pistol
- Heat exchanger
- Spindle holder SK50 with a maximum spindle speed of 8,000 rpm with 2-stage gear for high precision
- Pneumatic counterbalance of the Z-axis ensures very high reliability and stability while multiple axes work at the same time. The SCBS system does not require an additional power supply or drive. This balance system achieves high speed and high processing precision
- Complete machine cladding with wide opening doors for ergonomic workpiece handling
- Automatic lubrication system with pressure control system
- Separation system for lubricating oil and coolant
- Installation elements

SINUMERIK 828D - The power pack in the compact class of CNC controls

With CNC SINUMERIK 828D control from SIEMENS, users benefit from the fast and sophisticated hardware. It offers maximum ease of use and ensures good connections to a wide variety of storage media and networks. The basic structure of the CNC control corresponds to the standards of normal NC technology.

- As a top specialist for sophisticated milling machines, the Siemens SINUMERIK 828D masters all imaginable drilling and milling operations. Of course, this also applies to any pivoted workpiece planes and to cylindrical workpieces. You don't even need a special CNC control for mold making applications. The unique performance of the SINUMERIK 828D guarantees mirror-smooth surfaces with a minimum of machining time.
- For ergonomic operation and programming, the SINUMERIK 828D is equipped with a large 10.4-inch graphic color screen. Robust function keys and a complete QWERTY keyboard on the terminal enable the user to program, set up and operate even in a rough workshop environment. The mechanical keys are protected against dust and liquids in accordance with IP 65 by a stable and durable film.
- Since the SINUMERIK 828D works without components that are subject to wear, such as fans and hard drives, it is permanently maintenance-free and reliable. Powerful computers and memories enable modern NC strategies to be processed quickly and extensive color graphics to be displayed in real time, including in animated form. On the one hand, this increases the machining accuracy, and on the other hand, it simplifies operation, programming and diagnosis. The computing and storage capacity is so generous that moving graphics can be generated and shown for all functions as an aid as well as for programmed processing.

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OPTImill FP 2200

DESCRIPTION

- Perfect structures and robust construction guarantee maximum rigidity and stability.
- All main components - bed, work table, column, crossbeam, saddle and headstock are made of high-quality MEEHANITE® quality castings
- Generously dimensioned guides in the X, Y and Z axes
- All guideways are hardened and ground (HRC50 -HRC55).
- The X and Y axes are equipped with with roller linear guide. As a result, the axes move with the highest precision even at high speed.
- Greatest machining accuracy and high damping thanks to wide, adjustable flat guides of the Z-axis for high drilling and milling performance with high spindle output torque
- Hardened and precision ground recirculating ball spindles mounted in high-precision bearings in all three axes for high rapid traverse speeds
- Cooling of the main spindle gear (gears, bearings, spindle) through an oil circulation system. Reduction of thermal expansion
- Operating status display (end of work light)
- Axle covers
- Work lamp
- Air pistol/water pistol
- Heat exchanger
- Spindle holder SK50 with a maximum spindle speed of 8,000 rpm with 2-stage gear for

Installation elements

SINUMERIK 828D - The power pack in the compact class of CNC controls

Increased productivity and precision in production

- With CNC SINUMERIK 828D control from SIEMENS, users benefit from the fast and sophisticated hardware. It offers maximum ease of use and ensures good connections to a wide variety of storage media and networks. The basic structure of the CNC control corresponds to the standards of normal NC technology.
- As a top specialist for sophisticated milling machines, the Siemens SINUMERIK 828D masters all imaginable drilling and milling operations. Of course, this also applies to any pivoted workpiece planes and to cylindrical workpieces. You don't even need a special CNC control for mold making applications. The unique performance of the SINUMERIK 828D guarantees mirror-smooth surfaces with a minimum of machining time.
- For ergonomic operation and programming, the SINUMERIK 828D is equipped with a large 10.4-inch graphic color screen. Robust function keys and a complete QWERTY keyboard on the terminal enable the user to program, set up and operate even in a rough workshop environment. The mechanical keys are protected against dust and liquids in accordance with IP 65 by a stable and durable film.
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Control

Type	Sinumerik 828D
System software	SW 26x
CNC memory	5 MB
Set change time	2 ms
Look Ahead	100
Number of tools	256

Cooling lubricant system

Tank capacity	900 l
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Dimensions and weights

Length approx.	8130 mm
Width/depth approx.	4150 mm
Weight approx.	19500 kg

Electrical connections

Total rated value	50 kVA
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Electrical Data

Supply voltage	400 V
Mains frequency	50 Hz

Fast motion speed

X axis	16000 mm/min
Y axis	20000 mm/min
Z axis	20000 mm/min

Feed force

Feed force X-axis	24.1 kN
Feed force Y-axis	24.1 kN
Feed force Z-axis	28.9 kN

Feed motor torque

X axis continuous operation S1	48 Nm
Y axis continuous operation S1	48 Nm
Z axis continuous operation S1	48 Nm

Milling table horizontal

Table length	3200 mm
Table width	1200 mm
Min. clearance vertical spindle - milling table	50 mm
Max. clearance vertical spindle - milling table	900 mm
T-groove size	22 mm
T-groove number	7
T-groove spacing	150 mm
Max. load bearing capacity	8000 kg
Distance between columns	1400 mm

Pneumatic connection

Operating pressure	6 bar
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OPTImill FP 3200

DESCRIPTION

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- Work lamp
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- Heat exchanger
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- Pneumatic counterbalance of the Z-axis ensures very high reliability and stability while multiple axes work at the same time. The SCBS system does not require an additional power supply or drive. This balance system achieves high speed and high processing precision
- Complete machine cladding with wide opening doors for ergonomic workpiece handling
- Automatic lubrication system with pressure control system
- Separation system for lubricating oil and coolant

Installation elements

Increased productivity and precision in production

- With CNC SINUMERIK 828D control from SIEMENS, users benefit from the fast and sophisticated hardware. It offers maximum ease of use and ensures good connections to a wide variety of storage media and networks. The basic structure of the CNC control corresponds to the standards of normal NC technology.
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OPTImill FP 4200

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Increased productivity and precision in production

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Travel

X axis automatic	4200 mm
Y axis automatic	1400 mm
Z axis automatic	850 (1050 optional) mm
Max. distance spindle to column	404 mm

Turret

Design	Double arm gripper
Number of tool slots	32 Tools
Max. tool diameter adjacent slots free	250 mm
Max. tool diameter	160 mm
Max. tool length	350 mm
Max. tool weight	15 kg

Vertical spindle

Spindle chuck	SK 50 DIN 69871
Speed range	8000 min ⁻¹
Explanation speed range	Please note that the maximum spindle speed must be reduced by approx. 20 % in continuous operation.
Drive motor output continuous operation S1	15 kW
Drive motor output S6-30 % operation	22.5 kW
Torque drive motor continuous operation S1	126 Nm
Torque drive motor S6-30 % operation	380 Nm

VPE

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