

FZH

➤ FZH-LINE Horizontal Machining Center



10900 mm



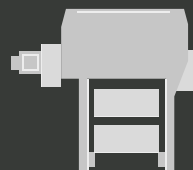
3700 mm

12400 mm



3700 mm

12400 mm



10900 mm

➤ Technical Data

FZH		
Working Ranges		
X-axis		4 100 – 26 100 mm*
Y-axis		1 600/2 100/2 600 mm
Z-axis		650/850 mm
Clamping Pallet		
Length x Width x Height		ab 4 100 x 1 600 x 250 mm
Pallet Loading (max.)		≥ 4 000 kg**
Threaded Sockets		M16 (standard)
Grid Dimension		200 x 200 mm
Drives – Linear Axes		
Rate of Feed	X-axis	60 m/min
Rate of Feed	Y-, Z-axis	40 m/min
Acceleration	X-, Y-, Z-axis	6 m/s ²
Automation		
Y1-axis (Lifting axis)		approx. 2200 mm
Z1-axis (Feeding axis)		approx. 4800 mm
Number of Pallets		2 units
Pallet Changing Time		approx. 4 minutes
Connections Ports on the Pallet		1 x Vacuum Port (optional)
Safety Housing		Safety Housing Protection Fence and Safety Glasses
		Light Beam Sensors
Pallet Changing Concept		1 x Set-up Unit
		1 x Storage Unit

MILLING HEADS			
Milling Head VH40			
External Dimensions Milling Head	Length x Width	500 mm x 675 mm	
Torque Rotary Axes	in control	A-axis: min. 1 200 Nm C-axis: min. 1 279 Nm	
	clamped	A- and C-axis: 3 000 Nm	
Working Ranges VH40			
A-axis		± 110°	
C-axis		± 200°	
Drives Rotary Axes VH40			
Rate of Feed	A-, C-axis	360°/s	
Acceleration	A-, C-axis	700°/s ²	
Resolution	A-, C-axis	0,0001°	
Milling Head M3ABC			
External Dimensions Milling Head	Length x Width	698 mm x 610 mm	
Torque Rotary Axes	in control	A-axis: min. 825 Nm B-axis: min. 1 200 Nm C-axis: min. 1 200 Nm	
		clamped	A-axis: min. 2 000 Nm B-axis: min. 1 700 Nm C-axis: min. 3 000 Nm
Working Ranges M3ABC			
A-axis		± 110°	
B-axis		± 14°	
C-axis		± 200°	
Drives Rotary Axes M3ABC			
Rate of Feed	A-axis	180°/s	
	B- and C-axis	120°/s	
Acceleration	A-, B-, C-axis	700°/s ²	
Resolution	A-, B-, C-axis	0,0001°	
Milling Spindle (Fischer) VH40/M3ABC			
Spindle Power	S1 (100%)	74 kW	
	S6 (40%/2 min)	78 kW	
Spindle Speed		30 000 rpm	
Torque	S1 (100%)	73 Nm	
	S6 (40%/2 min)	92 Nm	
Constant Power	S1 (100%)	9 690 – 30 000 rpm	
Swivel Axis – Spindle Nose VH40		301 mm	
Swivel Axis – Spindle Nose M3ABC		331 mm	
Tool Holder		HSK-A63	
Milling Spindle (Fischer) VH40/M3ABC			
Spindle Power	S1 (100%)	125 kW	
	S6 (40%/2 min)	156 kW	
Spindle Speed		30 000 rpm	
Torque	S1 (100%)	60 Nm	
	S6 (40%/2 min)	75 Nm	
Constant Power	S1 (100%)	20 000 – 30 000 rpm	
Swivel Axis – Spindle Nose VH40		301 mm	
Swivel Axis – Spindle Nose M3ABC		331 mm	
Tool Holder		HSK-A63/80	

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*Up to 20 m (800") (X-axis) in 1 or 2 m step increments.

**Depending on X-axis' working range.

We reserve the right to make technical changes without prior notice. 08/2023