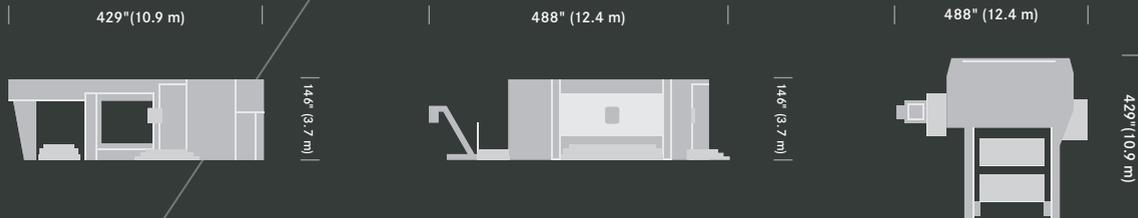


FZH

➤ FZH-LINE Horizontal Machining Center



➤ Technical Data

FZH		
Working Ranges		
X-axis		161" - 1,028" (4.1 - 26.1 m)*
Y-axis		36" / 83" / 102" (1.6/2.1/2.6 m)
Z-axis		26" / 33" (0.65/0.85 m)
Clamping Pallet		
Length x Width x Height		from 161" x 36" x 26" (4.1x1.6x0.25 m)
Pallet Loading (max.)		≥ 4 000 kg**
Threaded Sockets		M16 (standard)
Grid Dimension		8" x 8" (0.2 x 0.2 m)
Drives - Linear Axes		
Rate of Feed	X-axis	2,362 ipm (60 m/min)
Rate of Feed	Y-, Z-axis	1,574 ipm (40 m/min)
Acceleration	X-, Y-, Z-axis	6 m/s ²
Automation		
Y1-axis (Lifting axis)		approx. 87" (2.2 m)
Z1-axis (Feeding axis)		approx. 189" (4.8 m)
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	Length x Width	20" x 26"	
Milling Head		500 mm x 675 mm	
Torque Rotary Axes	in control	A-axis: min. 885 ft lb (1 200 Nm) C-axis: min. 943 ft lb (1 279 Nm)	
	clamped	A- and C-axis: 2,213 ft lb (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	Length x Width	27" x 24"	
Milling Head		698 mm x 610 mm	
Torque Rotary Axes	in control	A-axis: min. 608 ft lb (825 Nm) B-axis: min. 885 ft lb (1 200 Nm) C-axis: min. 885 ft lb (1 200 Nm)	
	clamped	A-axis: min. 1,475 ft lb (2 000 Nm) B-axis: min. 1,254 ft lb (1 700 Nm) C-axis: min. 2213 ft lb (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%)	99 hp (74 kW)	
	S6 (40%/2 min)	105 hp (78 kW)	
Spindle Speed		30 000 rpm	
Torque	S1 (100%)	54 ft lb (73 Nm)	
	S6 (40%/2 min)	68 ft lb (92 Nm)	
Constant Power	S1 (100%)	9 690 - 30 000 rpm	
Swivel Axis - Spindle Nose VH40		12" (301 mm)	
Swivel Axis - Spindle Nose M3ABC		13" (331 mm)	
Tool Holder		HSK-A63	
Milling Spindle (Fischer) VH40/M3ABC			
Spindle Power	S1 (100%)	167 hp (125 kW)	
	S6 (40%/2 min)	209 hp (156 kW)	
Spindle Speed		30 000 rpm	
Torque	S1 (100%)	44 ft lb (60 Nm)	
	S6 (40%/2 min)	55 ft lb (75 Nm)	
Constant Power	S1 (100%)	20 000 - 30 000 rpm	
Swivel Axis - Spindle Nose VH40		12" (301 mm)	
Swivel Axis - Spindle Nose M3ABC		13" (331 mm)	
Tool Holder		HSK-A63/80	

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