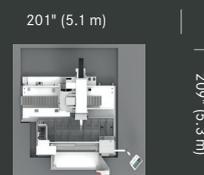
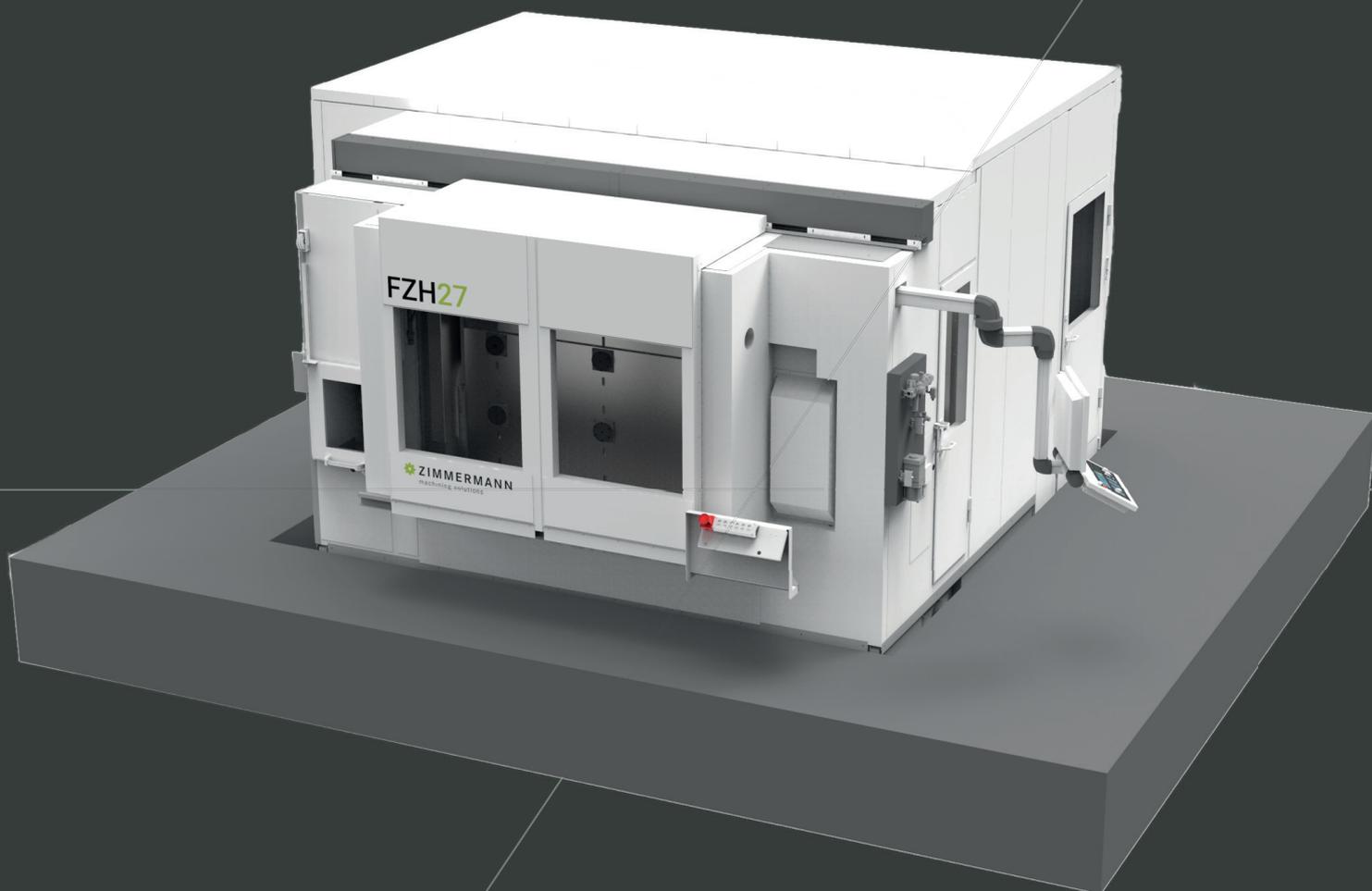


# FZH 27

➤ FZH-LINE  
Horizontal Machining Center

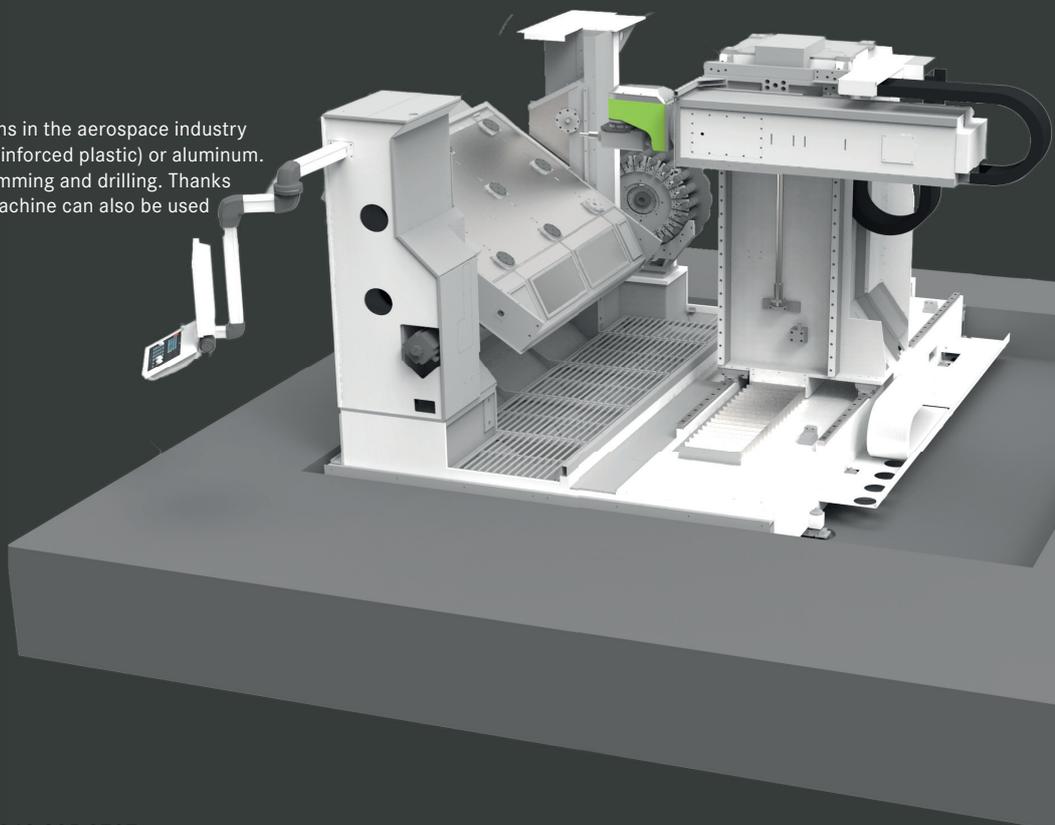


## ➤ Technical Data

FZH27		
<b>Working Ranges</b>		
X-axis		98/177/256" (2.5/4.5/6.5 m)
Y-axis		63" or 83" (1.6 or 2.1 m)
Z-axis		28" (0.7 m)
<b>Drives Linear Axes</b>		
Rate of Feed	X-axis	2,362 ipm (up to 60 m/min)
Rate of Feed	Y-, Z-axis	1,575 ipm (up to 40 m/min)
Acceleration	X-, Y-, Z-axis	max. 2 m/s <sup>2</sup>
<b>Dimensions</b>		
Required space (without peripherals)	Length	201" (5.1 m)
	Width	209" (5.3 m)
	Height	134" (3.4 m*)
<b>Accuracy</b>		
Standard	in accordance to VDI/DGQ 3441 or ISO 230-2	
<b>CNC control</b>		
	Siemens SINUMERIK ONE	
<b>Equipment (optional)</b>		
Automation ▣ Chip conveyor ▣ Fixture holders ▣ Minimum quantity lubrication ▣ Mist/dust extraction system ▣ Tool changer ▣ Tool measuring system ▣ Touch probe ▣ Vacuum system ▣ longer working ranges in X-axis		

MILLING HEAD S2		
<b>Performance</b>		
Torque rotary axes	in control	A-axis: 419 ft lbs (568 Nm) C-axis: 509 ft lbs (690 Nm)
	clamped	A-axis: 339 ft lbs (460 Nm)
<b>Swivelling Range</b>		
A-axis		± 96° or ± 120°
C-axis		± 186°
<b>Drives Rotary Axes</b>		
Rate of Feed	A-, C-axis	162°/s, 114°/s
Acceleration	A-, C-axis	3 1/s <sup>2</sup> , 2 1/s <sup>2</sup>
<b>Accuracy</b>		
Positioning accuracy	A-, C-axis	20"
Repeatability	A-, C-axis	10"
<b>Milling Spindle - 15 kW</b>		
Spindle power	S1 (100%)	20 hp (15 kW)
	S6 (40%/2 min)	24 hp (18 kW)
Spindle speed		24 000 U/min
Torque	S1 (100%)	8 ft lbs (12 Nm)
	S6 (40%/2 min)	10 ft lbs (14 Nm)
Constant power		12 000 -24 000 U/min
Swivel axis - spindle nose		7" (174 mm)
Center offset spindle to C-axis		15" (30 mm)
Tool holder		HSK-F63
Tool clamping		spring clamp
Tool release		pneumatic
Lubrication		permanent lubrication

The machine is specially designed for applications in the aerospace industry and is ideal for processing CFRP (carbon fiber reinforced plastic) or aluminum. Typical machining operations include milling, trimming and drilling. Thanks to its compact design and small footprint, the machine can also be used efficiently in confined production environments.



**Zimmermann Inc.**  
30587 Century Drive  
48393 Wixom, MI, USA

**O** +1 248 305 9707  
**E** sales@zimmermann-inc.com  
**W** zimmermann-inc.com

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