

FZU37

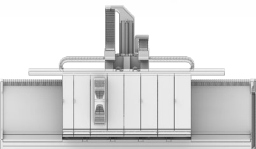
FZU-LINE UNIBODY GANTRY



5 100 – 10 100 mm

7 600 – 8 600 mm

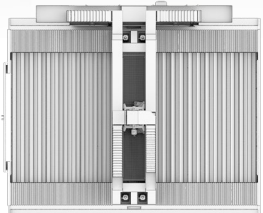
5 100 – 10 100 mm



5 950 – 6 450 mm



5 950 – 6 450 mm



7 600 – 8 600 mm

TECHNICAL DATA.

FZU37

Working Ranges*

X-axis	2 500 / 5 000 / 7 500 mm
Y-axis	3 000 / 3 500 / 4 000 mm
Z-axis	1 250 / 1 500 mm

Table Size

Length	2 500 / 5 000 / 7 500 mm
Width	3 000 / 3 500 / 4 000 mm
Height	250 mm
Table load	8000 kg/m ² (max. 35 t)
T-Slots (longitudinal)	18 ^{H12} (opt. 18 ^{H8})
Pitch of T-slots	250 mm

Drives - Linear Axes

Feed rate	X-, Y-, Z-axis	up to 60 m/min
Acceleration	X-, Y-, Z-axis	max. 3 – 5 m/s ²

Dimensions

Required space (without peripherals)	Length	5 100 – 10 100 mm
	Width	7 600 – 8 600 mm
	Height	5 950 – 6 450 mm

Accuracy

Standard accuracy	in accordance to VDI / DGQ 3441 or ISO 230-2
Special accuracy	on request

MILLING HEADS VH20, VH30, VH40

Performance

Torque rotary axes	in control	A-axis: min. 1 200 Nm C-axis: 1 047 Nm (opt. 1 279 Nm)
	clamped	A-, C-axis: 3 000 Nm

Swivelling Range

A-axis	± 110° or +125° / -95°
C-axis	up to 300° / 360° (opt. ∞)

Drives - Rotary Axes

Rate of feed	A-, C-axis	360° / s
Acceleration	A-, C-axis	700° / s ²
Resolution	A-, C-axis	0.0001°

Accuracy

Positioning accuracy	A-, C-axis	10"
Repeatability	A-, C-axis	6"

VH20 Milling Spindle – 45 kW (60 hp)*

Spindle power	S1 (100 %)	45 kW
	S6 (40 % / 2 min)	57 kW
Spindle speed		25 000 rpm
Torque	S1 (100 %)	67 Nm
	S6 (40 % / 2 min)	85 Nm
Constant power		6 400 – 25 000 rpm
Swivel axis – spindle nose		326 mm
Tool holder		HSK-A63
Tool clamping		spring clamp
Tool unclamping		hydraulic
Lubrication		permanent grease lubrication

VH30 Milling Spindle – 74 kW (99 hp)*

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		301 mm
Tool holder		HSK-A63
Tool clamping		spring clamp
Tool unclamping		hydraulic
Lubrication		oil mist lubrication

VH40 Milling Spindle (Fischer) – 125 kW (169 hp)*

Spindle Power	S1 (100 %)	125 kW (169 hp)
	S6 (40 % / 2 min)	156 kW (212 hp)
Spindle Speed		30 000 rpm (Oil-Mist Lubrication)
Torque	S1 (100 %)	60 Nm (44 ft lb)
	S6 (40 % / 2 min)	75 Nm (55 ft lb)
Constant Power	S1 (100 %)	20 000 – 30 000 rpm
	S6 (40 % / 2 min)	20 000 – 30 000 rpm
Swivel Axis – Spindle Nose VH40		301 mm (12")
Tool Holder		HSK-A63/80

F. Zimmermann GmbH

A Bernhäuser Straße 35
73765 Neuhausen a. d. F.
Germany

T +49 7158 948955-0
E info@f-zimmermann.com
W www.f-zimmermann.com