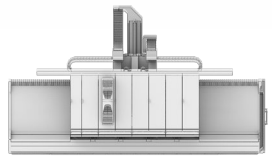


FZU42

FZU-LINE UNIBODY GANTRY

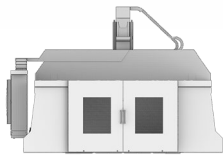


| 5 600 / 8 100 / 10 600 mm |



| 6 300 / 6 800 mm |

| 7 700 / 8 200 / 8 700 mm |



| 6 300 / 6 800 mm |

| 5 600 / 8 100 / 10 600 mm |



| 7 700 / 8 200 / 8 700 mm |

TECHNICAL DATA.

FZU42

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}
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	5 600 / 8 100 / 10 600 mm
	Width	7 700 / 8 200 / 8 700 mm
	Height	6 300 / 6 800 mm

Accuracy

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

MILLING HEAD VH60

Performance

Torque rotary axes	in control	A-, C-axis: 3 000 Nm
	clamped	A-axis: 5 600 Nm
		C-axis: 6 000 Nm

Swivelling Range

A-axis	± 110°
C-axis	± 360°

Drives – Rotary Axes

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

Accuracy

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

MILLING HEAD VH60

Milling Spindle – 63 kW*

Spindle power	S1 (100 %)	63 kW
	S6 (40 %/2 min)	82 kW
Spindle speed		15 000 rpm
Torque	S1 (100 %)	300 Nm
	S6 (40 %/2 min)	392 Nm
Constant power	S1 (100 %)	2 000 – 15 000 rpm
Swivel axis – spindle nose		385 mm
Tool holder		HSK-A100
Tool clamping		spring clamp
Tool unclamping		hydraulic
Lubrication		oil-mist lubrication

Milling Spindle – 93 kW*

Spindle power	S1 (100 %)	93 kW
	S6 (40 %/2 min)	103 kW
Spindle speed		8 000 rpm
Torque	S1 (100 %)	444 Nm
	S6 (40 %/2 min)	553 Nm
Constant power	S1 (100 %)	2 000 – 8 000 rpm
Swivel axis – spindle nose		385 mm
Tool holder		HSK-A100
Tool clamping		spring clamp
Tool unclamping		hydraulic
Lubrication		oil mist lubrication

MuST® Spindle Changing System

Roughing Spindle 1 – 44 kW

Spindle power	S1 (100 %)	44 kW
	S6 (40 %/2 min)	42 kW
Spindle speed		10 000 rpm
Torque	S1 (100 %)	200 Nm
	S6 (40 %/2 min)	230 Nm

Roughing Spindle 2 – 45 kW

Spindle power	S1 (100 %)	45 kW
	S6 (40 %/2 min)	60 kW
Spindle speed		5 000 rpm
Torque	S1 (100 %)	344 Nm
	S6 (40 %/2 min)	454 Nm

Universal Spindle – 50 kW

Spindle power	S1 (100 %)	50 kW
	S6 (40 %/2 min)	58 kW
Spindle speed		24 000 rpm
Torque	S1 (100 %)	95 Nm
	S6 (40 %/2 min)	117 Nm

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