

Milling and drilling machine

FPS 420M-plus | FPS 620M-plus

The manual multi-talent

New



Milling and drilling machine FPS 420/620 M-plus

The new FPS milling and drilling machines are primed to train the next generation of machining specialists. Our machines stand for ease of operation in the contemporary manufacturing landscape.

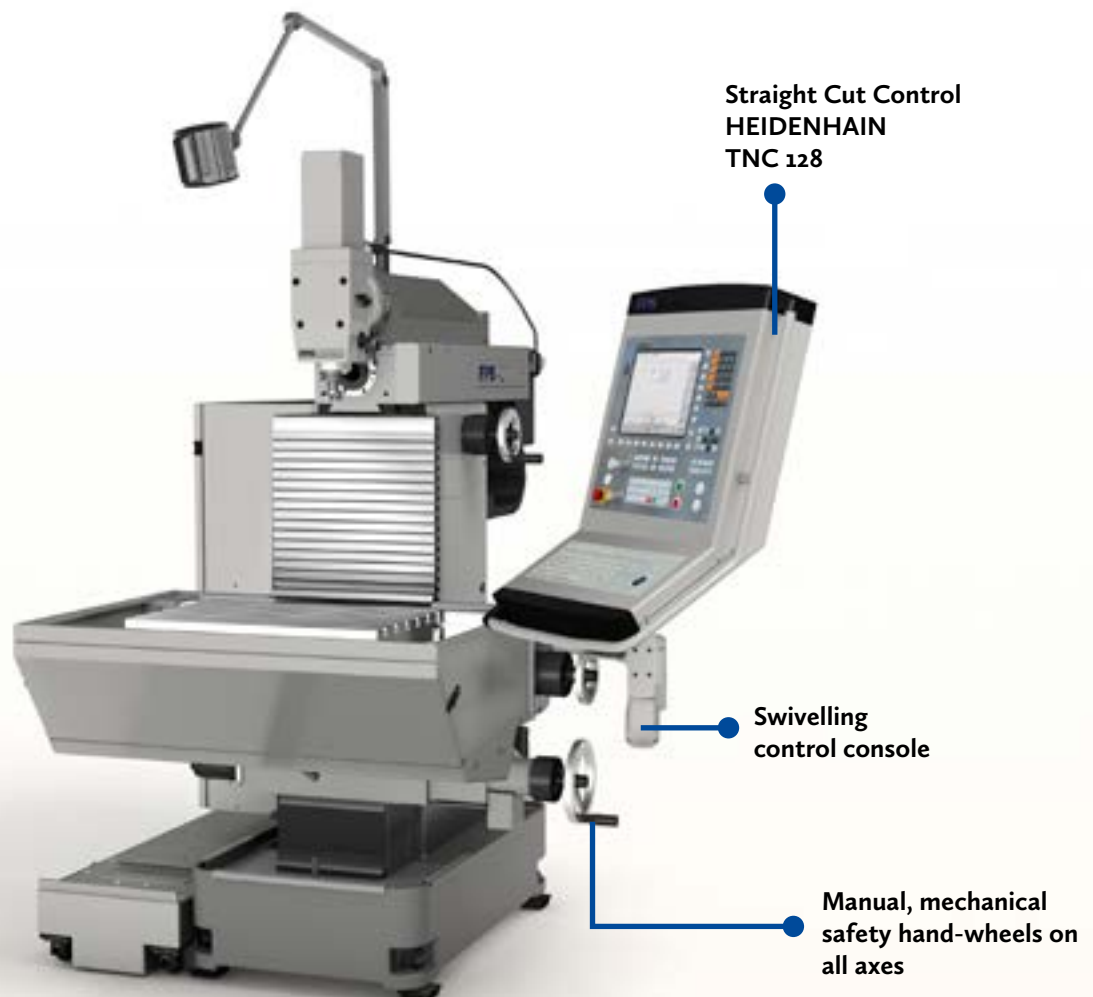
Customer benefit is our highest priority. We specifically designed our FPS 420M-plus and FPS 620M-plus for the robust use in apprenticeship training and flexible operations in workshops.

Our machines are the perfect entry point to modern manufacturing. This is where our machines stand out with their openness and flexibility.

No matter where you deploy our FPS 420M-plus or FPS 620M-plus – they convince with outstanding accessibility and easy handling.

Typen

- **FPS 420M-plus**
Verfahrweg X-420 mm
Y-350 mm Z-400 mm
- **FPS 620M-plus**
Verfahrweg X-620 mm
Y-350 mm Z-400 mm



Standard equipment and options

With us, much already comes as standard features.
Create your individual configuration from our diverse,
optional features.

Standard features

- Vertical Cutter Head with Quill
- Rigid Angle Table
- Horizontal Milling Spindle
- Manual, mechanic hand-wheels
- Solid guides, scraped by hand
- Travelling Chip Container
- Ball Screw Spindles
- Hydraulic Tool Clamping
- Automatic Gear Changing
- Overload Protection
- Direct Linear Encoder
- Automatic Central Lubrication
- Freestanding Coolant Tank, 80 liters
- Halogen Machine Lamp
- Machine Feet
- Straight Cut Control
HEIDENHAIN TNC 128



Work safely

Next to an electronic overdrive protection for every axis, our machines are also equipped with an additional brake for the Z axis.

Options

- Universal Machine Table
- Dividing Head
- LED Machine Lamp
- Minimum Lubrication
- Counter-holder with counter bearing
- Electronic Hand-wheel
- Infrared Measuring Probe
- Tool Measuring
- Cleaning Gun
- Special Paint Finish
- Tools and more Equipment



Specifications

		FPS 420M-plus	FPS 620M-plus
Working Range	X axis	420 mm	620 mm
	Y axis		350 mm
	Z axis		400 mm
	Milling Head additionally movable in Y axis		150 mm
	Space Requirements W x D x H	2235 x 1875 x 2000 mm	2435 x 1875 x 2000 mm
Angle Table	Table Area/Clamping Surface	630 x 400 mm	820 x 420 mm
	T-Slots: Amount/Width/Spacing	6 / 14 H12-Richtnut H7 / 63 mm	
	Allowable Load	300 kg	
Work Spindle	Vertical and horizontal		
	Vertically extendable as a Quill, with Clamping/Stroke	ca. 80 mm	
	Milling Head manually swivelling	+/- 90°	
Tool Holder	with hydraulic tool clamping system	ISO 40 DIN 69871	
Clamping System	Hydraulic Clamping System	DIN 69872 (Standard) DIN 2080 (Option)	
Main Drive: Three-Phase Motor fitted with brake	Power	7.0 KW	
	Torque	340 Nm	
	Rotational Speed over 2 gear levels	0 bis 4500 1/min	
Feed Drive: Digital Drive	Feed Rate infinitely controlled	0 bis 2000 mm/min	
	Rapid Traverse	5000 mm/min	
	Hand-wheel Rotation	2,5 mm	
Connection	Electrical Connection	3 x 400 VAC 50 Hz 25 A	
	Max. Primary Fuse	35A GR	
	Network Configuration	TN-S Connection Type: Termination	
Control Cabinet Electronics	CE-complicant according to the current regulations by the (German) employer's liability insurance association	BGVA 3 / DIN-EN 60204-1	
Control	in swivelling Control Console	Straight Cut Control HEIDENHAIN TNC 128	
Weight	Total Machine Weight incl. Work Table and Milling Head	ca. 1650 kg	
	Splash Protection Cabin (Option)	150 kg	



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