



MPS

SYSTEM FOR PRECISION CUTTING

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## STANDARDIZED SYSTEM

The cutting machine for highest precision. Laser source and system from a single source.

ROFIN provides a very broad and deep application know-how.

Being a competent partner to the customers in validating the application and worldwide service is a core competence of ROFIN.



### StarFiber P

- Pulsed fiber laser
- 150 / 300 W
- High peak power 1.5 / 3.0 KW
- High peak power combined with high pulse energy and high beam quality
- Fast and precise cutting
- Also cuts thick, hard and brittle materials like sapphire, PCD or ceramics

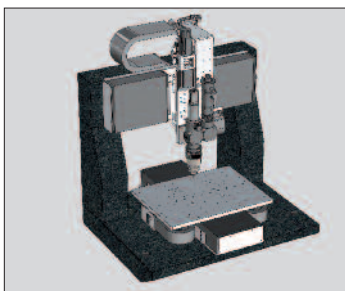


### StarFiber

- CW fiber laser
- 100 / 200 / 400 / 600 W
- Analogue power control
- High efficiency
- Safety features (industrial standard)
- Innovative ROFIN control unit (RCU)

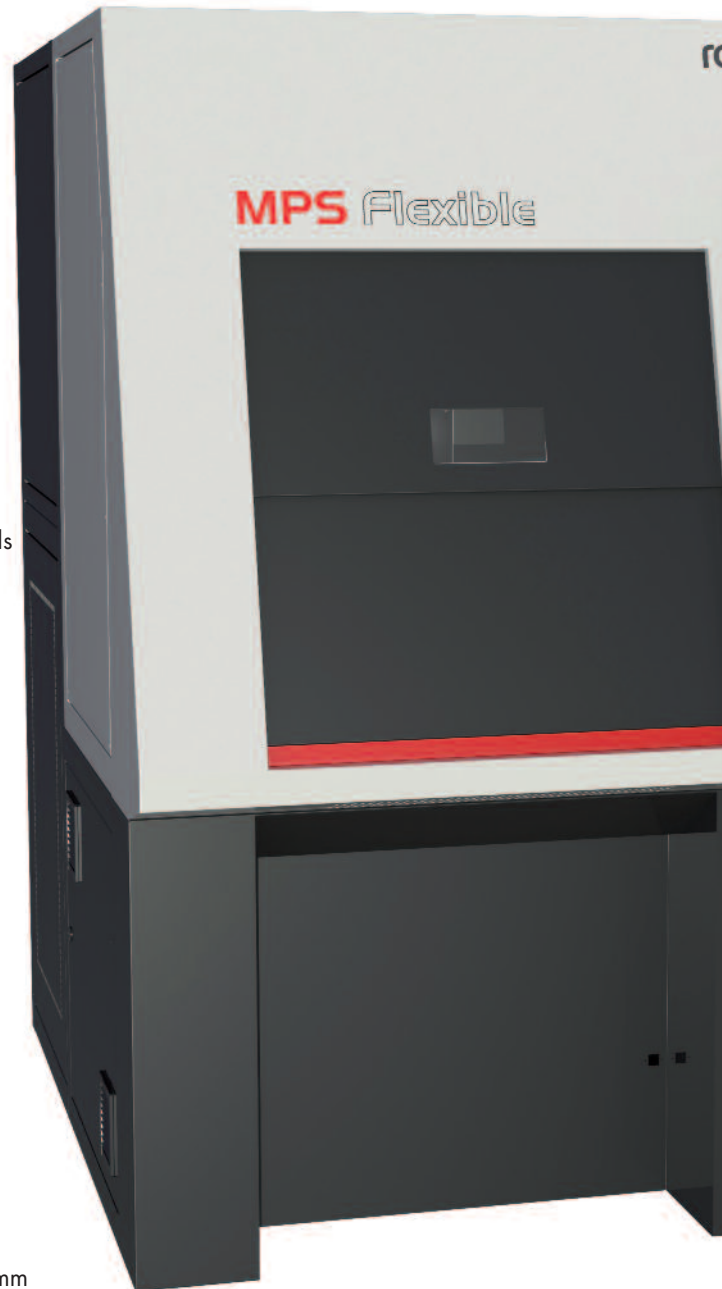


Wide range of ROFIN processing heads for challenging fine-cutting applications



### Precision module

X/Y-axis travel:	400 mm x 400mm
Drive:	linear servo
Max. acceleration:	1.0 g
Positioning accuracy*:	± 8 µm (300)
Repeat accuracy*:	± 4 µm (300)
Z-axis travel:	150 mm
Drive:	servo
Max. speed:	100 mm/s
Positioning accuracy:	± 30 µm
Repeat accuracy:	± 10 µm



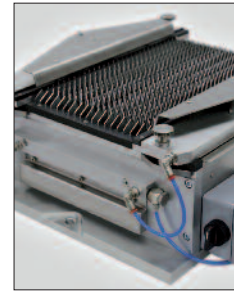
# OPTIONS



**Foot switch**  
For a comfortable start of the NC routine.



**Rotary axis**  
Direct drive rotary axis with a max. rotating speed of 500 r/min and a rated rotation speed of 1000 r/min.



**Cutting box**  
Cutting box for precision clamping (pneumatically) of flat sheet materials.



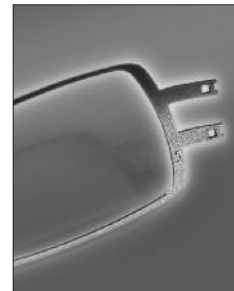
**CCD camera**  
CCD camera with integrated crosshair generator for easy positioning and teaching.



**Flat sheet**  
From simple to very complex geometries and sizes.



**Ceramics**  
Crack, chipping and oxide-free cutting edges on ceramics such as sapphire.



**Spectacle frames**  
Individual design, prototypes and single-unit productions.



**Medical devices**  
High cutting and edge precision and little postprocessing. Materials like titanium and nitinol can be processed with perfect results.

## ROBUST ALL-IN-ONE SOLUTION

- Welded steel construction base frame
- Granite based precision module
- Laser garage for 19" laser source or laser supply cabinet
- Large working chamber
- Pneumatic sliding door
- NC controller (Beckhoff)
- Easy generation of NC data with CAD/CAM module.

### Interface

Display and operation	17" touch screen + keyboard
Memory interface	USB device

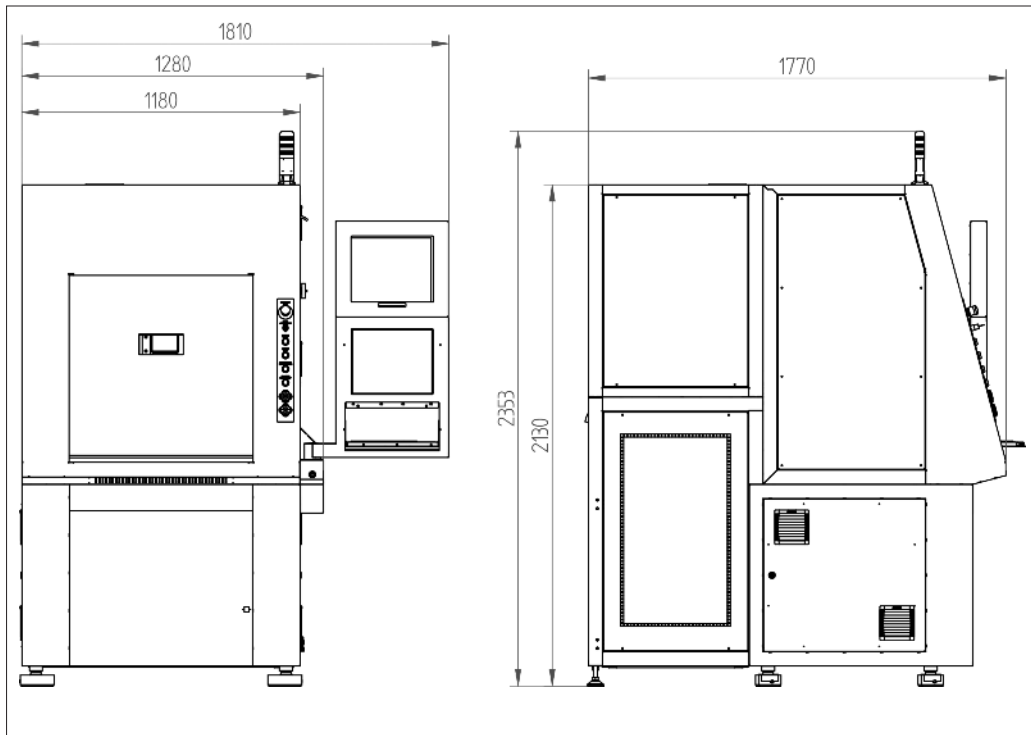
### Circuit points

Electric	400 VAC
	50/60 Hz
	32 A
	3 + N + PE Ph
Power consumption*	effective power 1.4 kW
	standby 1.0 kW
Pneumatic	compressed air 6 bar

### Installation conditions

Weight	Precision	1280 kg
Dimensions (WxHxD)		1280 mm x 2430 mm x 1770 mm
Ambient temperature max. **		35°

\*without laser \*\* for modules precision and high precision



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