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 400 mm
- 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