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■ 1.006 ►► SpaceFAB SF-3000









### Key features

- High speed linear motor drive
- Six axes micro-robot-system
  - Compact, low profile system
- Travel ranges linear 25.4x25.4x12.7 mm
- Travel ranges rotary Rx, Ry, Rz 10°
- Basic fiber alignment tools / contouring tools
- Alignment routines for arrayed fibers and components
- High speed
- High dynamic
  - Pivot Point set by user anywhere in the space
  - User friendly software (Motion Server)
- Easy to use with LabVIEW, Delphi, C++.
- Communication with TCP/IP
- Simulation Software

### FACTS

Load Characteristics	Fx (N)	Fy (N)	Fz (N)	kax (µrad/Nm)	kay (µrad/Nm)	kaz (μrad/Nm)
<u>LM-005</u>	2.5	5	-*2.5	0.1	0.1	0.1

### DESCRIPTION

With one **SpaceFAB SF-3000** all six degrees of freedom can be moved without additional positioning elements. The low dead weight of the moving platform allows high-dynamic and precise positioning processes. SpaceFAB SF-3000 was especially developed for applications in fiber- optic alignment. Furthermore SpaceFAB SF-3000 is perfectly designed for fiber-fiber, fiber- waveguide

#### SOFTWARE

Calculation of one motion path with collision detection

Random Definition of the Pivot Point inside or outside of the system

Graphic display of the robot from any view in multiple windows

and fiber- laser diode alignments. SpaceFAB SF-3000 are driven by high speed, backlash-free linear motors with a very quiet and dynamic smooth move. Using a controller a linear resolution up to 20 nm can be achieved. This system is equipped with turnkey drive and control electronics. With additionally integrated vision systems a complete turnkey sytem can be offered. SpaceFAB SF-3000 turnkey system is based on industrial PC, Pmac Controller and MICOS linear motor drive. Ideal in combination with other MICOS stages.

Digital display of position and orientation

Control in absolute-, flange- or tool coordination system

Control by Macro-language stored in own editor

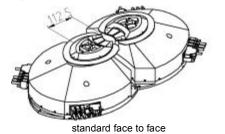
Control by 6D-space-mouse possible

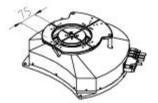
#### Technical data

Travel Range			
X, Y (mm)	25.4 x 25.4		
Z (mm)	12.7		
Rx, Ry (°)	10		
Rz (°)	10		
Velocity Range (mm/sec)	0.01 100		
Velocity Range (°/sec)	0.001 50		
Bi-directional Repeatability (µm)			
X, Y	+/- 0.5		
Z	+/- 0.5		
Bi-directional Repeatability (µrad)			
Rx, Ry	+/- 10		
Rz	+/- 10		
Speed max.			
<u>LM-005</u>			
X, Y (mm/sec)	100		
Z (mm/sec)	100		
Rx, Ry (°/sec)	50		
Rz (°/sec)	50		
Material			
Weight (kg)	_*		

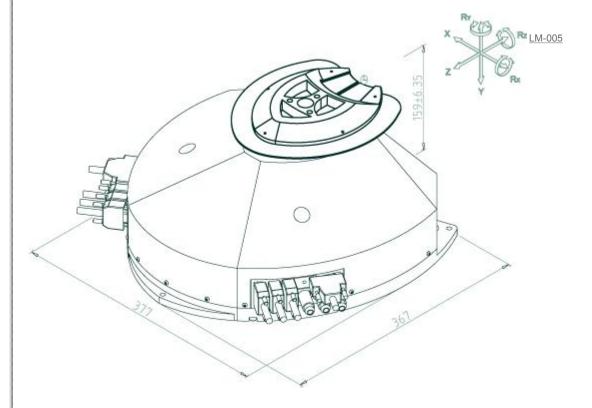
**Note:** Fore more detailed informations, please contact us. For turned key solutions, please contact us.

## SpaceFAB SYSTEMS





platform with fix mounted ring



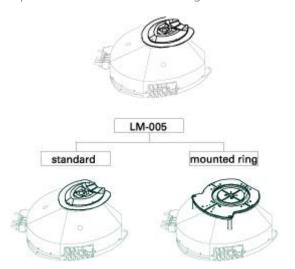
MOTION CONTROL Systems Positioners MiniPos DirectDrives Controllers ManPos Accessories Vacuum MAC PhotonX M A C

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# SpaceFAB SF-3000 Ordering information



platform standard

platform with fix 1 mounted ring

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Founded in 1990, MICOS specializes in the development, manufacturing and marketing of ultra-high precision positioning components and systems for research and industry. We are experts in vacuum, ultra-high vacuum, clean room, and extreme climate environments down to 77 Kelvin.

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