

MICOS

MOTION CONTROL & OPTICS **USA**

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MICOS USA • 15375 BARRANCA PARKWAY • STE G101 • IRVINE • CA 92618 • PHONE 949 480 0538 • FAX 949 480 0538

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◀ 1.004 ▶ **SpaceFAB SF-3000 LS**

Systems



Key features

- Six axes micro robot system
- Compact, low profile system
- Travel ranges linear 50x12.7x100 mm
- Travel ranges rotary Rx, Ry, Rz 10°
- Load capacity 1 kg center mounted
- Automatic alignment
- Alignment routines for arrayed fibers & components
- Pivot Point set by user anywhere in the space
- Can be used by any modern programming language
- Including software, controller and amplifiers



inside, we use VT-80 pollux solutions

FACTS

Load Characteristics	Fx (N)	Fy (N)	Fz (N)	Rx (Nm)	Ry (Nm)	Rz (Nm)
2Phase-042	5	10	5	0.1	0.1	0.1

DESCRIPTION

The **SpaceFAB SF-3000 LS** is low cost alternative to MICOS SpaceFAB SF-3000 LS and is especially designed for simple tasks of positioning. With one SpaceFAB SF-3000 LS all six degrees of freedom can be moved without additional positioning elements. SpaceFAB SF-3000 LS was especially

SOFTWARE

Calculation of motion path with collision dedection

Pivot point can be set by the customer

developed for easy alignment applications. Furthermore SpaceFAB SF-3000 LS is perfectly designed for micro-fabrication and bio-genetic. The core software used for the SpaceFAB SF-3000 LS is the MICOS Motion Server. The Motion Server includes all the mathematical transformations so that the user can start movements directly by specifying the six coordinates x , y , z , R_x , R_y and R_z . It is also possible to move arbitrary trajectories in a contouring mode. The Motion Server can be used as a stand alone software or in combination with MICOS or selfmade applications. These applications can be written in any modern programming language, the communication is done with TCP/IP. For motion sequences, a recipe editor is also available.

Graphic display of the robot from any view

Digital display of position and orientation

Control by Macro-language stored in own editor

Control by 3D-space-mouse possible

Jog mode

Technical data

Travel Range

X, Y (mm)	50 x 12.7
Z (mm)	100
Rx, Ry (°)	10
Rz (°)	10

Bi-directional Repeatability (μm) (without load)

X, Y	+/- 5
Z	+/- 5

Repeatability (μrad) (without load)

Rx, Ry	+/- 200
Rz	+/- 200

Speed max. (mm/sec)

<u>2Phase-042</u>	
X, Y (mm/sec)	10
Z (mm/sec)	10
Rx, Ry (°/sec)	6
Rz (°/sec)	6

Resolution (without load)

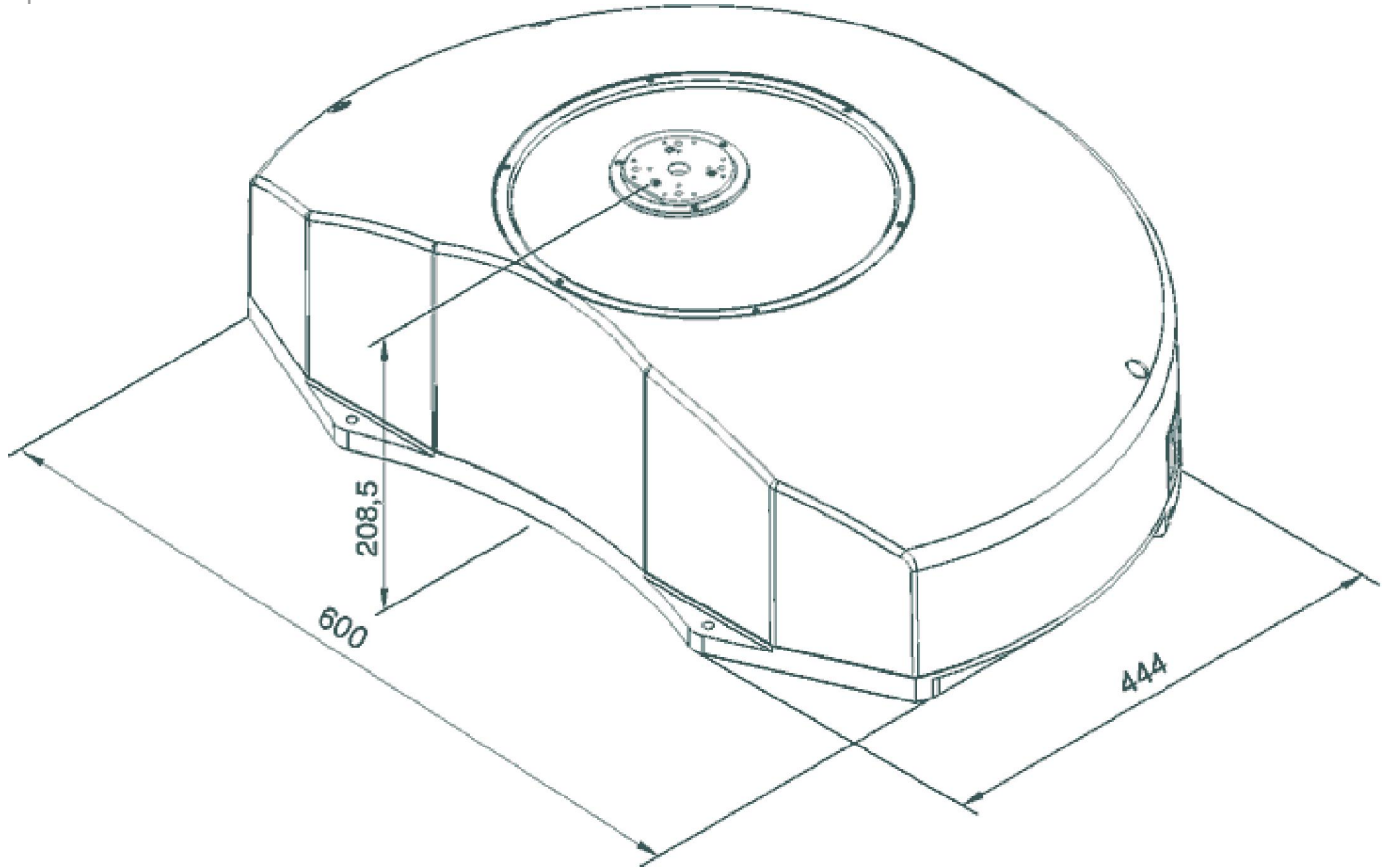
X, Y (μm)	4
Z (μm)	4
Rx, Ry (°)	0.008
Rz (°)	0.008

Material	
Weight (kg)	24

Note: Fore more detailed informations, please contact us.
 For turned key solutions, please contact us.
 The travel range is depending on the position of the pivot point

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

SpaceFAB SYSTEMS



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SpaceFAB FS-3000 LS Ordering information

SpaceFAB	Order-No.
SF-3000 LS	6902-9-2000

An one-day introductory training at MICOS is included in the price.

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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