

PROJECT AND MANUFACTURING OF A HIGH-VACUUM, SIX-AXES MICROMANIPULATOR FOR LOWTEMPERATURE SPECTROSCOPY

FACTS

Load Characteristics	Fx (N)	Fy (N)	Fz (N)	Rx (Nm)	Ry (Nm)	Rz (Nm)
	6	5	20	0.2	0.2	0.2

With one **SpaceFAB SF-3000 BS vacuum** all six degrees of freedom can be degrees of freedom can be moved without additional positioning elements. The low weiht of the moving platform allows high-dynamic positioning processes. The non pre-loaded desingn can easily carrry up to 2 kg enter monted. SpaceFAB SF-3000 BS vacuum is operating in closed loop mode.

SOFTWARE

Calculation of motion path with collision dedection Pivot point can be set by the customer 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



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Technical data

Z (mm/sec)

Travel Range			
X, Y (mm)	50 x 12.7		
Z (mm)	100		
Rx, Ry (°)	10		
Rz (°)	10		
Velocity Range (mm/sec)	0.01 10		
Velocity Range (°/sec)	0.01 10		
Bi-directional Repeatability (µm)			
Х, Ү	+/- 0.5		
Z	+/- 0.5		
Bi-directional Repeatability (µrad)			
Rx, Ry	+/- 20		
Rz	+/- 20		
Speed max. (mm/sec)			
DC-B-031			
X, Y (mm/sec)	30		

Rx, Ry (°/sec)	10
Rz (°/sec)	10
Speed max. (mm/ sec)	
X, Y (mm/sec)	20
Z (mm/sec)	20
Rx, Ry (°/sec)	8
Rz (°/sec)	8
Resolution (without load)	
X, Y (μm)	0.25
Z (µm)	0.25
Rx, Ry (^°)	0.0005
Rz (°)	0.0005

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Material

Weight (kg)

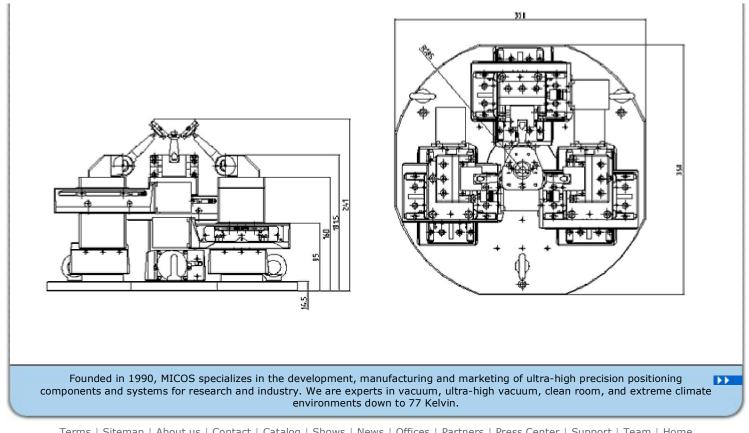
 $\label{eq:Note:Foremore} \textbf{Note:} \ \textbf{Foremore detailed informations, please contact us.}$

For turned key solutions, please contact us.

The travel range is depending on the position of the pivot point

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SpaceFAB SYSTEMS vacuum



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 MOTION CONTROL = Systems | Positioners | MiniPositioners | DirectDrives | Controllers | ManPositioners | Accessories | Vacuum

 MAC PhotonX = Moskito | Albatros | Campus

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