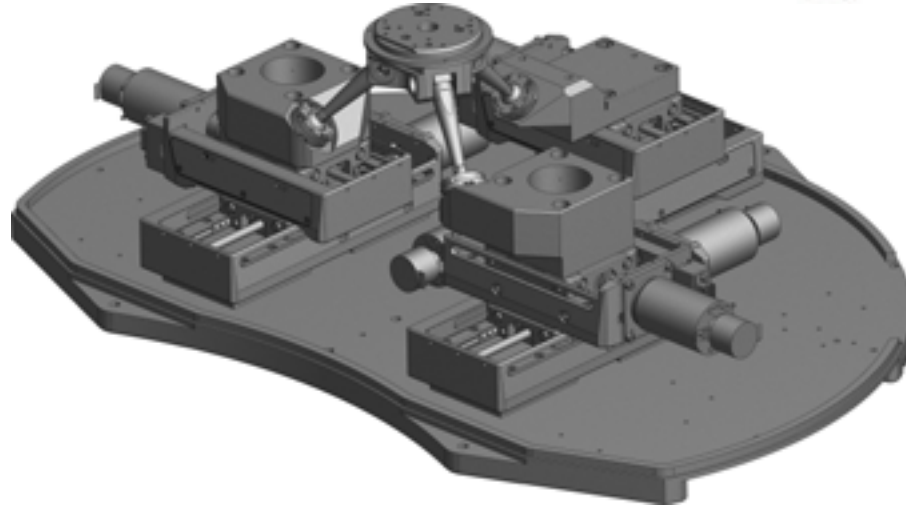
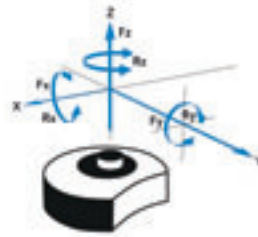




FACTS

Load characteristics	F _{x(N)}	F _{y(N)}	F _{z(N)}	M _{x(Nm)}	M _{y(Nm)}	M _{z(Nm)}
FV	5	5	30	0.2	0.2	0.2
HV	5	5	30	0.2	0.2	0.2
UHVG	5	5	30	0.2	0.2	0.2



KEY FEATURES

- Vacuum up to 10⁻⁹ hPa
- Six axes micro positioning system
- Compact, low profile system
- Travel ranges linear (X,Y,Z) 50x100x12.7 mm
- Travel ranges rotation Rx, Ry, Rz 10°x10°x10°
- Maximum speed 10 mm/sec
- Load capacity up to 3 kg center mounted
- Pivot Point can be set by the user
- User friendly software
- Can be used by any modern programming language
- Including software, controller and amplifiers

freedom. The low weight of the moving platform allows higher dynamic positioning processes. The non-preload version can easily carry up to 3 kg center mounted load. The SpaceFAB SF-300 BS Vacuum is operating in open or in closed loop and it can generate any arbitrary trajectory.

The SpaceFAB SF-300 BS Vacuum is equipped with a special 2-phase vacuum stepper motor.

The SpaceFAB SF-300 BS Vacuum system can perform motions in all six degree of

TECHNICAL DATA

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

Vacuum type	FV	HV	UHVG
Speed max. X, Y, Z (mm/sec)	10	2.5	2.5
Speed max. Rx, Ry, Rz (°/sec)	3	1.25	1.25
Velocity Range (mm/sec)	0.01...10	0.1...2.5	0.1...2.5
Velocity Range (°/sec)	0.01...1.25	0.01...1.25	0.01...1.25
Weight (kg)	23	23	23
Bi-directional Repeatability X, Y, Z (µm)	± 0.5, ± 0.5, ± 0.5	± 0.5, ± 0.5, ± 0.5	± 0.5, ± 0.5, ± 0.5
Bi-directional Repeatability Rx, Ry, Rz (°)	± 0.0011	± 0.001	± 0.001
Resolution, calc. without load X, Y, Z (µm)	0.2	0.2	0.2
Resolution, calc. without load (height platf.) Rx, Ry, Rz (°)	ppp.	ppp.	ppp.
Resolution typical without load X, Y, Z (µm)	0.0005	0.005	0.005
Resolution typical without load Rx, Ry, Rz (°)			
Current (A)			
Voltage Range (V)			

Stiffness, theoretical Kx, Ky, Kz (N/µm)	
Material	Aluminum or Stainless steel, suitable for vacuum

Vacuum Note: * = The maximum travel ranges in the different coordinate directions (X, Y, Z, RX, RY, RZ) are interdependent. The data for each axis in this table shows its maximum travel, where all other axes are at their zero positions. If the other linear or rotational coordinates are not zero, the available travel may be less.
 ** = leg speed.
 ppp. = depending on the pivot point position.
 ppp. = depending on the pivot point position.
 Please see "GLOSSARY Vacuum Specification" for all vacuum specification.

APPLICATIONS

CONTROLLERS

ROBOTICS

LINEAR STAGES

ROTATION STAGES

PIEZO STAGES

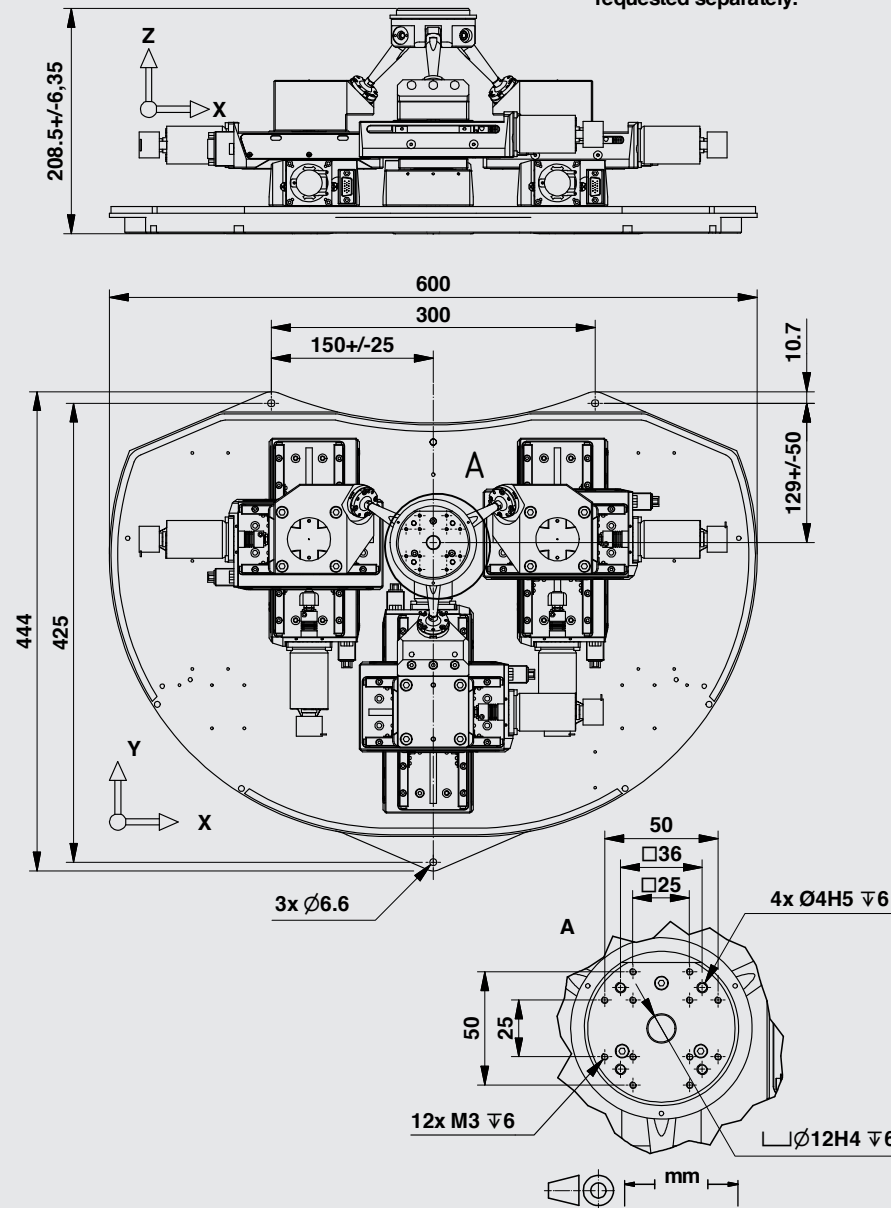
ACCESSORIES

APPENDIX

SF-300 BS

- SF-307 BS
- SF-650 PS
- SF-450 PS
- SF-230 PS
- HP-550
- HP-430
- HP-300
- HP-140
- H-811
- H-824
- H-850
- P-911KNMV

drawings for the corresponding vacuum class must be requested separately.



Order No.	6901-V-	1	0	0
FV		1		
HV		2		
UHV		3		
open loop		0		
closed loop		1		