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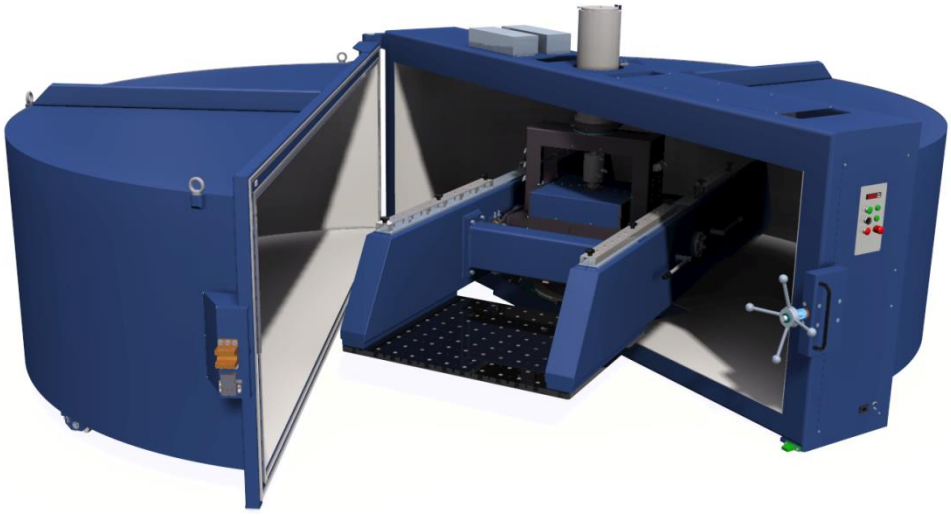
accurate and clever

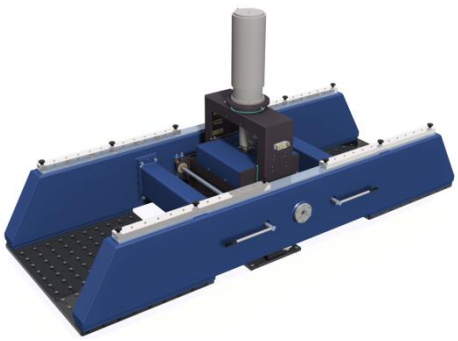
Centrifuge Series: GLC-6_13_15'000

Features

- Direct drive brushless torque motor for long wear and precise rate
- Rate with no drift, good instantaneous rate stability and high resolution of <0.001deg/s
- Shroud for operator safety and controlled aero dynamic conditions
- Optional with pneumatic, hydraulic, optical or RF rotary joints



Description



Centrifuge Series GLC-6 is designed for testing specimens under G-Loads. The Series GLC-6 is based on the modular drive assemblies used for the series of proven test instruments.
The main axis is driven by direct drive brushless torque motor and supported by precision angular contact bearings.
The drive shaft is carrying a stiff boom with the mounting plates at each end. Balancing the boom is mandatory prior to any testing. Balancing is facilitated by retracting the fixation pinions, which frees the boom to operate as a balance.
The enveloping shroud made of rolled steel reduces aerodynamic drag and protects the operator. The hinged segment-shaped door provides convenient access to the payload. The closed clamshell securely bolts to the enclosure during the operation of the centrifuge. Only with the door closed and secured can the boom be rotated. Boom rotation is monitored and interlocked with the door lock.
The centrifuge is mounted on a base template. Sufficient space must be allowed for the opening door and the possible electric cabinet. The floor around the centrifuge must be smoothly finished for the clam shell door roller to ride on.
The centrifuge is furnished with a slip ring capsule featuring lines with different power ratings. In addition to the electrical lines, pneumatic, hydraulic, RF- or optical lines are optional available. Not all options are possible at the same unit. The lines terminate on terminals at the center section of the boom and the base. Safety measures and features are hard wired.
All operations can be commanded by a PC with the delivered, easy to use, software. Analog command with 12bit resolution is optional available.





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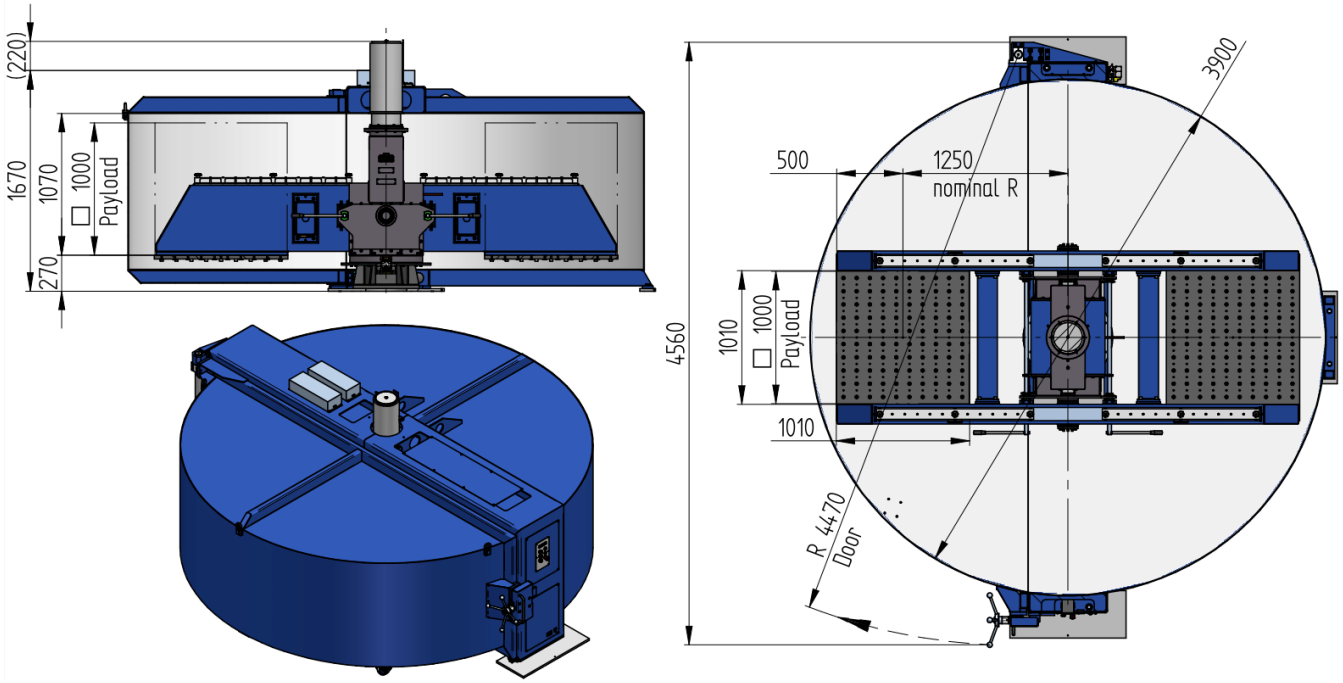
Specification Summary*

General	Payload, nominal	1'000mm cube, 2x150kg (2x250kg, peak)
	Radius, nominal	1'250mm, ranging between 750 to 1'750mm
	Weight	~4'000kg (without payload)
	Dimension, total	~Ø4'500x1'800mm (DxH)
Performance	Capacity	15'000Gkg
	G-Rating	fraction of micro G to >100G
Rate	Range	0.1 to 1'600deg/s (27.9rad/s)
	Resolution	<0.001deg/s
	Stability	<± 0.002% of commanded rate over one resolution
Supply	1L+N+P, 230V ±10%, 50/60Hz, 16A, fused slow blow	
Command	Ethernet via compatible input device or host computer	
		safety features are hard wired
	optional:	customer choice or analog command (12bit resolution)
Configuration	Mounting platen	hard anodized aluminum, flat ±0.1mm with grid of
		threaded mounting holes and inserts
	optional:	customized platen
	Lines to payload	slip ring lines from base to boom
		100 lines, 5A, shielded
		20 lines, 25A, shielded
		5 lines, 50A, shielded
		2 lines, 100A, shielded
	optional:	customer defined lines and connections to payload,
		with pneumatic, hydraulic, optical or RF rotary joints
	optional:	Pneumatic or electric, failsafe, emergency brake

Outline Dimension



*Design and specifications are subject to changes without prior notice