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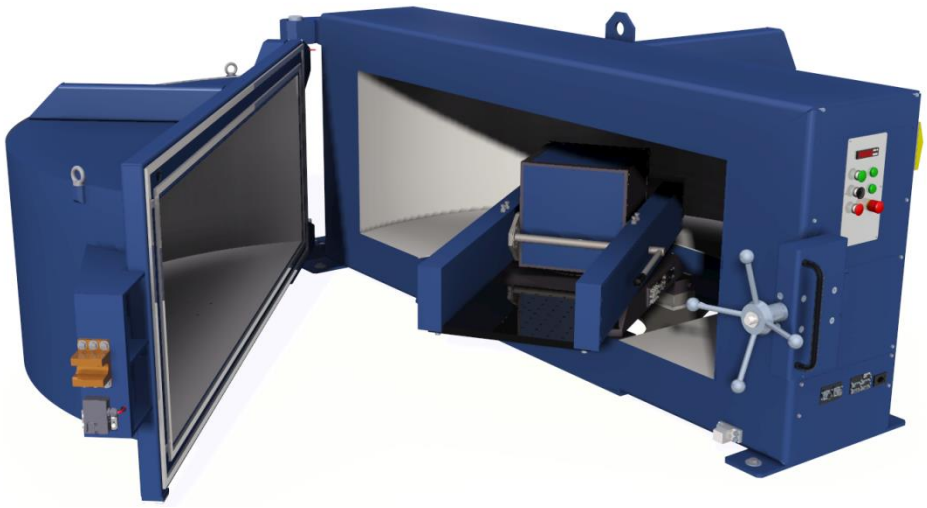
accurate and clever

Centrifuge Series: GLC-4_8_1'200

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

Centrifuges Series GLC-4 is based on the modular drive assemblies used for the series of proven test instruments. The axis is driven by direct drive brushless torque motor and supported by precision angular contact bearings. The high resolution optical encoder provides the rate feedback. Slip rings are incorporated meeting the customer's requirement

The centrifuge is designed for the testing and calibration of integrated packages and subassemblies under high G-loading. The Payload is mounted on the hard anodized aluminum platen. A pattern of threaded holes accept a variety of test loads. Electrical access to the payload is dimensioned for different power ratings and signals. The lines terminate on the boom and the base. Access to the payload can be configured to meet the test requirements. Hydraulic, pneumatic, RF and/or optical joints can be optional provided.

All operations can be commanded by a PC with the delivered, easy to use, software. Analog command with 12bit resolution is optional also available.

The centrifuge has an enclosure for the protection of the operating crew and to reduce the aero dynamic drag. Large clam shell door provides convenient access to the instrument and the payload. The closing of the door is monitored and the centrifuge can only be operated with door properly closed. A failsafe brake can also be optional installed.





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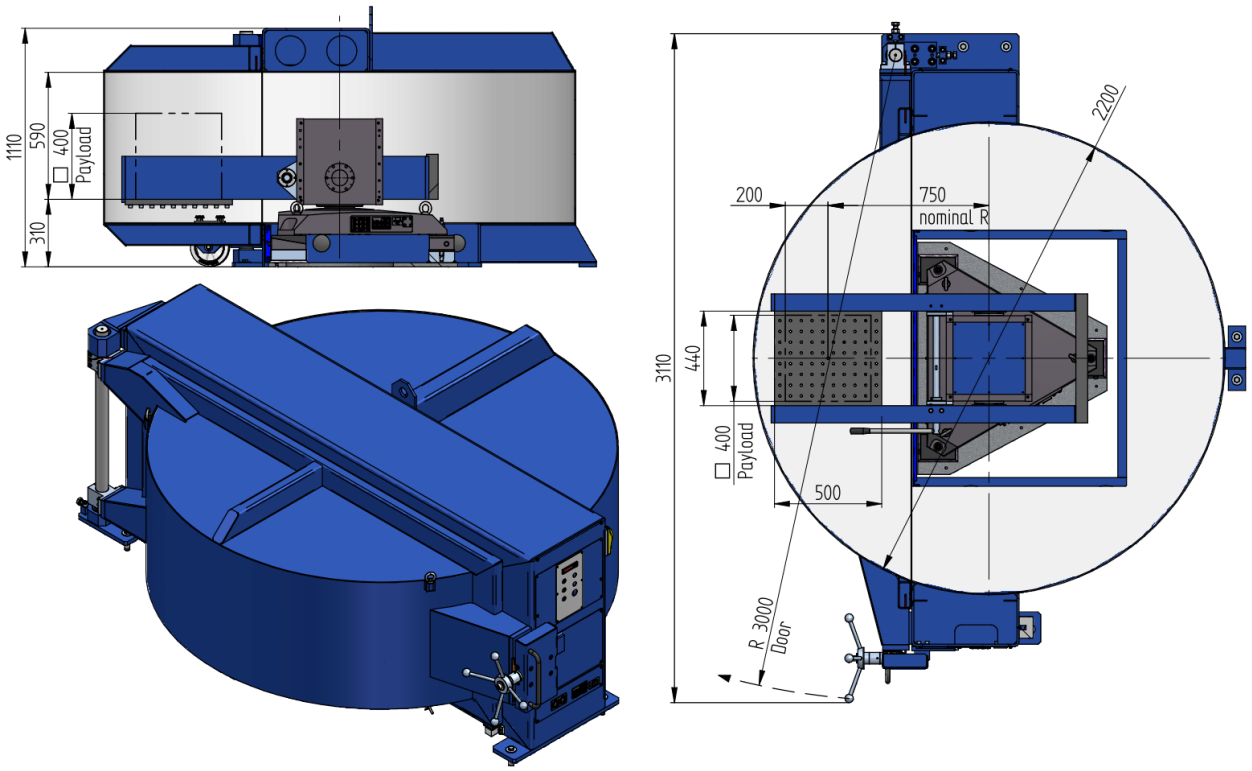
Specification Summary*

General	Payload, nominal	400mm cube, 40kg (60kg peak)
	Radius, nominal	750mm, ranging between 950 to 550mm
	Weight	~1'600kg (without payload)
	Dimension, total	~Ø2'500x1'200 mm (DxH)
Performance	Capacity	1'200Gkg
	G-Rating	fraction of micro G to >30G
Rate	Range	0.1 to 1'200deg/s (20.9rad/s)
	Resolution	<0.001deg/s
	Stability	<±0.002 % of commanded rate over one revolution
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
		4 lines, 5A, shielded
		28 lines, 2A, 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