

Centrifuges



Description

Space Electronics has extensive experience in the design and manufacturing of centrifuges. We offer 5 standard models of centrifuges and we also provide custom centrifuges to meet specific requirements. Our centrifuges are well suited for acceleration tests prescribed in the MIL STD 810, MIL STD 202, and RTCA/DO 160.

Basic Concept

Our centrifuges provide simulated operational accelerations for high level environmental testing of mechanical and electrical components. The centrifuge arm allows loads of up to 30,000 G-lbs. Two opposed square platforms provide versatile

mounting with grids of tapped holes.

Slip rings allow direct contact between stationary control hardware and the rotating test assembly. Seventy-two (72) contacts are provided in current capacities of 1, 5, and 10 amps. Custom contacts can also be provided upon request.

Control

An upright console houses manual controls for motor power and speed. Speed indication is provided in increments of 0.1 rpm. An optional computer system is also available for programmable control of the centrifuge acceleration profile.

Safety

The centrifuge enclosure is made of high strength steel and is outfitted with interlocks which inhibit operation of the system in the event an access door is left open.

Additional safety features are available, including vibration detectors, built-in balancing capability, and energy absorbing fail safe elements.

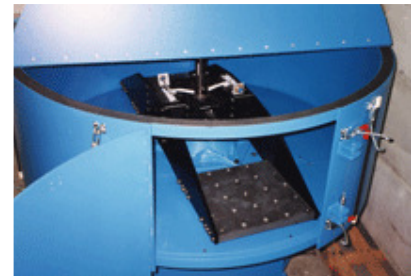
Expertise

We provide the customer with more than a centrifuge. Our technical team is committed to providing all support services.

We dedicate our expertise as the world leader in mass properties instruments to advise our customers regarding critical operation of the centrifuge. Operator training is provided during installation, with emphasis on static and dynamic balancing considerations.

Operating Environment

For maximum accuracy, the centrifuge should be located in an area which is free from vibration. The floor should be concrete and on ground level, so that centrifuge will remain in a level condition.



Technical Specifications

	C350-20	C350-30	C450-20	C450-30
Load Capacity (G-kg)	9,000 G-kg	13,600 G-kg	9,000 G-kg	13,600 G-kg
Payload Capacity (kg)	90 kg	90 kg	90 kg	90 kg
Maximum Acceleration (G at radius)	400 G @ 61 cm	400 G @ 61 cm	400 G @ 106 cm	400 G @ 106 cm
Plate Mounting Size (cm)	45.7 x 45.7 cm	45.7 x 45.7 cm	61 cm x 61 cm	61 cm x 61 cm
Speed Range (RPM)	0 - 765 PM	0 - 765 PM	0 - 410 RPM	0 - 410 RPM
Radius of Gyration (cm)	38 - 84 cm	38 - 84 cm	76 - 137 cm	76 - 137 cm

Alternate models are available. Please contact us with your specifications.