



**Series C40-ST**

## **PRECISION LABORATORY CENTRIFUGE with SATELITE TABLE**

The series C40 centrifuge is a high accuracy laboratory centrifuge designed for the test and calibration of precision accelerometers and small electromechanical devices.

Two versions are available, either belt driven or direct drives both make use of AC brushless motors. A satellite table permits to subject the test specimen to continuous acceleration while maintaining its sensitive axis fix in space.

The direct drive technology combined with the new generation of all digital **AXIDYN ND** control system delivers large servo bandwidth and high dynamic response.

Several models and options are available:

- Customized electrical slip-rings
- Optical fiber rotary joint and modems
- Fluid rotary joints

The new generation of control system **AXIDYN ND** includes the following operating modes: DC linear acceleration and sinusoidal g profiles any combined set of motion as permitted by the geometrical arrangement

This centrifuge is indeed a full 2 axis motion simulator.

Optional remote interfaces available are:

- Ethernet
- IEEE 488
- Reflected memory interface Real time Bus
- RS232 / RS422 / IEEE 488
- I/O analog input/output

Based upon its 30 years of experience, **ACTIDYN SYSTEMES** offers the largest combination of centrifuges available today.

## PRECISION LABORATORY CENTRIFUGE WITH SATELLITE TABLE

Model	C40 DD	C40-Belt	Units
Chamber height	1,8	1,8	m
Chamber diameter	2,4	2,4	m
System total mass	850	850	kg
Acceleration range	0.1 to 100 1 to 1000	5 to 100 50 to 1000	g m/s <sup>2</sup>
Centrifuge radius nominal	0,9	0,9	m
Square mounting platforms (1)	400 x 400	400 x 400	mm
Payload mass on platform	40	40	kg
Table top diameter	0,2	0,2	m
Payload mass on table top	20	20	kg
<b>Centrifuge arm</b>			
Acceleration command			
Range	0.01 to 1000	0.5 to 1000	m/s <sup>2</sup>
Acceleration accuracy	+/- 2	+/- 200	ppm
Command resolution	0.001	0.1	m/s <sup>2</sup>
Readout resolution	0,0001	0,01	m/s <sup>2</sup>
Rotating speed max	320	320	rpm
Rotating speed max	2000	2000	°/s
<b>Satellite table</b>			
Rate command			
Range	0 to 2000	0 to 2000	°/s
Resolution	0,00001	0,1	°/s
Stability over 360°	0,00001	0,1	%
<b>Arm and satellite table</b>			
Position command resolution	0,00001	N.A	°
Position command accuracy	+/- 1	N.A	Sec of arc
<b>Power requirement</b>			
Line voltage	110 to 240		V
Installed power	10		kVA
Frequency	50 or 60		Hz

**ACTIDYN SYSTEMES ALSO MANUFACTURE THESE EQUIPMENTS TO BETTER SERVE YOU**

