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.
PRECISON LABORATORY CENTRIFUGE WITH SATELLITE TABLE

<table>
<thead>
<tr>
<th>Model</th>
<th>C40 DD</th>
<th>C40-Belt</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chamber height</td>
<td>1,8</td>
<td>1,8</td>
<td>m</td>
</tr>
<tr>
<td>Chamber diameter</td>
<td>2,4</td>
<td>2,4</td>
<td>m</td>
</tr>
<tr>
<td>System total mass</td>
<td>850</td>
<td>850</td>
<td>kg</td>
</tr>
<tr>
<td>Acceleration range</td>
<td>0.1 to 100</td>
<td>5 to 100</td>
<td>g</td>
</tr>
<tr>
<td></td>
<td>1 to 1000</td>
<td>50 to 1000</td>
<td>m/s²</td>
</tr>
<tr>
<td>Centrifuge radius nominal</td>
<td>0,9</td>
<td>0,9</td>
<td>m</td>
</tr>
<tr>
<td>Square mounting platforms (1)</td>
<td>400 x 400</td>
<td>400 x 400</td>
<td>mm</td>
</tr>
<tr>
<td>Payload mass on platform</td>
<td>40</td>
<td>40</td>
<td>kg</td>
</tr>
<tr>
<td>Table top diameter</td>
<td>0,2</td>
<td>0,2</td>
<td>m</td>
</tr>
<tr>
<td>Payload mass on table top</td>
<td>20</td>
<td>20</td>
<td>kg</td>
</tr>
</tbody>
</table>

**Centrifuge arm**

- Acceleration command
  - Range: 0.01 to 1000 m/s²
  - Accuracy: +/- 2 ppm
  - Resolution: 0.001 m/s²
  - Readout resolution: 0,0001 m/s²
  - Rotating speed max: 320 rpm
  - Rotating speed max: 2000 °/s

**Satellite table**

- Rate command
  - Range: 0 to 2000 °/s
  - Resolution: 0,00001 °/s
  - Stability over 360°: 0,00001 %

**Arm and satellite table**

- Position command resolution: 0,00001 N.A
- Position command accuracy: +/- 1 N.A Sec of arc

**Power requirement**

- 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