



Series C58-1- C58-DD

LABORATORY CENTRIFUGE

The belt driven or direct drive series C58 or C58-DD centrifuge is a medium to high accuracy laboratory centrifuge designed for the dynamic test and calibration of precision accelerometers and small electromechanical devices.

Both series make use of AC brushless motor technology that allows for long life maintenance free operation.

The direct drive technology combined with the new generation of all digital **AXIDYN LT** control system delivers large servo bandwidth and high dynamic response. It also does minimize maintenance cost.

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 LT** includes the following operating modes: DC linear acceleration and sinusoidal g profiles.

Optional remote interfaces available are:

- Ethernet
- IEEE 488
- USB port
- RS232 / RS422
- I/O analog input/output

Based upon its 30 years of experience, **ACTIDYN SYSTEMES** team of engineers has designed a family of high performance simulators, which combines quality and high performances at low cost that are conceived to satisfy customers needs.

LABORATORY CENTRIFUGE

Model	C58-1	C58 DD	
Drum diameter	3.1	0.9	m
Height	1.9	1.9	m
Weight	2200	2200	kg
Max rotating speed	170	170	tr/min
Acceleration range	0.5 to 50	0.1 to 50	g
	5 to 500	1 to 500	m/s ²
Centrifuge radius nominal	1,0	1,0	m
Arm length	1,25	1,25	m
Maximum payload mass	50	50	kg

Acceleration command

Range	5 to 500	0,01 to 500	m/s ²
Command resolution	0,1	0,01	m/s ²
Acceleration readout			
Range	0,01 to 500	0,01 to 500	m/s ²
Readout resolution	1x10 ⁻²	1x10 ⁻⁴	m/s ²
Linearity	1x10 ⁻³	1x10 ⁻⁴	m/s ²

Power requirement

Line voltage	110 to 240	110 to 240	V
Installed power	4	4	kVA
Frequency	50 or 60	50 or 60	Hz

Connectivity

Signal slip rings quantity	15	15	
Operating voltage DC	28	28	V
Intensity max.	1	1	A
Static resistance max.	2	2	Ω
Dynamic resistance (rms noise)	10	10	mΩ
Optical rotary joint			
Number of passages	1	1	
Ethernet I/O ports	16	16	
Transmission speed	1	1	Gbits/s

Fluidic rotary joint, optical fiber link, different slip ring configuration available upon option

Environment

Storage temperature	0 to 50	0 to 50	°C
Operating temperature	15 to 25	15 to 25	°C
Relative humidity (non condensing)	20 to 90	20 to 90	%

ACTIDYN SYSTEMES ALSO MANUFACTURE THESE EQUIPMENTS TO BETTER SERVE YOU

