

MODEL C61-3

Ineel, Idaho Falls, USA
Ucsd, San Diego, USA

- * 2 meters platform radius
- * 0.5 x 0.7 experiment platform
- * 500 kg at 100 g's
- * 130 g's standard, 1000g's optional
- * Electrical and optical passages
- * Hydraulic rotary joints and power rings
- * Automatic balancing
- * On arm data acquisition system



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Dimensional data

Platform radius	2	m
Nominal radius	1.75	m
Platform width	0.6	m
Platform depth	0.7	m
Container height	0.6	m
Maximum usable height	0.85	m

Performances

Payload mass (maxi.)	500	kg
Acceleration at maximum payload	100	g
Payload mass at max. acceleration	230	kg
Acceleration range	5 to 130	g
Acceleration accuracy	+/- 0.2	g
Vibration at platform (maxi.)	0.3	g _{RMS}
Maximum operating imbalance	+/- 20	kN

Power plant

Installed power	30	kVA
Motor speed range	180 to 1800	Rpm
Transmission ratio	7,4	
Centrifuge boom rate	30 to 245	Rpm
Power consumption at 100 g's	20	kW
Power consumption at 130 g's	25	kW
Mains supply	380 / 410	V

Electrical slip rings

Current rating	1 to 50	A
Operating voltage AC or DC	10 to 410	V
Noise	10	mΩ _{RMS}
Quantity	up to 80	
Frequency	DC to 10	MHz

Optical rotary joint

Number of passages	2	
Optical coupling Ethernet or Intranet	1	
Transmission rate	100	MHz

Hydraulic rotary joint

Number of passages (maxi.)	6	
Pressure rating	10 to 200	bars
Flow	10 to 150	l/min
Fluid temperature	10 to 50	°C

Automatic balancing

Balancing range	20	kN
Balancing resolution	+/- 1	kN
Balancing time	30	s