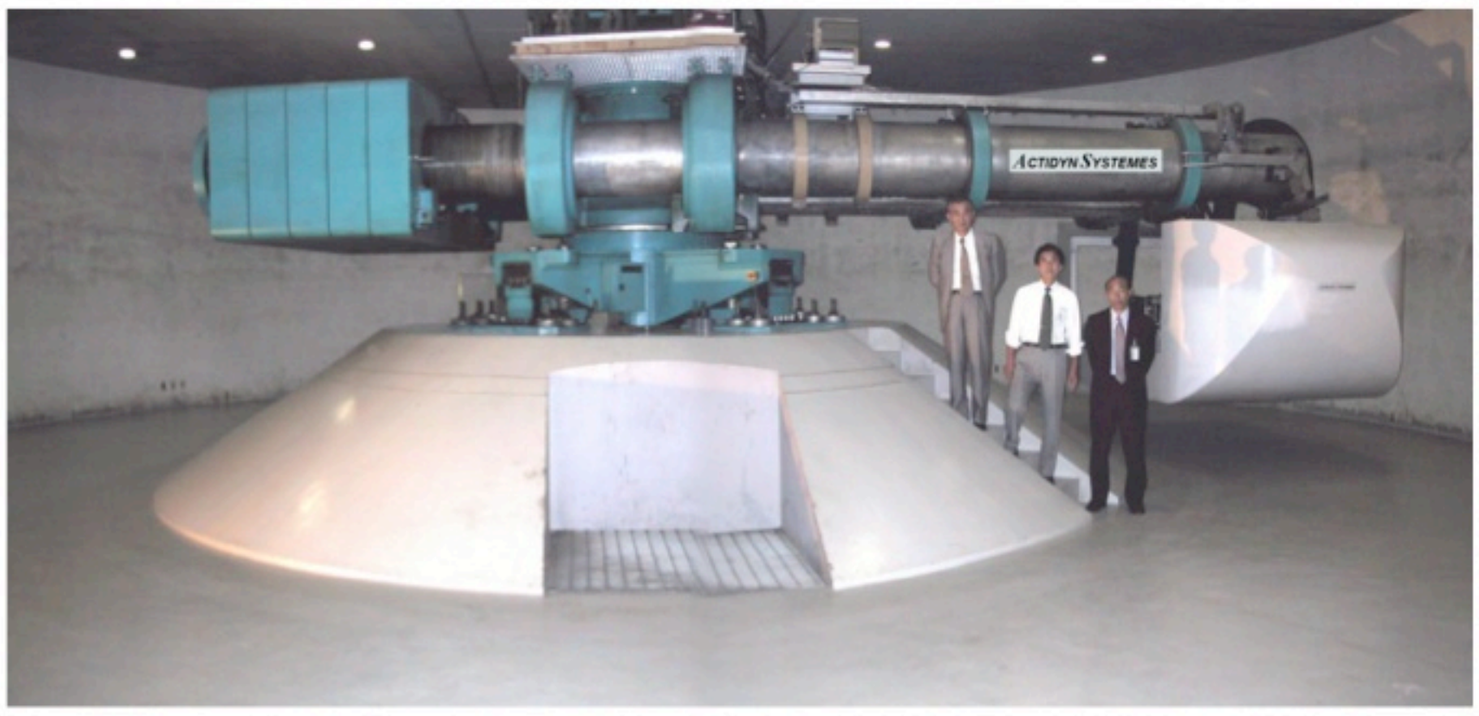
Actidyn
Active Dynamics

MODEL C85-2

TAKENAKA Chiba, Japan



- 7.5 Meters platform radius
- 2 x 2 m experiment platform
- 5000 kg at 140 g's; 200 g's, 2000 kg
- Quake Simulator and data acquisition system
- Power and signal slip rings
- Fiber optic rotary joint
- Hydraulic rotary joints
- Automatic balancing
- On arm data acquisition system

ACTIDYN SYSTEMES SA
1, rue du groupe Manoukian
78990 ELANCOURT - FRANCE

Site Web : www.actidyn.com
Société anonyme au capital de 170 000 €
R.C.S. Versailles B401981386 – APE 7120B

E-mail : contact@actidyn.com
Téléphone : + 33 (0) 1 30 16 05 30
Télécopie : + 33 (0) 1 30 16 05 33

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Dimensional data	Platform radius	7.5	m
	Nominal radius	7	m
	Platform width	2	m
	Platform depth	2	m
	Container height	2	m
	Maximum usable height	2.5	m
Performances	Payload mass (maxi.)	7000	kg
	Acceleration at maximum payload	100	g
	Payload mass at max. acceleration	2000	kg
	Acceleration range	10 to200	g
	Acceleration accuracy	+/- 0.2	g
	Vibration at platform (maxi.)	0.3	g_{RMS}
	Maximum operating imbalance	+/- 400	kN
Power plant	Installed power	1600	kVA
	Motor speed range	210 to 1120	Rpm
	Transmission ratio	7	
	Centrifuge boom rate	30 to 160	Rpm
	Power consumption at 100 g's	500	kW
	Power consumption at 200 g's	1100	kW
	Mains supply	660	V
Power rings	Current rating	100	A
	Line voltage	410	V_{RMS}
	Number of lines	4	
Signal slip rings	Current rating	1	A
	Operating voltage DC	110	V
	Noise	10	$m\Omega_{RMS}$
	Quantity	up to 120	
	Frequency	DC to 10	MHz
Optical rotary joint	Number of passages	2	
	Optical coupling Ethernet ports	16	
	Transmission rate	1	GHz
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	400	kN
	Balancing resolution	+/- 1	kN
	Balancing time	120	s

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