

ORBITEK®

Range of Bio-equipment

LAB SHAKERS



Scigenics Biotech

Innovation inspired

SCIGENICS BIOTECH since its inception in 1997 has been an indigenous venture in manufacturing of **ORBITEK®** range of Shakers and Plant Growth Chambers, specifically addressing the field of Life-Sciences & Biotechnology.

Dynamic leadership combined with a talented pool of professionals has established **ORBITEK®** as a preminent entity in biotech equipment manufacturing in India.

Product development with advanced features and reliability to benefit customers has been organizations focus initiative.

Customization of the equipment through close interaction with user scientists has been the organizations forte.

An ISO 9001:2015 Company

Recognition

- Largest installation base of Shakers with a prestigious customer bank of Pharmaceutical organisations, Reputed Universities, Research Institutes and Multinational corporations.
- Widest range of models for lab and production scale shakers including bespoke design for specific applications.
- Government of India (DSIR*) recognized in-house R & D Unit.
- ISO 9001:2015 certified company.
- CE certified products assuring safety standards.
- Pioneer in innovative indigenous design with comprehensive back-up and support.
- First Indian company to develop Muti-deck shakers and Stackable shakers under DBT** - SBIRI scheme.

* DSIR - Department of Scientific and Industrial Research.

** DBT - Department of Bio-Technology.

Open Air Shakers



ORBITEK® open air shakers are typically designed to suit, researchers application demands in cultivating microbial, tissue culture and cell culture. The constant agitation with uniform amplitude provides the optimum oxygen transfer to the cultures, resulting in better growth and homogenous yield.

These lab scale open air shakers are available in 3 different variants to choose from. Based on clamp holding capacity and speed, **ORBITEK®** open air shakers addresses the user scientists requirements in Life - Sciences.



ORBITEK® LJ - Orbital Laboratory Junior Shaker

Universal Tray :
350 x 350 mm Small foot
print lab shaker



ORBITEK® L - Orbital Laboratory Shaker

Universal Tray :
420 x 420 mm Compact
shaker with high RPM



ORBITEK® LX - Orbital Laboratory Shaker With extended tray

Universal Tray :
550 x 550 mm Large
capacity lab shaker

Salient Features

- Ergonomically designed with minimal footprint
- Triple-eccentric counterbalanced drive for uniform agitation with 25 mm shaking orbit
- Maintenance free Permanent (self) lubricated shield ball bearings for noiseless operation
- FRP exterior with anti-vibration mount for smooth running
- Precise shaking speed control with gentle start /stop cycle , preventing spillage
- Powerful Permanent Magnet DC drive with digital LED display of speed
- Pulse width modulation (PWM) based speed control
- Optional timer function for speed
- Optional Illumination bank available for models LJ & L
- Auto re-start to set speed after power outage
- Universal platform to accommodate Erlenmeyer, Round bottom, volumetric flasks ,test tube holders & micro plate holders
- Has auto restart function after power interruption with non volatile memory (retain set parameters after power failure)

ORBITEK®	LJ	L	LX
Speed range	50 -250 rpm	30 -350 rpm	50 -250 rpm
Speed Drive	DC	DC	DC
Speed Accuracy	+/- 2% of set value	+/- 2% of set value	+/- 2% of set value
Orbital Diameter	25 mm	25 mm	25 mm
Tray size	350x350 mm	420x420 mm	550x550 mm
Display	Digital LED	Digital LED	Digital LED
Cabinet	FRP/Coated Steel	FRP/Coated Steel	FRP/Coated Steel
Dimensions WxDxH	385x470x260 mm	460x470x260 mm	576x700x280 mm
Electrical requirement	230V, 50Hz, 1 ϕ 6A	230V, 50Hz, 1 ϕ 6A	230V,50Hz, 1 ϕ 6A
Basic Weight	30 Kgs	40 Kgs	60 Kgs
Flasks Holding Capacity (Erlenmeyer)			
50/100 ml	16	36	49
250 ml	16	25	36
500 ml	9	16	25
1000 ml	4	9	16
2000 ml	-	4	9