

ORBITAL SHAKER

eltek Orbital Shakers are used for mixing the solutions at low speeds for an extended period of time. The instrument is specially designed for a range of applications such as cell culture, washing procedures, general chemical mixing, solubility studies, bacterial suspensions, fermentation, etc. in pharmaceutical and biotechnological organisations.

Salient Features :

The outer body of the orbital shaker has a robust construction of 1 mm thick mild steel with epoxy powder coating. The eccentric bearing mechanism ensures smooth, stable and low noise operation. The platform can accommodate flasks of various capacities i.e. from 100 ml to 2000 ml. High-grip anti-vibration feet which prevents walking of the shaker.

The orbital shaker runs on standard 230 V AC Single Phase 50 Hz power supply. A MCB is present for better electrical safety. The instruments can operate between 5 °C to 60 °C environmental conditions. The speed and time can be set with the help of soft touch keypad. There are 10 user programmable memory. Depending upon models the max speed is upto 300 RPM whereas the max. timer will be upto 9999 mins or infinite. Speed accuracy is ± 5 RPM. User defined smooth acceleration and deceleration of the shaker is available from 12 to 510 secs. Auto restart in case of power failure for the remaining time period. Audio alarm after timer elapses. Maintenance free heavy duty low noise motors and drives are the core part of this unit.

Flasks can be easily replaced at the user end. Multiple tier shakers also available.

Technical Specification :

CATALOG NO.	OS - 1	OS - 2	OS - 3	OS - 4	OS - 4 (2 T) - 1
Platform Size (mm)	350 x 350	700 x 700	900 x 900	1250 x 1250	1500 x 1500 x 2nos
Platform MOC	S.S. 1 mm	S.S. 1 mm	M.S. 1.6 mm Powder Coated	M.S. 1.6 mm Powder Coated	M.S. 1.6 mm Powder Coated
Outer Dimension (mm)	350 x 350 x 200	700 x 700 x 300	900 x 900 x 350	1250 x 1250 x 400	1500 x 1500 x 800
Orbital Dia (mm)	40 mm	40 mm	50 mm	50 mm	50 mm
Speed (RPM)	20-250/300	20-250/300	20-250	20-200	20-200
Display	LED	LCD	LCD	LCD	LCD
Drive	DC - Drive	VFD	VFD	VFD	VFD
Motor	Stepper	AC 3 phase	AC 3 phase	AC 3 phase	AC 3 phase
Flask capacity	9 Nos of 250ml 6 Nos of 500ml 4 Nos of 1000ml 4 Nos of 2000ml	25x1000 ml or 36x500 ml or 48x250 ml or 68x100 ml	48x1000 ml or 64x500 ml or 76x250 ml or 100x100 ml	81x1000 ml or 100x500 ml or 126x250 ml or 198x100 ml	81x1000 ml x 2 nos or 100x500 ml x 2 nos or 126x250 ml x 2 nos or 198x100 ml 2 nos
Mounting Leg	Bush Type	120mm diameter	120mm diameter	120mm diameter	120mm diameter

Optional Features:

- Manufacturing as per CE standards.
- Universal Platform for different combination of flasks.
- IQ, OQ, PQ, DQ, calibration, validation and traceability documentation can be provided as per FDA protocols.

Calibration:

All models are calibrated with the help of master calibrator which is certified for its accuracy by Electronic Regional Test Laboratory Mumbai.

Orbital Shakers can also be manufactured as per user-customised specification.