

QDM / QD-2401

Orbital Shaker Systems

Compact benchtop, standard industrial and large-format advanced systems. Configure vessel fixtures, motion and controls for your process.



Compact Benchtop Orbital Shaker

QD-2401-V5P



Standard Industrial Orbital Shaker

QD-2401-V1



Large-Format Advanced Orbital Shaker

QD-2401-V3

Operating principle

In orbital motion, reference points on the platform follow a circular path. Vessel rotation and reciprocating rocking are different motion types. Motion geometry and orbit diameter are defined for the project.

Application-specific configuration

Adapters for vessel dimensions and geometry • Platform size, carriers and clamping • Orbit diameter, speed profile and balanced loading • Control screen, timer, recipes and data logging • Guards, lid interlocks, emergency stop and stopping behaviour • Body material, finish, castors and anchoring

Concept design views. Bottle counts, display values and layouts in renders are illustrative. Technical values are reference design targets, verified with vessel type, fill volume, orbit diameter and load distribution.

QD-2401-V5P

Compact Benchtop Orbital Shaker

Sample preparation, controlled shaking and small-scale product development on a laboratory bench.



Parameter	Reference design / configuration
Motion	Orbital
Speed range	Project-specific
Total load	Project-specific
Vessel arrangement	Project-specific
Orbit diameter	Project-specific
Body	AISI 304 reference; material selected for application
Timer	Project-specific
Power supply	Project-specific
Platform and dimensions	Project-specific

Benchtop footprint • Vessel-specific carriers and clamping plates • Speed and time controls • Configuration for bench rigidity and load distribution

Concept design views. Bottle counts, display values and layouts in renders are illustrative. Technical values are reference design targets, verified with vessel type, fill volume, orbit diameter and load distribution.

QD-2401-V1

Standard Industrial Orbital Shaker

Repeated shaking of bottles and process vessels on a standalone frame-mounted platform.



Parameter	Reference design / configuration
Motion	Orbital
Speed range	Reference target: 50-250 rpm
Total load	Reference target: 8 kg
Vessel arrangement	Reference: 8 vessels × 1 kg
Orbit diameter	Project-specific
Body	AISI 304 reference; material selected for application
Timer	Reference: 1 min-99 h
Power supply	230 VAC / 50 Hz
Platform and dimensions	Project-specific

Standalone frame and transparent guarding • Touchscreen speed and time settings • Replaceable bottle adapters • Continuous operation and recipes configured for the application

Concept design views. Bottle counts, display values and layouts in renders are illustrative. Technical values are reference design targets, verified with vessel type, fill volume, orbit diameter and load distribution.

QD-2401-V3

Large-Format Advanced Orbital Shaker

Process trials and pilot applications on a floor-standing workstation with advanced controls.



Parameter	Reference design / configuration
Motion	Orbital
Speed range	Reference target: 50–300 rpm
Total load	Reference target: 8 kg
Vessel arrangement	Reference: 8 vessels × 1 kg
Orbit diameter	Project-specific
Body	AISI 304 reference; material selected for application
Timer	Reference: 1 min–99 h
Power supply	230 VAC / 50 Hz
Platform and dimensions	Project-specific

Advanced touchscreen interface • Guarded floor-standing design • Continuous operation and process monitoring configuration • Customisable castors, anchoring and recipe management

Concept design views. Bottle counts, display values and layouts in renders are illustrative. Technical values are reference design targets, verified with vessel type, fill volume, orbit diameter and load distribution.

V3 has the same reference load target as V1. Large-format naming does not imply an increased payload.