



HIGH-TORQUE MECHANICAL SHAKER

TE-039/6

Used for mechanical stirring fluids, high-viscosity liquids (reference: 6000 cP at 25°C), and materials in suspension.

Technical Characteristics

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- Control HMI: 4.3" touchscreen;
- Speed Range: 100 to 3000RPM;
- Drive: 700W Servo Motor;
- Torque max. at stirring shaft: 239 Ncm (Newton x Centimeter);
- Max. viscosity: 6000cP (Centipoise);
- Max. stirring quantity (water): 3 liters;
- Stirring tower: Motor support with height adjustment by electronic central bar with electronic limit switch system;
- Height adjustment: By electromechanical lifting system consisting of: - Lifting system via a motor with a spindle coupled to the stirring tower - Electronic safety sensors coupled to the lifting system (maximum and minimum) - Set of moving parts of the lifting system mechanically enclosed with metal and electrostatic paint - Vertical range: 300 mm - Release of the stirring system only with the rod at maximum range (propeller enclosed in the flask) and the access door closed - Flask fixing clamp: adjustable support for flask 110 to 150 mm in diameter and a maximum height of 250 mm - Flask identification system via electromechanical contact sensor (only releases stirring when the flask is present);
- Rod and propeller: - In 304 stainless steel with Ø80mm (dispensing propeller) - Structure and control box: In carbon steel with anti-corrosive treatment and electrostatic painting ;
- Communication between the control box and the stirring tower: Via IP 66 connector;
- Rod dimensions: Ø80 x H=300 mm;
- Equipment dimensions: W=460 x D=460 x H=980 (mm);
- Weight: 60 kg;
- Power: 750W;
- Voltage: 220V+/-5% 50/60Hz;
- Safety items: - Protection system for the stirring system by physical barrier composed of steel and acrylic - Enclosure structure for the stirring/elevation system - Support for fixing the flask with a mechanical sensor - Protection sensors for disarming the door and opening the clamp - 24Vdc controls - Emergency button - Disarming of the general electrical power system in case of emergency - Disarming of the stirring system due to an open door or failure in the flask fixing clamp - Lights indicators - Safety relay - Security warning - General disconnect switch - CISS interlock switch (Locks the access door when stirring) - Open door button - Standardized electrical - Document holder - Grounding point;
- Include: - 01 Disperser-type propeller - Instruction Manual with Warranty Term;

Benefits and Advantages

- Compliance with Regulatory Standards NR 10 and NR 12: Ensures electrical and mechanical safety, meeting protection standards in the workplace
- Indicator lights: Display the equipment's status, such as emergency, alarm, ongoing operation, energized, on, or off
- Stainless steel shaft and blade (304): Corrosion resistance and enhanced durability
- Electromechanical lifting system: Allows practical and safe adjustment of the shaft height, operated via a Touch Screen
- Safety system: Agitation is only enabled when the shaft is in the maximum position, the door is closed, and the agitation vessel is present
- Encapsulation of shaft and blade: Made of perforated stainless steel, reducing risks during operation
- Adjustable clamps: Securely fix the vessel, with an identification sensor that enables operation only when the container is properly attached
- Agitation control: Servo drive and servo motor provide stable control and precision, maintaining a constant speed throughout the process
- Cabinet: Made of carbon steel with anti-corrosion treatment and electrostatic painting, ensuring durability and resistance
- Intuitive operation: Touch Screen allows real-time monitoring, rotation range adjustment, operation time (continuous or timed), shaft height adjustment, and user management with login and password
- Safety barriers: Enclosure cabin and physical barriers made of steel and acrylic prevent access to the moving parts of the agitation system
- Rigorous quality control: The equipment undergoes tests and inspections to ensure perfect operation, providing safety and reliability
- Specialized support: Technical assistance to clarify doubts and provide guidance on equipment usage
- Customization options: Adaptations according to customer needs (consultation required)