



# ***HIGH TORQUE MECHANICAL SHAKER***

***TE-039/4***

Used for mechanical agitation in fluids, high viscosity liquids (reference: 10000 cP at 25°C) and suspended materials.

## Technical Characteristics

### TE-039/4

- Rotation control: Analog with digital display;
- Stirring Engine: 1/4 HP Three-Phase Induction;
- Torque Agitation: 130 Ncm (Newton x Centimeter) at 2000 RPM (Revolutions per minute);
- Reference viscosity: 10000 cP (Centipoise);
- Agitation volume: up to 30 liters of solution;
- Fixation of the Agitation tower: Engine support with height adjustment by central bar and lateral adjustment handle;
- Stem height adjustment: By mandrel-type shank fixing system;
- Stem and Propeller: In 304 stainless steel;
- Cabinet and control box: In carbon steel with anti-corrosive treatment and electrostatic painting;
- Rod dimensions: Ø60 x H=300 mm;
- Dimensions of the Agitation box: W=740 x D=500 x H=800 mm;
- Dimensions of the control panel: W=220 x D=400 x H=400 mm;
- Total installation dimensions: W=1000 x D=500 x H=800 mm;
- Weight: 20 kg;
- Power: 400 Watts;
- Voltage: 220V+/-5% 60Hz;
- Accompanies: - 01 grip rubber - 01 naval type propeller - 01 chuck wrench - 02 extra fuses - Instruction Manual with Warranty Term;
- Safety items: - Agitation system protection system by physical barrier composed of steel and acrylic - Support for fixing the flask - Lateral guide for clamping the panel to the central axis - Upper panel guide for central axis stability - Serial protection sensors for door and open claw disarming - Panel with push buttons without retention - 24Vdc controls in the front part - Emergency button - General electrical supply system trip in case of emergency - Agitation system trip in case of open door or bottle clamp failure - Control indicator lights - Active sensor indicator light - Single plug-in power and control connectors, not allowing one to plug into the other;
- Clamping claw: Adjustable with adjustable support for containers from 75 to 150mm in diameter.;

## Benefits and Advantages

- Compact and easy-to-handle equipment, following NR10 regulations
- Possibility of stirring up to 30 liters
- Cabinet and control box in carbon steel with anti-corrosive treatment and electrostatic painting, providing longer useful life to the equipment
- Stem and Propeller made of 304 stainless steel, providing greater durability, due to less oxidation
- Protection System of the agitation system by physical barrier composed of steel and acrylic (enclosure) that provides security
- Bottle fixation support, providing stability of the container, preventing cracks and falls
- Side guide for fastening the panel to the central axis, provides convenience
- Top panel guide for central axis stability, prevents vibration
- Serial protection sensors for door and open claw disarming, ensuring safety
- Panel with pushbuttons without retention (the system always waits for a reset), greater security
- Emergency button, disarm of the general power supply system in case of emergency and disarm of the agitation system due to an open door event or failure in the bottle fixing claw, ensuring safety
- Command indicator lights (signaling) and active sensor indicator light, provide ease of use and safety
- Rigid Quality Control, in which checks and tests guarantee the perfect functioning of the equipment, providing security and client satisfaction
- Client service, to answer questions and provide explanations about the equipment and methodologies
- Possibility of adaptations according to the client needs, makes the equipment already of line a special equipment.