

EQUIPMENT



LINEAR MOTION SHALE SHAKER

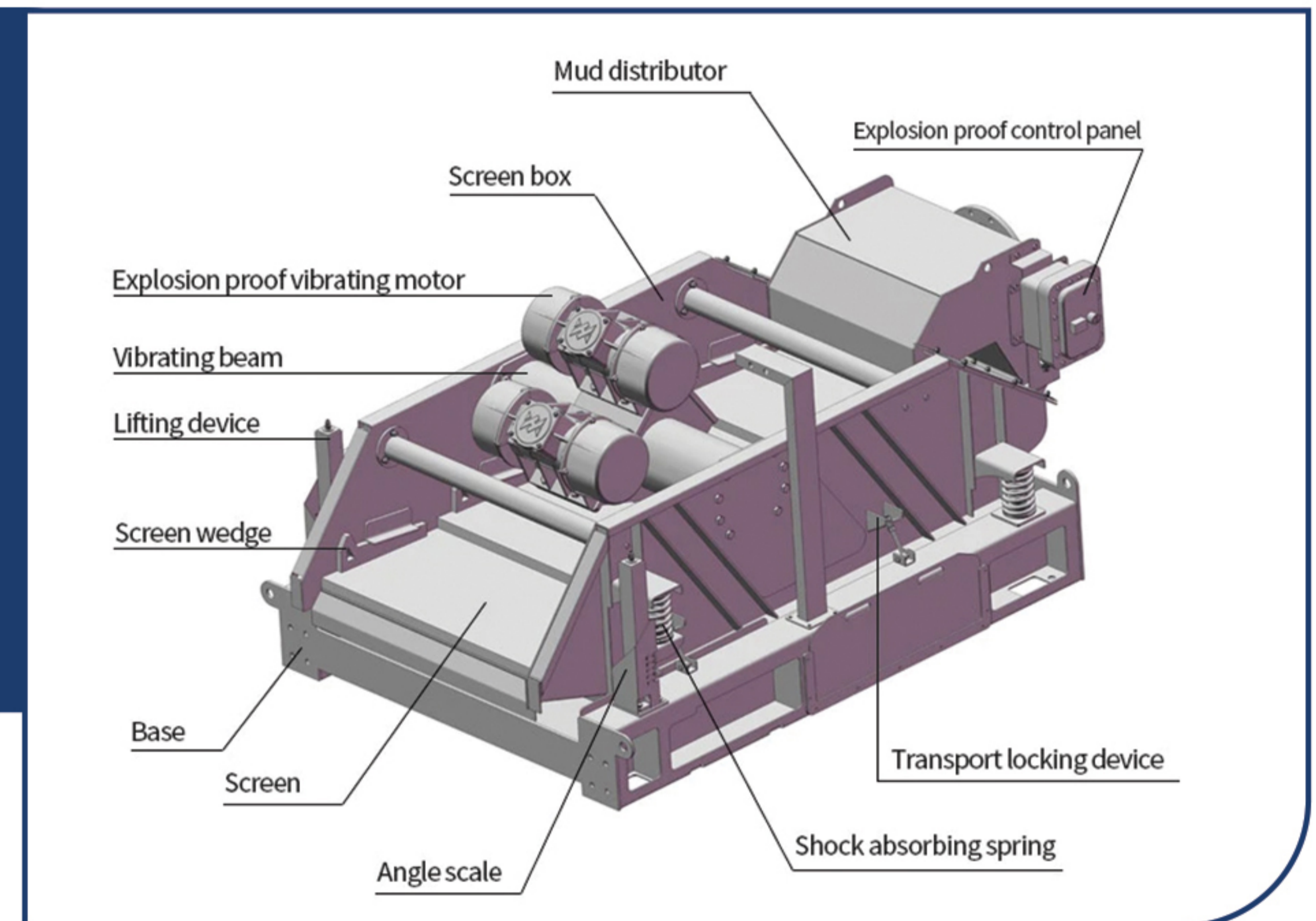
LINEAR MOTION SHALE SHAKER

- **Efficient Solid-Liquid Separation:** Effectively removes drill cuttings and coarse solids from drilling fluids, ensuring cleaner fluid for downstream processing.
- **Improved Drilling Performance:** Maintains drilling fluid properties, helping to enhance drilling efficiency and reduce operational issues.
- **High Screening Efficiency:** High vibration intensity and large screening area ensure effective and consistent separation.
- **Protection of Downstream Equipment:** Prevents abrasive solids from entering pumps and other equipment, reducing wear and extending service life.
- **Continuous & Reliable Operation:** Designed for continuous duty with stable performance under demanding drilling conditions.
- **Low Noise Operation:** Optimised vibration system reduces noise levels during operation.
- **Cost Reduction & Fluid Recovery:** Recovers reusable drilling fluid, reducing waste and lowering operational costs.



Working Principle

The Shale Shaker operates using a vibrating screening mechanism to separate solids from drilling fluid. Drilling fluid returning from the well is fed onto the vibrating screen deck. The vibration, generated by motors or eccentric mechanisms, causes the fluid to spread across the screen surface. Fine particles and liquid pass through the mesh openings, while larger solids are retained and conveyed towards the discharge end. Multiple screen decks with varying mesh sizes may be used to improve separation efficiency and classify particles by size. The separated solids are discharged for disposal, while the cleaned drilling fluid is collected and recirculated within the system.



Features

Standard Features

- Linear motion vibrating system for efficient solid-liquid separation
- High-performance vibration motors (OLI or equivalent) for strong excitation and low noise
- High-strength screen basket for stable and reliable operation
- Large screening area for improved processing capacity
- Multiple screen deck configuration for enhanced separation efficiency
- Adjustable screen box angle for optimised screening performance
- Shock absorber system to minimise vibration transfer to supporting structures
- Heat-treated shaker deck with anti-corrosion coating for extended service life
- Compatible with hookstrip and steel frame screens
- Quick screen replacement with fixed tensioning system
- Optimised feed distribution design for uniform flow and reduced screen impact
- Heavy-duty construction for continuous operation in harsh environments

Options & Accessories


- Linear, elliptical, or circular motion configurations
- Dual or triple shaker configurations for higher capacity
- Wide range of screen mesh sizes (typically 20–200 mesh)
- Adjustable vibration parameters for process optimisation
- Stainless steel construction or specialised protective coatings
- High G-force configuration for enhanced fine particle separation
- PLC control system and monitoring sensors

Specifications and Parameters

Model	AQT850-2K	AQT700-3G	AQT630-3K	AQT830-3G	AQT585-4K
Vibrating Mode	Linear Motion				
Motor Power	2× 1.5kW	2× 1.5kW	2× 1.5kW	2× 1.72kW	2× 1.72kW
Vibrating Strength	≤7.0G				
Amplitude	5~6mm				
Treating Capacity	80 m ³ /h 352GPM	110 m ³ /h 484GPM	120 m ³ /h 528GPM	130 m ³ /h 572GPM	130 m ³ /h 572GPM
Deck Adjustment	-1°~5°				
Electric Specs	380V/50HZ or 460V/60HZ or Customised				
EX Standards	Ex d II BT4				
Screen Qty	2 panel	3 panel	3 panel	3 panel	4 panel
Screen Specification	850× 1250mm40 ~ 200 mesh	700× 1050mm40 ~ 200 mesh	630× 1250mm40 ~ 200 mesh	830× 1080mm40 ~ 200 mesh	585× 1165mm40 ~ 200 mesh
Screen Area	2.12 m ²	2.2m ²	2.36m ²	2.7m ²	2.73 m ²
Screen Type	Steel Frame	Hook strip	Steel Frame	Hook strip	Steel Frame
Dimension	2260× 1860× 1380mm	2700× 1620× 1500mm	2510× 1720× 1500mm	3310× 1650× 1580mm	2900× 1700× 1500mm
Weight	1280kg	1580kg	1680kg	1750kg	1800kg
Remark	Specific gravity of mud treated by shale shaker is 1.2g/cm ³ , viscosity:45S, API 40				

WASTEWATER, CLEAN-GAS & ENVIRONMENTAL SOLUTIONS



 +61 (2) 40923110

 5 Moorak St
Taringa QLD 4068
Australia

 AQUIPTEC.COM.AU

 INFO@AQUIPTEC.COM.AU