Solids Control Systems and Products: Shakers

MONGOOSE PRO Shale Shaker



With the new generation MONGOOSE PRO dual-motion shale shaker, M-I SWACO has combined balanced and progressive elliptical motion technology for a shaker that adapts as drilling conditions change.

As drilling conditions change, the evolutionary MONGOOSE PRO dual-motion shaker can be adjusted while operating. Simply flipping a switch on the control box reconfigures the shaker from Capacity to Normal Mode.

Features

- Dual motion: 7.5 G capacity/ 6.5 G normal
- Single switch controls motion changes during operation
- Utilizes pre-tension composite screens
- Patented ultra-tight seal between screen and screen bed
- Largest net (API) screen area among shakers of similar footprint
- Increased screen visibility
- Can be aligned with up to four shakers
- Comparatively small footprint
- Patented high-capacity distribution box
- Heavy duty, reliable, mechanical deck adjustment system
- Corrosion resistant deck jacks
- Low weir height

Benefits

- Increases fluid capacity and solids conveyance rate when operating in capacity mode
- Maximizes fluid recovery and screen life when operating in normal mode
- Allows for continuous shaker operations when switching between motions
- Facilitates fast screen change out
- Eliminates costly solids bypass
- Promotes safer screen changes and inspections
- Minimizes maintenance costs
- Reduces dilution, chemical requirements
- Recovers valuable drilling fluid for reuse
- Reduces waste stream
- Lowers costs
- Improves environmental performance

Key features of the MONGOOSE PRO shale shaker



Increased access for inspection, installation, and removal



Two oilfield proven 2.5 HP motion generators





Deck angle can be adjusted while processing fluid. Adjustment Range is -3° to +3°



Largest non-blanked screen area among shakers of similar footprint: 21.2 ft 2 (1.97 m 2)

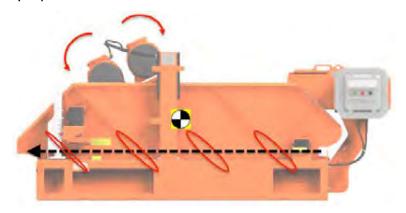


Patented ultra-tight seal between screen and screen bed

Motion comparisons for the MONGOOSE PRO shale shaker

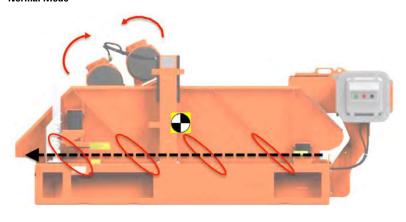
Comparison of motion

Capacity Mode



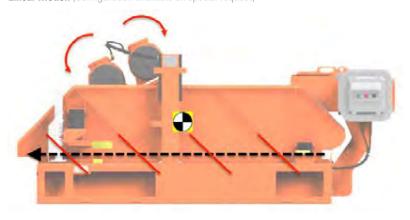
- Increases G-forces 7.5 Gs
- Speeds conveyance
- Increases shaker-fluid capacity
- Enables shaker to process heavier solids loads
- Enhances cuttings-processing volume

Normal Mode



- Reduces G-forces (6.5 Gs)
- Optimizes solids removal
- Maximizes drilling-fluid recovery
- Drier cuttings
- Extends screen life

Linear Motion (Configuration available on special request)



- Linear motion only (8 Gs)
- Applications where a linear single motion high G shaker is required

Technical specifications for the MONGOOSE PRO shale shaker

Basic MONGOOSE PRO shaker with header box specifications

Dimensions

- Length: 119.8 in (3,044 mm)
- Width: 68.9 in. (1,749 mm)
- Height at 0°: 52.4 in. (1,330 mm)
- Weir height: 29 in. (737 mm)
- Weight: 3,300 lb (1,500 kg)

Screen Deck and Screens

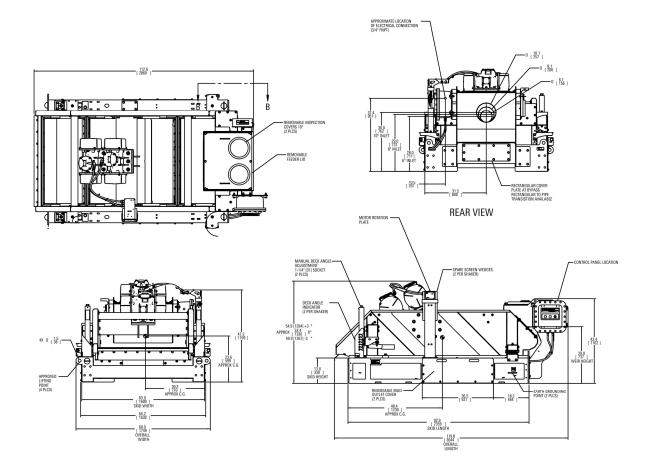
- Screen area:
 - Gross: 29.4 ft² (2.73 m²)
 - Net (API): 21.2 ft2 (2.0 m2)
- Deck-angle adjustment: +2° to +8°

Vibratory Motion Type

- Normal mode: 6.5G
- Capacity mode: 7.5G

Motor Specifications

- Voltage: 220-690 VAC
- Speed: 1800RPM/60Hz; 1500RPM/50Hz
- Certifications: UL/cUL, CE, ATEX rated



The MONGOOSE PRO is available in the following configurations.

- Low Profile skid for decreased weir height
- Compact

- Dual, Triple, or Quad shakers mounted on a single skid with a common feed and single lift point
- Mud cleaner using two or three 12"
 D-SANDER[†] cones and six, eight, or ten 4" D-SILTER[†] twin cones