

High-Rate Mixer

Efficient mixing of powder and liquid

APPLICATIONS

Land and offshore drilling

BENEFITS

- Reliable operation and long service life
- Better circulation and mixing results for controlled, fast mixing of liquids and dry materials
- Reduced maintenance requirements

FEATURES

- Simple footprint
- Air diffuser prevents fish eye formation
- Manually adjustable flow rates
- High powder mixing capacity and wide range of liquid flow rates
- Custom options available
- Robust construction
- Drop pipe adjustment to fit most mud pits

The high-rate mixer is one of the most established, simple, and reliable tools used in land and offshore drilling fluid systems. Our high-rate mixer is designed to deliver fast, efficient mixing of powder and liquid in mud pits. A static mixer in the upper part of the drop pipe provides improved circulation and mixing results during the high-rate mixing process. A perforated outlet in the lower part of the drop pipe acts as an air diffuser, diluting incoming air from the pneumatic feeding system to prevent any large dust bubbles from reaching the mud pit surface. The drop pipe is sectioned and has a removable nozzle, which is used to manually adjust flow rate.

The mixer features a small footprint that can be easily modified for installation in a mud pit of any size. Maintenance requirements are reduced through utilization of high-quality components and reduction of moving parts.



Specifications

Area classification	Safe zone
Mixer dimensions	31.5 ft × 12 ft × 11 ft [9.6 m × 3.6 m × 3.4 m]
Dry weight (depends on pipe length)	270 kg [595 lbm]
Mixing capacity (dry)	2,100 ft ³ /h [60 m ³ /h]
Flow rate (liquid)	660 to 1,320 galUS/min [150 to 300 m ³ /h]
Construction	Carbon steel and aluminium bronze [Ni-Al-Bz]
Installation	Fixed

Scope of Supply

High-rate mixer unit
Customized length per project requirements
Galvanizing
Standard project documentation
Additional certification (Third party, zone I and II)
NORSOK documentation