

Mud Hopper



Our high performance mud mixing hopper is designed for the efficient mixing of powder/granulate mud additives into the drilling mud.

The mud hopper uses the venturi suction effect to mix powder into the mud. The full sized opening of the dry powder inlet into the mixing chamber eliminates the risk of clogging and build-up of material.

Powder from the sack cutting unit, surge tank or big bag is fed directly into the mud hopper, thus preventing dust emission to the environment. The manual feeder is possible via the inspection hatch.

Superior wear resistant polyurethane ensures a long life of the nozzle and diffusor. External access to the nozzles allows for easy inspection and replacement via a removable spool. There is no need for disrupting the mud mixer or rig piping, which further reduces maintenance time.

The mud hopper can be supplied in either manual or automatic versions according to your project requirements. The automatic version is equipped with overflow and backflow prevention. A level switch, located in the hopper halts dosing of powder when at maximum level. Pressure transmitters (supplied as loose items) close the dry powder inlet valve when delta pressure falls.

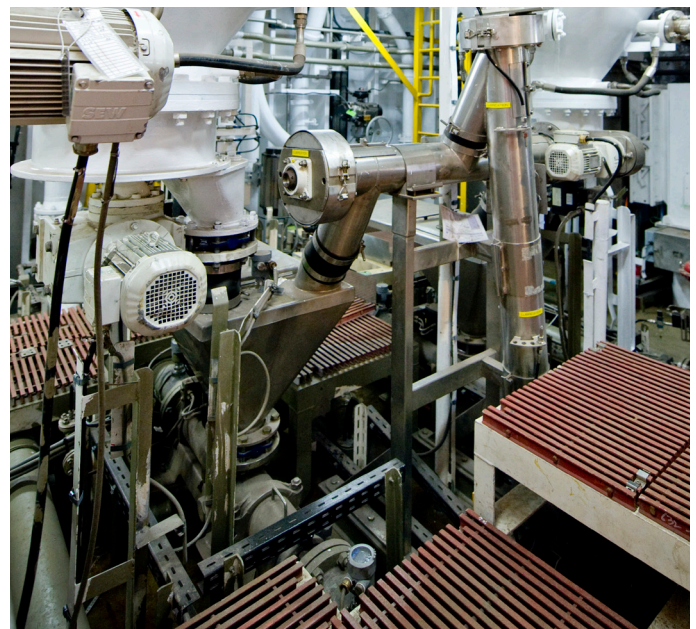
The rugged design, in stainless steel, (AISI 316) allows for the use of the mud hopper for harsh offshore environments. Our mud hopper meets all relevant offshore health, safety, security and environment requirements, such as HSE Offshore COSHH OCE8, OSHA 1910.212 and NORSOK D001.

Additional Options

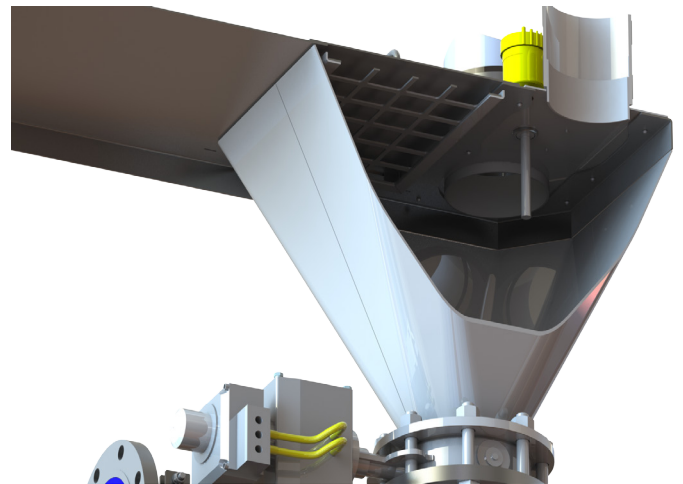
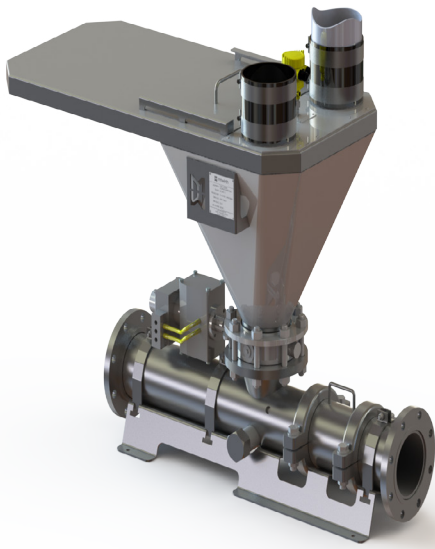
- Differential pressure sensors
- Level switch
- Automated valve (included in auto variant)

Benefits

- Overflow and back flow system to prevent spillage
- Easy replacement/inspection of nozzle in less than one hour
- Manual and automatic versions according to project requirements
- Fully enclosed system, preventing dust emission
- Increased wetting of material resulting in less generated waste
- Full dry powder opening into mixing chamber to avoid material built-up



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Technical Specifications

Powder capacity, max. (barite)	990 ft ³ /hr @ 1 000 gpm (28 m ³ /hr @ 227 m ³ /hr) 2 100 lb/h (61 m.tons/h)
Flow requirements (recommended)	1 000 gpm (227 m ³ /hr)
Liquid pressure – with 2 in nozzle	161 ftlc (49 mlc)
Liquid pressure - with 2 ¼ in nozzle	69 ftlc (21 mlc)
Pressure recovery across venturi mixer	40 – 50 %
Design temperature	+14 to +122 °F (-10 to +50 °C)
Hazardous area classification (according to IEC 60079-10-1)	Non-hazardous area Optional: zone 1, zone 2
EX certification type	Optional: ATEX, IECEx
Interface data	6 in 150 lb, ASME B16.5
Weight	396 lbs (180 kg)

Data is subject to confirmation by the manufacturer.