

Mixing Hoppers

HMH's high performance mud mixing hoppers ensure efficient mixing of powder granulate and mud additives into the drilling mud.

Product description

Our mud hoppers can be supplied in automatic versions or fully manual. Our standard mud hoppers are equipped with level switch and two pressure transmitters providing overflow and back flow protection. When the differential pressure drops under a set point, the inlet valve of dry powder is closed automatically.

If your project requires intermediate use of additives, we can also provide a manual unit including a table and a dust extraction hood for dust free operation.

Our mud hoppers use 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.

Benefits

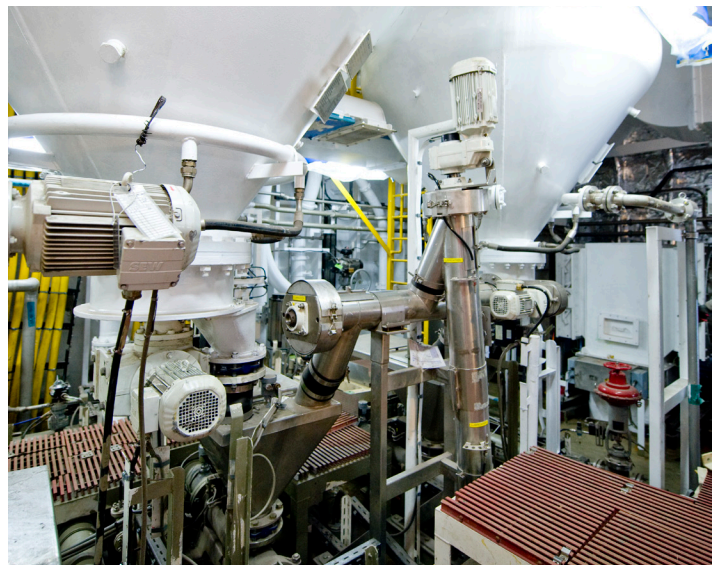
- Overfill and back flow protection to prevent spillage
- Easy replacement/inspection of nozzle in less than one hour for high maintenance-friendliness
- Fully enclosed system, preventing dust emission
- Increased wetting of material resulting in less generated waste
- Full dry powder opening into mixing chamber to avoid material built-up

Key features

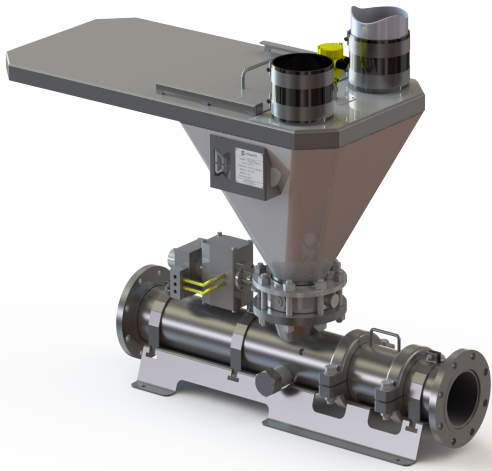
Powder from machines as the sack cutting unit, surge or big bag unit is fed directly into the mud hopper, thus preventing dust emission to the environment. Manual feeding is possible via the inspection hatch.

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.

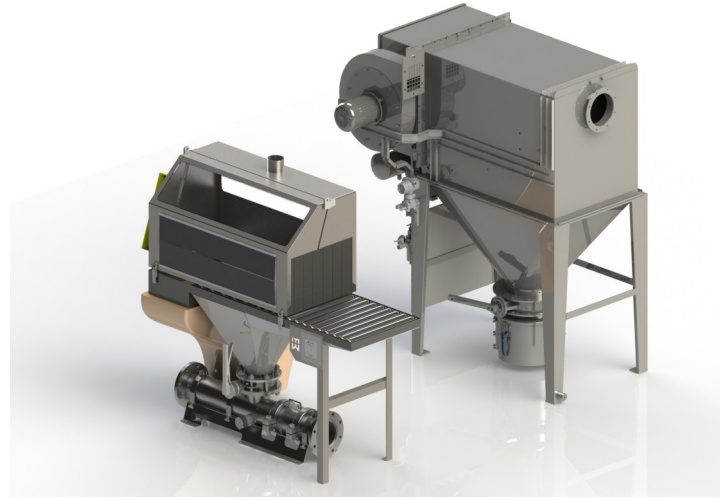
The rugged design, in stainless steel, (AISI 316) allows for the use of the mud hopper for harsh environments. Our mud hopper meets all relevant offshore/onshore health, safety, security and environment requirements, such as HSE Offshore COSHH OCE8, OSHA 1910.212, NORSOK D001 and Machine Directive EN60204.



Mixing Hopper



Manual sack handling



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)
Hazardous area classification (according to IEC 60079-10-1)	Non-hazardous area Optional: zone 1, zone 2

Note - Other process specifications can be delivered according to customer requirements.

Data is subject to confirmation by the manufacturer.