

SCM-SLURRIFICATION SYSTEM



The Slurrification systems have been successfully utilized for the transportation and disposal of drilling waste since the late 1980's. It has multi-tasking capabilities along with additional features that offer a more efficient method of meeting slurrification requirements.

CONCEPT

The Slurrification System consists of two main components: a feed system and the slurrification skid. The feed system typically consists of a screw conveyor or venturi system, although pneumatic systems can also be utilized.

The drilling waste is fed into the first of two slurry tanks which are filled with a predetermined volume of dilution water. Through a combination of mix tank agitators, shear nozzles and specially modified centrifugal pumps the solids are sheared creating a pumpable slurry. Where required, e.g. injection, the slurry can be passed through an optional classification and/or grinding system to ensure particle size distribution requirements are met.

The second slurry tank is used as a holding or a process tank and is normally identical in specification to the first.

Both slurry tanks come with centrifugal pumps which are fitted with mechanical seals and modified hard-faced impellers.

The whole system can be fitted with an optional semi-automatic PLC system to minimize personnel intervention.

APPLICATION

The Slurrification System is used for preparing drilling waste for sub-surface injection or dispersal to the seabed. It can also be used for slurry transfer as part of a bulk handling system.

FEATURES & BENEFITS

- Capacity – the Slurrification System can process up to 25 metric tons of drill cuttings per hour with a slurry transfer rate of 200 – 600 US gpm
- Versatile – the piping has been designed to enable each pump to take suction and discharge into both tanks
- Solid construction – the centrifugal pump impeller blades are hard-faced with tungsten carbide to extend lifespan
- Redundancy – the manifolding of the two main grinding pumps have been designed in such a way that the system will continue to operate fully in the event that one of the grinding pumps or one of the mix tank agitators require maintenance or repair
- Line blockage – Rodding / Jetting lines are included in case of line blockage
- Twin tanks – increases system redundancy
- Venturi System – more cost-effective solution than screw conveyors
- Downtime – whenever possible, the failure of critical components is minimized through duplication or addition of low maintenance options

TREATMENT AND DISPOSAL



Slurrification system and optional classification shaker



SPECIFICATIONS

General	
Model	SCM-Slurrification System
Tank volume	2 x 70 bbls
Capacity	25 Metric Tons/hr (55,116 lbs/hr)
Slurry Transfer	200-600 gpm
Dimensions	
Length	197" (5,000 mm)
Width	144" (3,650 mm)
Height	155" (3,925 mm)
Net Weight*	18,000 lbs (8,165 kg)
Gross Weight**	76,000 lbs (34,470 kg)

* Shipping Weight (dry weight excluding shaker)

** Max Operating Weight excluding shaker (1.3 sg slurry)

Utility Requirements	
ELECTRICAL	
Voltage	380 / 460 / 600
VAC Phase	3 Phase
Frequency	50 / 60 Hz
Power	315 hp (234 kW)
Instrument Air	80-100 psi
Water Rate	15 bpm (630 gpm)
Classification	
Shale Shaker	SCM-PrimaG 3P
Screen Sizing	API 40 – API 265
Options	
<ul style="list-style-type: none"> • Grinding System where required. • Available in 40-bbls, 50-bbls, or 70-bbls configurations. • Automated PLC control system and instrumentation package. • A single or three-tank system available depending on drilling or process requirements. 	