








MODULAR MUD PROCESSING SYSTEM

An important design criteria for the modular mud processing system is adaptation to space and weight limitations.

-  Maximum modular shipping lifts of 12,000 kg
-  Road transportable, without need for special arrangements
-  Designed for oil based mud handling/containment
-  Suitable for long service in offshore environment and frequent contact with relevant fluids
-  Suitable for fluid weights up to 2.2 SG
-  Mud volume monitoring system
-  Modular units allow for simple on site construction and commissioning

MUD TREATMENT SYSTEM SPECIFICATION

FLOW DIVIDER

Area classification:	Zone I
Type:	Pneumatic
Capacity (total):	2 x 600 gpm
Valve type:	Weir gate
Control:	Local via Shaker's LCP

SHALE SHAKER

Area classification:	Zone I
Control:	Local Push Button Panel
Local control panel (start):	Ex-rated
Vibratory motion type:	Elliptical
Drive system:	Electrical motor, belt drive
Angle of motion:	Fixed
Screen configuration:	Triple Deck
Screen type:	Pre-tensioned composite
Screen clamping:	Pneumatic
Motor type:	2 ea. vibrator-type motors (5.5 kW each)
HVAC:	Hood included for each shaker

CUTTINGS SCREW CONVEYOR

Area classification:	Zone I
Type:	U-type
Capacity:	Up to 20 ton/h
Length:	5,810 mm
System drive:	9 kW electric, 480V 3ph. 60Hz
Speed:	Max 40 rpm / min
Qty of discharge outlets:	2
Outlets control:	TBC
Control:	Local via LCP and remote via MCS

CENTRIFUGAL DEGASSER

Control:	Local via Local Push Button Panel
Monitoring:	Local via Local Push Button Panel
Capacity:	1,200 gpm each
Main motor:	25 kW
Blower motor:	1.1 kW
Mud gas inlet:	21"
Gas discharge outlet:	1 - 1/4"
Mud discharge outlet:	6"

MUD GAS SEPARATOR

Area Classification:	Zone I
Type:	Mud Gas Separator
Height:	4,011 mm
Weight:	2,700 kg
Inlet:	6"
Secondary "hot" mud inlet:	4"
Outlet mud:	10"
Ventline:	10"
Manhole:	16"
Sensor ports:	2" x 3
Capacity:	3,785 l/min
Pressure:	150 psi
Control:	2 Pressure Indicators 1 Temperature Sensor
Service:	H2S Sour Gas

MUD MIXING UNIT

Area Classification:	Safe
System Control:	Local / Remote (option)
System Drive:	Mud
Skid Weight:	250 kg
Mud Mixer Type:	Venturi-type mixer
Powder mixing capacity:	35 m ³ /h
Liquid flow:	150 – 300 m ³ /h
Installation type:	Fixed

LOW PRESSURE MUD SYSTEM

The Low Pressure Mud System comprises the following main equipment:

- o Skid-mounted centrifugal electric pumps
- o Tank washing machines with pumps
- o Agitator package

MUD CHARGE PUMP

Quantity:	2
Pump Type:	6x5x14 (11" impeller)
TDH:	35 meter
Capacity:	227 m ³ /h
Mud Weight:	2.2 SG
Viscosity:	0 - 100 Cp
Voltage Rating:	480 V, 60 Hz
Motor Type:	90 kW (1,775 rpm)
Protection Class:	IP56

MODULAR MUD PROCESSING SYSTEM

The Modular Drilling Rig (MDR) Mud Process System is engineered for:

- Modular shipping lifts to be 12,000 kg
- Road transportable
- Suitable for long service in on and offshore environments
- Designed for oil based mud handling/ containment
- Suitable for fluid weights up to 2.2 SG
- Includes mud volume monitoring system.
- Electrical connections to be plug and play in nature.
- Modular nature to allow simple on site construction and commissioning, as well as simple dismantling and relocation.

Volume and Configuration of the Tanks for the Modular Mud Processing System. The total volume of the system is 206 m³, distributed as follows:

Reserve Tank #1:	40 m ³
Reserve Tank #2:	40 m ³
Mix & Storage Tank:	40 m ³
Active & Slug Tank:	40 m ³ (30 m ³ slug / 10 m ³ active)
Shaker & Degasser Tank:	40 m ³ (25 m ³ shaker / 15 m ³ degasser)
Trip Tank Skid:	6 m ³

Additional capacity can be added as required.

CONTACT US

Our main office is located in Ålesund, on the west coast of Norway. Feel free to contact us if you have any questions.

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