

BRANDT™ Rapid Mud Tank System

Mud tank systems are a critical component of any drilling operation for maximizing solids control efficiency and effectiveness. The Rapid Mud Tank System is a two-tank unit with a total active capacity of 620 barrels (total capacity of 800 barrels). The system comes complete with all the essential solids control equipment necessary for successful operations. Additionally, optional solids control configurations are available to suit the needs of specific applications.



STANDARD SOLIDS CONTROL CONFIGURATION

- (2) Mini COBRA™ 3-Panel shale shakers
- (1) DG-ATM atmospheric degasser
- (1) 6 in mud hopper
- (7) 10-hp MX-MA agitators; shafts and impellers included
- (1) Caustic barrel
- (1) Wash station
- (1) 2-cone desander (10-in cones)
- (1) 3-in, high-pressure mud gun
- (1) 8 in x 6 in x 11 in (100 hp) Mission Vertical Magnum centrifugal pump
- (4) 6 in x 5 in x 14 in (60 hp) Mission Vertical Magnum centrifugal pumps

FEATURES	BENEFITS
Equipment removal is not required for transport	Allows for quick and easy mobilization and demobilization
Vertical, direct-driven centrifugal pumps	Minimizes the footprint required by the pumps
Centrifugal pumps and control manifold installed on a pump porch	Provides easy access for controlling processes
Each centrifugal pump is located in close proximity to a specific piece of equipment	Allows for shorter piping runs with less friction • Maximizes horsepower and hydraulic efficiency
Caustic barrel telescopes that remain on tank during transportation	Allows for quick and easy mobilization and demobilization and also provides a safe way to add caustic to the mud system
Total active (operating) capacity of the two-tank system is 620 bbls (total capacity of 800 barrels)	Provides a volume that is usually achieved with a larger, two-tank system, thus providing transportation cost savings
VORTEX™ breakers at each suction	Prevent cavitation of centrifugal pumps
Minimal piping inside tanks	Allows for proper agitation, thus improving homogenization of the mud
Integrated cement and active bypass	Prevents equipment contamination
Sloped sand trap with integrated mud gun	Facilitates quick, easy and thorough cleaning
Complete system can be transported with only two trucks	Permits quick rig-up and reduces transportation costs
Electrical cable trays	Eliminate cable sag
Collapsible handrails	Provides quick and easy rig-up, rig-down and transportation
Mud level sensors (optional)	Provide well control; reduce contamination of the drill site
Hammerseal piping connections	Facilitate quick and easy rig-up and rig-down, while guaranteeing proper alignment
Fold-down crossover walks between tanks	Facilitate quick and easy rig-up and rig-down, while eliminating the need for a crane lift
Easy-access tank compartments	Provide quick and easy access to tank compartments for maintenance, inspections, etc.

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Solids Control Equipment



Side View

OPTIONAL SOLIDS CONTROL CONFIGURATION (A)

- (1) DG-10 or (1) DG-5 vacuum degasser
- (1) 16-cone desilter (4-in cones)

OPTIONAL SOLIDS CONTROL CONFIGURATION (B)

- Cuttings dryer module
 - (1) Mini COBRA 3-Panel shale shaker
 - (1) Self-contained settling tank

ADDITIONAL STANDARD FEATURES OF THE RAPID MUD TANK SYSTEM

- Electrical cable trays
- Shaker slides
- Dump gates
- Serrated, galvanized grating
- Quick-disconnect equipment connections
- Folding handrails for transport
- Hammerseals for crossover connections
- Hammerseals for bottom equalizer crossover
- Winch for rotating equalizer
- Electrical light poles
- Easy-access tank compartments
- Two-coat paint system with inner tank liner

Specifications and Dimensions

GENERAL		
Equipment type	Two-tank, Rapid Mud Tank System	
Total tank system volume (Trip tank volume not included)	620 bbl (at 12 in below mud rim)	
Pill (slug) tank volume	73 bbl	
Maximum mud weight	18 lb/gal	
Process capacity (nominal)	1000 gal/min	
Degasser capacity (nominal)	700 gal/min	
Flowline	10-in manifold with cement and active bypass	
ELECTRICAL	60 Hz	50 Hz
Total required horsepower	615	615
Voltage	230/460 VAC	190/380 VAC
Phase	3	3
Ambient temperature	40°C (104°F)	40°C (104°F)
DIMENSIONS AND WEIGHTS	L x W x H	WEIGHT
Shaker Tank	52 ft 9 in x 9 ft 10 in x 5 ft	67904 lb
Suction Tank	46 ft ¾ in x 9 ft 10 in x 5 ft	69081 lb