

BRANDT™ Ideal Mud Tank System



Front View



Rear View

Mud tank systems are a critical component of any drilling operation for maximizing solids control efficiency and effectiveness. The Ideal Mud Tank System is a two-tank unit with a total active (operating) capacity of 1318 barrels (total/nominal capacity of 1500 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) KING COBRA™ shale shakers
- (1) DG-10 vacuum degasser
- (1) 6 in LP mud hopper
- (7) 10-hp MA RG C agitators; shafts and impellers included
- (1) Caustic barrel
- (1) Wash station
- (1) 3-cone desander (10-in cones)
- (1) 20-cone desilter (4-in cones)
- (1) 3-in, high-pressure mud gun (inside sand trap)
- (2) 8 in x 6 in x 11 in (100 hp) Mission Vertical Magnum centrifugal pumps
- (2) 6 in x 5 in x 14 in (75 hp) Mission Vertical Magnum centrifugal pumps
- (3) 6 in x 5 in x 14 in (60 hp) Mission Vertical Magnum centrifugal pumps

FEATURES	BENEFITS
Removable shaker skids	Quick and easy mobilization and demobilization
Processing equipment mounted on separate, removable skid	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	Easy access for controlling processes
Each centrifugal pump is located in close proximity to a specific piece of equipment	Provides shorter piping runs with less friction • Maximizes horsepower and hydraulic efficiency
Caustic barrel telescopes that remain on tank during transportation	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 - 1318 bbl (total capacity of 1500 barrels)	Volume that is usually achieved with a three-tank system, thus providing transportation cost savings
VORTEX™ breakers at each suction	Prevents cavitation of centrifugal pumps
Minimal piping inside tanks	Proper agitation, 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 four trucks	Quick rig-up and reduced transportation costs
30 in distance between shakers (competitions' standard is 24 in)	Easy access to shakers for maintenance, screen changes, etc.
Electrical cable trays	Eliminates cable sag
Collapsible handrails	Quick and easy rig-up, rig-down and transportation
Mud level sensors (optional)	Provides well control; reduces contamination of the drill site
Hammerseal piping connections	Quick and easy rig-up and rig-down, while guaranteeing proper alignment and positive sealing
Fold-down crossover walks between tanks	Quick and easy rig-up and rig-down, while eliminating the need for a crane lift
Easy-access tank compartments	Quick and easy access to tank compartments for maintenance, inspections, etc.

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Side View



Mud Mixing Station



Equipment Skid



Pump Porch

OPTIONAL SOLIDS CONTROL CONFIGURATION (A)

- (1) KING COBRA VENOM™ shaker
- (1) KING COBRA 24/3 mud conditioner
 - (24) 4-in desilter cones
 - (3) 12-in desander cones

OPTIONAL SOLIDS CONTROL CONFIGURATION (B)

- Cuttings dryer module
 - (2) KING COBRA shale shakers
 - (1) Self-contained settling tank

ADDITIONAL STANDARD FEATURES OF THE IDEAL 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, Ideal Mud Tank System	
Total active capacity (Trip tank volume not included)	1318 bbl (at 12 in below mud rim)	
Pill (slug) tank volume	109 bbl	
Batch mix tank volume	125.5 bbl	
Sand trap volume	115.2 bbl	
Maximum mud weight	18 lb/gal	
Process capacity (nominal)	1500 gal/min	
Degasser capacity (nominal)	1000 gal/min	
Flowline	12-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	55 ft x 12 ft x 8 ft 6 in	70000 lb
Suction Tank	55 ft x 12 ft x 8 ft 6 in	70000 lb
Shaker Assembly Skid 1	20 ft x 11 ft 10 in x 1 ft	13000 lb
Shaker Assembly Skid 2	20 ft x 9 ft 7 in x 1 ft	10000 lb
Equipment Skid	27 ft 6 in x 8 ft x 2 ft	14000 lb