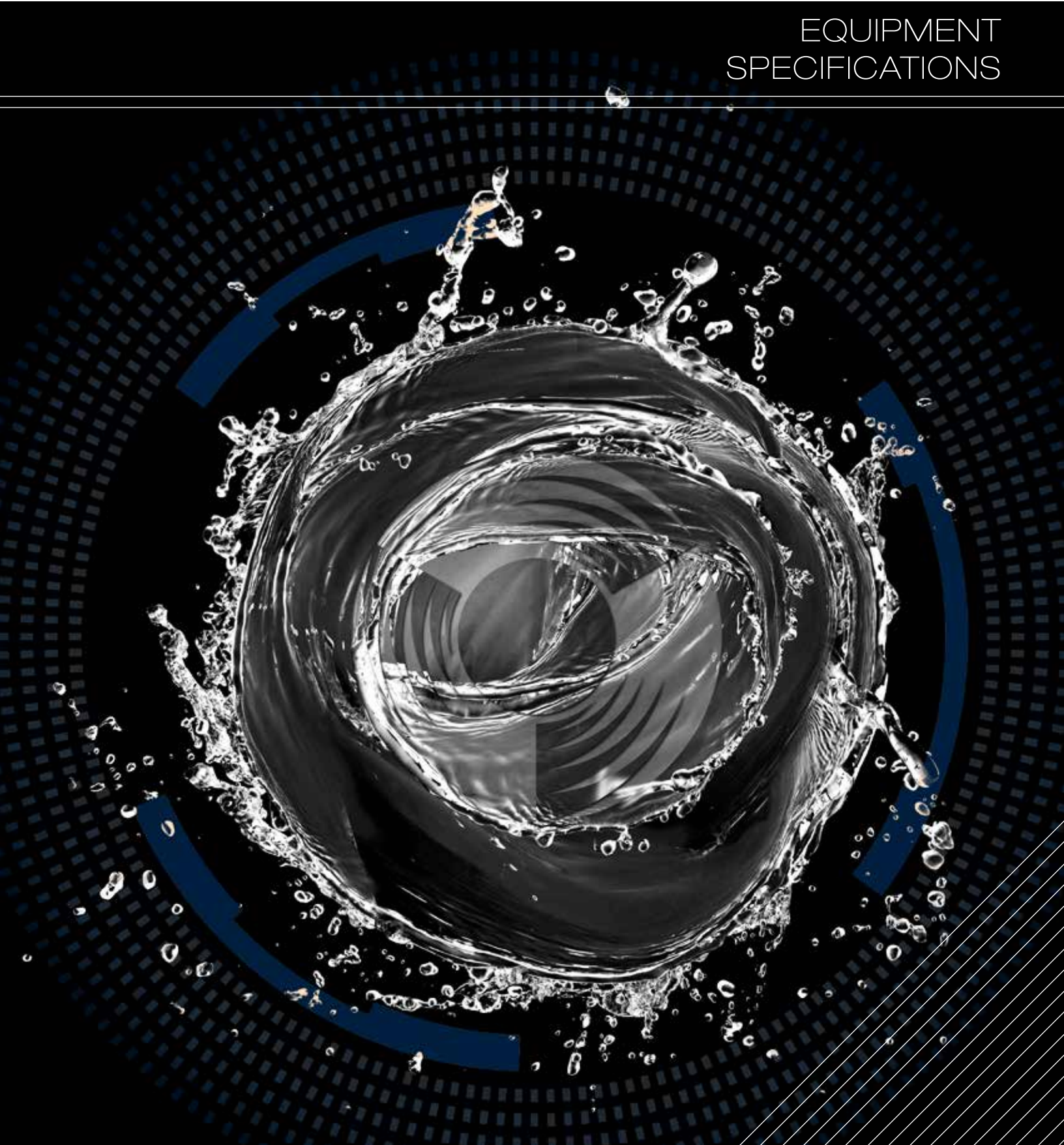


EQUIPMENT
SPECIFICATIONS





BOS III - CLOSED LOOP DRILL FLUID & DRILL SOLIDS MANAGEMENT SYSTEM

| ADVANTAGES | WATER BASED APPLICATIONS | OIL BASED APPLICATIONS |
|--|--|---|
| <ul style="list-style-type: none"> • Eliminates the need for reserve pits • Easily adapts to manage a wide variety of fluid types and process requirements • Single load transportation for most applications • Minimal footprint, fast rig up, easily adapted to drill rig configurations • Hydraulic, dual centrifuge platform, heated pump house and safe stair system to eliminate the need for fall protection • Multi-cell, high volume tank provides flexibility in fluid management • Ability to isolate up to 9 cells to maintain a variety of drilling fluids or limit desired surface volume • No crane or picker required on rig moves | <ul style="list-style-type: none"> • Highly efficient clear water drilling and dewatering system • Integrated dual variable speed polymer/chemical injection system and patented process maximizes process rate and minimizes chemical consumption • Optimizes drill fluid volume requirements and minimizes fluid and chemical waste • Easily adaptable to flocculation, air section dewatering, spent mud dewatering and barite recovery | <ul style="list-style-type: none"> • Easily converts from water based to oil based drill fluid applications • Efficient process for simultaneously drying drill cuttings, barite recovery while maintaining accurate management of fluid density and low gravity solids • Drill cuttings processing requires minimal equipment addition of a slurry tank, transfer pump and cuttings sizing unit |

| SPECIFICATIONS | SHIPPING DIMENSIONS L X W X H | SHIPPING WEIGHT | | |
|--|--|--|--|--|
| <ul style="list-style-type: none"> • 1 - 216 bbl (34.3 M³) 9 Cell flocculation tank • 2 - 15 bbl (2.4 M³) Polymer injection tanks • Enclosed and heated pump room housing centrifuge feed pumps and polymer injection pumps | 41' 3" x 12' 6" x 11' 6" 12.6 m x 3.8 m x 3.5 m | BOS III Tank only 34,000 lb 15,422 kg | BOS 20 Centrifuge A 6,000 lb A 2,722 kg D 7,500 lb D 3,402 kg | BOS 40 Centrifuge A 12,000 lb A 5,443 kg T 10,500 lb T 4,763 kg |
| | WORKING DIMENSIONS L X W X H | | | |
| | 44' 3" x 12' 6" x 18' 13.6 m x 3.8 m x 5.5 m | | | |



BOS IV - CLOSED LOOP DRILL FLUID & DRILL SOLIDS MANAGEMENT SYSTEM

| ADVANTAGES | WATER BASED APPLICATIONS | OIL BASED APPLICATIONS |
|---|---|---|
| <ul style="list-style-type: none"> • Eliminates the need for reserve pits • Easily adapts to manage a wide variety of fluid types and process requirements • Single load transportation for most applications • Minimal footprint, fast rig up, easily adapted to drill rig configurations • Hydraulic, dual centrifuge platform and safe stair system to eliminate the need for fall protection • 3 Cell, high volume tank provides flexibility in fluid management. • No crane or picker required on rig moves | <ul style="list-style-type: none"> • Highly efficient clear water drilling and dewatering system • Integrated dual variable speed polymer/chemical injection system maximizes process rate and minimizes chemical consumption • Optimizes drill fluid volume requirements and minimizes fluid and chemical waste • Easily adaptable to flocculation, air section dewatering, spent mud dewatering and barite recovery | <ul style="list-style-type: none"> • Easily converts from water based to oil based drill fluid applications • Efficient process for simultaneously drying drill cuttings, barite recovery while maintaining accurate management of fluid density and low gravity solids • Drill cuttings processing requires minimal equipment addition of a slurry tank, transfer pump and cuttings sizing unit |

| SPECIFICATIONS | SHIPPING DIMENSIONS L X W X H | SHIPPING WEIGHT | | |
|--|---|---|--|---|
| <ul style="list-style-type: none"> • 1 - 216 bbl (34.3 m³) 3 Cell flocculation tank • 2 - 20 bbl (3.2 m³) Polymer injection tanks • Easy access, pump area containing centrifuge feed pumps and polymer injection pumps | 42' 3" x 12' 6" x 9' 4" 12.9 m x 3.8 m x 2.9 m | BOS IV Tank only 33,000 lb 14,969 kg | BOS 20 Centrifuge A 6,000 lb A 2,722 kg D 7,500 lb D 3,402 kg | BOS 40 Centrifuge A 12,000 lb A 5,443 kg T 10,500 lb T 4,763kg |
| | WORKING DIMENSIONS L X W X H | | | |
| | 47' 3" x 12' 6" x 17'1" 14.4 m x 3.8 m x 5.2 m | | | |



BOS INVERT MANAGEMENT SYSTEM

| ADVANTAGES | WATER BASED APPLICATIONS | OIL BASED APPLICATIONS |
|---|--|---|
| <ul style="list-style-type: none"> Minimal footprint, fast rig up, easily adapted to drill rig configurations Safety stair and railing system eliminates the need for fall protection | <ul style="list-style-type: none"> Efficient process for barite recovery, while maintaining accurate management of fluid density Can be used in conjunction with additional dewatering equipment | <ul style="list-style-type: none"> Efficient process for simultaneously drying drill cuttings, barite recovery while maintaining accurate management Drill cuttings processing requires minimal equipment addition of a slurry tank, transfer pump and cuttings sizing unit |

| DESCRIPTION | SHIPPING DIMENSIONS L X W X H | WORKING DIMENSIONS L X W X H | SHIPPING WEIGHT |
|---|---|--|------------------------|
| <ul style="list-style-type: none"> 1 - 17 bbl (2.75 m³) Fluid recovery tank | 31'6" x 12'6" x 12' 6" 9.6 m x 3.8 m x 3.8 m | 35'6" x 15'6" x 19.'5" 10.9 m x 4.8 m x 5.9 m | 17, 650 lb 8,010 kg |



BOS HYDRAULIC CENTRIFUGE STAND

| ADVANTAGES | WATER BASED APPLICATIONS | OIL BASED APPLICATIONS |
|---|--|---|
| <ul style="list-style-type: none"> Minimal footprint, fast rig up, easily adapted to drill rig configurations Hydraulic, dual centrifuge platform and safe stair system to eliminate the need for fall protection No crane or picker required on rig moves | <ul style="list-style-type: none"> Efficient process for barite recovery, while maintaining accurate management of fluid density Can be used in conjunction with additional dewatering equipment | <ul style="list-style-type: none"> Efficient process for simultaneously drying drill cuttings, barite recovery while maintaining accurate management Drill cuttings processing requires minimal equipment addition of a slurry tank, transfer pump and cuttings sizing unit |

| DESCRIPTION | SHIPPING DIMENSIONS L X W X H | WORKING DIMENSIONS L X W X H | SHIPPING WEIGHT |
|---|---|---|-----------------------|
| <ul style="list-style-type: none"> 1 - 17 bbl (2.75 m³) Fluid recovery tank | 21'10" x 12'6" x 9' 6" 6.7 m x 3.8 m x 2.9 m | 20' x 12'6" x 15' 6" 6 m x 3.8 m x 4.7 m | 21,500 lb 9,752 kg |



BOS CENTRIFUGES

| | DESCRIPTION | DIMENSIONS L X W X H | SHIPPING WEIGHT |
|---------------------------------------|--|---|-------------------------------|
| BOS 20 A Series D Series | <ul style="list-style-type: none"> Hydraulic capacity - 265 gpm (1000 lpm) Solids rate removal per hour - 5.5 ton (5 tonne) Variable speed main drive, back drive & pump Bowl length & diameter - 56" x 14" (1422 mm x 355 mm) (A) back drive 15 hp (D) back drive 20 hp Main drive 50 hp 3" 10 Hp pump Power required 1 - 480v, 100amp, 3w4p | (A) 13' x 4'6" x 5' (A) 4 m x 1.4 m x 1.5 m | (A) 6,000 lb (A) 2,722 kg |
| | | (D) 14'6" x 4'10" x 4'3" (D) 4.4 m x 1.5 m x 1.3 m | (D) 7,500 lb (D) 3,402 kg |
| BOS 40 L Series T Series | <ul style="list-style-type: none"> Hydraulic capacity - 440 gpm (1665 lpm) Solids rate removal per hour - 12 ton (10.9 tonne) Variable speed main drive, back drive & pump Bowl length & diameter - 80" x 19" (2032 mm x 483 mm) Back drive 20 hp Main drive 125 hp 4" 20 Hp pump Power required 2 - 480v, 100amp, 3w4p | (L) 16' x 4' x 4'11" (L) 4.9 m x 1.2 m x 1.5 m | (L) 12,000 lb (L) 5,443 kg |
| | | (T) 15'2" x 3'9" x 4'8" (T) 4.6 m x 1.1 m x 1.4 m | (T) 10,500 lb (T) 4,763 kg |
| BOS 60 | <ul style="list-style-type: none"> Hydraulic capacity - 705 gpm (2670 lpm) Solids rate removal per hour - 17 ton (15.4 tonne) Variable speed main drive, back drive & pump Bowl length & diameter - 96" x 22.6" (2438 mm x 574 mm) Back drive 30 hp Main drive 150 hp Pump 4" 20 hp Power required 2 - 480v, 100amp, 3w4p | 17' x 4'3" x 5' 5.2 m x 1.3 m x 1.5 m | 14,500 lb 6,577 kg |

Process rates based on fresh water.



DRYING SHAKER

| DESCRIPTION | | SHIPPING DIMENSIONS L X W X H | WORKING DIMENSIONS L X W X H | SHIPPING WEIGHT |
|---|---|--|--|----------------------|
| <ul style="list-style-type: none"> All the features of the <i>Derrick Flo-Line Cleaner®</i> 503/504 shale shaker <p>Recovers drilling fluid from cuttings</p> | FLC 503 Drying shaker (no underflow hopper) | 8'10" x 6'2" x 5'6" 2.7 m x 1.9 m x 1.7 m | 8'5" x 5'8" x 5'6" 2.6 m x 1.7 m x 1.7 m | 3,400 lb 1,542 kg |
| | FLC 504 Drying shaker (no underflow hopper) | 11'4" x 6'2" x 6'6" 3.5 m x 1.9 m x 2.0 m | 10'9" x 5'8" x 6'3" 3.3 m x 1.7 m x 1.9 m | 3,750 lb 1,701 kg |

SHALE SHAKER

| DESCRIPTION | | SHIPPING DIMENSIONS L X W X H | WORKING DIMENSIONS L X W X H | SHIPPING WEIGHT |
|--|------------------------------------|---|---|----------------------|
| <ul style="list-style-type: none"> <i>Derrick Flo-Line Cleaner®</i> 503/504 shale shaker Low dilution, disposal & operating costs Drier cuttings discharge Linear motion <i>Derrick Super G®</i> vibrating motors mechanical deck angle adjustment Low weir feeder option | FLC 503 Shale shaker (weir feeder) | 10'2" x 5'10" x 6'5" 3.1 m x 1.8 m x 2.0 m | 9'10" x 5'5" x 6'3" 3.0 m x 1.6 m x 1.9 m | 3,950 lb 1,792 kg |
| | FLC 504 Shale shaker (weir feeder) | 12'6" x 5'10" x 7'2" 3.8 m x 1.8 m x 2.2 m | 12'2" x 5'5" x 6'11" 3.7 m x 1.6 m x 2.1 m | 4,400 lb 1,996 kg |
| | FLC 513 Shale shaker (weir feeder) | 10'2" x 6'8" x 5'10" 3.1 m x 2.0 m x 1.8 m | 9'11" x 6'0" x 5'8" 3.0 m x 1.8 m x 1.7 m | 4,800 lb 2,177 kg |

Derrick, Flo-Line Cleaner, and Super G are registered trademarks of Derrick Corporation, Buffalo, New York.



PREMIX TANK - HIGH DENSITY (PM500HD)

| DESCRIPTION | DIMENSIONS L X W X H |
|---|--|
| <ul style="list-style-type: none"> • 500 bbl (79.5 m³) 2 Compartment tank • 100 hp 6" (152 mm) Krebs millMax™ mixing pump (capable of pumping fluid of 40% solids content) • Mi-Swaco HIRIDE Hopper™ • 14 - Adjustable mixing guns • 2 - Variable frequency drive high speed vortex agitators • 2 - Standard paddle mixers | 54'2" x 12 x 11'9" 61.5 m x 3.6 m x 3.6 m |
| | SHIPPING WEIGHT |
| | 58,180 lb 26,390 kg |

PREMIX TANK - WITH GENSET

| DESCRIPTION | |
|--|------------------------|
| <ul style="list-style-type: none"> • 500 bbl (79.5 m³) 3 Compartment tank • 225 Kw Generator with auxiliary power for centrifuges • Mission Magnum™ mixing pump • 35' (10.7 m), 4000W Light tower | |
| DIMENSIONS L X W X H | SHIPPING WEIGHT |
| 57'3" x 12'4" x 11' 17.4 m x 3.8 m x 3.4 m | 56,000 lb 25,401 kg |

PREMIX TANK

| DESCRIPTION | |
|--|------------------------|
| <ul style="list-style-type: none"> • 400 bbl (63.6 m³) 3 Compartment tank • Mission Magnum™ mixing pump | |
| DIMENSIONS L X W X H | SHIPPING WEIGHT |
| 42'3" x 12'6" x 10'10" 12.9 m x 3.8 m x 3.3 m | 30,000 lb 13,607 kg |

All premix tanks include the following: surface & bottom mud guns, fully heated mixing room and steam traced lines.



GEN SET 175 Kw GENERATOR

| DESCRIPTION | DIMENSIONS L X W X H | SHIPPING WEIGHT |
|---|--|-----------------------|
| <ul style="list-style-type: none"> • High performance John Deere™ engine • 30' (9 m) Light tower with 4-1000W metal halide flood lights | 23'3" x 9' x 10 7.1 m x 2.7 m x 3 m | 16,000 lb 7,258 kg |

GEN SET 75 Kw GENERATOR

| DESCRIPTION | DIMENSIONS L X W X H | SHIPPING WEIGHT |
|--|--|-----------------------|
| <ul style="list-style-type: none"> • High performance John Deere™ engine • 30' (9 m) Light tower with 4-1000W metal halide flood lights • Noise suppression standards | 20' x 8' x 8'6" 6 m x 2.4 m x 2.6 m | 12,000 lb 5,443 kg |

CENTRIFUGE STANDS



| DESCRIPTION | SHIPPING DIMENSIONS L X W X H | WORKING DIMENSIONS L X W X H | SHIPPING WEIGHT |
|--|--|---|-----------------------|
| <ul style="list-style-type: none"> • Single centrifuge stand • Safe stair & railing system | 17' x 10'10" x 9'5" 5.2 m x 3.3 m x 2.9 m | 17' x 10'10" x 15'6" 5.2 m x 3.3 m x 4.7 m | 7,000 lb 3,176 kg |
| <ul style="list-style-type: none"> • Double centrifuge stand • Safe stair & railing system | 21'10" x 12'6" x 9'6" 6.7 m x 3.8 m x 2.9 m | 20' x 12'6" x 15'6" 6.0 m x 3.8 m x 4.7 m | 11,000 lb 4,990 kg |

SHALE BINS



| DESCRIPTION | DIMENSIONS L X W X H | SHIPPING WEIGHT |
|---|--|------------------------|
| <ul style="list-style-type: none"> • Convenient drive in 3 sided bin with 12" (305 mm) berm • 76 bbl (12 m³) Spill containment | 40' x 12' x 9' 12.2 m x 3.7 m x 2.7 m | 23,000 lb 10,433 kg |

LOW WALL SHALE BIN

| DESCRIPTION | DIMENSIONS L X W X H | SHIPPING WEIGHT |
|---|--|-----------------------|
| <ul style="list-style-type: none"> • Convenient drive in 3 sided bin with 12" (305 mm) berm • 76 bbl (12 m³) Spill containment | 40' x 12' x 5' 12.2 m x 3.7 m x 1.5 m | 21,000 lb 9,526 kg |

HALF ROUNDS

| DESCRIPTION | DIMENSIONS L X W X H | SHIPPING WEIGHT |
|---|---|-----------------------|
| <ul style="list-style-type: none"> • 98 bbl (15.5 m³) Fluid storage | 24' x 8'6" x 4'8" 7.3 m x 2.6 m x 1.5 m | 8,525 lb 3,867 kg |
| <ul style="list-style-type: none"> • 176 bbl (28 m³) Fluid storage | 41'8" x 8'6" x 4'8" 12.7 m x 2.6 m x 1.5 m | 14,550 lb 6,600 kg |



ANCILLARY EQUIPMENT

DESCRIPTION

- Dual shaft cuttings sizer
- Recirculation trough (*sized to application*)
- Vertical cuttings dryers
- Positive displacement pumps
- Centrifugal pumps or electric trash pumps
- Transfer pump/ 3' (.09 m) diesel trash pump

DESCRIPTION

- Vacuum degasser unit with stand
- Steam cleaner/pressure washer
- Rig vac system with tank
- 4' x 4' (1.2 m x 1.2 m) Effluent tanks
- 3 Sided 9' (2.7 m) ID cuttings drive in container
- 30' x 6' (9.1 m x 1.8 m) Tall open top cuttings containers





Canada

Corporate Head Office
Calgary, AB
403.234.8103

Leduc District
780.986.3120

Grande Prairie District
780.567.4313

United States

Corporate Administrative Office
Houston, TX
281.477.5300

BOS Training Center
817.373.3700

Southern US District
817.373.3700

Midland District
682.202.5882

Oklahoma Repair Facility
405.605.4675

Appalachian District
724.564.5400

Rocky Mountain District
970.256.3600

Denver Sales Office
303.993.2798

Bakken District
701.224.7200

Mid-Continent
701.221-8181

SALES & MARKETING
salesandmarketing@bos-solutions.com

Global Contact
1.877.267.3434
www.bos-solutions.com