DERRICK®

SOLIDS CONTROL

FOR OIL & GAS DRILLING

LETTER FROM THE FAMILY

Founded by H. William Derrick Jr. in 1951, Derrick® Corporation was created to solve some of the most challenging mechanical separation needs of the Mining Industry. At the heart of our present-day offering resides the Integrated Vibratory Motor which was invented by our founder and gave life to an entire line of innovative separation technology. To this day, our pioneering spirit pulses through the organization and inspires development of our leading-edge solutions.

Over the years, we have experienced exponential growth, expanding from our Mining roots to Oil & Gas Drilling, Civil Construction, Industrial, and other challenging industries worldwide. Our robust installed base and expansive network of thousands of cohesive individuals are located across the globe.

Our success is fully dependent on people. Priority one is to serve our global families; our tenured employees, multi-national partners, and surrounding communities. Our unique, close-knit culture and shared, long-term outlook is not only paramount to our success, but to the success of all integral stakeholders.

We thank you for expressing interest in our organization and look forward to being of service to you in the future.

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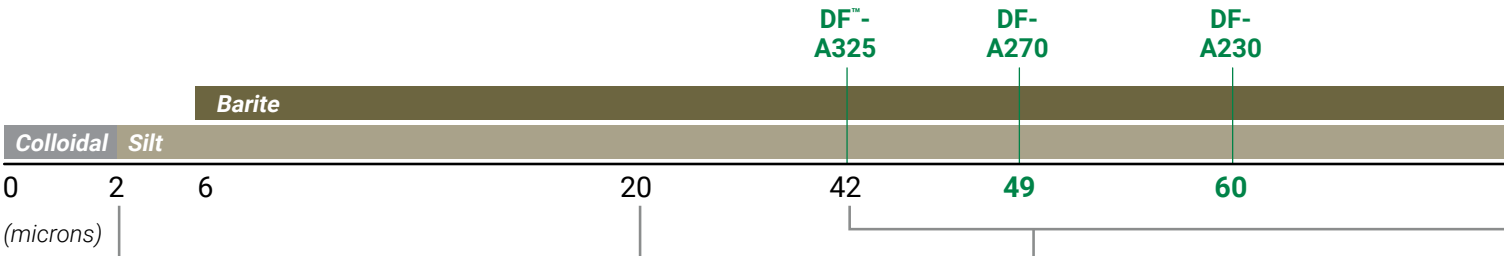
SUMMARY

OF SOLIDS CONTROL EQUIPMENT



DE-7200™ CENTRIFUGE

Separation Particle Size:
>**2 microns**

Primary Application:
Unweighted, Weighted, Closed Systems, and Barite Recovery

DESILTER

Separation Particle Size:
20-74 microns

Primary Application:
Unweighted Systems

DESANDER

Separation Particle Size:
40-100 microns

Primary Application:
Unweighted Systems

DE-1000™ CENTRIFUGE

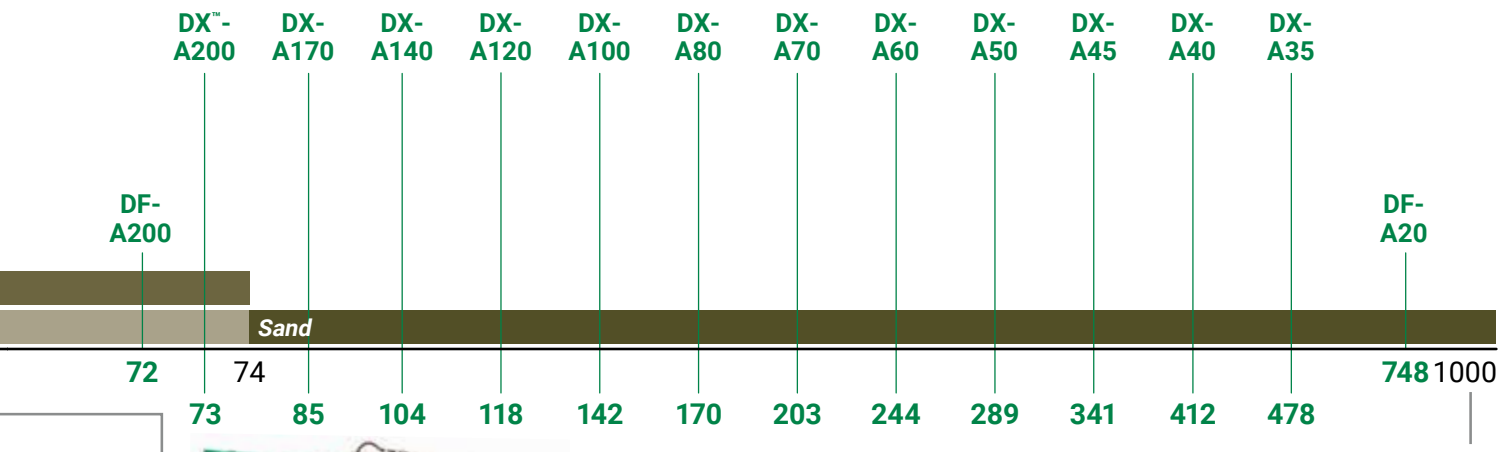
Separation Particle Size:
>**2 microns**

Primary Application:
Unweighted, Weighted, Closed Systems, and Barite Recovery

MUD CLEANER

Separation Particle Size:
>**40 microns**

Primary Application:
Unweighted, Weighted, and Closed Systems



DUAL POOL 626 VE

Separation Particle Size:
>**40 microns**

Primary Application:
Unweighted, Weighted, and Closed Systems

FLO-LINE PRIMER II™

Separation Particle Size:
>**1000 microns**

Primary Application:
Gumbo/Scalping Applications and Unweighted Systems

HYPERPOOL

Separation Particle Size:
>**40 microns**

Primary Application:
Unweighted, Weighted, and Closed Systems

GUMBO REMOVAL

Flo-Line Primer 258™

The Flo-Line Primer 258™ utilizes a screen belt conveyor system to separate hydrated clays and large drilled cuttings from drilling fluid. This allows finer screens to be installed on the primary shakers, leading to lower dilution and operating costs. The Flo-Line Primer 258 is used in place of scalping shakers. The synthetic screen belt is available in 5, 10, and 20 square mesh weave.

With a 1.5 HP electric motor driving a variable speed gearbox, the Primer allows ample adjustment for changes to solids loading. Rotating nylon brushes located at the discard end cleans the screen belt to eliminate blinding issues associated with sticky clays. The feed box comes with a built-in non-pressurized bypass. Access doors allow for easy clean out of the hopper, which simplifies screen belt replacement and allows inspection of the feed end roller. Optional features include custom hoods and custom hopper for oversize outlet.

Flo-Line Primer 258

Flo-Line Primer II

Flo-Line Primer II™

The Flo-Line Primer II utilizes a removal cartridge screen belt conveyor system to separate hydrated clays and large drilled cuttings from drilling fluid. This allows finer screens to be installed on the primary shakers, leading to lower dilution and operating costs. The Primer II is used in place of scalping shakers. Two types of screen belts can be used on the Primer II, a stainless steel chain or a synthetic mesh screen belt. The opening sizes available for the chain are 1/2" x 1" and 1" x 1". The synthetic screen belt is available in 5, 10, and 20 square mesh weave.

With a 1.5 HP electric motor driving a variable speed gearbox, the Primer II allows ample adjustment for changes to solids loading. When the chain belt cartridge is utilized, the sprocket roller on the discard end cleans the openings in the chain to eliminate blinding issues associated with sticky clays. When the synthetic belt cartridge is utilized, rotating nylon brushes located at the discard end cleans the screen belt. The feed box has a built-in non-pressurized bypass. Access doors allow for easy clean out of the hopper, replacing the synthetic belt and the inspection of the feed end roller or sprockets. Optional features include vapor extraction hoods, custom hoods, and custom hopper for oversize outlet.

FLOW DISTRIBUTION

Flo-Divider™

Trouble free handling capacities are increased by the Flo-Divider™, which distributes fluids/solids equally to multiple downstream shale shakers. The unit's weir gates can be used to shut down flow to one or more of the outlets for servicing a downstream unit, adding or removing a shaker, or bypassing all shakers. The Flo-Divider eliminates the need for back tanks and shaker bypasses and minimizes the effect of pitch and heave on offshore installations. The unit is available in five sizes: 3-, 4-, 5-, 6-, and 8-way.

Mud from the flow line enters the rear of the Flo-Divider (1) where it contacts a baffle (2) allowing the flow to pass under and sometimes over before it flows over the weirs (3), and divides the liquid and solids equally between the desired number of shaker feed ports (4). Positive-sealing weir gates shutoff the flow to the downstream shakers (5).

Flo-Divider

Integrated Flo-Divider

Integrated Flo-Divider™

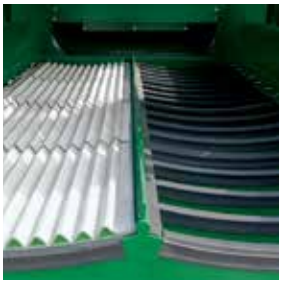
The Integrated Flo-Divider™ functions similarly to the Flo-Divider. The Integrated Flo-Divider distributes the drilling fluid evenly across the screen frames of dual or triple Hyperpool shakers. The unit combines a box feeder with a Flo-Divider to receive and divide flow from a central feed connection between two or three shakers. Pipes connect the box feeder/Flo-Divider to the box feeder on the additional shaker(s).

Positive-sealing weir gates are provided to permit interruption of flow to one or more shakers, as needed to facilitate screen panel changes or other maintenance. Storage receptacles are provided on the front of the Flo-Divider to retain the weir gate when not in use. A bypass pipe for dispensing fluid/cement is installed at the base of the Flo-Divider. A butterfly valve is included in the bypass line to permit the feed to be diverted from all shakers when required for equipment maintenance or to accommodate drilling conditions, such as cementing.

DUAL POOL®

Derrick's knowledgeable workforce incorporates the importance of rig personnel safety and drilling optimization into every aspect of the design, manufacturing, and support of the high G Dual Pool 600 Series shaker. As a result, rigs have longer uptime and employees are safe in their working environment.

With a history of innovation and setting new standards, Derrick and its patented DP 600 Series shaker reassures its commitment to the drilling industry by providing long-life equipment with low maintenance requirements. This premium product includes an innovative dual concave screen frame, actuated screen compression system, optional vapor extraction covers and hood, and an optional scalping deck. The combination of these features ensure increased fluid handling capacity and provide a new standard in screening equipment.



Dual Concave Screen Bed

Vapor Extraction (VE) Covers

Screen Air Actuation Lever

Screen Compression Pins

DUAL POOL
DERRICK DP 600 SHAKER

Dual Pool 626 VE™

Dual Pool 626 VE Mud Cleaner

FEATURES & BENEFITS

1. Health, Safety, & Environment (HSE)

- Easy screen inspection, removal, and installation
- Low sound production (74 +/- 4 dBA)
- Optional vapor extraction covers and hood protect operating personnel and surrounding equipment from vapors emitted during the screening process (dependent on customer provided HVAC exhaust system)
- Self-locking splash covers provide clean operating environment
- Light-weight screen panels make for easy installation

2. Dual Concave Screen Bed

- Fluid centering technology increases capacity
- Increased efficiency in a smaller footprint
- Compression fit bed material requires no hardware

3. Actuated Screen Compression System

- Eliminates bypass of solids under screen panels
- Air actuation offers quick, easy screen changes
- Fail-safe spring system securely retains panels upon loss of air pressure
- All stainless steel pneumatic fittings
- Snap-on protective covers

4. Pyramid® Screen Technology

- Pyramid® and Pyramid Plus™ screens offer up to 206% more API RP 13C non-blanked screen area over conventional shakers delivering increased efficiency
- Compliant with industry-standard API RP 13C (ISO 13501)

5. Super G3™ Integrated Vibratory Motors

- Zero maintenance
- Industry leading high G performance
- Patented continuous internal oil recirculating lubrication system
- Superior conveyance
- Three-year warranty

6. Optional Scalping Deck

- Effective removal of coarse material
- Optional Loss Circulation Material (LCM) reclamation
- Full view exposure of lower deck while operating
- Lower deck screen changes without removing scalping panels
- Integral bypass diverts flow directly to primary deck if desired
- Abrasion-resistant ultra-long-life urethane panels
- Stainless steel scalping deck is provided for CE/ATEX machines

7. Hydraulic Screen Angle Adjustment

- Fast, push button adjustment from +1° to +7°
- Permits optimal shaker performance by maintaining consistent fluid pool

8. Mud Cleaner

- Up to twenty 4” hydrocyclones
- Up to three 10” hydrocyclones
- Individual shutoff valve for each 4" hydrocyclone

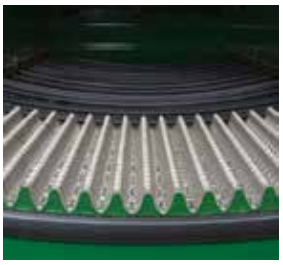
HYPERPOOL®

Backed by 70 years of cost-effective solutions plus award-winning service, the Derrick Hyperpool shaker is the latest in a long line of products designed expressly to exceed the demanding needs of today's oilfield drilling operations.

With its compact footprint, industry-leading processing capacity, solids bypass prevention, and low maintenance cost, the Hyperpool is well suited for all drilling applications where drilling performance and rig modularity are required. The Hyperpool is designed to bring maximum value to the customer.

By combining multiple shakers on a single modular design, the Hyperpool dual and triple units offer increased capacity in a compact footprint. Optimum flexibility is provided by the box feeder/Flo-Divider, which permits distribution of feed slurry equally to each shaker screen frame. A bypass pipe with integrated butterfly valves connects all hopper discharge outlets.

4-Panel Hyperpool



Concave Screen Bed

Screen Compression Pins

Triple Hyperpool Unit with Integrated Flo-Divider

FEATURES & BENEFITS

Health, Safety, & Environment (HSE)

- Easy screen inspection, removal, and installation
- Low sound production (74 +/- 4 dBA)
- Optional vapor extraction covers protect operating personnel and surrounding equipment from vapors emitted during the screening process (dependent on customer provided HVAC exhaust system)
- Optional self-locking splash covers provide clean operating environment
- Light-weight screen panels make for easy installation

Concave Screen Bed

- Eliminates bypass of solids under screen panels
- Fluid centering technology increases capacity up to 35% over competitive equipment
- Increased efficiency in a smaller footprint
- Compression fit bed material requires no hardware

Screen Compression System

- Less than 45-seconds per screen panel change
- Fast, secure panel retention
- Single-side operation, available in either left or right side
- Spring-loaded pin with go/no-go latch ensures consistent compression

Pyramid Screen Technology

- Pyramid and Pyramid Plus screens offer up to 45% more API RP 13C non-blanked screen area over conventional shakers delivering greater efficiency
- Compliant with industry-standard API RP 13C (ISO 13501)

Super G® Integrated Vibratory Motors

- Zero maintenance
- Powerful, quiet, dual vibratory motors apply high G performance
- Two options - Super G® or Super G2®
- Standard Super G has greased-for-life bearings (Two-year warranty)
- Optional Super G2 has continuous recirculating internal oil lubrication system (Three-year warranty)

Single Point Screen Angle Adjustment

- Adjustable screen angle while drilling from +2° to +8° for optimum capacity, screen life, and efficiency
- Manual single point system allows one technician operation and optimization while drilling

Mud Cleaner

- Up to twenty 4” hydrocyclones
- Up to three 10” hydrocyclones
- Optional individual shutoff valve for each 4" hydrocyclone

Hyperpool
Mud Cleaner

FLO-LINE CLEANER™

With over 15 years of offshore and onshore rig installations, Derrick's Flo-Line Cleaner 500 Series shakers embody an industry-proven balance of product dependability and enhanced performance. Designed with the customer in mind, the Flo-Line Cleaner offers user-friendly technology such as light-weight screens, adjustable screen angle while drilling, and single-side screen tensioning.

The Flo-Line Cleaner's modular design allows for versatile configuration as a durable flow line shaker, high performance mud cleaner, single skid dual unit, or even as a drying shaker.

FLC 504 Mud Cleaner

FLC 503

Quick-Lok Tension System

Screen Tensioning Teeth

FLC 513

FLC 514 VE

FEATURES & BENEFITS

Health, Safety, & Environment (HSE)

- Easy screen inspection, removal, and installation
- Low sound production (74 +/- 4 dBA)
- Optional vapor extraction covers protect operating personnel and surrounding equipment from vapors emitted during the screening process (dependent on customer provided HVAC exhaust system)
- Light-weight screen panels make for easy installation

Convex Screen Bed & Quick-Lok Tension System

- Rugged stainless steel construction screen bed materials for long life
- Convex screen bed for increased efficiency in a smaller footprint
- Less than one minute per screen panel change
- Fast, secure panel retention
- Single-side operation, available in either left or right side

Pyramid Screen Technology

- Pyramid and Pyramid Plus screens offer up to 39% more API RP 13C non-blanked screen area over conventional shakers with a FLC 503/513 and up to 85% with a FLC 504/514, delivering greater efficiency
- Compliant with industry-standard API RP 13C (ISO 13501)

Super G2® & Super G Integrated Vibratory Motors

- Zero maintenance
- Powerful, quiet, dual vibratory motors apply high G performance
- Super G vibratory motors are standard for FLC 503 and 504
- Super G2 vibratory motors are standard for FLC 513 and 514
- Super G has greased-for-life bearings (Two-year warranty)
- Super G2 has continuous recirculating internal oil lubrication system (Three-year warranty)

Single Point Screen Angle Adjustment

- Adjustable screen angle while drilling from -1° to +5° (FLC 513 and 503) and -1° to +7° (FLC 514 and 504) for optimum capacity, screen life, and efficiency
- Single point system allows one man operation and optimization while drilling
- Hydraulic push-button system on FLC 513/514
- Manual ratchet system on FLC 503/504

Mud Cleaner

- Up to twenty 4” hydrocyclones
- Up to three 10” hydrocyclones
- Optional individual shutoff valve for each 4" hydrocyclone

THE GLOBAL LEADER IN SCREENING TECHNOLOGY

In 1977, Derrick Corporation expanded into the oilfield, establishing Derrick Equipment Company to serve this market. Derrick has been fully committed to furthering solids control technology through extensive research and development (R&D). Satisfying the ever-changing needs of the oil and gas industry for over forty years, Derrick combines several time proven products with new innovations to offer the most comprehensive and cost effective solids control system in the industry.

Continuing to set the standard in solids control, Derrick Equipment Company is leading the way with their API RP 13C (ISO 13501) screen, an industry-standard for physical testing and labeling of shaker screens. Until API RP 13C, no common standard existed for testing and labeling of screens. All Derrick screens offer cut point integrity and are API RP 13C (ISO 13501) compliant. Utilizing the most advanced and innovative R&D program, Derrick maintains its lead as a provider of fine screening technology.

Increased Solids Removal Results in Lower Drilling Costs

Derrick screens are designed to maximize solids removal capabilities while significantly reducing costs associated with drilling fluid and disposal. The utilization of Derrick screens lowers the percentage of drilled solids in the mud system. Less dilution is required, decreasing total drilling fluid requirements and disposal costs. Cleaner drilling fluid will decrease down hole problems which can adversely affect drilling time. All the benefits of clean drilling fluid lead to one end result: **Lower Drilling Costs.**

Derrick Innovations

1974
DX Extra Fine Screen Cloth

1977
Sandwich Screen® (SWG) Panel

1984
Perforated Wear Plate (PWP™) Screen Panel

1989
Polyurethane Screen Panel

1995
Pyramid (PMD®) Screen Panel

1997
Pyramid Plus (PMD+™) Screen Panel

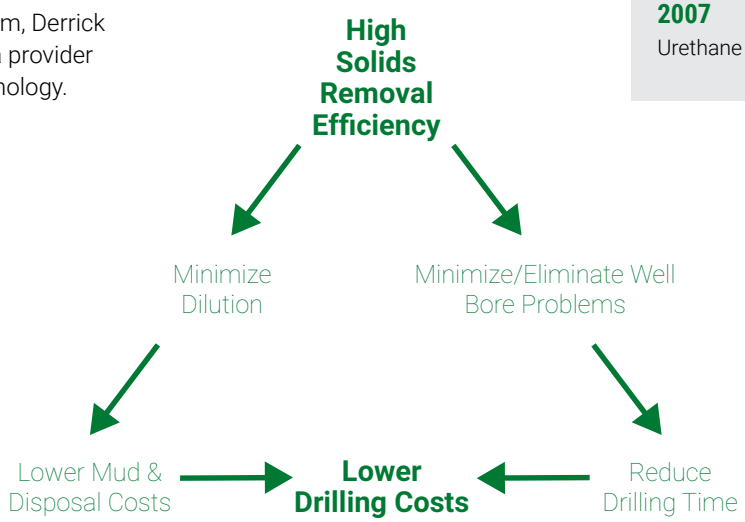
1998
Floating Backing Wire Screen Panel

2006
API RP 13C Compliant Screens

2006
High Temperature Screen Panel

2007
Compression Screen Panel

2007
Urethane Scalping Screen Panel



API RP 13C (ISO 13501) COMPLIANT SCREEN PANELS

What is API RP 13C (ISO 13501)?

A physical testing and labeling procedure for shaker screens. To be API RP 13C compliant, a screen must be tested and labeled in accordance with this recommended practice. Internationally, API RP 13C is known as ISO 13501.

API RP 13C (ISO 13501) Compliance Tests

To meet API RP 13C compliance two tests are required: cut point and conductance. API RP 13C allows the end user to compare by cut point, conductance (fluid flow), and non-blanked open area. The cut point test is based on a time-proven testing method used by ASTM to classify particles by size. The shaker screen designation is identified by matching the screen's cut point to the closest ASTM sieve cut point. The D100 separation is used for assigning screen designations (Fig. 1). D100 means that 100 percent of the particles larger than the test screen will be retained, and all finer particles will pass through. The conductance test measures the ability of a fluid to pass through the screen. The non-blanked open area of a screen describes the net unblocked area (in square meters or square feet) available to permit the passage of fluid.

After identifying the cut point and conductance, API RP 13C requires application of a permanent tag or label to the screen that is visible and legible (Fig. 2). Both cut point, expressed as an API number, and conductance shown in kD/mm are required on the screen label.

The new procedure is a revision of the previous API RP 13E, which was based on optical measurements of the screen opening using a microscope and computer analysis. Under API RP 13E, screen designations were based on individual manufacturer test methods which produced inconsistent labeling.

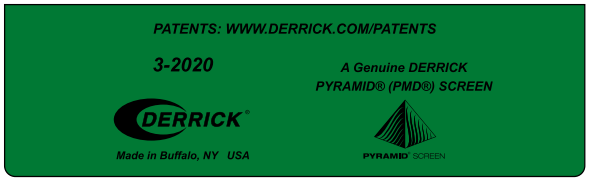
Fig. 1
D100 Separation
& API Screen Number

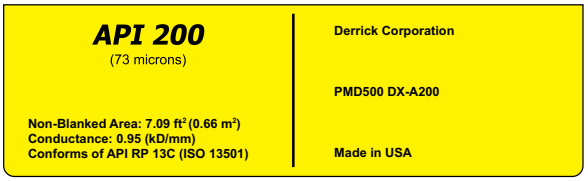
API RP 13C (ISO 13501) CUT POINT NUMBERS

D100 Separation (Microns)	API Screen Number
>780,0 to 925,0	API 20
>655,0 to 780,0	API 25
>550,0 to 655,0	API 30
>462,5 to 550,0	API 35
>390,0 to 462,5	API 40
>327,5 to 390,0	API 45
>275,0 to 327,5	API 50
>231,0 to 275,0	API 60
>196,0 to 231,0	API 70
>165,0 to 196,0	API 80
>137,5 to 165,0	API 100
>116,5 to 137,5	API 120
>98,0 to 116,5	API 140
>82,5 to 98,0	API 170
>69,0 to 82,5	API 200
>58,0 to 69,0	API 230
>49,0 to 58,0	API 270
>41,5 to 49,0	API 325
>35,0 to 41,5	API 400
>28,5 to 35,0	API 450
>22,5 to 28,5	API 500
>18,5 to 22,5	API 635

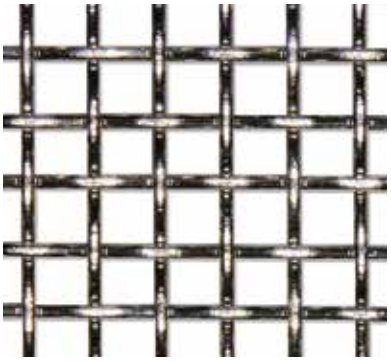
Table 5 (found on page 40 and 41 of API RP 13C)

Fig. 2
Required Screen Tag Information





SCREEN CLOTH



Extra Fine (DX™) Cloth

The Derrick Extra Fine (DX) cloth series is used on the first multiple layer (Sandwich) screens. The DX cloth is designed to maximize capacity, maintain cut point integrity, and minimize nearsize particle blinding.

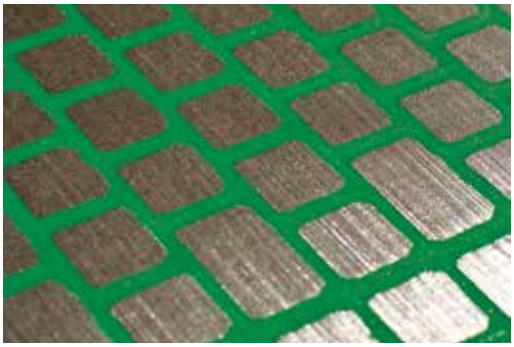
Fine (DF™) Cloth

The Derrick Fine (DF™) cloth series has a slightly larger wire diameter than the DX cloth, but is thinner than market grade and tensile bolting cloth. The DF cloth is designed to maximize screen life, maintain cut point integrity, and minimize nearsize particle blinding.

SCREEN PANEL CONSTRUCTION

Perforated Wear Plate Screen Panel (PWP™)

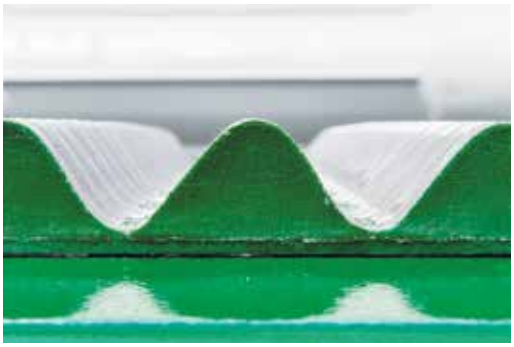
The Derrick PWP screens are constructed of multiple screen layers bonded to a perforated metal plate for added support and facilitation of repair. Bonding squares help maintain cut point integrity by stabilizing the Sandwich Screen®, increasing durability by reducing screen flutter, and isolating any screen failures. Screens for particular shakers may be repaired using the stainless steel plugs supplied with the panel.



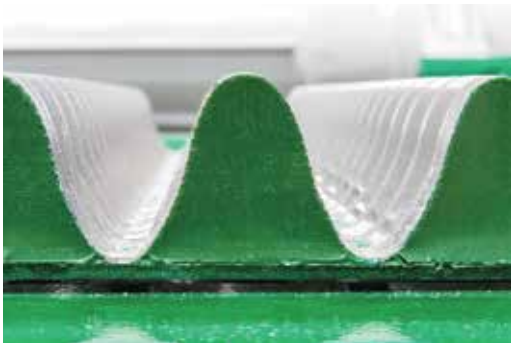
PWP

Pyramid and Pyramid Plus™ Screens (PMD® and PMD+™)

Derrick has revolutionized screening technology with the patented Pyramid (PMD) and Pyramid Plus (PMD+) screens. These revolutionary three-dimensional screens offer the benefits of traditional flat multi-layered screens while adding a significant increase in usable screen area. The result is a screen that increases fluid handling capacity. Pyramid and Pyramid Plus screens provide an easy, cost effective increase in shaker performance. Designed with the latest technology, Pyramid screens allow rigs to screen finer earlier in the drilling process, thus significantly reducing mud and disposal costs. All Derrick screens are API RP 13C compliant.



PMD



PMD+

Exclusive Benefits

- Increased shaker capacity
- Enhanced permeability
- Makes fine separations
- Fit existing shakers
- Screen finer faster
- Drier cuttings

Screen Shape and Conductance

Gravity and vibration force the solids into the corrugated screen's troughs, thus allowing more fluid to pass through the top of the screen.

Corrugated Pyramid Screen
Enhanced Permeability

Conventional Flat Screen
Solids Impede Fluid Flow

REPLACEMENT SCREEN PANELS

FOR DERRICK SHAKERS

Dilution and disposal costs are minimized with Derrick state-of-the-art screen surface technology. Combining high G shakers with Derrick's exclusive Pyramid Screen technology significantly improves solids separation. Integrating the industry's latest advancements in screen surface design – higher capacity, longer screen life, and optimal solids removal efficiency – Derrick screens can dramatically reduce operating costs.

Hyperpool Series for Derrick Hyperpool Shakers

Derrick's Hyperpool performance is optimized through the installation of Pyramid screens, permitting the use of finer mesh sizes at higher capacities. The Hyperpool's innovative screen compression system drives the center of the screen panel downward, firmly sealing the screen panel to the screen frame. Compression benefits include extended screen life, improved conveyance, elimination of ultra fine solids bypassing under screen panels, and faster and more user-friendly screen changes than any other shaker in the Derrick product line.

Hyperpool Series Screen

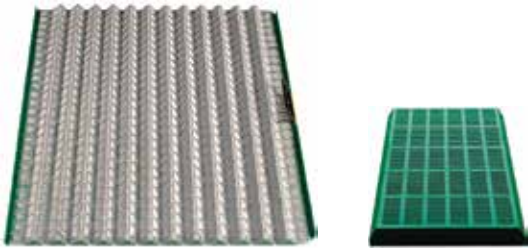
API RP 13C (ISO 13501)
Non-Blanked Open Screen Area

	PMD	PMD+
Hyperpool	22.64 sq. ft.	30.76 sq. ft.

COMPRESSION SYSTEM

600 Series for Derrick Dual Pool 600 Shakers

Derrick's 600 Series screens, available in Pyramid and Pyramid Plus panels, are used on all Dual Pool 600 series shakers. The DP 600's innovative actuated screen compression system drives the center of the screen panel downward, firmly sealing the screen panel to the screen frame. Compression benefits include extended screen life, improved conveyance, elimination of ultra fine solids bypassing under screen panels, and fast, user-friendly screen changes. Derrick's long-life urethane panels are used on models equipped with the scalping deck option.



Pyramid (PMD) 600 Series Screen
& Scalping Deck 600 Series Urethane Screen

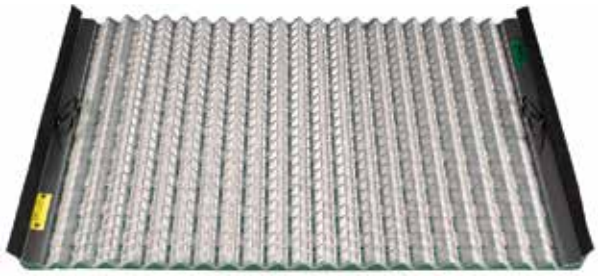
API RP 13C (ISO 13501)
Non-Blanked Open Screen Area

	PMD	PMD+	Urethane
DP 616	24.60 sq. ft.	32.64 sq. ft.	-
DP 626	24.60 sq. ft.	32.64 sq. ft.	12.00 sq. ft.
DP 618	32.80 sq. ft.	43.52 sq. ft.	-
DP 628	32.80 sq. ft.	43.52 sq. ft.	16.00 sq. ft.

COMPRESSION SYSTEM

500 Series for Derrick Flo-Line Cleaner 500 Shakers

Derrick's 500 Series screens, available in Pyramid, Pyramid Plus, and PWP panels are used on all FLC 500 series shale shakers. The FLC 500's innovative single-side tensioning system reduces screen panel replacement time to less than one minute per panel on average. This faster, easier, and more reliable screen panel tensioning is provided by tensioning fingers and two Quick-Lok 1/2-turn tensioning bolts on each screen panel.



Pyramid (PMD) 500 Series Screen

API RP 13C (ISO 13501)
Non-Blanked Open Screen Area

	PWP	PMD	PMD+
FLC 513	12.15 sq. ft.	21.27 sq. ft.	29.40 sq. ft.
FLC 514	16.20 sq. ft.	28.36 sq. ft.	39.20 sq. ft.

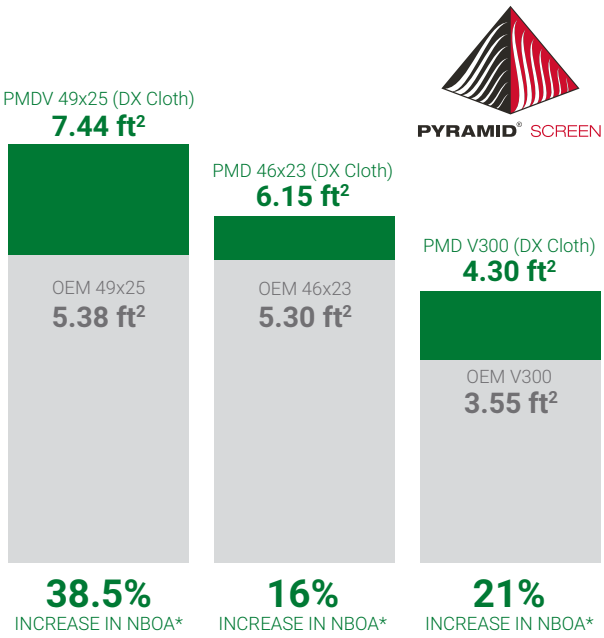
TENSIONING SCREEN SYSTEM

REPLACEMENT SCREEN PANELS

FOR NON-DERRICK SHAKERS

More Screen Area with Pyramid Screens

Derrick makes replacement screens to fit non-Derrick shale shakers. Continuing with its commitment to remain the leading technology provider of fine screens, Derrick's Research and Development department has developed a pretensioned screen for the BRANDT® COBRA™ Series, LCM-3D, and VSM 300™ shakers, as well as M-I SWACO® MONGOOSE® & MEERKAT® Series shakers. Utilizing Derrick's PMD and PWP technology, the 49x25, 46x23, and V300 replacement screens are API RP 13C (ISO 13501) compliant to ensure accurate cut point designation.



NBOA = Non-Blanked Open Area

46x23 for M-I SWACO® MONGOOSE® & MEERKAT® Series Shakers

The PMD 46x23 is a superior pre-tensioned replacement screen for MONGOOSE & MEERKAT series shale shakers. The exclusive Derrick Pyramid technology offers up to 16% greater non-blanked open area, increasing capacity of the existing shaker package. The PTM 46x23 (PWP) flat screen is also available.

PMD 46x23 Screen

API RP 13C (ISO 13501)
Non-Blanked Open Screen Area
Using DX Series Cloth

	PWP	PMD
MONGOOSE	17.60 sq. ft.	24.60 sq. ft.
MEERKAT	13.20 sq. ft.	18.45 sq. ft.

49x25 for BRANDT® COBRA™ Series and LCM-3D Shakers

The PMDVA 49x25 is a superior pre-tensioned (VENOM™ style) replacement screen for the COBRA series and LCM-3D shale shakers. The exclusive Derrick Pyramid technology offers up to 38.5% greater non-blanked open area, increasing capacity of the existing shaker package. The PTCV 49x25 (PWP) flat screen is also available and comes with a stainless steel screen repair plug.

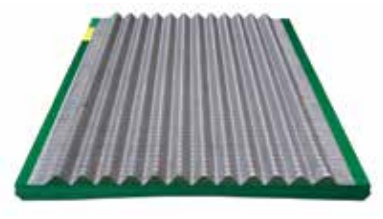
PMDVA 49x25 Screen

API RP 13C (ISO 13501)
Non-Blanked Open Screen Area
Using DX Series Cloth

	PWP	PMD
COBRA	15.00 sq. ft.	22.32 sq. ft.
KING COBRA™	20.00 sq. ft.	29.76 sq. ft.
LCM-3D	20.00 sq. ft.	29.76 sq. ft.

V300 for BRANDT VSM 300™ Shakers

A pre-tensioned Pyramid screen is available for the VSM 300 shale shakers. The V300 screens ensure longer screen life and accurate cut point designation in compliance with API RP 13C. The exclusive Derrick Pyramid technology offers up to 21% greater non-blanked open area, increasing capacity of the existing shaker package. The V300 (PWP) flat screen is also available.



V300 PMD Screen

API RP 13C (ISO 13501)
Non-Blanked Open Screen Area
Using DX Series Cloth

	PWP	PMD
VSM 300	13.16 sq. ft.	17.20 sq. ft.

SCREEN PANEL CHART

FOR DERRICK SHAKERS

API RP 13C NON-BLANKED OPEN AREA (SQ. FT.)					
48x30	36x30	60x30	500 Series	600 Series	Hyperpool®
5.30	4.26	7.27	4.05	-	-
6.85	5.76	10.03	7.09	4.10	5.66
9.47	7.78	-	9.80	5.44	7.69

☐ = PWP™ ▲ = PMD® ▲+ = PMD+™ ● = HT

	API RP 13C DESIGNATION			CONDUCTANCE NUMBER				AVAILABLE CONSTRUCTION					
	Screen Designation	API RP 13C Designation	API D100 Cut Point	PWP 500	PWP 48x30, 36x30, 60x30	PMD	PMD+	48x30[1,5]	36x30[6]	60x30[7]	500 Series[2,5]	600 Series[3]	Hyperpool®[4]
DX SERIES	DX-A200	API 200	73.30	0.94	0.73	0.95	1.46	☐ ▲+ ▲ ●	☐ ▲+ ▲	☐	☐ ▲+ ▲ ●	▲+ ▲	▲+ ▲
	DX-A170	API 170	85.40	1.20	0.85	1.36	1.61	☐ ▲+ ▲ ●	☐ ▲+ ▲	☐	☐ ▲+ ▲ ●	▲+ ▲	▲+ ▲
	DX-A140	API 140	104.00	1.61	1.43	1.92	2.42	☐ ▲+ ▲ ●	☐ ▲+ ▲	☐	☐ ▲+ ▲ ●	▲+ ▲	▲+ ▲
	DX-A120	API 120	117.80	1.64	1.46	1.92	2.46	☐ ▲+ ▲ ●	☐ ▲+ ▲	☐	☐ ▲+ ▲ ●	▲+ ▲	▲+ ▲
	DX-A100	API 100	142.00	2.18	1.80	2.33	3.20	☐ ▲+ ▲ ●	☐ ▲+ ▲	☐	☐ ▲+ ▲ ●	▲+ ▲	▲+ ▲
	DX-A80	API 80	170.40	2.50	2.48	3.09	4.14	☐ ▲+ ▲ ●	☐ ▲+ ▲	☐	☐ ▲+ ▲ ●	▲+ ▲	▲+ ▲
	DX-A70	API 70	202.70	2.55	2.67	3.80	5.00	☐ ▲+ ▲ ●	☐ ▲+ ▲	☐	☐ ▲+ ▲ ●	▲+ ▲	▲+ ▲
	DX-A60	API 60	243.70	3.85	3.56	4.68	5.66	☐ ▲+ ▲ ●	☐ ▲+ ▲	☐	☐ ▲+ ▲ ●	▲+ ▲	▲+ ▲
	DX-A50	API 50	288.50	4.59	4.19	5.50	6.21	☐ ▲+ ▲ ●	☐ ▲+ ▲	☐	☐ ▲+ ▲ ●	▲+ ▲	▲+ ▲
	DX-A45	API 45	341.10	7.30	6.05	5.84	7.06	☐ ▲+ ▲ ●	☐ ▲+ ▲	☐	☐ ▲+ ▲ ●	▲+ ▲	▲+ ▲
	DX-A40	API 40	411.70	8.16	6.77	6.59	7.39	☐ ▲+ ▲ ●	☐ ▲+ ▲	☐	☐ ▲+ ▲ ●	▲+ ▲	▲+ ▲
	DX-A35	API 35	477.50	11.80	7.24	7.06	11.59	☐ ▲+ ▲ ●	☐ ▲+ ▲	☐	☐ ▲+ ▲ ●	▲+ ▲	▲+ ▲
DF SERIES	DF-A325	API 325	41.5	0.35	0.29	0.38	0.61	☐ ▲+ ▲ ●	☐ ▲+ ▲	☐	☐ ▲+ ▲ ●	▲+ ▲	▲+ ▲
	DF-A270	API 270	49.20	0.39	0.31	0.44	0.65	☐ ▲+ ▲ ●	☐ ▲+ ▲	☐	☐ ▲+ ▲ ●	▲+ ▲	▲+ ▲
	DF-A230	API 230	59.80	0.52	0.59	0.71	1.00	☐ ▲+ ▲ ●	☐ ▲+ ▲	☐	☐ ▲+ ▲ ●	▲+ ▲	▲+ ▲
	DF-A200	API 200	72.20	n/a	n/a	0.93	1.37	Not Available					▲+ ▲
	DF-A20	API 20	783.80	15.96	14.35	10.57	13.69	☐ ▲+ ▲ ●	☐ ▲+ ▲	☐	☐ ▲+ ▲ ●	▲+ ▲	▲+ ▲

[1]Fits Derrick FLC 2000™ 3 and 4-Panel, FLC with AWD, FLC Plus™, HI-G® Dryer, Cascade 2000
[2]Fits Derrick FLC 500 Series
[3]Fits Derrick Dual Pool® 600 Series
[4]Fits Derrick Hyperpool
[5]HT option is available for PMD screens only. PWP screens are inherently HT
[6]Fits Derrick Fluid Cleaner 313
[7]Fits Derrick FLC 58

SCREEN PANEL CHART

FOR NON-DERRICK SHAKERS

☐ = PWP™ ▲ = PMD®

								API RP 13C NON-BLANKED OPEN AREA (SQ. FT.)		
								49x25	46x23	V300
								5.00	4.40	3.29
								7.44	6.15	4.30
	API RP 13C DESIGNATION			CONDUCTANCE NUMBER				AVAILABLE CONSTRUCTION		
	Screen Designation	API RP 13C Designation	API D100 Cut Point	PWP 49x25	PWP 46x23	PWP V300	PMD	49x25[8]	46x23[9]	V300[10]
DX SERIES	DX-A200	API 200	73.30	0.81	0.88	0.90	0.95	☐ ▲	☐ ▲	☐ ▲
	DX-A170	API 170	85.40	1.14	0.96	1.02	1.36	☐ ▲	☐ ▲	☐ ▲
	DX-A140	API 140	104.00	1.28	1.19	1.20	1.92	☐ ▲	☐ ▲	☐ ▲
	DX-A120	API 120	117.80	1.40	1.36	1.16	1.92	☐ ▲	☐ ▲	☐ ▲
	DX-A100	API 100	142.00	1.99	1.75	1.75	2.33	☐ ▲	☐ ▲	☐ ▲
	DX-A80	API 80	170.40	2.15	2.45	2.17	3.09	☐ ▲	☐ ▲	☐ ▲
	DX-A70	API 70	202.70	2.96	2.72	2.68	3.80	☐ ▲	☐ ▲	☐ ▲
	DX-A60	API 60	243.70	3.65	3.52	3.16	4.68	☐ ▲	☐ ▲	☐ ▲
	DX-A50	API 50	288.50	4.72	4.77	4.13	5.50	☐ ▲	☐ ▲	☐ ▲
	DX-A45	API 45	341.10	7.63	7.96	6.74	5.84	☐ ▲	☐ ▲	☐ ▲
	DX-A40	API 40	411.70	9.11	9.87	8.19	6.59	☐ ▲	☐ ▲	☐ ▲
	DX-A35	API 35	477.50	11.13	10.84	8.70	7.06	☐ ▲	☐ ▲	☐ ▲
DF SERIES	DF-A325	API 325	41.50	0.26	0.27	0.24	0.38	☐ ▲	☐ ▲	☐ ▲
	DF-A270	API 270	49.20	0.37	0.35	0.36	0.44	☐ ▲	☐ ▲	☐ ▲
	DF-A230	API 230	59.80	0.53	0.56	0.48	0.71	☐ ▲	☐ ▲	☐ ▲
	DF-A20	API 20	783.80	12.43	14.43	13.30	10.57	☐ ▲	☐ ▲	☐ ▲

[8]Fits BRANDT COBRA Series and LCM-3D Shakers
[9]Fits M-I SWACO MONGOOSE & MEERKAT Series Shakers
[10]Fits BRANDT VSM 300 Shakers

WEIGHT COMPARISON CHART

FOR NON-DERRICK SHAKERS

SHAKER TYPE	OEM	DESCRIPTION	WEIGHT (LBS)
BRANDT COBRA Series & LCM-3D	DECO	PMDVA49X25	29
	DECO	PTVA49X25	28
	BRANDT	VENOM™ PXL and RHD Series Screens	35
	M-I SWACO*	DURAFLO* Composite Screens (XR, XL, HC, and MG)	34
BRANDT VSM 300	DECO	PMDV300	24
	DECO	PWPV300	25
	BRANDT	VENOM PXL and RHD Series Screens	21
	BRANDT	300PLUS (Axiom)	14*
	M-I SWACO	DURAFLO Composite Screens (XR, XL, HC, and MG)	18
M-I SWACO MONGOOSE & MEERKAT Series Shakers	DECO	PMDA46X23	23
	DECO	PTMA46X23	20
	BRANDT	MONGOOSE* PT Shale Shaker	34
	M-I SWACO	DURAFLO Composite Screens (XR, XL, HC, and MG)	25

*The 300PLUS (Axiom) utilizes six screens (three per side) to screen up a VSM 300, vice the usual four (two per side)

MUD AGITATORS

DE-AG™ Mud Agitator

Derrick mud agitators include an explosion-proof, "C" faced motor, reduction gearbox (helical-bevel gears for horizontal agitators or all helical gears for vertical units), impeller, and shaft with assembly bushings. Motors range from 5 to 30 HP and may be supplied in several power configurations.

Attaching the motor directly to the gearbox protects correct alignment that can increase bearing life and provides 95 percent efficiency in power transfer to the impeller. Using this superior design surpasses standard worm drive gear assemblies by 30 percent, allowing Derrick agitators to do the same work at far less horsepower. By unitizing the motor and gearbox, weight and space requirements are reduced. Horsepower, mechanical configuration, impeller diameter, and shaft length are customized to tank dimensions and maximum mud weights. Available horsepower ratings* are: 5, 7.5, 10, 15, 20, 25, and 30.

*Horsepower is de-rated for 50Hz power configuration.

Horizontal
Mud Agitator

Vertical Mud Agitator

CENTRIFUGAL PUMPS

Horizontal Package

Overhead Belt Drive Package

Centrifugal Pumps

Derrick offers a complete line of centrifugal pumps to accommodate a full variety of drilling applications. Sizes range from 3 x 2 to 8 x 6. Bare pumps, horizontal packages, and overhead belt drive configurations are available. Explosion proof electric motors are available up to 200 HP in 1200, 1800, or 3600 RPM.

Horizontal packages are skidded, as shown, and include the Derrick Premium 250 pump, explosion proof electric motor, and coupling with OSHA type guard. Starters are optional.

Overhead belt drive packages are skidded, as shown, and include the Derrick Premium 250 pump, an explosion proof electric motor, belts and sheaves, and OSHA type belt guard. Starters are optional.

DEGASSERS

Vacu-Flo™ 1200 Degasser

Derrick Vacu-Flo™ degassers have a more efficient vertical tank design than traditional horizontal degassers, offering over 217% more surface area than alternative designs. This additional capacity results in no increase in vessel size, tank space requirements, unit weight, or reconfiguration of pit arrangements. A 5 HP vacuum pump, capable of pulling 29" Hg, draws mud into the degassing chamber where decreased pressure causes gas bubbles to surface from the fluid more rapidly. A stacked, corrugated fiberglass leaf arrangement and multiple feed ports provide higher fluid impact, thinner layers of mud dispersion, and greater turbulence for more efficient gas removal. Derrick's Vacu-Flo degassers offer convenient access to the leaf assembly and float mechanisms (without having to remove the vessel lid) through an oversized access door. This feature significantly reduces downtime and maintenance costs compared to other units. The Vacu-Flo 1200 has a leaf area of 16,755 in^2 (10.8 m^2).

Vacu-Flo 1200 Degasser

ACD-1500 Degasser Dual Voltage

ACD-1500 Atmospheric Degasser Dual Voltage

The Derrick ACD-1500 Atmospheric/Centrifugal degasser is a unique in-tank alternative to the standard Derrick vacuum style Vacu-Flo 1200 degasser.

The Derrick ACD-1500 degasser agitates mud through a submerged 12" pump impeller relying on impact and turbulence to enable the separation of gas from the fluid. Strike plate adjustment of 0.25" to 1.25" allows variable flow capacity. The ACD-1500 degasser satisfies the NEC Class I, Division 1, Group C and D explosion proof electrical requirements for the equipment voltages 460V/3phase at 60Hz or 380V/3phase at 50Hz.

VIBRATORY MOTORS

Proven to dramatically increase liquid/solids separation, the Super G series vibratory motors produce superior conveyance due to their high G characteristics. Increased fluid-handling capacities using fewer shakers is only part of the reason for their success on drilling rigs. Screening finer, earlier in the drilling process, significantly reduces mud and disposal costs. The Super G series vibratory motors are built with Derrick's superior electrical components, which are renowned in the industry for durability. High performance and exceptional durability make the Super G series vibratory motors an asset to any drilling program.

Super G3 and Super G2 Integrated Vibratory Motors

Both the Super G3 and Super G2 vibratory motors feature a patented continuous, internal recirculation lubrication system that provides long life, reduced repair costs, and robust maintenance free operation. In addition to greatly extending the life of the vibratory motor, the hydrodynamic cushioning effect on bearing surfaces created by this unique lubrication system reduces friction, wear, heat, and sound (measured at 74 +/- 4 dBA). Sealed, continuous recirculation of lubricating oil maintains a fresh film of oil on all bearing surfaces at all times and prevents entry of contaminants. Both the Super G3 and Super G2 vibratory motors carry a three-year warranty.

Super G2 Vibratory Motor

Super G Integrated Vibratory Motors

Featuring permanently lubricated bearings that eliminate the need for a remote lubrication system, Derrick Super G vibratory motors reduce both repair costs and maintenance requirements. These grease-filled bearings also result in significantly lower sound output with a measured level of 74 +/- 4 dBA. Super G vibratory motors carry a two-year warranty.

Super G Vibratory Motor

HYDROCYCLONES

Inline Vertical Desander

Inline Incline Desander

10 Inch Inline Desanders

Derrick desanders make separations between 40 and 100 microns and offer the flexibility of mounting either one, two, or three 10" desander cones over a cone underflow pan. The underflow can be discarded or directed onto a vibrating screen for further processing. Derrick desanders are also available in vertical or inclined manifold stand-alone models, or for inclined mounting on Derrick shakers.

4 Inch Round or Inline Desilters

The Derrick round and inline desilters are designed to remove silt-sized (20 to 74 microns) solids from drilling fluids. Derrick's round desilters are simple to operate and easy to maintain. Optional shutoff valves on each round desilter cone inlet permit individual cone removal and inspection without interrupting operation of the desilter. The Derrick inline desilter is designed for use in areas that cannot accommodate the spatial requirements for the premium round desilter configuration. Both the round and inline desilters are available in a variety of sizes up to 20 cone models. Available cone quantity dependent on machine type.

Derrick's polyurethane hydrocyclone offers a high volume 4" cone, while providing contractors an economical replacement for less efficient older equipment. Derrick's unique unibody construction eliminates excess parts and seams where excessive wear can occur. Derrick's 4" desilter cones are available with ceramic inserts for extreme service.

Inline Vertical Desilter

Round Desilter

DE-7200™ SERIES

FEATURES & BENEFITS

Bowl

- High volumetric flow rates provide processing capacity for the most demanding applications
- Driven by a 150 HP motor, the bowl attains 2748 G's at 3000 RPM to separate fine solids at high feed rates
- High speed and high capacity enable maximum solids removal efficiency and finest cut points

Conveyor and Gearbox

- Axial and radial combination conveyor increases throughput and reduces fluid turbulence at liquid end of bowl for increased solids settling
- With 70,806 in-lb maximum torque and 60 HP motor, the conveyor handles high solids volume without overloading or packing off

Control System

- Control cabinet is separated from the centrifuge for flexibility during installation
- Multiple control panel options available for Hazardous and non-hazardous locations
- Variable frequency drive control for ultimate operational flexibility and performance optimization
- Load sensing and feed pump control automatically adjusts feed rate for optimal processing efficiency

DE-7200 with B1 Control Cabinet

DE-7200
SPECIFICATIONS

DE-7200		
CENTRIFUGE		
Type:	Decanter (continuous flow)	
Bowl Inside Diameter:	21.4" (544 mm)	
Bowl Effective Length:	72" (1829 mm)	
High G Maximum:	2748 G's	
Maximum Bowl Speed:	up to 3000 RPM	
Conveyor Differential Speed Range:	1-70 RPM	
CONVEYOR		
Type:	Axial/Radial Hybrid	
Lead Direction:	Left Hand	
Movement Related to Bowl:	Leading	
GEARBOX		
Type:	Three Stage - planetary	
Ratio:	48:1	
Torque Maximum:	70,806 in·lb (8000 N·m)	
ELECTRICAL		
Bowl Drive:	150 HP (111 KW) Motor and VFD	
Conveyor Drive:	60 HP (45 KW) Motor and VFD	
Pump Drive:	30 HP (22 KW) VFD	
Control System:	Intuitive color operator interface with PLC control and dedicated Operator Interface terminal	
OPTIONS	**B1**	**B2**
Electrical Configurations:	480 VAC Input	480 VAC Input
Electrical Cabinet:	NEMA 3R	NEMA 3R
RA Electrics:	Class I, Division 1	Class I, Division 2

DE-1000™ SERIES

FEATURES & BENEFITS

DE-1000™ LP (Low Profile) VFD Dual Voltage

- Driven by a 50 HP motor, the bowl attains up to 2575 G's at 3600 RPM to separate fine solids at high feed rates
- 24,782 in-lbs maximum conveyor torque with 52:1 gearbox and 20 HP conveyor drive motor
- Modular, low profile construction allows control cabinet and centrifuge to be installed separately or as a single unit
- Bowl, conveyor, and feed pump all VFD-controlled
- Automatic load sensing and feed pump control
- Capable of operating on 380-480V 3 phase at 50/60Hz without any loss in performance
- Can be deployed around the world without changing electrical components or motors

DE-1000 LP VFD A1 Dual Voltage

DE-1000™ SERIES

FEATURES & BENEFITS

DE-1000 FHD™ (Full Hydraulic Drive) Dual Voltage

- Driven by a 50 HP motor, the bowl attains up to 2300 G's at 3400 RPM to separate fine solids at high feed rates
- 18,800 in-lbs maximum conveyor torque with Rotodiff hydrostatic conveyor drive
- Independent adjustment of bowl speed and conveyor differential speed for optimal performance
- Automatic feed pump cycling and conveyor boost reduce the likelihood of rotating assembly overload and associated operational downtime
- Automatic safety shutdown for hydraulic fluid high temperature, high pressure, or low fluid level
- Capable of operating on 380-480V 3 phase at 50/60Hz without any loss in performance
- Can be deployed around the world without changing electrical components or motors

DE-1000 FHD Dual Voltage

DE-1000 LP GBD™ (Gearbox Drive)

- Driven by a 50 HP motor, the bowl attains up to 3180 G's at 4000 RPM at 60Hz and up to 2100 G's at 3250 RPM at 50Hz to separate fine solids at high feed rates
- Offers limited operational flexibility with fixed conveyor differential speed and bowl speed adjustment requiring sheave change
- Budget-priced offering for applications with consistent feed slurries
- Compact footprint and lightweight, allowing four units to fit in standard 40 foot container
- Reduced transportation, shipping costs, and ease of installation on smaller rigs and job sites

DE-1000 LP GBD

DE-1000
SPECIFICATIONS

DE-1000 SERIES			
CENTRIFUGE	**VFD**	**FHD**	**GBD**
Type:	Decanter (continuous flow)	Decanter (continuous flow)	Decanter (continuous flow)
Bowl Inside Diameter:	14" (356 mm)	14" (356 mm)	14" (356 mm)
Bowl Effective Length:	49" (1238 mm)	49" (1238 mm)	49" (1238 mm)
Bowl Material:	316 Stainless Steel	316 Stainless Steel	316 Stainless Steel
High G Maximum:	2575 G's	2300 G's	3180 G's
Maximum Bowl Speed:	3600 RPM	3400 RPM	4000 RPM
Conveyor Differential Speed Range:	1-100 RPM	3-90 RPM	Fixed speed based on gearbox ratio
CONVEYOR			
Standard Type:	Helical - Radial	Helical - Radial	Helical - Radial
Optional Type:	Helical - Axial	Helical - Axial	Helical - Axial
Lead Direction:	Left Hand	Left Hand	Left Hand
Movement Related to Bowl:	Lagging	Lagging	Lagging
GEARBOX			
Type:	Two Stage - Planetary	Roto - Differential	Two Stage - Planetary
Ratio:	52:1	N/A	52:1 or 125:1
Torque Maximum:	24,782 in·lb (2800 N·m)	18,800 in·lb (2124 N·m)	17,400 in·lb (1965 N·m) for 52:1 25,000 in·lb (2824 N·m) for 125:1 Gearbox
ELECTRICAL			
Bowl Drive:	50 HP (37 KW) Motor and VFD	50 HP (37 KW) Motor	50 HP (37 KW) Motor
Conveyor Drive:	20 HP (15 KW) Motor and VFD	Hydraulic	N/A
Pump Drive:	15 HP (11 KW) VFD	N/A	N/A
Control System:	Intuitive color operator interface with PLC control and dedicated Operator Interface terminal	Independent hydraulic control valves and associated pressure gauges for bowl and conveyor speeds	On/Off control panel for centrifuge and feed pump
Voltage:	380-480V, 600V	380-480V, 600V	380V, 480V, 600V
OPTIONS	**A1**		
Electrical Configurations:	400/480VAC or 600VAC Input		
Electrical Cabinet:	Class I, Division 1		
RA Electrics:	Class I, Division 1		
	B1, B2		
Electrical Configurations:	480 VAC Input		
Electrical Cabinet:	NEMA 3R		
RA Electrics:	**B1:** Class I, Division 1 **B2:** Class I, Division 2		

WEIGHTS & DIMENSIONS

EQUIPMENT			DIMENSIONS				
Model	**Options**		**Width in (mm)**	**Length in (mm)**	**Height in (mm)**	**Weir Height in (mm)**	**Weight lbs (kg)**
Flo-Line Primer 258	Standard		53-3/4 (1365)	159 (4039)	51 (1295)	37-3/16 (945)	3100 (1406)
	VE (Vapor Extraction)			159-1/8 (4042)	58-5/16 (1480)		3300 (1497)
Flo-Line Primer II	Standard			114-3/4 (2915)	60-9/16 (1530)		3300 (1497)
	VE (Vapor Extraction)			115 (2921)	66-1/16 (1678)		3500 (1588)
Dual Pool 616	Box Feeder	None	79-15/16 (2015)	108 (2743)	73-9/16 (1868)	45-1/2 (1156)	5400 (2450)
		3/20 Cones	80 (2032)	125 (3175)	114-7/8 (2918)		9200 (4173)
	Weir Feeder	None	74-15/16 (1903)	126-1/4 (3207)	73-9/16 (1868)	34 (864)	5400 (2450)
		3/20 Cones	80 (2032)	132-1/4 (3359)	114-7/8 (2918)		9300 (4218)
Dual Pool 626	Box Feeder	None	79-15/16 (2015)	108 (2743)	73-9/16 (1868)	45-1/2 (1156)	5900 (2677)
		3/20 Cones	80 (2032)	125 (3175)	114-7/8 (2918)		9400 (4264)
	Weir Feeder	None	74-15/16 (1903)	126-1/4 (3207)	73-9/16 (1868)	34 (864)	6000 (2722)
		3/20 Cones	80 (2032)	132-1/4 (3359)	114-7/8 (2918)		9700 (4400)
Dual Pool 618	Box Feeder	None	79-5/16 (2015)	136-3/16 (3460)	75-1/4 (1911)	45-1/2 (1156)	6100 (2767)
		3/20 Cones	80 (2032)	147-1/8 (3737)	114-7/8 (2918)		10000 (4536)
	Weir Feeder	None	74-15/16 (1903)	154-3/8 (3921)	75-1/4 (1911)	34 (864)	6200 (2812)
		3/20 Cones	80 (2032)		114-7/8 (2918)		10200 (4627)
Dual Pool 628	Box Feeder	None	79-5/16 (2015)	136-3/16 (3460)	75-1/4 (1911)	45-1/2 (1156)	6400 (2903)
		3/20 Cones	80 (2032)	147-3/8 (3737)	114-7/8 (2918)		10300 (4672)
	Weir Feeder	None	74-15/16 (1903)	154-3/8 (3921)	75-1/4 (1911)	34 (864)	7200 (3266)
		3/20 Cones	80 (2032)		114-7/8 (2918)		10500 (4763)
Dual Pool 616 VE (Vapor Extraction)	Box (TE)*	None	74-15/16 (1903)	109-11/16 (2786)	73-9/16 (1868)	45-1/2 (1156)	5700 (2585)
	Box (RE)**			119-5/16 (3031)			5500 (2495)
	Box (RE)	3/20 Cones	80-1/2 (2045)	125 (3175)	114-7/8 (2918)		9700 (4400)
	Weir Feeder	None	74-15/16 (1903)	127-5/8 (3241)	73-9/16 (1868)	34 (864)	5700 (2586)
	Weir Feeder	3/20 Cones	80-1/2 (2045)	132-1/4 (3359)	114-7/8 (2918)		9500 (4309)
Dual Pool 626 VE (Vapor Extraction)	Box (TE)	None	74-15/16 (1903)	110-1/2 (2807)	73-9/16 (1868)	45-1/2 (1156)	6000 (2722)
	Box (RE)			120-5/16 (3056)			
	Box (RE)	3/20 Cones	80-1/2 (2045)	125 (3175)	114-7/8 (2918)		10000 (4536)
	Weir Feeder	None	74-15/16 (1903)	127-5/8 (3241)	73-9/16 (1868)	34 (864)	5900 (2676)
	Weir Feeder	3/20 Cones	80-1/2 (2045)	132-1/4 (3359)	114-7/8 (2918)		9900 (4491)
Dual Pool 618 VE (Vapor Extraction)	Box (TE)	None	74-15/16 (1903)	141-15/16 (3605)	75-1/4 (1911)	45-1/2 (1156)	6500 (2948)
	Box (RE)			152-1/16 (3862)			6600 (2999)
	Box (RE)	3/20 Cones	80-1/2 (2045)	153-1/8 (3889)	114-7/8 (2918)		10400 (4717)
	Weir Feeder	None	74-15/16 (1903)	154-11/16 (3929)	75-1/4 (1911)	34 (864)	6500 (2948)
	Weir Feeder	3/20 Cones	80-1/2 (2045)	154-11/16 (3929)	114-7/8 (2918)		10400 (4717)
Dual Pool 628 VE (Vapor Extraction)	Box (TE)	None	74-15/16 (1903)	141-15/16 (3605)	75-1/4 (1911)	45-1/2 (1156)	6900 (3130)
	Box (RE)			151-13/16 (3856)			6700 (3040)
	Box (RE)	3/20 Cones	80-1/2 (2045)	152-7/8 (3883)	114-7/8 (2918)		10800 (4899)
	Weir Feeder	None	74-15/16 (1903)	154-3/8 (3921)	75-1/4 (1911)	34 (864)	6900 (3130)
	Weir Feeder	3/20 Cones	80-1/2 (2045)	154-3/8 (3921)	114-7/8 (2918)		10800 (4899)
Hyperpool	Box Feeder	None	69-5/8 (1768)	101-3/4 (2585)	63-13/16 (1620)	37-5/8 (956)	3600 (1633)
		3/20 Cones	80 (2032)	123-13/16 (3145)	109 (2769)		7300 (3311)
	Weir Feeder	None	69-5/8 (1768)	118-3/16 (3002)	63-13/16 (1620)	36-3/4 (933)	3700 (1678)
		3/20 Cones	80 (2032)	123-13/16 (3145)	109 (2769)		7400 (3357)
	Low Weir Feeder		69-5/8 (1768)	118-1/4 (3003)	61 (1550)	19-15/16 (507)	3700 (1678)
Hyperpool Drying Shaker	None			105-1/16 (2668)	59-1/6 (1500)	30-1/16 (764)	2800 (1270)
Hyperpool VE (Vapor Extraction)	Weir Feeder			120-13/16 (3069)	63-13/16 (1620)	36-3/4 (933)	4000 (1814)
	Box Feeder			101-3/4 (2585)		37-5/16 (948)	
Dual Hyperpool	Integrated Flow Divider	None	157-1/4 (3994)	118-11/16 (3015)		44-5/8 (1133)	9300 (4218)
		3/20 Cones	160 (4064)	124-5/8 (3166)	109-3/16 (2769)		13000 (5897)
Triple Hyperpool	Integrated Flow Divider	None	240 (6096)	118-11/16 (3015)	63-13/16 (1620)		13300 (6033)
		3/20 Cones	242-3/4 (6166)	124-3/16 (3154)	108-7/8 (2766)		17200 (7802)

*TE = Top Exhaust Connection
**RE = Rear Exhaust Connection

WEIGHTS & DIMENSIONS

EQUIPMENT			DIMENSIONS				
Model	**Options**		**Width in (mm)**	**Length in (mm)**	**Height in (mm)**	**Weir Height in (mm)**	**Weight lbs (kg)**
Flo-Line Cleaner 503	Box Feeder	None	68-3/4 (1746)	102 (2591)	74 (1880)	41-7/16 (1052)	3400 (1542)
		3/20 Cones	80 (2032)	125 (3175)	109 (2769)		7300 (3311)
	Weir Feeder	None	64-3/4 (1645)	118-5/16 (3005)	74 (1880)	39-11/16 (1008)	3600 (1633)
		3/20 Cones	80 (2032)	126-5/16 (3208)	109 (2769)		7500 (3402)
	Low Weir Feeder		64-3/4 (1645)	121-3/16 (3078)	74 (1880)	25-3/8 (645)	3600 (1633)
Flo-Line Cleaner 504	Box Feeder	None	68-3/4 (1746)	129-7/16 (3288)	82-1/2 (2096)	41-7/16 (1052)	3800 (1724)
		3/20 Cones	80 (2032)	144-7/16 (3669)	109 (2769)		7800 (3538)
	Weir Feeder	None	64-3/4 (1645)	145-13/16 (3704)	82-1/2 (2096)	39-11/16 (1008)	4000 (1814)
		3/20 Cones	80 (2032)		109 (2769)		8000 (3629)
	Low Weir Feeder		64-3/4 (1645)	148-11/16 (3777)	77-5/16 (1964)	25-3/8 (645)	4100 (1860)
Flo-Line Cleaner 503 Drying Shaker	None		68-3/4 (1746)	102-7/16 (2602)	66-1/2 (1689)	N/A	3100 (1406)
	With 6" Hopper		70-7/8 (1800)		72-1/2 (1841)	Upon Request	Upon Request
	Box Feeder		68-3/4 (1746)	101-3/4 (2584)	66-1/2 (1689)	33-15/16 (862)	3300 (1497)
	Box Feeder – With 6" Hopper		70-7/8 (1800)		72-1/2 (1841)	39-15/16 (1014)	Upon Request
	Weir Feeder		64-3/4 (1645)	118-3/8 (3007)	66-1/2 (1689)	32-3/16 (818)	3500 (1588)
	Weir Feeder – With 6" Hopper		69 (1753)		72-1/2 (1841)	38-3/16 (973)	Upon Request
Flo-Line Cleaner 504 Drying Shaker	None		68-3/4 (1746)	129-7/8 (3299)	75 (1905)	N/A	3400 (1542)
	With 6" Hopper		70-7/8 (1800)		81 (2057)	Upon Request	Upon Request
	Box Feeder		68-3/4 (1746)	129-3/4 (3283)	75 (1905)	33-15/16 (862)	3600 (1633)
	Box Feeder – With 6" Hopper		70-7/8 (1800)		81 (2057)	39-15/16 (1014)	Upon Request
	Weir Feeder		64-3/4 (1645)	145-7/8 (3705)	75 (1905)	32-3/16 (818)	3800 (1724)
	Weir Feeder – With 6" Hopper		69 (1753)		81 (2057)	38-3/16 (973)	Upon Request
Flo-Line Cleaner 513	Box Feeder	None	72-1/4 (1835)	103 (2616)	67-13/16 (1722)	41-7/16 (1053)	4100 (1860)
		3/20 Cones	80 (2032)	125 (3175)	109 (2769)		7900 (3583)
	Weir Feeder	None	72-1/4 (1835)	119 (3023)	67-13/16 (1722)	39-11/16 (1008)	4500 (2042)
		3/20 Cones	80 (2032)	126 (3200)	109 (2769)		8100 (3674)
Flo-Line Cleaner 514	Box Feeder	None	72-1/4 (1835)	129-1/4 (3283)	73-3/16 (1859)	42-3/4 (1086)	4900 (2223)
		3/20 Cones	80 (2032)	144-1/4 (3664)	110-3/8 (2804)		8700 (3946)
	Weir Feeder	None	72-1/4 (1835)	145-1/4 (3689)	73-3/16 (1859)	41 (1041)	5100 (2387)
		3/20 Cones	80 (2032)		110-3/8 (2804)		8900 (4037)
Flo-Line Cleaner 513 VE (Vapor Extraction)	Box Feeder	None	73-5/8 (1870)	103 (2616)	67-11/16 (1719)	41-7/16 (1053)	4600 (2087)
		3/20 Cones	80-1/2 (2045)	125 (3175)	112 (2845)		8200 (3720)
	Weir Feeder	None	73-5/8 (1870)	122 (3099)	67-11/16 (1719)	39-11/16 (1008)	4800 (2178)
		3/20 Cones	80-1/2 (2045)	129 (3277)	112 (2845)		8400 (3810)
Flo-Line Cleaner 514 VE (Vapor Extraction)	Box Feeder	None	72-1/4 (1835)	129-1/4 (3283)	73-3/16 (1859)	42-3/4 (1086)	5100 (2314)
		3/20 Cones	80-1/2 (2045)	144-1/4 (3664)	113-3/8 (2880)		9100 (4128)
	Weir Feeder	None	72-1/4 (1835)	145-1/4 (3689)	73-3/16 (1859)	41 (1041)	5400 (2450)
		3/20 Cones	80-1/2 (2045)	148-1/4 (3766)	113-3/8 (2880)		9300 (4218)

WEIGHTS & DIMENSIONS

EQUIPMENT			DIMENSIONS				
Model	**Options**		**Width in (mm)**	**Length in (mm)**	**Height in (mm)**	**GPM (LPM) at 75 ft. head**	**Weight lbs (kg)**
Vacu-Flo 1200 Degasser	Standard		65-1/8 (1654)	87-3/4 (2229)	73-5/8 (1870)	–	3200 (1451)
ACD-1500 Atmospheric Degasser	Standard		48-11/16 (1237)	58-9/16 (1487)	140-3/8 (3566)	–	3000 (1361)
Desilters	Round	10 Cones	65 (1651)	69 (1753)	63-1/8 (1603)	700 (2650)	2300 (1043)
		12 Cones				840 (3180)	2400 (1089)
		16 Cones	78-9/16 (1995)	80 (2032)	67-1/2 (1715)	1120 (4240)	2500 (1134)
		20 Cones				1400 (5300)	2700 (1225)
	Inline/Vertical	10 Cones	32 (813)	70 (1778)	55-5/16 (1405)	700 (2650)	1000 (454)
		12 Cones				840 (3180)	1100 (499)
		16 Cones		86 (2184)	59-7/16 (1510)	1120 (4240)	1200 (544)
		20 Cones		102 (2591)	63-3/8 (1610)	1400 (5300)	1600 (726)
Desanders	Inline/Vertical	2 Cones	74-1/4 (1886)	39 (991)	89-7/8 (2283)	1000 (3785)	1400 (635)
		3 Cones				1500 (5678)	1500 (680)
	Incline	2 Cones / 25˚	62 (1575)	71-3/4 (1822)	39-7/8 (1013)	1000 (3785)	2000 (907)
		2 Cones / 30˚		68-5/16 (1735)	47-1/2 (1207)		
		2 Cones / 35˚			51-1/16 (1297)		
		3 Cones / 25˚		71-3/4 (1822)	39-7/8 (1013)	1500 (5678)	2100 (953)
		3 Cones / 30˚		68-5/16 (1735)	47-1/2 (1207)		
		3 Cones / 35˚			51-1/16 (1297)		

DESCRIPTION		DIMENSIONS			
Equipment	**Drive System**	**Width in (mm)**	**Height in (mm)**	**Depth in (mm)**	**Weight lbs (kg)**
DE-7200 VFD (Variable Frequency Drive)					
Rotating Assembly	VFD	156 (3958)	45 (1641)[2]	65 (1641)[1]	14000 (6350)
Control Cabinet[1]		70 (1778)	85 (2159)	36 (915)	1940 (880)
DE-1000LP VFD (Variable Frequency Drive)					
DE-1000 LP VFD (Variable Frequency Drive)	VFD, mounted on skid with Rotating Assembly	160 (1389)	50 (1272)[2]	58 (1474)	7600 (3447)
DE-1000 FHD (Full Hydraulic Drive)					
DE-1000 FHD (Full Hydraulic Drive)	Hydraulic motors operated by electrically powered pump	115 (2921)	70 (1778)[2]	75 (1905)	8925 (4048)
DE-1000 LP GBD (Gearbox Drive)					
DE-1000 LP GBD (Gearbox Drive)	Electrically driven gearbox, 52:1 ratio	110 (2794)	66 (1680)[2]	58 (1465)	5200 (2359)

[1] Non-explosion proof
[2] Cover open

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