



DUAL POOL®

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 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
- Abrasion-resistant ultra-long-life urethane panels
- Integral bypass diverts flow directly to primary deck if desired

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
- Optional individual shutoff valve for each 4" hydrocyclone

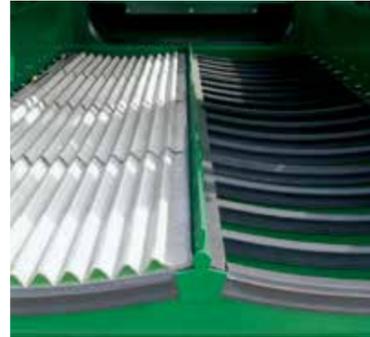
KEY BENEFITS



Scalping Deck

The optional scalping deck provides coarse solids removal, reducing the feed load on the primary deck, resulting in an increased life of primary deck screen panels. The scalping deck increases available API screening area and can be utilized for reclamation of Loss Circulation Material (LCM).

The three-dimensional design allows fluid to pass through the sides while solids convey along the valley. Unobstructed access is provided to the primary deck for inspection, cleaning, and rapid screen replacement. Derrick's long-life urethane screen panels are inherently non-blinding, abrasion-resistant, oil-resistant, and permit fast, easy removal, and installation. Spring compression securely holds down screens and allows for easy screen changes.



Dual Pool Screen Frame

The revolutionary DP 600 shaker provides increased capacity, up to 119% over the FLC 513, without enlarging its footprint. Fluid centering technology maximizes fluid throughput by forcing the feed to the center of each of the two concave screen beds. More API screen area increases capacity, potentially reducing the number of shakers required. Easy to install, oil-resistant bed cushions provide an all-important complete seal with no hardware required.



Actuated Screen Compression System

The DP 600 primary screen panels are secured by a newly designed Actuated Screen Compression System (ASCS) rather than conventional tensioning. No tools are required for fast, easy screen changes. The ASCS drives the center of the screen downward, firmly sealing the screen panel to the screen frame with approximately 2000 lbs. of spring force compressing the screens into a concave shape.

Compression benefits include extended screen life, improved conveyance, elimination of ultra-fine solids bypassing under screen panels, and complete shaker screen changes in less than three minutes. Due to the fail-safe design of the ASCS, the screen will remain in compression even if the 90 PSI air pressure is lost, allowing continued operation. The screens may also be manually released, if necessary, and the lightweight, 18 pound (8 kg), screen panels reduce handling effort, lessening injury potential.

THE REVOLUTIONARY DP 600 SHAKER PROVIDES INCREASED CAPACITY, UP TO 119% OVER THE FLC 513, WITHOUT ENLARGING ITS FOOTPRINT.



HEALTH, SAFETY, & ENVIRONMENT



Vapor Extraction (VE) Covers

The Dual Pool VE shaker and mud cleaner protect operating personnel and surrounding equipment from exposure to potentially hazardous vapors released from process material during the screening process. Hinged covers at the front, middle, and rear of the machine completely cover the screen bed. For personnel safety during screen changes or other maintenance, the VE covers secure latch in the open position.



Vapor Extraction (VE) Hood

A feeder exhaust hood is included on vapor extraction machines. For connecting to air-handling equipment, either a vertical hood is installed on top of the feeder or an exhaust connection is provided. For mud cleaners, an exhaust connection is added to the exhaust port on the side of the desilter collection pan. For optimum vapor extraction, Derrick recommends approximately 2000cfm at the outlet.



Super G3 Vibratory Motors

Two Super G3™ vibratory motors provide industry leading high G performance, meeting North Sea NORSOK sound and vibration specifications. This higher G has proven to dramatically increase liquid/solids separation due to superior conveyance characteristics. The patented Super G3 vibratory motors feature a continuous recirculating (internal) oil lubrication system that provides long-life, reduced repair costs, and robust maintenance free operation. The hydrodynamic cushioning effect created on the bearing surfaces by this lubrication system reduces friction, wear, heat, and sound generation. This advanced design results in a vibratory motor that runs longer and at a significantly reduced level, 74 +/- 4 dBA decibel. Super G3 vibratory motors are 50Hz and 60Hz, and carry a three-year warranty.



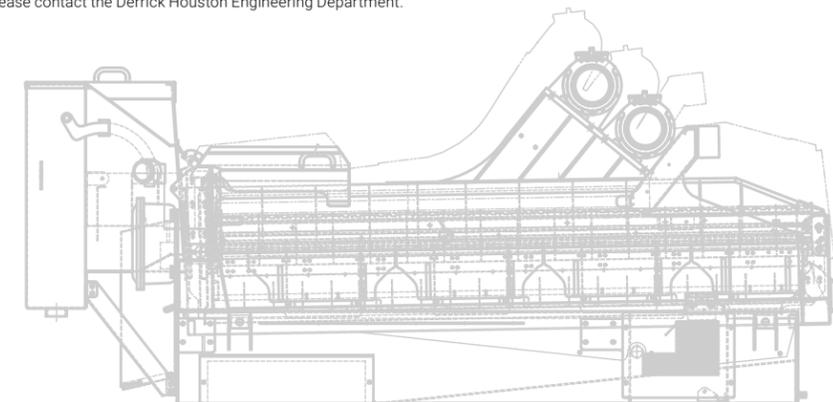
Dual Pool 626 VE

WEIGHTS & DIMENSIONS

EQUIPMENT		DIMENSIONS				
Model	Options	Width in (mm)	Length in (mm)	Height in (mm)	Weir Height in (mm)	Weight lbs (kg)
Dual Pool 616	Box Feeder	74-5/8 (1896)	108 (2743)	73-9/16 (1868)	45-1/2 (1156)	5200 (2359)
Dual Pool 626			126-1/4 (3207)			5700 (2585)
Dual Pool 616	Weir Feeder	74-5/8 (1896)	136-3/16 (3460)	75-1/4 (1911)	45-1/2 (1156)	6000 (2722)
Dual Pool 626			154-3/8 (3922)			6600 (2994)
Dual Pool 618	Box Feeder	74-5/8 (1896)	109-1/2 (2781)	73-9/16 (1868)	45-1/2 (1156)	5700 (2585)
Dual Pool 628			119-5/16 (3031)			9700 (4400)
Dual Pool 618	Weir Feeder	80-1/2 (2045)	127-5/8 (3241)	73-9/16 (1868)	34 (864)	5600 (2540)
Dual Pool 628			132-1/4 (3359)			9500 (4309)
Dual Pool 616	Box (TE)*	None	109-1/2 (2781)	73-9/16 (1868)	45-1/2 (1156)	6000 (2722)
Dual Pool 626			119-5/16 (3031)			10000 (4536)
Dual Pool 616	Box (RE)**	3/20 Cones	80-1/2 (2045)	74-5/8 (1896)	34 (864)	5900 (2676)
Dual Pool 626			125 (3175)			9900 (4491)
Dual Pool 616	Weir Feeder	None	74-5/8 (1896)	73-9/16 (1868)	45-1/2 (1156)	6500 (2948)
Dual Pool 626			80-1/2 (2045)			10400 (4717)
Dual Pool 618	Weir Feeder	3/20 Cones	80-1/2 (2045)	141-15/16 (3605)	75-1/4 (1911)	6500 (2948)
Dual Pool 628			132-1/4 (3359)			10400 (4717)
Dual Pool 618	Box (TE)	None	74-5/8 (1896)	151-13/16 (3856)	45-1/2 (1156)	6900 (3130)
Dual Pool 628			80-1/2 (2045)			10800 (4899)
Dual Pool 618	Box (RE)	3/20 Cones	80-1/2 (2045)	154-11/16 (3929)	75-1/4 (1911)	6900 (3130)
Dual Pool 628			152-7/8 (3883)			10800 (4899)
Dual Pool 618	Weir Feeder	None	74-5/8 (1896)	154-11/16 (3929)	34 (864)	6900 (3130)
Dual Pool 628			80-1/2 (2045)			10800 (4899)
Dual Pool 618	Weir Feeder	3/20 Cones	80-1/2 (2045)	141-15/16 (3605)	75-1/4 (1911)	6900 (3130)
Dual Pool 628			154-3/8 (3922)			10800 (4899)

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

All photographs and specifications in this publication are for general information only and are based on the latest product information available at the time of initial publication. Derrick Corporation reserves the right to change its product offering at any time without prior notice. Any reliance on any information on this publication shall be at user's own risk. For additional information, please contact the Derrick Houston Engineering Department.





The Derrick Family is a community comprised of thousands of individuals in countries around the globe. We share a collective interest in **Community Enrichment** through our avid support of industry associations and charitable organizations. Aware of our worldwide impact, we support the recovery of natural resources in the most energy-efficient manner, placing vital importance on **Global Sustainability**. Our **Award-Winning Service** department works around-the-clock to provide unparalleled support to customers around the world.

Our pioneering spirit is best demonstrated by our long-term commitment to **Continuous Innovation** which drives manufacturing of our **Leading-Edge Solutions**. Clients partner with us to overcome their most difficult fine-separation challenges and we deliver with our team of **World-Class Technologists**, many of whom have been with us for well over two decades. Our vertically integrated approach ensures product dependability and reinforces our **Quality Commitment**.

We are a **Global Family** focused on **Pioneering Technology**.



**GLOBAL FAMILY.
PIONEERING TECHNOLOGY.™**

15630 Export Plaza Drive
Houston, Texas 77032 U.S.A.
Office: (281) 590-3003
Toll Free: (866) DERRICK
Fax: (281) 590-6187
Email: info@derrick.com
www.Derrick.com