

**DERRICK**<sup>®</sup>  
EQUIPMENT COMPANY

**DUAL POOL**  
DERRICK DP 600 SHAKER<sup>®</sup>



powered by  
**SUPER**  
**G<sup>3</sup>**  
TM

## DUAL POOL 600 SERIES SHAKER

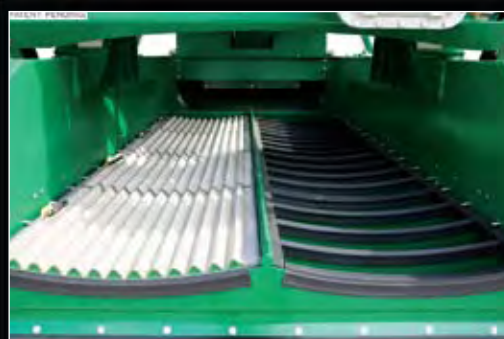
Derrick Equipment Company continues to lead the way in solids control technology with the introduction of the high G-force **Dual Pool 600 Series Shaker**. The modular DP 600™ incorporates numerous patent pending technological advancements designed to meet and exceed the evolving needs of the drilling industry. An innovative dual concave screen frame, increased fluid-handling capacity, a newly designed screen compression system and an optional scalping deck combine to provide a new standard in screening equipment.

### 1 SCALPING DECK (On 626 & 628 models)



- Effective removal of coarse material
- Allows full view of lower deck while operating
- Lower deck screen changes without removing scalping panels
- Abrasion-resistant urethane panels
- Integral bypass diverts flow directly to primary deck if desired

### 2 DUAL POOL SCREEN FRAME



- Increased efficiency in a small footprint
- Innovative Dual Pool design increases capacity
- DP616/618 offers 17% more API RP 13C screen area
- DP626/628 offers 65% more API RP 13C screen area
- All bed material compression fit – no hardware required

## DUAL POOL DERRICK DP 600 SHAKER

### 3 ACTUATED SCREEN COMPRESSION SYSTEM



- Ultra-positive screen sealing
- 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



**DUAL POOL 628**  
(With Optional Scalping Deck and Mud Cleaner Package)

### 4 HYDRAULIC DECK ANGLE

- Fast, infinite adjustment from +1° to +7°
- Permits optimal shaker performance
- Front-mounted controls (may be remotely mounted, if desired)
- All stainless steel fittings

### 5 UNDERFLOW HOPPER

- Mounting provisions for cone packages
- Low overall front height prevents splashing
- Steep, 9° sloped floor facilitates clean mud flow to rear discharge openings

### 9 DESILTERS (Optional)

- Accommodates up to twenty 3" or 4" hydrocyclones
- 4" cones rated at 80 GPM each
- Shutoff valves on each cone inlet permit individual cone removal and inspection without interrupting operation of the desilter

### 8 DESANDERS (Optional)

- Accommodates up to three 10" desander cones
- Each 10" cone rated at 500 GPM

### 7 VIBRATING MOTORS

- Dual Super G3™ vibrating motors
- Industry leading high G performance
- Internal oil bath lubrication system
- Low 78 dBA sound production
- Three-year warranty
- CE/ATEX approved

### 6 FEED SYSTEMS

- Low weir feeder offers 34" weir height
- Top feeder reduces length for limited space installations
- Scalping deck bypass standard on both configurations

## DUAL POOL 600 SERIES FEATURES

### 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 (patent pending) 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 514, 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 via a newly designed Actuated Screen Compression System (ASCS) rather than conventional tensioning. 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.

### SUPER G3™ VIBRATING MOTORS

Two Super G3 vibrating motors provide industry leading high G performance. This higher G-force has proven to dramatically increase liquid/solids separation due to superior conveyance characteristics. The patented Super G3 vibrating motors feature a continuous internal oil bath 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 motor that runs longer and at a significantly reduced decibel level (78 dBA). Super G3 vibrating motors are 60 Hz and carry a three-year warranty.

## SHAKER FLOW RATES WITH PMD A-140 SCREENS

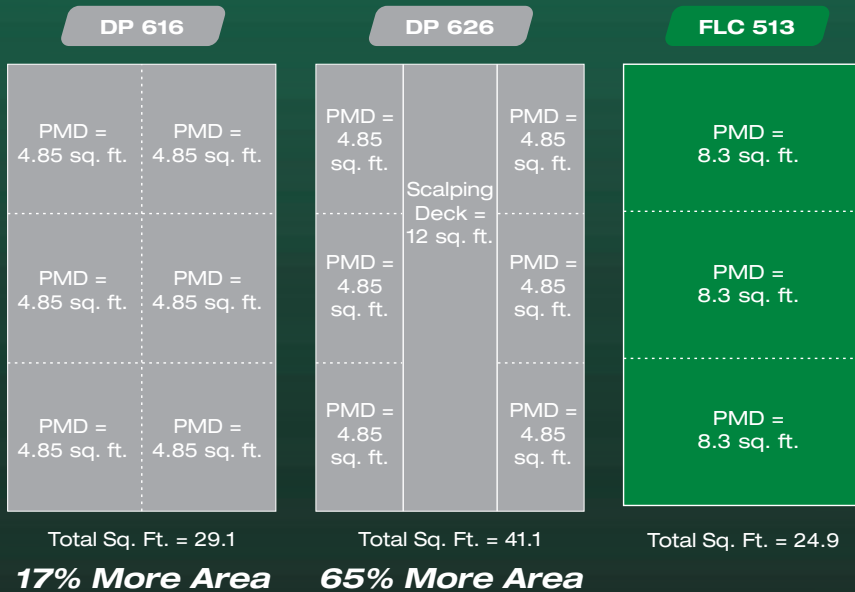


## DUAL POOL 600 SERIES FEATURES

### API RP 13C (ISO 13501) SCREEN AREA

All Derrick screens offer cut point integrity and are API RP 13C (ISO 13501) compliant, the new industry standard for physical testing and labeling of shaker screens. Installation of the light-weight DP 600 Pyramid screens permits the use of finer mesh sizes at higher capacities, further optimizing the performance of the Dual Pool shaker.

### AVAILABLE API RP 13C NON-BLANKED SCREEN AREA



### HYDRAULIC ADJUSTABLE WHILE DRILLING (AWD)

The hydraulically operated AWD raises and lowers the shaker's deck angle through an adjustment range of +1° to +7°. The controls can be installed at either a local or remote location. When locally mounted, the controls are conveniently located at the front of the shaker. As drilling rates, formations, and mud properties change, adjusting the screen deck angle achieves the proper solids conveyance and fluid end point. The results are increased capacity, longer screen life, and optimal solids removal efficiency.

### DUAL POOL OPTIONS

**DESILTER/DESANDER** - For use as a mud cleaner, the DP 600 is available with an optional desilter and/or desander installed. Up to twenty 3" or 4" hydrocyclones may be installed on the round desilter manifold, and the desander can hold one, two, or three 10" desander cones.

**VAPOR EXTRACTION (VE™)** - To avoid exposing personnel and the surrounding area to potentially harmful vapors, the DP 600 screening surface can be covered with self-locking hoods. An exhaust fan may be attached to the feeder to draw away process vapors and create a continuous flow of fresh ambient air into the machine. Lifting of the hoods permits full access to the screen bed for screening surface inspection, panel changing, and maintenance.

## DUAL POOL DIMENSIONS

EQUIPMENT		DIMENSIONS* (IN / MM)				WEIGHT*
Model	Options	Width	Length	Height	Weir Height	LBS / KG
DP 616 DP 626	Weir Feeder	74 5/8 / 1895	126 1/4 / 3207	73 9/16 / 1868	34 / 864	5,405 / 2452 5,704 / 2587
DP 618 DP 628	Weir Feeder	74 5/8 / 1895	154 1/2 / 3924	75 1/4 / 1911	34 / 864	6,095 / 2765 6,530 / 2962
DP 616 DP 626	Box Feeder	79 / 2007	107 7/8 / 2740	73 9/16 / 1868	45 1/2 / 1156	5,207 / 2362 5,508 / 2498
DP 618 DP 628	Box Feeder	79 / 2007	136 1/8 / 3458	75 1/4 / 1911	45 1/2 / 1156	5,899 / 2676 6,334 / 2873
DP 616	Desilters	80 / 2032	WF* 126 1/4 / 3207 BF* 119 / 3023	109 / 2769 VE* 115 / 2921	WF 34 / 864 BF 45 1/2 / 1156	WF 8,293 / 3762 BF 8,095 / 3672
DP 626	Desilters	80 / 2032	WF 126 1/4 / 3207 BF 119 / 3023	109 / 2769 VE 115 / 2921	WF 34 / 864 BF 45 1/2 / 1156	WF 8,592 / 3897 BF 8,396 / 3808
DP 618	Desilters	80 / 2032	WF 154 1/2 / 3924 BF 147 1/4 / 3740	109 / 2769 VE 115 / 2921	WF 34 / 864 BF 45 1/2 / 1156	WF 8,983 / 4075 BF 8,787 / 3986
DP 628	Desilters	80 / 2032	WF 154 1/2 / 3924 BF 147 1/4 / 3740	109 / 2769 VE 115 / 2921	WF 34 / 864 BF 45 1/2 / 1156	WF 9,418 / 4272 BF 9,222 / 4183
DP 616	Desanders and Desilters	80 / 2032	WF 132 1/4 / 3359 BF 125 / 3175	114 7/8 / 2918 VE 115 / 2921	WF 34 / 864 BF 45 1/2 / 1156	WF 9,313 / 4224 BF 9,115 / 4134
DP 626	Desanders and Desilters	80 / 2032	WF 132 1/4 / 3359 BF 125 / 3175	114 7/8 / 2918 VE 115 / 2921	WF 34 / 864 BF 45 1/2 / 1156	WF 9,612 / 4360 BF 9,416 / 4271
DP 618	Desanders and Desilters	80 / 2032	WF 154 1/2 / 3924 BF 147 1/4 / 3740	114 7/8 / 2918 VE 115 / 2921	WF 34 / 864 BF 45 1/2 / 1156	WF 10,003 / 4537 BF 9,807 / 4448
DP 628	Desanders and Desilters	80 / 2032	WF 154 1/2 / 3924 BF 147 1/4 / 3740	114 7/8 / 2918 VE 115 / 2921	WF 34 / 864 BF 45 1/2 / 1156	WF 10,438 / 4735 BF 10,242 / 4646

\*VE™ option: add approximately 234 lbs. / 106 Kg on the DP 616/626, and approximately 246 lbs. / 112 Kg on the DP 618/628

**DUAL POOL 626 VE™**  
(With Optional Scalping Deck  
and Vacuum Extraction)



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