Oilfield Screens

Setting the bar in Solids Control
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Composite screens consist generally of a glass fiber filled, polypropylene frame in addition to a high strength steel internal reinforcing structure. Using a patented process, one to three layers of stainless steel wire cloth are melted directly into the surface of the polymeric frame. Both the composite design and production process are M-I SWACO patented. This exclusive technology has been used successfully in the industry for both OEM and replacement screens and has established proven and respected prominence.

Oilfield Screens: Wide range of screen technologies that optimize solids control efficiency, cut costs

With more than 30 years experience in solids control and drilling waste management, it is only natural that M-I SWACO would introduce our patented composite frame technology to the industry. DURAFLO™ composite screens were developed by United Wire/M-I SWACO as an alternative to metal framed shale shaker screens being offered as an industry standard.
Composite OEM and Replacement Screens

Features
- OEM composite screens for M-I SWACO BEM† Series, MONGOOSE† Series, MEERKAT PT† and MD† Series Shale Shakers
- Replacement composite screens available for NOV /Brandt, Derrick and Axiom brand shakers
- Patented, composite frame design
- Smaller, more numerous panels
- Increased usable area vs. traditional screens
- Weighs on average 40% less than traditional metal back screens for higher shaker G-forces
- Higher throughput capacity
- Significantly longer operational life
- Flat panel for efficient solids conveyance and transport mechanisms
- Exclusive SNAP-LOK† plug-repair system

Benefits
- Screen resists corrosion and delamination that can shorten metal-frame screen life
- Consistent manufacturing, rugged construction
- Increased operational life
- Lower screen replacement costs
- Quick and easy to repair
- Less downtime
- Improved solids control efficiency
- Enhanced QHSE profile

M-I SWACO, a Schlumberger company, offers a comprehensive suite of OEM and replacement shaker screens that combine multiple mesh sizes with our patented composite frame technology to provide higher throughput and longer life. Available for M-I SWACO, Derrick, Brandt/NOV, and other shaker brands, the exclusive line of long-lasting composite screens optimizes solids control efficiency to reduce costs and waste volumes, regardless of the targeted formations and drilling applications.

M-I SWACO composite screen technology effectively eliminates trade-offs that often come with selecting the most efficient mesh for target applications, only to have it mounted on a substandard frame. The end result is shorter life, higher replacement costs and reduced capacity.

Our ultra-durable, API-compliant composite screens are available in a broad range of mesh grades, including the patented XR† mesh, which can be matched to meet the distinct solids control challenges of different formation types.

By combining a wide variety of mesh sizes with composite screen technology, M-I SWACO provides operators the flexibility of selecting the most cost-effective mesh for the specific application without having to compromise screen life and higher throughput capacity. Precisely matching the mesh to the formation enhances separation, reducing both the drilling waste volumes and costs.

Maintaining drilling fluids quality is critical to drilling performance and to safeguarding well integrity and productivity. The capacity and separation efficiency of the solids control equipment is critical to this process.

In addition to drilling performance and quality, operators and drilling contractors are also under increased pressure to reduce costs and improve profitability, in a market with increasing fluids costs, and waste disposal restrictions and costs. These demands intensify with offshore operations. Screens are highly-consumable so extending screen life can with the use of composite technology proves to be significant in reducing costs and improving overall profitability.
DURAFLO Composite OEM, replacement screens

The DURAFLO line of composite OEM and replacement screens is regarded as step-change advancement in shaker screen technology.

The extremely durable DURAFLO composite screens evolved from M-I SWACO HI-FLO† screen technology that was the first to use a grid made from a composite of high-strength plastic and glass, reinforced with high-tensile-strength steel rods. DURAFLO composite screens represent the next generation, delivering even longer screen life and greater ease in making repairs than either HI-FLO screens or conventional metal-frame screens.

In addition, OEM and replacement DURAFLO composite screens are available with HC†, XL† and XR Mesh, providing operators sizing flexibility along with a longer lasting, higher capacity and overall more cost effective screen than metal-framed and other conventional products.

DURAFLO composite screen technology effectively eliminates the inherent performance-limiting problems of conventional metal frames, including rusting, delamination, heavier and reduced processing area. The functional life of DURAFLO composite screens have been shown to be as much as twice that of those mounted on metal frames with appreciably higher throughput capacity.

**The technology behind the advanced DURAFLO Composite OEM and Replacement Screens**

M-I SWACO DURAFLO composite screens are generally comprised of a glass fiber-filled, polypropylene frame bolstered with an internal high-strength steel reinforcing structure. Using a patented process, one to three layers of stainless steel wire cloth are bonded directly to the composite frame by melting the cloth precisely to the top surface of the polymer frame. M-I SWACO holds patents for both the composite design and production process.

**Longer Screen Life**

The composite frame design encompasses the “window pane” effect of incorporating an increased number of smaller panels, thereby evenly distributing mechanical stresses and containing mesh damage to small localized areas. As DURAFLO composite screens are not conducive to rusting, they can be used, stored and re-used on future wells.

**Reduced Screen Weight**

DURAFLO composite screens weigh about the same as our first generation composite, HI-FLO screens. However, it weighs up to 40% less than traditional metal framed screens. Lower screen weight, in turn, enhances shaker G-force.

**Easy, Fast Screen Repair**

The patented SNAP-LOK† plug-repair system is available on DURAFLO composite screens for the M-I SWACO BEM-650† shale shaker and NOV Brandt VSM 300 shakers. The innovative SNAP-LOK plug-repair system reduces screen repair time to less than two minutes, reducing the rig time for shaker maintenance and service. With the SNAP-LOK plug-repair system, repair is a simple matter of removing the screen from the shaker and snapping in a factory-made plug. The system eliminates the need for removing the damaged mesh and requires no cutting, gluing or bonding time.
The anatomy of the three-layer DURAFLO composite screen

DURAFLO composite screen frames consist of a high strength plastic and glass composite material that is reinforced with high-tensile strength steel rods.

- Exclusively patented by M-I SWACO (U.S. Patent # 6,675,975)
- First major platform advancement in oilfield screens industry
- Polypropylene frame molded around an internal steel cage
- Each layer of mesh is tensioned individually and precisely
- Co-molded Gasket Design
Variety of screen mesh types available

With the DURAFLO frame as a solid base, M-I SWACO offers four different mesh types, allowing operators to choose the most efficient mesh type for the job without sacrificing durability and fluid processing capacity.

**MG (Market Grade)**
MG is our most basic mesh type, featuring a single layer cloth with heavy wire diameter and square openings. Because of the durable, heavy wire diameter, this mesh type is mainly used as scalping screens and provides excellent screen life.

**HC mesh type features fine wires with rectangular openings.**
The two fine screening layers over a support cloth provides superior performance in blinding applications and yields excellent capacity with screen life equal to XL mesh. While the fine wire diameter provides excellent capacity, this mesh type has shorter screen life and lower separation efficiency compared to our other mesh types.

**Ultra-Fine (XL) screen**
The Ultra-Fine (XL) screen has been specifically designed to cope with drilling sandstone formations, which typically present blinding problems using standard screen mesh types. Our XL mesh features two fine screening layers with a support mesh having square openings of medium wire diameter for improved capacity, screen life, and blinding resistance compared to standard mesh.

**Patented XR mesh**
Rectangular openings, 50% larger diameter wire combined with our patented cloth calendaring design gives XR mesh excellent capacity and the longest screen life in the industry. XR mesh coupled with DURAFLO composite screen technology allows best in class fluid-handling capacity. This high conductance results in reduced mesh loading when compared to traditional mesh types.
As the industry’s solids control leader, M-I SWACO is committed to providing the highest-quality products and services. All screens supplied by M-I SWACO manufacturing facilities conform to API RP 13C, the internationally standardized and recommended practice for testing and labeling of shale shaker screens. The American Petroleum Institute (API) standard RP 13C describes and defines, without bias, the maximum screen opening sizes and flow potential in a reproducible, consistent manner without predicting performance. Our screen offerings are API compliant, and sealed with the integrity of our extensive research and development testing program and dedicated engineering staff. Each screen and screen box is labeled with the API designation, the d₁₀₀ micron cut point, conductance, and non-blanked area according to API RP 13C. Consequently, every M-I SWACO composite screen comes with verified assurance that they are:

- API compliant
- API RP 13C test results via an independent lab
- Continuously confirmed and verified by our in-house Engineering Department
- Manufactured with the most advanced raw materials available, ensuring no compromise in quality

**Cut Point Testing (d₁₀₀)**

Our composite screens undergo the standardized API RP 13C dry aluminum oxide sieve method that correlates particle sizes with ASTM test sieves to define the maximum particle size (d₁₀₀) cut points. These cut points are denoted with an equivalent API number. The test defines the cut point as the particle size in which 100% of the particles larger than the d₁₀₀ separation are retained by the test screen. This test is not a performance indicator, but rather is a way to characterize openings of the screen mesh.

**Conductance**

Standardized conductance testing under API RP 13C is determined by measuring the flow rate of oil through a section of screen. The test is used to determine the ability of a fluid to flow through a screen at a pre-determined pressure drop, which is measured in kilodarcy per millimeter (kD/mm). A higher conductance value means fluid will pass through the screen more easily than a screen having a lower conductance value. The calculated value is analogous to permeability per unit thickness.

**Screen efficiency testing**

As the API RP 13C results simply characterize screen openings, rather than indicate screen performance, M-I SWACO went beyond the standardized tests to reflect actual field conditions. Specifically, in field operations, operators must process wet cuttings that differ in size, shape and other properties from well to well. Accordingly, these real-world conditions vary significantly from the API test method of sifting dry aluminum oxide for 10 min. Where the API procedure uses dry aluminum oxide with a 10-min residence time on a Ro-Tap sieve shaker, the M-I SWACO screen-efficiency test data is derived through use of a MONGOOSE PT shale shaker with full-size screens and solids laden water based mud.

The labeling system on both DURAFLO composite screens and boxes makes screen identification trouble free. The labels have been laminated with a heat- and oil-resistant coating, making it easy to identify screen size, mesh size and API data, even after prolonged use.

**API Standard Screen Labeling**

API RP 13C encourages industry compliance to international standards by requiring a permanent tag or label be applied to the screen that is visible, legible and follows established guidelines. All of our screens are API Compliant. The part numbers are simply part numbers and have no reference to screen cut point.

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Oilfield Screens: Composite Screens

DURAFLIO Composite OEM Screens for MONGOOSE PRO, MONGOOSE PT & MEERKAT Shakers

For MONGOOSE series shakers
DURAFLIO composite screens for the MONGOOSE Series Shakers (including MEERKAT PT) features unique wedge mechanism for screen locking. The composite construction combined with the efficient and easy locking mechanism eliminates solids bypass which give way to costly required fluid dilutions. In addition, it allows easy screen removal, repair, or replacement.

Field Proven Results
Recent field trials showed that the new M-I SWACO MONGOOSE pre-tensioned screens on composite frames help reduce operating costs and provide superior performance, greater reliability and longer screen life.

An operator in Russia set a goal to reduce overall operational cost through sustained high performance and extended shaker screen life. Two MONGOOSE PT™ Shakers and one MONGOOSE PT Mud Cleaner were installed on the rig with an onsite team of solids control and drilling fluid engineers performing a detailed screen life-consumption monitoring test on one well. The screens were also selected to meet operational needs for drilled solids removal and commercial solids retention and cleaning, inspection, repair and reuse.

Sustained High Performance
The project challenge was to provide shaker screens that delivered sustained high performance (solids separation, fluid handling capacity, minimized bypass and minimum whole fluid discharge), improved drilling performance (fluid specifications maintenance, optimum rheological values, high rate of penetration and borehole stability) and offered extended life. The ultimate goal was to reduce overall operational cost from drilling fluid dilution and consumption.

Exceptional Screen Life
The M-I SWACO screens showed exceptionally good screen life, keeping mud properties on a predetermined level. No screen change or condition affected solids-control efficiency or rig-down time for the entire test period. Tested screens showed perfect solids-control efficiency, blinding resistance and durability. Drilled solids content in the fluids was maintained at the level required by the client. Screen life of some of the models exceeded expectations.

Significantly Reduced Costs
Superior fluid handling and solids-removal capacity characteristic to these screens resulted in overall increased solids control efficiency and achieved a 15 percent reduction in the cost of drilling fluid chemicals per well. The test showed very good performance and reliability of M-I SWACO screens. Mud properties were kept on a predetermined level without any delays, time gaps and deviations. Screens showed exceptionally good screen life. Long screen life means less overall project cost for the customer.

As a result of the net economic benefit and outstanding screen performance, the operator changed the contracting strategy and increased the number of rental projects for the year by 30 percent.
DURAFLLO Composite OEM Screens for MD-2 Dual-Deck & MD-3 Triple-Deck Shakers

For MD series shakers

The MD Shakers and Screens were designed in tandem, to take full advantage of the technology available through the use of composite materials, while maximizing shaker performance.

The DURAFLLO composite screens for MD Series Shakers feature a novel self-latching design that maintains screen-to-screen seal. This allows screens to be removed as a unit instead of individually, with no tools required.

Field Proven Results

The MD-3’ triple-deck shale shaker has proven its superiority in its first field test onshore in the Middle East. The overall performance of the MD-3 shale shakers during the comparative field trial effectively validated its operational and economic advantages over three competing shakers. MD-3 shale shaker performance was enhanced by DURAFLLO composite screen technology that allows for changes in deck angle and motion selection that improve efficiency.

The test compared flow handling capacity of the MD-3 shale shaker to the rig’s previous shakers. During the trial in the 12 ¼ in interval, a single MD-3 shale shaker was able to efficiently and effectively handle the entire circulating volume with the same or higher API designation screen used on the three previous shakers.

Superior Screen Life

Two MD-3 shale shakers replaced the three non M-I SWACO shakers in a comparison of flow handling capacity, solids handling and conveyance capacity, and screen life. During the duration of the 16,568 ft (5,050 m) well, the MD-3 shale shakers utilized six different screen sizes on the primary decks, ranging from API 70 (120 XR) to API 140 (230XR) and were tested for various lengths of time to compare capacity, OOC% and screen life.

There were 2,799 bbls (445 m³) of drill cuttings removed from the well (considering 0% washout). Counting the four scrapped screens and the 36 screens on the shakers at completions, only 40 total screens were consumed. Past screen consumption from similar exploration wells was 115 screens per well for the three rig shakers.

Superior Cuttings Performance

The MD-3 shale shaker DURAFLLO composite screen, on average, processed 287% more cuttings before being defined as “consumed.” Total planned well time was 162 days. Once the shakers were installed, the time needed to complete the well was only 125.75 days, a savings of 36.25 days, or 78 percent compared to plan.

The ability to process the full planned flow rate with the MD-3 shakers installed was extremely beneficial. At the start of the 12 ¼ in interval, a single MD-3 shaker processed the entire circulating volume with ROP rates from 50 – 197 ft/hr (15 – 60 m/hr) and flow rates of 872 – 925 gpm (3,300 – 3,500 lpm) while utilizing API 120 (200 XR) DURAFLLO composite screens. While utilizing the MD-3 shaker and the generously available screening area for the well, the rig did not experience any whole mud losses due to screens overflowing.
M-I SWACO offers a unique urethane screen for use on MD Series Shakers, for use in heavy clay and gumbo formations when high-solids loading is the rule rather than the exception.

Urethane screens shakers have narrow slotted openings with a tapered cross section. Two opening sizes are available: .8 x 118 mm, which has a similar cut point as a 20 mesh market grade screen, and 2.5 x 118 mm, which is similar to an 8 mesh market grade screen. The rectangular openings and tapered cross section of the opening improves blinding resistance over standard square mesh scalping screens.

The smooth top surface of the urethane screens transports gumbo and sticky clay formations off of the scalping deck. On typical scaling screens, gumbo and sticky clay embed into the coarse, single layer of woven wire cloth, preventing good solids conveyance off of the screens. Gumbo can build up in large pats that eventually cause the loss of whole mud off of the shaker.

In field tests, the urethane screens proved very effective in handling solids in these formations. Urethane is used in many industrial applications to resist abrasive wear. Urethane scaling screens fully utilize these wear resistant properties in the abrasive environment of the shale shaker, resulting in a screen that can last several times longer than standard scalping screens. Each urethane screen has a high strength reinforcing cage that is molded into the screen, efficiently transferring the vibratory energy from the shaker to the screen surface. Push-and-lock latches are located on the ends of the screens to make screen changes easy without the use of any tools. Urethane screens should only be used in water based drilling fluids. Some oil based fluids can cause the urethane to swell and will shorten screen life.

Field Proven Results
Recent testing on a South Louisiana well in a difficult 20” top-hole section and in the 14.75” intermediate section proved the efficiency of urethane screen technology in problematic formations. The MD-3 shale shaker scalping deck utilized urethane screens to efficiently discard large volumes of sticky gumbo thereby freeing up the lower decks to process the undesirable fines and low gravity solids. During the 20” top-hole section, which consisted primarily of gumbo and sand formations, the MD-3 shale shaker, equipped with .8 mm slotted opening urethane screens on the scalping deck and HC 84 mesh (API 60) screens on the two primary decks was able to process a maximum of 840 GPM during the 20” interval which was more than the combined processing rate of the existing three rig owned shakers. During the 14.75” intermediate section, the MD-3 shale shaker averaged a fluid processing rate of 700 GPM with a maximum processing rate of 850 GPM while equipped with .8 mm urethane screens on the scalping deck and HC 200 mesh (API 100) screens on the two primary decks. The MD-3 shale shaker urethane scaling screens were very efficient at removing gumbo and exhibited minimal to no wear after 548 hours of processing time.

Features & Benefits
- Choice of two opening sizes, 0.8 mm or 2.5 mm
- Small screen size: 61 x 66 cm
- Patent-pending self-latching feature
- Smooth top surface
- Internal steel reinforcing structure
- Effective scalping of sticky clay
- Easy to handle and install
- Reduced downtime resulting from easy screen removal
Oilfield Screens: Composite Screens

DURAFLO Composite OEM Screens for BEM-600 & BEM-650 Shakers

For BEM series shakers

The DURAFLO OEM composite screen for M-I SWACO BEM-600† and BEM-650 shale shakers takes the best screen and matches it to the best balanced elliptical motion shakers on the market. Featuring a patented, composite frame design that holds up under virtually all drilling conditions, the screen delivers unsurpassed usable screen area.

Field Proven Results

As part of a major upgrade package for an offshore PEMEX rig in Ciudad del Carmen, Mexico. Then rig was fitted with two BEM-650 elliptical motion shakers. The rig drilled through predominately sticky shales using a 13 lb/gal invert emulsion drilling fluid, with high ROP’s. The performance of the shakers were monitored closely by both M-I SWACO fluids engineers and Environmental Solutions technicians throughout the campaign to assess performance in comparison to the previous shaker package. Our DURAFLO composite screens were recommended in mesh sizes 40 to 165, having equivalent API’s of 40 to 140.

Enhanced Screen Life = Reduced Costs

Recorded data showed screen service life of 400 hours using 120 mesh screens, while drilling through sticky shale and handling flow capacity of 600 gal/min. Historical rig data showed DURAFLO composite screens technology allowed the rig to screen the finest without massive fluid loss when compared to other shaker screen packages. The BEM-650, equipped with DURAFLO composite screens proved to be exceptional and eliminated the use of mud cleaners and other equipment = $$ savings for the customer. In addition, it was noted that no screen blinding was observed when drilling through the sticky clay formation, giving way to increased screen life compared to historical data.

Features & Benefits

- Patented, composite frame design
- Smaller, more numerous panels consistent open area= 5.4 sq. ft
- Resistant to fluids that shorten metal frame-screen life
- Consistently manufactured, rugged construction
- Increased operational life
- Lower screen-replacement costs
- Quick and easy to repair
- Less downtime
- Does not rust or delaminate
- Improved QHSE considerations

High Fluid Recovery

For consistent solids conveyance, BEM-650 DURAFLO composite screens include individually pre-tensioned mesh, which is incorporated into the composite frame. As a result, it was noted that solids were +70% drier compared to historical well data, equating to additional operator savings from the recovery of costly drilling fluid.

Reduced NPT

During operation, rig personnel observed and commented on the convenience of the screen clamping system, which allowed screen changes in less than 3 minutes, reducing NPT for additional reduction in operational costs.
DURAFLO Composite Replacement Screens for Derrick™ FLC 500 Series Shakers

**For Derrick D500 shale shakers**

Our newest innovation in our composite technology replacement screen offering is the D500-C flat-panel replacement, designed to fit Derrick™ FLC 500 brand shakers while eliminating the “horse-shoe” effect. The OEM, corrugated screen design promotes solids build up in troughs, giving way to excessive wear and must be run at elevated deck levels to utilize the additional screening area of peaks. Increased deck angles result in reduced screen life due to poor solids conveyance.

Our solution is the D500-C flat-panel replacement design featuring our patented, lightweight composite frame with glass filling and internal steel reinforcement structure designed to stay flat and parallel to the shaker bed, eliminating the horse-shoe effect which leads to increased dry beach, pre-mature screen wear, and screen blinding.

**Field Proven Results**

Recent field trials showed the D500-C flat-panel replacement screen to be superior in screen life and performance efficiency. Given the nature of the drilled formation, we recommended an API 140 version of our patented D500-C flat-panel replacement screens in XR mesh. Testing proved the D500-C flat-panel replacement screens are able to match the handling capacity of the competitor’s corrugated screen with better liquid returns quality, further highlighting the flat panel design benefit. Even more, the D500-C flat-panel replacement screen decreased “dry beach” and “horseshoeing” phenomenon’s which promote premature screen blinding.

**Flat Panel Design Eliminates the “Horseshoe” Effect**

The competitor’s OEM Shaker features a crowned deck to keep screens from flexing under fluid load. However, this design results in reduced fluid handling and whole mud losses via bypass along the sides of the shaker bed. Additionally, shakers must be run at high deck angles to take full advantage of screening area, causing undue damage and costly repairs to shaker beds. Our lightweight, flat panel, composite technology eliminates the effects of having a crowned deck and resulting horseshoe phenomenon.

**Screen Life**

The D500-C flat-panel replacement screens proved more than capable of handling the 8 ¾” drilled section in Southwest Oklahoma. It was observed that the M-I SWACO D500-C flat-panel replacement screen showed greater resistance to screen mesh wear and gasket life vs. the OEM corrugated design. In addition,

**Features**

- High flat usable area to increase fluids handling capacity
- Effective and continuous cuttings contact to maintain fluid quality and reduce haul-off costs
- Eliminates horse-shoe effect while maximizing usable non-blanked area using the flat panel design
- Co-molded gasket to negate solids by-pass near the sealing mechanism
- Integrated handle design for easy handling, quick installations & change outs
- Increased Screen Life (no rust, corrosion, adhesives)
- Improved Solids Conveyance
- Lightweight for enhanced shaker G’s

our composite flat panel showed superior screen life, reducing screen replacements by 60% after 30 days of production vs. the competitor.

*Derrick and FLC 500 are marks of Derrick Corporation.*
Oilfield Screens: Composite Screens

DURAFLO Composite Replacement Screens for Brandt® VSM 300 Shakers

For Brandt VSM 300 shale shakers

The new and improved DURAFLO composite replacement screen to fit the Brandt VSM 300® brand shaker takes the best screen for this shale shaker to the next level of performance. This screen uses a new frame design that features several improvements over original DURAFLO composite screens. It is lighter, more easily repaired, promotes longer screen life and is easier to remove. DURAFLO composite screens are available with TBC, Ultra-Fine (XL) and XR MESH, giving operators screening flexibility in addition to an overall-improved product.

Field Proven Results

Performance Superiority

The M-I SWACO VSM 300 DURAFLO composite flat panel screen has proven its superiority to a competitor’s metal back screens, demonstrating drastically reduced screen consumption and planned rig time while processing almost three times the drill cuttings for a drilling contractor in Oman.

In a move to improve efficiency and decrease operating and maintenance costs, the drilling contractor entrusted M-I SWACO to compare the performance efficiency of a competitor’s metal back screen to the VSM 300 Composite flat panel screen. The selected platform included two VSM 300 rig-owned shale shakers from NOV/Brandt.

VSAT Assessment

After visual inspection, M-I SWACO ran a comprehensive motion analysis test on both shakers using the VIBRATORY SYSTEMS ANALYSIS TESTING® (VSAT®) computerized application to assess shaker performance and allow shaker specifications to be bench marked and normalized for fair, unbiased screen comparison.

Given the nature of the drilled formation, the M-I SWACO benchmark study utilized API 140 to API 170 screen versions of the company’s patented 200-230 XR mesh screens with the same API designation.

Reduced Screen Consumption

The VSM 300 outperformed the competitor’s screen in flow capacity, solids discard rate, screen efficiency, and screen life. The VSM 300 showed overall superior screen life with a failure rate of less than 3 percent. Only four out of 151 screens were replaced due to normal wear with 147 returned to the used inventory container, reducing screen consumption 65 percent for the operator vs. OEM metal backs.

Features

- 4.62 sq. ft of precision molded nba
- Smaller, more numerous panels
- Increased open area
- SNAP-LOK plug-repair system for the NOV Brandt VSM 300 shaker
- Redesigned, interlocking joint
- Weighs 40% less than OEM

Benefits

- Increased operational life
- Lower screen replacement costs
- Higher throughput
- Quick and easy to repair
- Less downtime
- Higher conductance rate
- Safer, faster and easier to handle
- Does not rust or delaminate

*NVO Brandt, VSM 300, Cobra, King Cobra and LCM-3D are marks of Varco I/P, Inc.
Oilfield Screens: Composite Screens

DURAFLO Composite Replacement Screens for Brandt™ Cobra, King Cobra & LCM-3D Series Shakers

For NOV Brandt Cobra shakers

The DURAFLO Composite Replacement Screens from M-I SWACO, for the NOV Brandt Cobra™, King Cobra™ and LCM-3D™ shakers, provide greatly improved performance and reliability over traditional metal-backed screens.

The design features a soft gasket and allows the screen to be removed and reinstalled while maintaining a reliable sealing mechanism. These improvements give way to improved screen life and screen costs per well, resulting in significant operator savings.

Field Proven Results

Recent field trials with a drilling contractor in Brazil continued to demonstrate the performance superiority of DURAFLO Composite Screens over OEM steel frame screens in key benchmarks, contributing to a 60 percent cost savings.

The drilling contractor, wanting to further reduce operating and maintenance costs, allowed M-I SWACO to evaluate and compare the performance and efficiencies of the M-I SWACO DURAFLO composite screens against a competitor’s OEM screens used on King Cobra shakers. OEM screen use ranged from 45 to 92 screens across five wells, averaging 67.4 screens per well on two primary shakers and one mud cleaner.

Technology Versatility

The drilling contractor and M-I SWACO agreed to conduct the screen trial on a rig drilling with both water- and synthetic-based drilling fluids. This allowed M-I SWACO to illustrate the superiority of its DURAFLO screen technology. To initiate and properly conduct the test, M-I SWACO provided the drilling contractor and well operator with a full VIBRATORY SYSTEMS ANALYSIS TESTING (VSAT) program of the rig-owned shakers to ensure any operational issues could be corrected and that results would be absolute and non-biased.

Exceptional Performance

Shortly after running both screen models, it was evident that the unusually high number of OEM screens per well was due to the screens not conveying the hydrated clay formation well. Large masses of cuttings would build up in the center of the screen and halt the conveyance process. After testing in the 17½ in., 12¾ in. and 8½ in. intervals, the M-I SWACO DURAFLO composite replacement screens outperformed the OEM screens in four benchmarks: screen consumption, flow capacity, non blanked area, and screen deflection (G-force) leading to a decrease in cost of screens per well.

Features & Benefits

- Lighter weight vs traditional OEM equipment
- 5.5 ft² of precision molded NBA
- Co-molded gasket, eliminating bypass
- No Crown Rubbers required
- Corrosion resistant
- Gasket molded into the frame rather than glued with potentially delaminating adhesives
- Consistent Tension on mesh applied during bonding of each layer to frame
- Increased screen life and reduced chance of catastrophic failure as a result of the patented, one-piece design
- Screens available in XR, XL, and HC in all API designations.
- Also available with MG cloth for coarse scalping applications

†Results obtained testing screens for the MONGOOSE PT shaker.

NOV Brandt, VSM 300, Cobra, King Cobra and LCM-3D are marks of Varco I/P, Inc.
Oilfield Screens: **Composite Screens**

DURAFLO Composite Replacement Screens for Axiom^ Shakers

For Axiom AX-1 shakers

With the M-1 SWACO DURAFLO Composite Replacement Screens for the Axiom AX-1^ shaker, the metal backed screen is replaced with a rigid, lightweight composite material and does not use the sliding steel tray for support. DURAFLO screens have a patented design that is unique to our industry and has many field-proven benefits.

The DURAFLO AX-1 is a composite replacement screen for Axiom brand shakers. It features the patented design utilizing a polymer frame with the steel reinforcing structure.

In addition, it features a specialized gasket made of softer, more pliable material which is co-molded onto the leading edges of the composite frame. This provides a soft but durable seal between the shaker bed and screens themselves. The design also features the easy latching system which joins screens during operation and allows easy removal without the need for additional tools and accessories.

**Field Proven Results**

Recent GOM & Brazil Field Trial data confirm superior DURAFLO composite screens performance in regard to screen life, separation efficiency, cuttings conveyance and enhanced shaker G-force.

**Screen Consumption**

The highly supported, durable composite design outperformed the competitor’s OEM in the Gulf of Mexico, by reducing screen consumption by 25% during the 8½” oil production interval using synthetic oil based drilling fluid. The flat panel design allowed excellent fluids handling capacity without the need for costly screen change-outs.

**Cuttings Conveyance**

Using our patented flat-panel design, our DURAFLO AX-1 composite screens was able to decrease cuttings conveyance rates by ~23% while maintaining superior cuttings dryness. Retort analysis of the discharge stream indicated an improved mud recovery of nearly 40% compared to the competitor’s OEM. Bottom line – we process cuttings faster, minimizing screen damage; and better, allowing the operator to recover more costly drilling fluid to the active system.

**Enhanced Shaker G’s**

The lightweight composite material used for our DURAFLO AX-1 composite screens reduces screen weight significantly, allowing for higher shaker G-Forces and minimizes shaker basket wear. The resulting 10% increase in shaker G-Force allows better conveyance as noted. Screen weight was reduced by 59% vs. the competitor’s OEM, shedding over 450 lbs!

**Features and Benefits**

- Use of a heavy, sliding steel support tray is no longer necessary, which improves overall shaker G-force
- 60% reduction in weight on shaker basket
- Easy to use push-and-lock latches make screen changes fast and easy
- Corrosion-resistant
- Consistent tension
- Mesh is bonded directly to the frame and thereby, improves the life of the screen
- Equivalent non-blanked area of OEM screen, of 2.8 ft²
- Choose from XL, HC, and XR meshes

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^Axiom AX-1 is a mark of Axiom Process Ltd.

†Results obtained testing screens for the MONGOOSE PT shaker.
SNAP-LOK Repair System for DURAFLO Composite Screens

SNAP-LOK Plug-Repair System is an exclusive feature of M-I SWACO DURAFLO Composite Screens

This technology offers the convenience of screen repair to reduce NPT, equating to savings in operational costs. In addition to reducing NPT, the SNAP-LOK plug-repair system enables the extension of screen life by allowing repair for up to 10% of total screen cell count, to reduce screen replacement costs. For cell damage above 10%, screen replacement is recommended.

Easy as 1-2-3, screens can be repaired and back in operation at a fraction of the time using conventional repair systems.

1. Turn the screen over and lay on a flat surface.
2. Place plug above damaged cell, with hollow section facing up and insert as far as it goes.
3. Using a rubber mallet, tap the plug into place until hearing an audible click.

When plug is fitted correctly, it cannot be removed.

**Installing a SNAP-LOK Plug**

- Step 1: Identify the damaged panel. SNAP-LOK plugs can be fitted into any location within the frame except those openings adjacent to the shader side walls.
- Step 2: Turn the screen over and lay the screen on a flat surface (a bench or the floor, for example) in an area free of obstructions. Place the plug above the damaged panel with the hollow section facing up.
- Step 3: Push the plug in as far as it goes.
- Step 4: Place a second plug on top of the first plug with the hollow section facing down.
- Step 5: Push down on both plugs with your hand until the first plug clicks into place. If the plug does not click into place, use a hammer or a mallet to tap the second plug. Hold the second plug in place with a finger to prevent it from jumping back. Make sure both ends of the plug are struck firmly.
- Step 6: When the plug is fitted correctly, the second plug will sit flush with the rest of the frame. Remove the second plug from the frame. Once the first plug is in place, it cannot be removed.
Oilfield Screens: Commodity Screens

M-I SWACO Commodity Screens Portfolio

M-I SWACO screens portfolio also includes both commodity pretensioned and hookstrip type metal back replacement screens and plastic back, hookstrip screens.

Metal Back OEM & Replacement Screens
Our lightweight, repairable hookstrip-metal back offerings include replacements for Derrick FLC 500, featuring 1 to 3 layers of mesh with a metal grid and hook strips. Our pretensioned metal back offerings include M-I SWACO, Brandt (Cobra, King Cobra, LCM3D, D285P/380P), Fluid Systems (Black Thunder, 29x42), Kemtron (KPT 28), and Vortex Fluid Systems (Orbital), featuring 1 to 3 layers of repairable, tensioned mesh bonded directly to a metal grid and rigid frame, eliminating the “horseshoe” effect.

Plastic Back OEM & Replacement Screens
Our lightweight, repairable hookstrip-plastic back offerings include M-I SWACO (ALS, BEM-3) Brandt (LCM 2D, LM3, 4X5), Derrick (FLC 300, FLC 2000), Kemtron (KDX), Triton (Triton), and Vortex Fluid Systems (Orbital), featuring 1 to 3 layers of mesh with a plastic grid and hookstrips.

While not our premium offering, our commodity screens come with the same exceptional commitment to quality and API compliance. Customers have the option to customize their operations without compromising quality, using our diverse portfolio of premium and commodity screens.
Oilfield Screens: **VSAT**

**VIBRATORY SYSTEMS ANALYSIS TESTING (VSAT) Program**

The M-I SWACO VSAT program is a proven solution for operators who are experiencing sub-par shale-shaker performance. The VSAT service, provided as part of the VSAT program, includes an inspection of the problem shakers, a review of rig practices, a vibratory-motion analysis of the shakers, a written evaluation of the findings and recommendations for improving performance. More than 30 major operators have used the VSAT service with positive results.

As an option, the M-I SWACO VSAT specialist can conduct a training session for the rig’s shaker hands. Subjects covered include screen selection, rig specific operating and maintenance procedures, and best practices compiled from worldwide operating experience.

### How to tell when you need the VSAT program and service

If you are experiencing one or more of these critical problems, your rig will benefit from the VSAT program:

- Screen failures
- Fluid-capacity problems: drilling fluid flowing off the end of the shaker screens
- Poor solids conveyance
- Energy (G-force) output is less than expected
- Frequent Consumable part replacements
- Increased solids control costs
- Increased NPT on equipment
- Cuttings quality sub-par

### Features

- Applicable to all common brands of shakers and screens
- Precise determination of all shaker-related problems
- Detailed equipment database of shakers and screens
- Clear, detailed written reports
- Training available for rig crews

### Benefits

- Improved shaker performance, immediately and long-term
- Drier cuttings and lower disposal volumes
- Improved ROP and drilling fluid recovery
- Better drilling-fluid performance and longer life
- Better solids handling
- Cuts costs
- Reduced drilling waste volumes
- Longer screen life, better screen performance
# API Compliant OEM & Replacement Screens Summary

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<tr>
<th>OEM Screens</th>
<th>API Compliant OEM &amp; Replacement Screens Summary</th>
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# Technical Data: OEM Screens

## M-I SWACO ALS Shakers

Shaker Brand: M-I SWACO  
Compatible with: ALS Series

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<th>API Designation</th>
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<th>$d_{100}$ (cut point, μ)</th>
<th>Conductance (kD/mm)</th>
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### Screen Specifications

- Dimensions (W x L, inches): 45.25” x 47.75”
- Parts ending in “L” designate standard three layer plastic back
- Parts ending in “F” designate heavy duty plastic back, four layer screen

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## Technical Data for M-I SWACO BEM-3 Shakers

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**Compatible with:** BEM-3 Series

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### Screen Specifications

- **Dimensions (W x L, inches):** 45.5” x 35.5”
- Parts ending in “L” designate standard three layer plastic back
- Parts ending in “F” designate heavy duty plastic back, four layer screen
- Parts ending in “B” designate four layer, with specialized magnum bonding

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Technical Data for M-I SWACO BEM-6 Shakers

Shaker Brand: M-I SWACO
Compatible with: BEM-6 Series

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### Technical Data for M-I SWACO BEM-6 Shakers

#### Screen Specifications
- Dimensions (W x L, inches): 36” x 27.5”
- Weight: 17.6 lbs

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Technical Data: **DURAFLO Composite OEM Screens**

**M-I SWACO MD Series Shakers**

Shaker Brand: M-I SWACO  
Compatible with: MD-2 & MD-3 Series

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SNAP-LOK Plugs: J/WMD3YYZZZ

**Screen Specifications**
- Dimensions (W x L, inches): 24.49” x 25.8”
- Weight: 15.4 lbs
## Technical Data: DURAFLO Composite OEM Screens

### M-I SWACO MONGOOSE & MEERKAT Series Shakers

**Shaker Brand:** M-I SWACO  
**Compatible with:** MONGOOSE & MEERKAT Series

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**Screen Specifications**

- Dimensions (W x L, inches): 23” x 45.875”
- Weight: 24 lbs
### Technical Data: DURAFLO Composite OEM Screens

**M-I SWACO MONGOOSE & MEERKAT Series Shakers (SNAP-LOK Pluggable)**

**Shaker Brand:** M-I SWACO  
**Compatible with:** MONGOOSE & MEERKAT Series

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**SNAP-LOK Plugs** WMONNYZZZ

**Screen Specifications**
- Dimensions (W x L, inches): 23” x 45.875”
- Weight: 24 lbs
Technical Data: **OEM Screens**

**M-I SWACO 2x6 Shakers**

Shaker Brand: M-I SWACO  
Compatible with: 2x6 Shakers

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**Screen Specifications**

- Dimensions (W x L, inches): 24.25” x 72”
**Technical Data: OEM Screens**

**SWECO 4x3 Shakers**

Shaker Brand: SWECO
Compatible with: 4x3 Shakers

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**Screen Specifications**
- Dimensions (W x L, inches): 45.25” x 36”
## Technical Data for Axiom AX-1 Shakers

**Shaker Brand:** Axiom  
**Compatible with:** AX-1 Series

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SNAP-LOK Plugs | WAXCZZZZZZZ

**Screen Specifications**

- Dimensions (W x L, inches): 27” x 24”
- Weight: 17.6 lbs
## Technical Data: DURAFLO Composite Replacement Screens

**Brandt / NOV Cobra, King Cobra, LCM-3D, & ATL 1000 Shakers**

**Shaker Brand: Brandt, NOV**

**Compatible with: Cobra, King Cobra, LCM3D, and ATL 1000 Shakers**

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### Screen Specifications
- Dimensions (W x L, inches): 25” x 49.3125”
- Weight: 34 lbs

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SNAP-LOK Plugs JBHXYZZZZ
Technical Data: **Replacement Screens**

**Brandt / NOV Venom & King Cobra Shakers**

Shaker Brand: Brandt, NOV  
Compatible with: Venom & King Cobra Shakers

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**Screen Specifications**

- Dimensions (W x L, inches): 25” x 49.3125”
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## Technical Data: *Replacement Screens*

### Brandt / NOV 4x3 Shakers

Shaker Brand: Brandt, NOV  
Compatible with: 4x3 Shakers

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### Screen Specifications

- Dimensions (W x L, inches): 45.25” x 36”
### Technical Data: Replacement Screens

#### Brandt / NOV LCM2D/LM3 Shakers

**Shaker Brand:** Brandt, NOV  
**Compatible with:** LCM2D/LM3 Shakers

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### Technical Data: Replacement Screens

(continued) Brandt / NOV LCM2D/LM3 Shakers

Shaker Brand: Brandt, NOV
Compatible with: LCM2D/LM3 Shakers

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### Screen Specifications

- Dimensions (W x L, inches): 45.25” x 36”
- Parts ending in “L” designate standard three layer plastic back
- Parts ending in “F” designate heavy duty plastic back, four layer screen
- Parts ending in “B” designate four layer, with specialized magnum bonding
### Technical Data for Brandt / NOV 4x5 Shakers

**Shaker Brand:** Brandt, NOV  
**Compatible with:** 4x5 Shakers

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Technical Data: **Replacement Screens**

(continued) Brandt / NOV 4x5 Shakers

Shaker Brand: Brandt, NOV
Compatible with: 4x5 Shakers

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**Screen Specifications**

- Dimensions (W x L, inches): 48.5” x 59.5”
- Hook screens with one or two layers of Market Grade (MG) square mesh, or Oblong (BG) mesh. Also known as “Unbonded” or “Welded” Hook Screens.
- Part numbers ending in “H” are single layer.
- Part Bumbers ending in “D” are double layer.
Technical Data: Replacement Screens

Brandt / NOV D285P/380 Shakers
Shaker Brand: Brandt, NOV
Compatible with: D285P/380 Shakers

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Screen Specifications
- Dimensions (W x L, inches): 28” x 46.5”
**Technical Data:** **DURAFLO Composite Replacement Screens**

**Brandt / NOV VSM 100 Shakers**

Shaker Brand: Brandt, NOV  
Compatible with: VSM 100 Shakers

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### Screen Specifications
- Dimensions (W x L, inches): 25” x 36.25”
- Weight: 15.4 lbs
**Technical Data: DURAFLO Composite Replacement Screens**

**Brandt / NOV VSM 300 Shakers**

Shaker Brand: Brandt, NOV
Compatible with: VSM 300 Shakers

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<th>(d_{100}) (cut point, (\mu))</th>
<th>Conductance (kD/mm)</th>
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Technical Data: **DURAFLO Composite Replacement Screens**

(continued) Brandt / NOV VSM 300 Shakers

Shaker Brand: Brandt, NOV
Compatible with: VSM 300 Shakers

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SNAP-LOK Plugs

**Screen Specifications**

- **Dimensions (W x L, inches)**
  - Scalper: 26.4” x 36.8”
  - Primary: 27.1 x 34.7
  - Secondary Drying: 27” x 8.1”
- Screens ending in “T” are your top deck (or scalping deck)
- Screens ending in “J” are your bottom deck (or primary deck)
- Screens ending in “Y” are your secondary deck (or drying deck)
- Weight: 17.6 lbs
Technical Data: Replacement Screens

Derrick FLC 300 Shakers

Shaker Brand: Derrick
Compatible with: FLC 300 Series Shakers

<table>
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<th>Mesh Type</th>
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Screen Specifications

- Dimensions (W x L, inches): 33.25” x 27.5”
Technical Data: **DURAFLLO Composite Replacement Screens**

**Derrick FLC 500 Shakers**

Shaker Brand: Derrick
Compatible with: FLC 500 Series Shakers

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**Screen Specifications**
- Dimensions (W x L, inches): 41.5” x 27.5”
- Weight: 19.8 lbs
Technical Data: **Replacement Screens**

**Derrick FLC 500 Shakers**

Shaker Brand: Derrick  
Compatible with: FLC 500 Series Shakers

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**Screen Specifications**

- Dimensions (W x L, inches): 41.5" x 27.5"
- Weight: 19.8 lbs
## Technical Data: Replacement Screens

### Derrick FLC 2000 Shakers

**Shaker Brand:** Derrick  
**Compatible with:** FLC 2000 Series Shakers

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### Technical Data: Replacement Screens

(continued) Derrick FLC 2000 Shakers

Shaker Brand: Derrick
Compatible with: FLC 2000 Series Shakers

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**Screen Specifications**

- Dimensions (W x L, inches): 41.125” x 27.5”
- Parts ending in “L” designate standard three layer plastic back
- Parts ending in “F” designate heavy duty plastic back, four layer screen
- Parts ending in “B” designate four layer, with specialized magnum bonding
Technical Data: **Replacement Screens**

**Fluid Systems Black Thunder Shakers**

*Shaker Brand: Fluid Systems*

*Compatible with: Black Thunder Shakers*

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**Screen Specifications**

- Dimensions (W x L, inches): 36” x 42”
### Technical Data: Replacement Screens

**Fluid Systems 29x42 Series Shakers**

Shaker Brand: Fluid Systems  
Compatible with: 29x42 Series Shakers

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**Screen Specifications**

- Dimensions (W x L, inches): 29” x 42.1875”
Technical Data: Replacement Screens

Kemtron KDDX Shakers

Shaker Brand: Kemtron
Compatible with: KDDX Shakers

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<thead>
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<th>API Designation</th>
<th>Mesh Type</th>
<th>d₁₀₀ (cut point, μ)</th>
<th>Conductance (kD/mm)</th>
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**Screen Specifications**

- Dimensions (W x L, inches): 30” x 72”
# Technical Data: Replacement Screens

## Kemtron KDX Shakers

Shaker Brand: Kemtron  
Compatible with: KDX Shakers

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## Screen Specifications

- Dimensions (W x L, inches): 28” x 48”
Technical Data: **Replacement Screens**

**Kemtron KPT 28 Shakers**

Shaker Brand: Kemtron  
Compatible with: KPT 28 Shakers

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**Screen Specifications**

- Dimensions (W x L, inches): 28.25” x 49.25”
## Technical Data: Replacement Screens

### Tri-Flo 2x3 Shakers

**Shaker Brand:** Tri-Flo  
**Compatible with:** 2x3 Shakers

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<th>Mesh Type</th>
<th>$d_{100}$ (cut point, μ)</th>
<th>Conductance (kD/mm)</th>
<th>Non-blanked Area (sq. ft)</th>
<th>Part Number</th>
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### Screen Specifications

- **Dimensions (W x L, inches):** 24.5” x 36”
- **Hook screens with one or two layers of Market Grade (MG) square mesh.**  
  Also known as “Unbonded” or “Welded” Hook Screens.
- Part numbers ending in “H” are single layer.
- Part numbers ending in “D” are double layer.
Technical Data: Replacement Screens

Tri-Flo 4x3 Shakers

Shaker Brand: Tri-Flo
Compatible with: 4x3 Shakers

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<th>Mesh Type</th>
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Screen Specifications

- Dimensions (W x L, inches): 48.5” x 36”
### Technical Data: Replacement Screens

**Triton Shakers**
- Shaker Brand: Triton
- Compatible with: Triton Shakers

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**Screen Specifications**
- Dimensions (W x L, inches): 48.5” x 28.5”
### Technical Data: Replacement Screens

**Vortex Fluid Systems Shakers**

*Shaker Brand: Vortex Fluid Systems*

*Compatible with: Orbital Vortex Shakers*

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**Screen Specifications**
- Dimensions \((W \times L, \text{ inches})\): 46” x 31.875”
- Parts ending in “L” designate standard three layer plastic back
- Parts ending in “F” designate heavy duty plastic back, four layer screen
- Parts ending in “M” designate metalback screen