

KOSUN MACHINERY SHALE SHAKERS



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High Demands

Innovative Solutions

KOSUN S™ SERIES SHAKERS

Based on a combination of innovative design and highly advanced technology, KOSUN shale shakers allow high throughput capacities to be achieved in a compact machine design. These features facilitate the layout and design of the complete shale shaker for mud system. Shaker dimensions can be significantly reduced, ensuring low investment costs and saving space for other oil tools, especially for offshore drilling plant.

KOSUN S™ series shaker family consist of linear motion (LS) shale shakers and Balanced Elliptical Motion (ES) shakers.

APPLICATION: MEETING ALL YOUR NEEDS

KOSUN shakers LS series and ES series are mostly used for the primary, scalping, fine separating and drying stage of soft to medium-hard drilled solids in various drilling fluids, for both oil-based and water based.

The KOSUN shale shakers LS series and ES series have a wide field of use as they can easily be matched to changes in production through the proper selection of OPERATION MODE. And over 3000 KOSUN S shakers were sold to be taken into use for drilling industries, including OIL&GAS, CBM, HDD, CIVIL&CITY etc.

What's more, they can be also versatile for mining and other industries.

MODE OF OPERATION

When choosing the appropriate shale shaker type, the deciding criteria are the technical requirements, such as the material (drilling fluids) properties: drilling mud viscosity, velocity of flow, feeding solids size; desired product size and capacity etc, as well as the optimum investment and operating costs.

KOSUN LS series shakers are ideal for high-capacity processing and the compact and easy-to-service design makes them a perfect choice for fast conveyance and heavy loading in tough drilling conditions. When drilling top-hole sections or while heavy-volume solids are encountered, in these intervals, shakers are required to generate high G-forces to effectively move high-capacity drilled solids across the screens.

KOSUN ES series shakers are the best choice for max retention time and frequency for highly need of dryer drilled cuttings in light-loading drilling conditions. The unique balanced elliptical basket and easy-to-service design makes them a wonderful choice for reducing solids control operation cost. When faced with gentle light-loading drilling fluids, the ES shakers are required to reduce G-forces and maintain longer screen residence time, this results in drier solids, better drilling fluid recovery, longer screen life and reduced operating costs.

By continuously measuring and compensating for shakers attachments and spareparts of both types, KOSUN S™ series shaker Hook-strip screen system allows you fully utilize PMD or PWP screen replacements method to coincide with planned maintenance stops. This maximizes solids control performance which helps to optimize the quality of your final product.

FEATURES

- Different Motions: linear motion (LS) and Balanced Elliptical Motion(ES)
- Tough frame design
- High 7+ G-force generated by two heavy-duty vibrator
- Patented AWD deck adjustment system of -1°~5°
- Single side screens tension system to easily change the screens
- Feeder can be weir feeder or box feeder
- Hook-strip screens pretention system is suitable for PMD or PWP replacement screens.
- Designed to be easily installed

BENEFITS

- Being resilient to the changeability of tough drilling conditions and various demands.
- Higher processing capacity
- High speed conveyance of cuttings
- Better drilling fluid recovery
- Less environmental footprint
- Able to process heavier solids loads
- Enhances cuttings processing volume
- Reduced maintainance time and cost

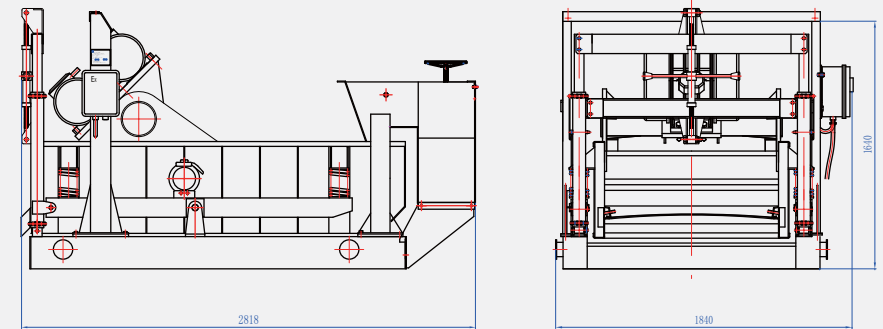
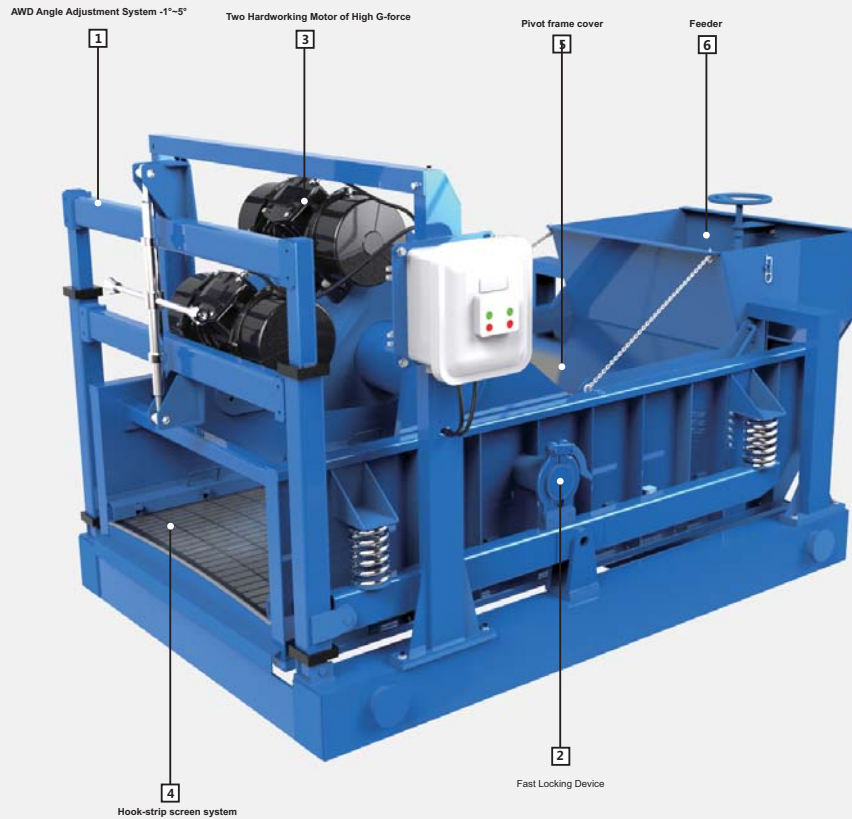
ADVANTAGES

- High and constant capacity
- Low space requirement
- High machine availability
- Long lifetime
- Reduce NPT(non-productive time)
- Easy replacement of wear and spare parts through hydraulic opening device
- Broad range of applications
- High reduction ratio
- Lower drilling fluids cost

703 & 833 Series Shakers



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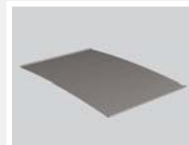
Two Hardworking Motor of High G-force



AWD Angle Adjustment System -1°~5°



Fast Locking Device



Hook-strip screen system

Model	703 series		833 series
	ES703	LS703	LS833
Vibrating Motion	Balanced Elliptical Motion	Linear Motion	Linear Motion
Vibrator Model(Martin)	long	Short	Short
Motor Power (kW)/(HP)	2×1.86kW(2×2.5HP)	2×1.86kW(2×2.5HP)	2×1.86kW(2×2.5HP)
G-force(G)	6.5	≤7.4(Adjustable)	≤7.0(Adjustable)
Screen Area(m ²)/(ft ²)	2.2/24	2.2/24	2.7/29
Deck Adjustment(°)	-1~+5	-1~+5	-1~+5
Capacity(m ³ /h)/(GPM)	113~136/500~600	113~136/500~600	136~170/600-750
Screen type	Hook strip	Hook strip	Hook strip
Screen Dimension(mm)/(in)	700×1050/27.5×41	700×1050/27.5×41	830×1080/33×42.5
Screen No.	3	3	3
Noise(dB)	<85	<85	<85
Weir Height (mm)/(in)	882/35	882/35	882/35
Dimension L×W×H(mm)/(in)	2818×1840×1640/111×72×64	2818×1840×1640/111×72×64	3190×1870×1640/125×74×64
Weight (kg)/(lbs)	1790/3947	1815/4002	1930/4256
Remarks	All shakers are equipped with Martin® vibrator, This is a more than customized™ product.		

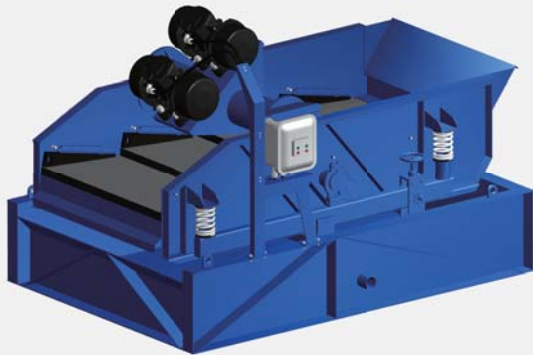
LS584-D Hi-G Dryer



Hi-G dryer is a kind of equipment of drilling waste management system, and is used to separate drilling fluid from cuttings treated by solids control equipment. It features in two advantages: I. It reduces total cuttings discharge amount, discharge cost and environmental pollution; II. The recovered drilling fluid can be recycled, which reduces the cost of drilling fluid.

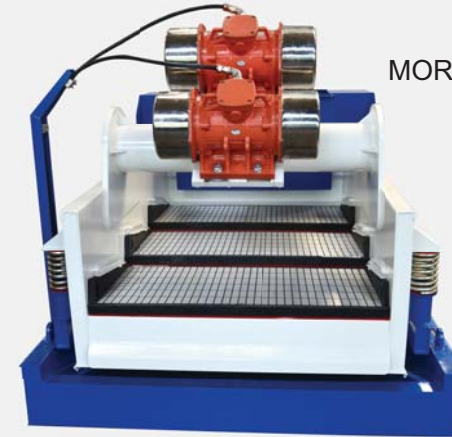
KOSUN LS584-D Hi-G dryer is a high frequency linear-motion vibrating screen machine, equipped with four screen panels and two vibrating motors, and offering a choice of manually adjusting screen frame angle while drilling (AWD). When LS584-D Hi-G dryer works, the screen frame angle can be adjusted from -1° to $+5^{\circ}$ by dint of its structural design innovation. LS584-D Hi-G dryer can separate drilling fluid from cuttings efficiently. Fix vibrating motors onto the screen frame with a high-strength supporting seat, and position them on the screen box, and the positioning in this way can make vibrating motors directly exert G-forces on screens. The isolation mounts can protect the bedframe from vibration effect of the screen frame. Cuttings are fed into a hopper at the tail of screen box of LS584-D dryer by a conveying device.

Field-proven tensioning system is of stable performance and reliable structure. It takes less than two minutes for a person to install or remove one screen using special tools.



Model	LS584-D
Type	Linear
Power (kW/HP)	2*2.5
G-force	7.3
Vibration force adjustable or not	Yes
Total screen area (m ² /ft ²)	2.7/29
AWD	-1° ~ $+5^{\circ}$
Height of feed port (mm/in)	1171/46
Capacity of integrated base collecting box (m ³)	1.5
Dimensions (mm/in)	2752*1892*1762/108*74*69
Weight (kg/lbs)	1590/3506

Mini Series Shaker



MORE THAN CUSTOMIZED™

This is a MORE THAN CUSTOMIZED™ product, KOSUN makes deeply customized painting with certain colors.

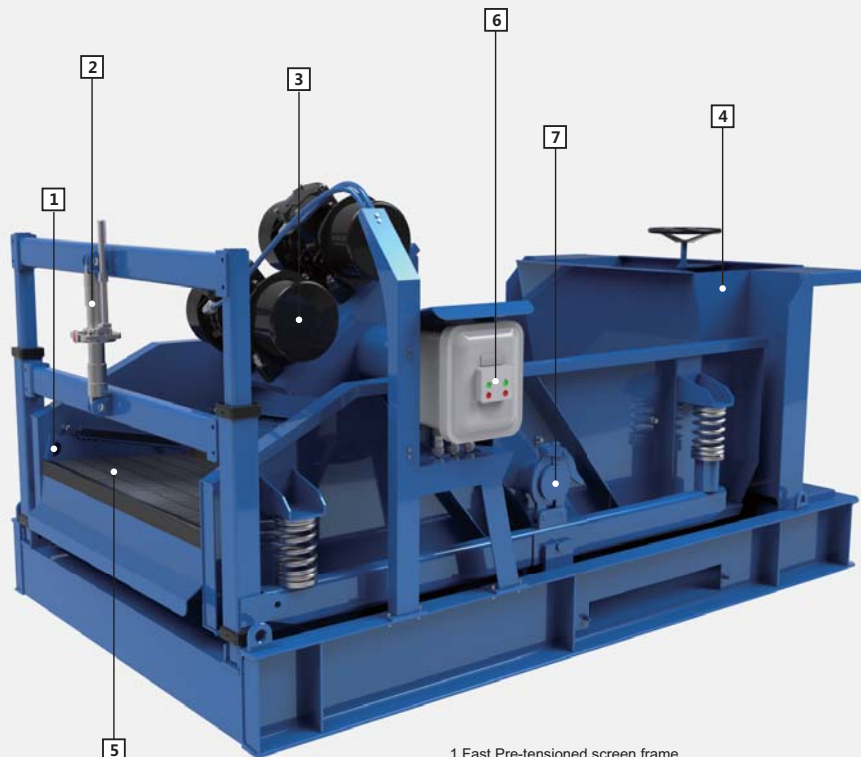


Model	MINI LS633	LS583	MINI LS583
Vibrating Motion	Linear Motion		
Vibrator Model (Martin)	Short		
Motor Power (kW)/(HP)	2×1.86kW (2×2.5HP)	2×1.86kW (2×2.5HP)	2×1.86kw (2×2.5hp)
G-force (G)	7.0(6.5 ~ 7.5 Adjustable)	7.0(6.6 ~ 7.4 Adjustable)	7.0(6.5 ~ 7.5 Adjustable)
Screen Area (m ²)/(ft ²)	2.4/26	2.0/21.5	2.0/21.5
Deck Adjustment (°)	-1 ~ $+5$	-1 ~ $+5$	-1 ~ $+5$
Capacity (m ³ /h)/(GPM)	113 ~ 136 /500 ~ 600	113 ~ 136 /500 ~ 600	113 ~ 136 /500 ~ 600
Screen type	Frame/Pre-tensioned		
Screen Dimension (mm)/(in)	635×1250/25×49	585×1165/23×46	585×1165/23×46
Screen No.	3	3	3
Noise(dB)	< 85	< 85	< 85
Weir Height (mm)/(in)	590/23	940/37	590/23
Dimension L×W×H(mm)/(in)	2100×1827×1340/ 83×72×53	2350×1761×1658/92.5×69×65	1950×1742×1340/77×69×53
Weight (kg)/(lbs)	1370/3020	1680/3705	1320/2910
Remarks	Equipment color can be customized		

584 Series Shale Shaker



LS584 series shaker is a high frequency linear-motion vibrating screen machine, equipped with four screen panels and two vibrating motors, and offering a choice of manually adjusting screen frame angle while drilling (AWD). When LS584 series shaker works, the screen frame angle can be adjusted from -1° to +5° by dint of its structural design innovation. LS584 series shaker can separate drilling fluid from cuttings efficiently.



1. Fast Pre-tensioned screen frame
2. Reliable AWD :screen frame angle can be adjusted from -1° to +5°
3. Two Martin 1.86kW (2.5HP) vibrator
4. Weir Feeder
5. Largest non-blanked screen area (four screen panels):2.9m²
6. Oilfield proven explosion-proof Electrical Control panel
7. Fast locking device

Model	LS584	BLACK RHINO	ES584
Vibrating Motion	Linear Motion	Linear Motion	Balanced Elliptical Motion
Vibrator Model (Martin)	Short	Long	Short
Motor Power (kW)/(HP)	2×1.86kW (2×2.5HP)	2×1.86kW (2×2.5HP)	2×1.86kW (2×2.5HP)
G-force(G)	7.1(6.5 ~ 7.5 Adjustable)	7.1(6.5 ~ 7.5 Adjustable)	6.3(5 ~ 6.3 Adjustable)
Screen Area (m ²)/(ft ²)	2.7/29	2.7/29	2.7/29
Deck Adjustment(°)	-1 ~ +5	-1 ~ +5	-1 ~ +5
Capacity(m ³ /h)/(GPM)	136 ~ 170/600 ~ 750	136 ~ 170/600 ~ 750	136 ~ 170/600 ~ 750
Screen type	Frame/Pre-tensioned		
Screen Dimension(mm)/(in)	585×1165/23×46	585×1165/23×46	585×1165/23×46
Screen No.	4	4	4
Noise(dB)	< 85	< 85	< 85
Weir Height (mm)/(in)	780/30	780/30	780/30
Dimension L×W×H(mm)/(in)	2998×1856×1522/118×73×60	2998×1856×1515/118×73×60	2998×1856×1500/118×73×59
Weight (kg)/(lbs)	1925/4245	1935/4267	1917/4227
Remarks	Equipment color can be customized		

KOSUN | VIBRATOR REPLACEMENT SOLUTION

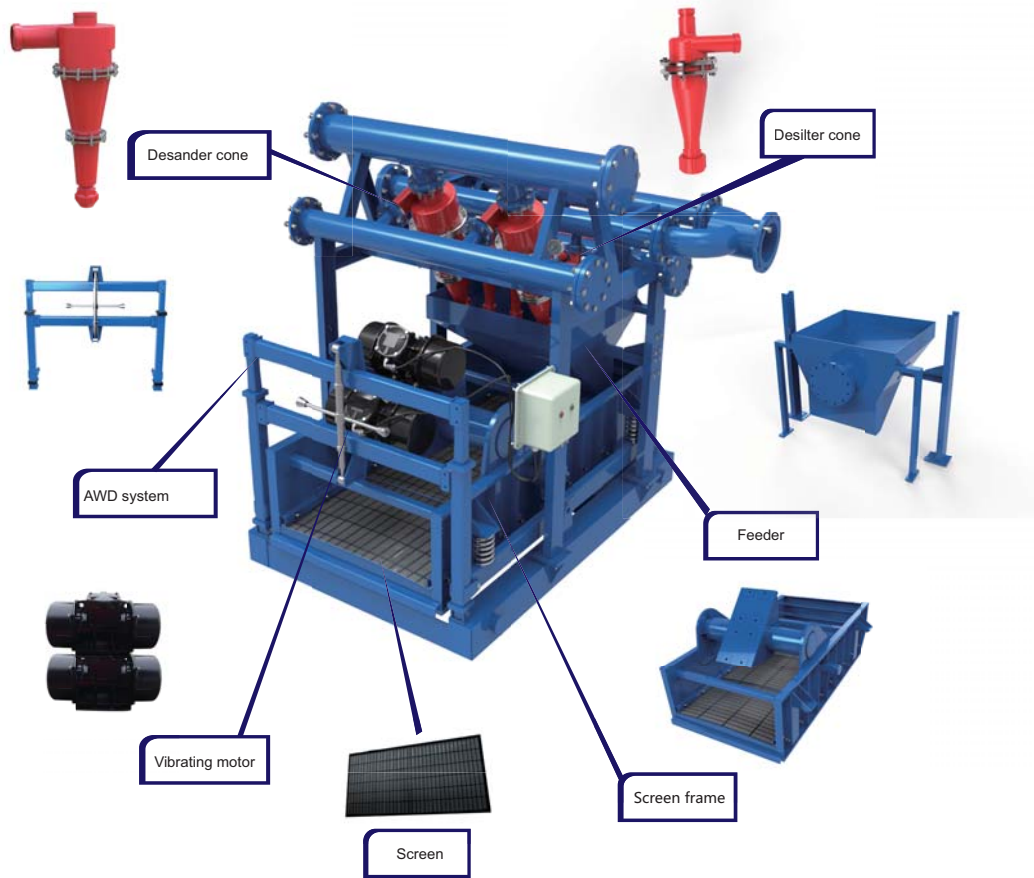


Powered by:



Mud Cleaner

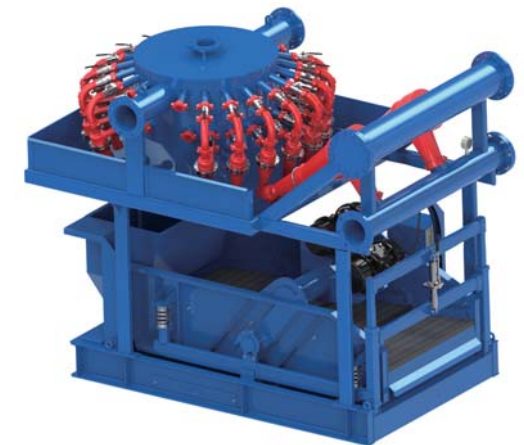
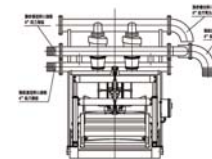
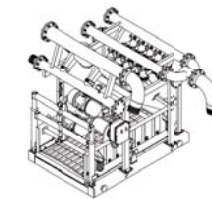
KOSUN MD Series Mud Cleaner is the second and third stage of solids control system, which further separates smaller solid particles in the mud treated by shale shaker for entering the fourth stage solids control equipment. It can be used separately or its bottom flow shale shaker as parallel standby equipment of the first stage solids control shake shaker.



Model	ES703	LS703	LS833	LS584	ES584	MINILS583
Pressure head (mft)	23/75	23/75	23/75	23/75	23/75	23/75
Desander cone spec.	10"	10"	10"	10"	10"	10"
Number of desander cones	1, 2, 3	1, 2, 3	1, 2, 3	1, 2, 3	1, 2, 3	1, 2
Separation size of desander cone (μm)	40~100	40~100	40~100	40~100	40~100	40~100
Capacity of single cone (m ³ /h)(GPM)	113/500	113/500	113/500	113/500	113/500	113/500
Desilter cone spec	4"	4"	4"	4"	4"	4"
Number of desilter cones	6, 8, 10, 12, 16, 20					6, 8, 10, 12
Separation size of desilter cone(μm)	10~74	10~74	10~74	10~74	10~74	10~74
Capacity of single cone (m ³ /h)(GPM)	11~18/50-80	11~18/50-80	11~18/50-80	11~18/50-80	11~18/50-80	11~18/50-80
Accessory options	1. Stainless steel ball valve at desilter cone inlet and outlet (optional) 2. Wear resistant material embedded in desilter cone (optional)					

- ① Desander and desilter cones adopt polyurethane (PU), high-chromium cast iron or ceramic.
- ② Desander is equipped with 1~3 10" desander cones. Each cone can process 500 GPM and separate particles within 40-100μm.
- ③ Desilter is equipped with 8~20 4" desilter cones. Each cone can process 80 GPM and separate particles within 10-74μm.
- ④ Screen bed tilt angle can be adjusted manually during operation with reliable performance.
- ⑤ Compact design with small footprint.
- ⑥ Fast screen replacement
- ⑦ Desilter assembly can be arranged as in-line or round type according to customers' requirements.

For example: LS584-2/10L or LS584-3/20C





DESANDER

Desander Features & Benefits:

KOSUN DS Series Desander is an economical and practical desanding device. It is used as the second stage of solids control system, separates solid particles within 44-74 μ m and ensures better treatment of previously treated mud in the next stage equipment.

- ① Desander cones of polyurethane (PU) for longer service life.
- ② Clamp type for easy maintenance
- ③ Compact design with small footprint
- ④ Flexible options for one or two 10" cones as per different capacities.
- ⑤ Flexible and fast connection for user assembling



DESILTER

Desilter Features & Benefits:

KOSUN DL Series Desilter is used to separate solid particles within 15-44 μ m. It is generally placed between desander and centrifuge in solids control system to separate smaller solid particles.

- ① Desilter cones of 100% polyurethane (PU) for longer service life.
- ② Clamp type for easy maintenance.
- ③ Compact design with small footprint.
- ④ Flexible options for eight, ten, or twelve 4" or 5" cones as per different capacities.
- ⑤ Flexible and fast connection for user assembly.

Model	DS250-2	DL100-10
Vibrating mode	Elliptical	Elliptical
Motor type	Standar Design	Standar Design
Power(kW)/(HP)	1×0.75kW(1HP)(one motor)	1×0.75kW(1HP)(one motor)
G-force(G)	≤8.3(adjustable)	≤8.3(adjustable)
Total screen area(m ²)/(ft ²)	0.78/8.4	0.78/8.4
Screen tilt angle adjustment scope(°)	Unadjustable	Unadjustable
Pressure head(m/ft)	23/75	23/75
Capacity(m ³ /h)/(GPM)	227/1000	227/1000
Screen type	Soft edged (a whole piece of soft screen)	Soft edged (a whole piece of soft screen)
Screen spec (mm)/(in)	600×1450/24×57	600×1450/24×57
Desander cone spec.	10"	N/A
Number of desander cones	2	
Separation size of desander cones (μm)	44 ~ 74	4"
Desilter cone spec.		
Number of desilter cones	N/A	10
Separation size of desilter cones(μm)		15 ~ 44
Noise (dB)	< 85	< 85
Dimensions (mm)/(in)	1455×1774×2100/57×70×83	1455×2426×1774/57×96×70
Weight (kg)/(lbs)	1240/2734	1050/2315





MD300 Vertical Desander

Model	MD300
Inlet size (")	8"
Outlet size (")	10"
Size of sand discharge port (")	10"
Cone spec. (")	10"
Number of cones	3
Separation size (μm)	40-100
Capacity of single cone(m ³ /h)(GPM)	113/500
Pressure head(m)/ Pressure head(ft)	75

Accessories



4" Cone



10" Cone



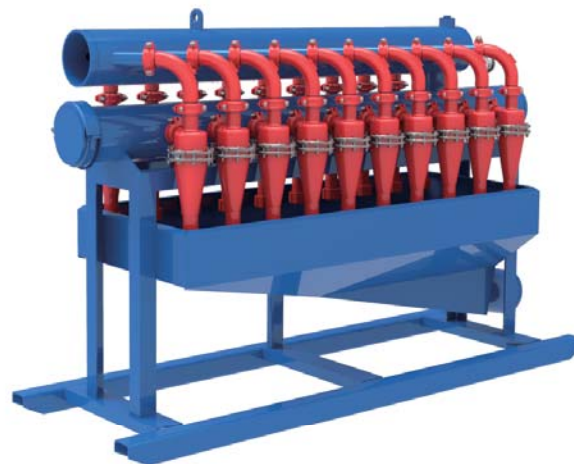
Tubular Design



Standar Design

MD020 In-line Desilter

Model	MD020
Inlet size (")	8"
Outlet size (")	8"
Size of sand discharge port (")	8"
Cone spec. (")	4"
Number of cones	20
Separation size (μm)	10-74
Capacity of single cone(m ³ /h)(GPM)	11-18/50-80
Pressure head(m)/ Pressure head(ft)	75



Electrical Control Cabinet for Shale Shaker



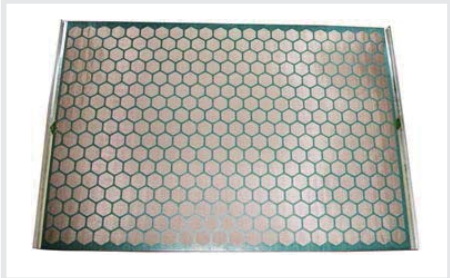
Electrical Control Cabinet for Desander and Desilter



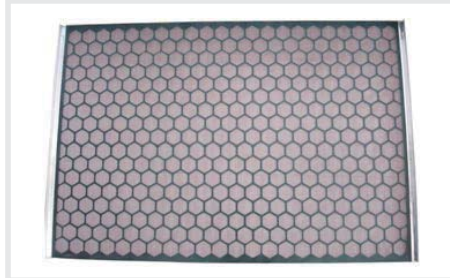
KOSUN SHAKER SCREEN

OEM AND REPLACEMENT SHAKER SCREENS

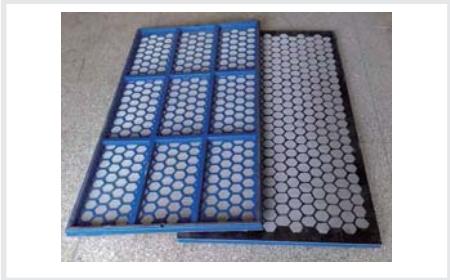
STABLE PERFORMANCE, MATURE TECHNOLOGY
 ULTRA LOWER COST, RELIABLE QUALITY



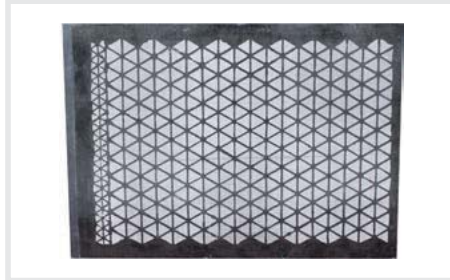
KOSUN Screens For Kosun Shakers(LS703)



KOSUN Screens For Kosun Shakers(LS833)



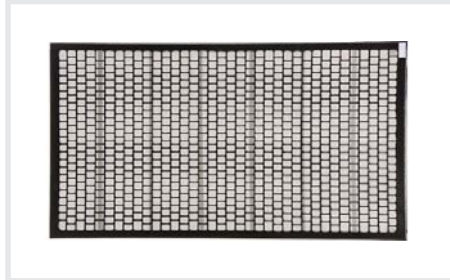
KOSUN Replacement Screens For Brandt Shakers(King Cobra Series)



KOSUN Replacement Screens For Brandt Shakers(VSM Series)



KOSUN Replacement Screens For Swaco Shakers(Mongoose Series)



KOSUN Replacement Screens For FSI Shakers(500B/5000B Series)



KOSUN Replacement Screens For Scomi Shakers(Prima G Series)



KOSUN Replacement Screens For KEMTRON Shakers(KTL48 Series)

DEEPLY CUSTOMIZED SHALE SHAKER

Customized Item

Option

Shale Shaker Multiple

- Single Duplus Triple

Functional Categories

- Mud Shaker
(drilling fluids processing) Hi-G Dryer shaker

Vibrating Motion

- Linear Motion Balanced Elliptical Motion

Feeder

- Weir feeder Header Box feeder

Discharge

- Vertical Discharge Side Discharge

Tensioning System

- Heel Block Hook Strip

Screen

- Iron Frame Screen for Heel Block Tensioning System Composite Frame Screen for Heel Block Tensioning System Hook Strip Screen for Hooking Tensioning System

Painting

- Standard Colors Customized Colors Special Process — Stainless Steel, Zinc

Electronic Control Cabinet

- Explosion-proof Variable Frequency Driven Explosion-proof Fixed Frequency Driven Warom/Feice Customer Specified

Electron Component

- Domestic Brand CHINT Foreign Brand Schneider Customer Specified

Motor

- Joint Venture Brand OLI-WOLONG options: Foreign Brand DG, Martin options: Customer Specified

Electricity Specifications

- 380V/50HZ 460V/60HZ Customer Specified

Angle Adjustment System

- AWD Mechanical Lifting System AWD Electric Control System

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Reliable Is KOSUN

KOSUN SERVICE : SUPPORT THAT GIVES YOU PEACE OF MIND

For most people, service is a matter of being available when problems occur. However, we at KOSUN, see it as a matter of being proactive. Investment in, for instance, scheduled inspections and maintenance will help you protect your business from unexpected risks. KOSUN offer a comprehensive in- surance package of local service. Details of this can be obtained through your local KOSUN representative. The patented KOSUN S™ shaker series give many real advantages over existing shale shakers. Continuous research and development combined with customer feed- back ensure KOSUN are setting the industry standard that others try and follow.

From use in solids control and drilling waste management in Europe and USA (in fact all around the world) to recycling drilling fluids in a variety of applications, KOSUN S™ shakers are In Action.

THE SHIPMENT IS GLOBAL,THE SERVICE IS LOCAL

As one of the world's leading suppliers of solids control system and equipment, KOSUN not only has more than 20 years experience in the drilling industry, but KOSUN S™ series shakers have also been extensively field-proven in this area. KOSUN is the most experienced manufacturer of linear motion shale shakers.

Now , there are more than 3,000 S™ series shakers running stably on the drilling sites all over the world.

