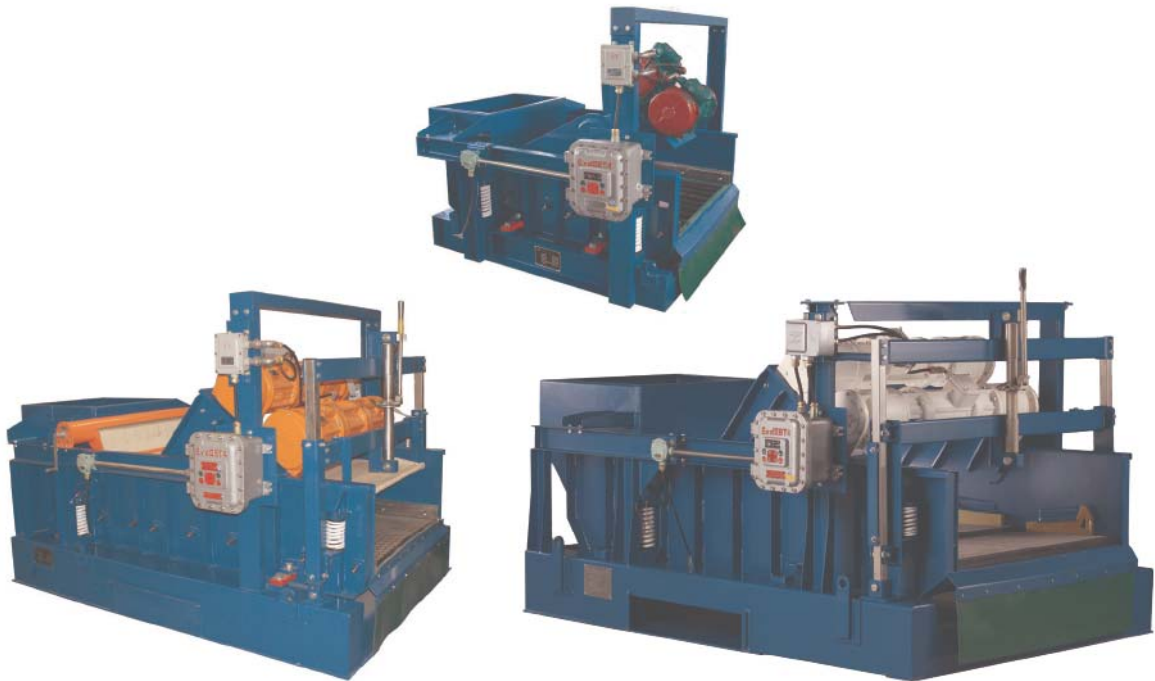


# Shale Shaker

The TSC liner and elliptical shale shaker is designed based on customer's feedback. It has three patents including two types of motion, liner and balanced elliptical. This shaker features: high vibration intensity; large screen surface area; adjustable discharge angles during operation; simple compact structure; reliable, great performance at a competitive price.



Model	HS270-4P	HS200-3P	HS295-4P	HHS220-3P HS220-3P(M)	HS150-2P
Electric Power	2 x 3 HP	2 x 3 HP	2 x 3 HP	2 x 3 HP	2 x 1.5 HP
Frequency	24.3	24.3	24.3	24.3	24.3
Explosion Proof	d IIBT4	d IIBT4	d IIBT4	d IIBT4	d IIBT4
Mesh Size	23.0x45.9 (4 pieces)	23.0x45.9 (4 pieces)	27.6x41.4 (4 pieces)	27.6x41.4 (3 pieces)	27.6x41.4 (2 pieces)
Shaking Intensity	7.2 g	7.2 g	7.2 g	7.2 g	7.2 g
Amplitude	0.23"	0.23"	0.23"	0.23"	0.23"
Adjustable Range	-1.5° ~7°	-1.5° ~7°	-2° ~6°	-2° ~6°	
Weight	4,410 lbs	4,189 lbs	4,752 lbs	4,180 lbs	2,706 lbs
Dimension	117x73x70	97x79x70	138x76x67	103x74x67	75x73x58



TSC Manufacturing and Supply LLC, 13788 West Road, Suite 100, Houston, Texas 77041, USA  
 Tel: +1 832 456 3900 Fax: +1 832 456 3998 Email: sales@t-s-c.com  
 Visit our Website at [www.t-s-c.com](http://www.t-s-c.com)

04/2014

# Mud Cleaner

The TSC series mud cleaner is an efficient solids control equipment, which consists of a HS series linear shale shaker, a desander and a desilter. The combination of super G shale shaker, desander, and desilter has a great solids removal capacity. It can be used to remove as small as 20  $\mu\text{m}$  solid particles in the drilling fluid. According to your drilling practice, you can also use it as either a desander, a desilter, or as a powerful shale shaker.



Type	HMC250×2/100×12		HMC250×3/100×16	
	Desander Parameters	Desilter Parameters	Desander Parameters	Desilter Parameters
Hydraulic cone	10" × 2	4" × 12	10" × 3	4" × 16
Pressure	36~65 psi	36~65 psi	36~65 psi	36~65 psi
Capacity	880 gpm	880 gpm	1,100~1,540 gpm	1,320~1,540 gpm
Separation	43~74 $\mu\text{m}$	20~43 $\mu\text{m}$	43~74 $\mu\text{m}$	43~74 $\mu\text{m}$
Inlet manifold	6"	6"	6"	6"
Outlet manifold	8"	8"	8"	8"
Shale shaker	HS220-3P, HS240-3P, HS280-3P		HS220-3P, HS240-3P, HS280-3P	
Power	2×3 HP		2×3 HP	
Adjustable angle	-2° ~ +6°		-2° ~ +6°	
Weight	5,830 lbs, 6,050 lbs, 6,490 lbs		5,940 lbs, 6,160 lbs, 6,600 lbs	
Dimension	103×101×99 / 124×101×99		103×101×99 / 124×101×99	



# Vacuum Degasser

The TSC Vacuum Degasser efficiently removes entrained gases from the drilling fluid. Drilling fluid is pulled into the vacuum chamber and sent to umbrella-shaped, gas-separation layers through an orifice in the central pipe. Under vacuum conditions, gas bubbles develop in the drilling fluid. The fluid flows across the separation layers, releasing entrained gas as the bubbles burst.

The water ring vacuum pump vents the gas away to a safe place, while the degassed fluid is sent to the next tank for additional treatment. Our compact design is reliable, easy to install and simple to maintain. Please contact your local TSC representative to learn more about the complete line of TSC solids control products.



Model	HVV-300	HV-240	HV-1200	HVH-300
Capacity (gpm)	1,400	960	1,400	1,400
Vacuum (in)	11–14	11–14	15–20	15–18
Efficiency	≥95%	≥95%	≥95%	≥95%
Main motor power (hp)	30	20		
Vacuum pump (hp)	5	5 (60Hz)	5 (60Hz)	5
Inlet manifold (in)	6	5	6	6
Discharge manifold (in)	8	6	8	8
Weight (lb)	3,350	3,960	6,160	4,000
Dimensions (in)	54×55×76	76×36×88	88×48×80	144×40×96



# Desander

The HD series desander is usually used after the shale shakers to eliminate the harmful solid particles, the range of 40–74  $\mu\text{m}$  in the drilling fluid. The shale shaker beneath the hydraulic cyclones can recover the drilling fluid in the bottom flow and reduce the mud losses. The HD series desander features compact structure, long service life, reliable working performance and simple maintenance.

Please contact your local TSC representative to learn more about the complete line of TSC solids control products.



Model	HD-250×2-C	HD-300×2-C	HD-250×3-C	HD-300×3-C
Capacity	880–1,100 gpm	880–1,100 gpm	1,320–1,540 gpm	1,320–1,540 gpm
Cyclones	10" × 2	12" × 2	10" × 3	12" × 3
Pressure	29~65 psi	29~65 psi	29~65 psi	29~65 psi
Motor	1 HP	1 HP	1 HP	1 HP
Screen size	49×23	49×23	49×23	49×23
Mesh size	150~200	150~200	150~200	150~200
Inlet manifold	6"	6"	6"	6"
Discharge manifold	8"	8"	8"	8"
Weight	1,540 lbs	1,650 lbs	1,760 lbs	2,200 lbs
Dimension	65×80×86	65×80×91	65×26×92	65×99×97



# Desilter

The TSC Desilter, HM series, is used after the desander to eliminate smaller harmful solid particles in the drilling fluid, ranging in size from 20–40  $\mu\text{m}$ . Placing an additional shale shaker after the hydraulic cyclones can recover more drilling fluid from the bottom flow and further reduce mud losses. The HM series features a compact structure, long service life, reliable working performance, and simple maintenance.

Please contact your local TSC representative to learn more about the complete line of TSC solids control products.



Model	HM-100×12-C	HM-100×14-C	HM-100×16-C
Capacity	880–1,100 gpm	1,100–1,320 gpm	1,320–1,540 gpm
Cyclones	4" × 12	4" × 14	4" × 16
Pressure	29~58 psi	29~58 psi	29~58 psi
Motor power	1 HP	1 HP	1 HP
Screen size	49×23	49×23	49×23
Mesh size	120~300	120~300	120~300
Inlet manifold	6"	6"	6"
Discharge manifold	8"	8"	8"
Weight	1,540 lbs	1,650 lbs	1,650 lbs
Dimensions	79×45×82	89×45×82	99×45×82



# Shear Pump

The TSC Shear Pump, HSP 6x5, is a new pump model designed with a special impeller. This new design offers superior shearing efficiency over other mud processing equipment. The pump can effectively mix and hydrate additives into the mud thereby producing a more consistent chemical blend. The HSP Shear Pump is suitable for polymers and other materials requiring shear.

Please contact your local TSC representative to learn more about the complete line of TSC solids control products.



Model	HSP 6X5
Discharge capacity	528 gpm
Head	148 ft
Shearing efficiency	95%
Power	75 HP
Impeller speed	2,200 rpm
Inlet diameter	6"
Outlet diameter	5"
Weight	2,090 lbs
Dimensions	41x39x59



# Mud Mixer

TSC Mud Mixers are used to efficiently blend treating materials into the mud. They come in two models: HVM, a cyclone-style mixer, and HJM, a jet-style mixer. Both mixers feature superior mixing capability, fast feed, and are not easily jammed. The pressure drop across the HVM hopper is relatively large compared to the HJM's jet-mixing hopper. The shearing effect of the jet mixer is improved when it is used along with the TSC HSP Shear Pump.

Please contact your local TSC representative to learn more about the complete line of TSC solids control products.



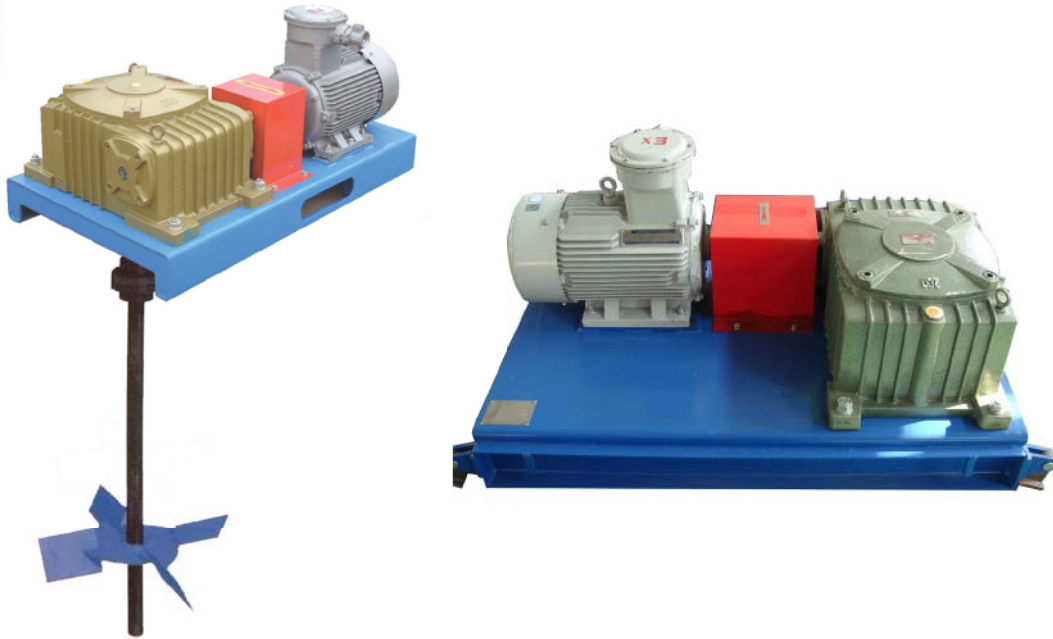
Model	HVM-250	HJM-200
Capacity	1,145~1,321 gpm	881 gpm
Inlet pressure	44~87 psi	44~87 psi
Outlet pressure	≤5.8 psi	14.5~29 psi
Nozzle size		2"
Inlet diameter	6"	6"
Outlet diameter	6"	6"
Weight	742 lbs	312 lbs
Dimensions	59×28×43	54×30×38



# Mud Agitator

The TSC Mud Agitator is an important part of the solids control system. It is mounted on the circulating tank so that the agitator vanes engage the mud by stirring it uniformly. The TSC design features rigid shafts which are offered in variable lengths to fit different pit dimensions.

Please contact your local TSC representative to learn more about the complete line of TSC solids control products.



Model	HA-5.5	HA-7.5	HA-11	HA-15
Power	7.4 HP	10 HP	14.8 HP	20 HP
Motor speed (rpm)	1,440/1,750	1,440/1,750	1,440/1,750	1,440/1,750
Impeller speed (rpm)	58/70	58/70	58/70	58/70
Impeller diameter (in)	23.62/19.68	31.5/25.59	35.43/29.52	39.37/31.5
Weight	1,168 lbs	1,323 lbs	1,440 lbs	1,830 lbs
Dimensions	41×30×24.4	46×30×26	51×32×28	53×32×28

Model	HA-2.2	HA-4	HA-18.5	
Power	3 HP	5.4 HP	25 HP	
Motor speed (rpm)	1,440/1,750	1,440/1,750	1,440/1,750	
Impeller speed (rpm)	58/70	58/70	58/70	
Impeller diameter (in)	15.75/13.78	19.69/15.75	47.25/39.37	
Weight	331 lbs	1,052 lbs	2,213 lbs	
Dimensions	26×20×18	37×28×22	61×36×30	





# Liquid-Gas Separator

HLGS Mud Gas Separator is designed for primary removal of the entrained gas from drilling fluid. Major features include simple structure, easy transportation and install, large capacity, and high efficiency.

Please contact your representative for more details.



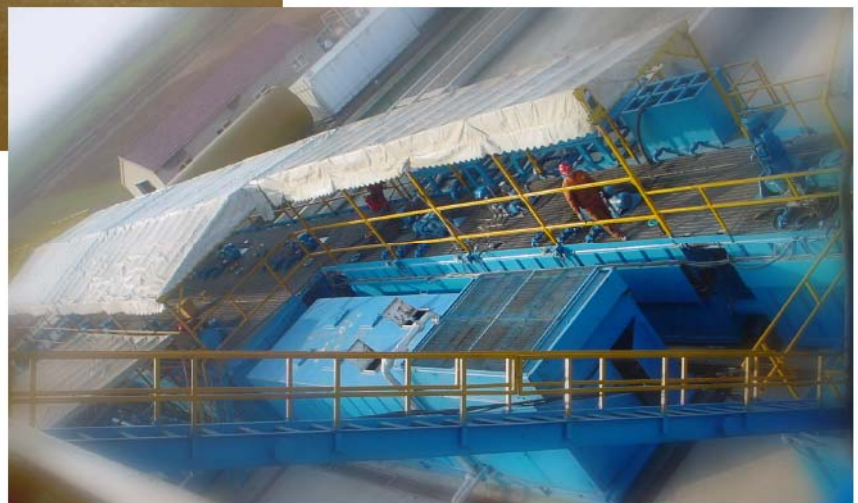
Model	HLGS800/1000/1200-1	HLGS1000/1200-4
Capacity	1,145 gpm / 1,321 gpm / 1,540 gpm	1,321 gpm / 1,540 gpm
Design pressure	142 psi	568 psi
Sleeve diameter	31.5" / 39.4" / 47.2"	39.4" / 47.2"
Feeding pipe	5" / 6"	5" / 6"
Mud discharge pipe	8" / 10"	8" / 10"
Gas discharge pipe	8"	8"
Weight	4,630 lbs / 6,173 lbs / 7,275 lbs	9,471 lbs / 12,775 lbs
Dimensions	63×63×223 79×79×244 87×87×244	87×87×244



# Drilling Fluid Circulation

Using modular technology, TSC's Drilling Fluid Circulation System facilitates customers wide range of applications and tailored solutions for 10,000 ft, 15,000 ft, 28,000 ft, and 35,000 ft land rig application.

For additional information, please ask for performance brochures on TSC HS shakers, mud cleaners, centrifuges and centrifugal pumps.



TSC Manufacturing and Supply LLC, 13788 West Road, Suite 100, Houston, Texas 77041, USA  
Tel: +1 832 456 3900 Fax: +1 832 456 3998 Email: [sales@t-s-c.com](mailto:sales@t-s-c.com)  
Visit our Website at [www.t-s-c.com](http://www.t-s-c.com)

04/2014