

HIGH-VOLUME MUD CLEANERS



FEATURES

- Assists with environmental compliances
- Cuts downtime and reduces repair
- Complete product line provides diverse configuration options
- Field-proven performance

BENEFITS

- Lowers drilling-fluid and disposal costs
- Minimizes maintenance on downstream equipment
- Compatible with oil- or water-base muds
- Effective in controlling drilled solids and retaining expensive barite

The M-I SWACO* line of mud cleaners consists of a two-stage separation process using a combination of hydrocyclones mounted over a shale shaker to operate as a single unit.

Designed to handle the entire circulating volume, mud cleaners are effective on both weighted and unweighted drilling-fluid systems in removing and drying solids while retaining the expensive liquid. The hydrocyclones make the primary separation with underflow directed onto the shaker's vibrating screen. Used correctly, M-I SWACO mud cleaners lower both drilling-fluid and disposal costs.

Features

Versatile. M-I SWACO mud cleaners can be configured with an M-I SWACO D-SILTER*, a D-SANDER* or both over a high-performance shaker to process weighted or unweighted drilling-fluid systems.

Environmentally efficient. Removing and drying drilled solids helps meet environmental regulations by minimizing waste generated and reducing disposal costs.

Minimizes maintenance. Continuous removal of sand and abrasive cuttings from drilling fluid cuts downtime and reduces repair and replacement of worn parts on downstream equipment.

Wide range of mud cleaners for your drilling-fluid system.

M-I SWACO mud cleaners are available in a variety of configurations.

The Model 6T4 (12 clone), Model 8T4 (16 clone) and Model 10T4 (20 clone) D-SILTERS, when matched with an M-I SWACO shale shaker, provide processing rates from 900 to 1,500 GPM (3,406.9 to 5,678.1 L/min). The Model 2-12 D-SANDER, when matched with an M-I SWACO shaker, provides processing capabilities to 1,000 GPM (3,785.4 L/min).

The three-in-one Model 2-12 D-SANDER and Model 6T4 (12 clone) D-SILTER mounted over an M-I SWACO highperformance shaker provides the most versatile separation combination package with rates of 1,000 and 900 GPM (3,785.4 and 3,406.9 L/min) respectively.

Works with oil- or water-base muds. M-I SWACO mud cleaners are designed to work with either oil- or water-base weighted muds, as well as with either dispersed or non-dispersed muds. They are also effective on unweighted drilling-fluid systems, removing fine drilled solids while retaining expensive liquid phases. Field-proven, M-I SWACO mud cleaners are especially effective in controlling drilled solids and retaining expensive barite when used in conjunction with M-I SWACO fine-screen shale shakers and centrifuges.



How It Works

Mud cleaners combine a hydrocyclone system with a shale shaker to help remove the fine drilled solids from the drilling fluid.

Together, they have the capability to process the entire drilling-fluid circulation volume, and remove drilled solids from weighted mud systems; retaining expensive barite and liquids, and economically reducing hole problems associated with excessive drilled solids. Drilling fluid passes through a series of hydrocyclones — either D-SILTER or D-SANDER units — that separate the fine, light particles from the heavy, coarse particles. Barite and other heavy drilled solids are then carried in the underflow to a 100- to 200-mesh vibrating screen. There, they are separated, with the barite passing through the screen and returning to the active system.

The M-I SWACO D-SILTER unit features the exclusive polyurethane TWIN SWACONE* D-SILTER cones with a unique 20° taper angle (compared to the 15° taper angle on most other units). The twin-cone design provides a 50% greater capacity than other 4-in. (102-mm) cones.

The M-I SWACO D-SANDER Model 2-12 and Model 3-12 are designed to remove sands and abrasive cuttings, 95% of all particles to 74 microns and more than 50% of particles to 40 microns. The D-SANDER unit features your choice of two or three 12-in.- (304.8-mm-) diameter replaceable wear-resistant polyurethane hydrocyclones and quick-release stainless-steel clamps for simplified changeout.

These high-volume mud-cleaner product combinations provide drillers a wide range of efficient, space-saving processing options including connection to centrifuges for barite recovery.

D-SANDER Mud Cleaner Specifications

Model	Number of Clones	Length in. (mm)	Width in. (mm)	Height in. (mm)	Weight lb (kg)	Capacity gpm (L/min)
1-12 D-SANDER (vertical)	1	33 (838.2)	19.5 (495.3)	74.4 (1,889.8)	401 (181.9)	500 (1,892.7)
2-12 D-SANDER (vertical)	2	36 (914.4)	51.5 (1,308.1)	71.2 (1,808.5)	1,125 (510.3)	1,000 (3,785.4)
2-12 D-SANDER (slant)	2	78 (1,981.2)	47.5 (1,206.5)	35.2 (894)	1,030 (467.2)	1,000 (3,785.4)
3-12 D-SANDER (vertical)	3	40.7 (1,033.8)	75.5 (1,917.7)	78.3 (1,988.8)	1,878 (851.9)	1,500 (5,678.1)
3-12 D-SANDER (slant)	3	83 (2,108.2)	71 (1,803.4)	41.5 (1,054.1)	2,450 (1,111.3)	1,500 (5,678.1)

D-SILTER Mud Cleaner Specifications

Model	Number of Clones	Length n. (mm)	Width in. (mm)	Height in. (mm)	Weight lb (kg)	Capacity gpm (L/min)
4T4	8	52 (1,320.8)	30 (762)	56.1 (1,424.9)	680 (308.4)	600 (2,271.2)
6T4	12	66 (1,676.4)	30 (762)	56.1 (1,424.9)	800 (362.9)	900 (3,406.9)
8T4	16	80.3 (2,039.6)	30 (762)	56.1 (1,424.9)	925 (419.6)	1,200 (4,542.5)
10T4	20	94.5 (2,400.3)	32 (812.8)	60.3 (1,531.6)	1,150 (521.6)	1,500 (5,678.1)

Combo D-SANDER/D-SILTER Specifications

Model of D-SANDER	Model of D-SILTER	Number of Clones	Length in. (mm)	Width in. (mm)	Height in. (mm)	Weight lb (kg)	Capacity gpm (L/min)
2-12 D-SANDER	6T4	12	129.5 (3,289.3)	72.8 (1,849.1)	97 (2,463.8)	7,072 (3,207.8)	1,000/900 (3,785.4/3,406.9)
2-12 D-SANDER	8T4	16	129.8 (3,296.9)	80.5 (2,044.7)	97 (2,463.8)	7,162 (3,248.6)	1,000/1,200 (3,785.4/4,542.5)



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