



With the combination of a desander and desilter mounted over a powerful multi-functional Hyper-G™ shaker, Elgin’s line of mud cleaners offer both high performance and versatility for the operator. This integration of advanced equipment puts forth a unit that can handle large volumes of circulating fluids and is able to retain fluid integrity.

Features such as our patented ‘Water-Fall’ screen deck configuration, wedge-lock fastening system, mud bypass gate, desilter hydrocyclone isolation valves, and explosion proof enclosures provides a durable, highly efficient mud cleaning system.

With our in-house engineering and design capabilities, Elgin can integrate any number of hydrocyclone arrangements with any of our shakers. In all cases, Elgin’s hydrocyclones come with polyurethane bodies, where erosion resistant inserts are available. Standard hydrocyclone cone sizes available include 4”, 5”, 10”, and 12” and can be provided in arrangements of one to 20 cones. To ensure optimum separation capability, the pressure differential through the hydrocyclone manifold can be controlled by the installation of isolation valves on each cone.

To add an additional layer of screen protection, hydrocyclone manifold discharges can be collected in underflow collection troughs or each cone can be fitted with a flow-deflection, “screen saver.” In Elgin’s patented multi-functional mud cleaners, the collection troughs can then be directed to the top deck or bottom deck depending on the application and desired level of solid-liquid separation.

### Desander Options

KT-DSN-112	One 12” Cone	500 gpm	31.5 lps
KT-DSN-212	Two 12” Cones	1,000 gpm	63.0 lps
KT-DSN-312	Three 12” Cones	1,500 gpm	94.5 lps
KT-DSN-110	One 10” Cone	500 gpm	31.5 lps
KT-DSN-210	Two 10” Cones	1,000 gpm	63 lps
KT-DSN-310	Three 10” Cones	1,500 gpm	94.5

### Desilter Options

KTDSL-10-240	Ten 4” Cones	650 gpm	41.0 lps
KTDSL-12-240	Twelve 4” Cones	780 gpm	49.2 lps
KTDSL-16-240	Sixteen 4” Cones	1,040 gpm	65.6 lps
KTDSL-20-240	Twenty 4” Cones	1,300 gpm	82.0 lps
KTDSL-10-250	Ten 5” Cones	800 gpm	50.5 lps
KTDSL-12-250	Twelve 5” Cones	960 gpm	60.6 lps
KTDSL-16-250	Sixteen 5” Cones	1,280 gpm	80.8 lps
KTDSL-20-250	Twenty 5” Cones	1,600 gpm	101 lps



**Maximum Screen Surface Area**  
Elgin mud cleaners come in four or six panel configurations. Featuring an impressive 9 sq. ft. screen surface area per panel.

**Explosion Proof Enclosures**  
Elgin shakers can be provided with NEMA 4, NEMA 7, CE, and ATEX enclosures and controls.



**Valve Isolation**  
Hydrocyclone desilter manifold features individual valve isolation for easy cone maintenance and pressure control during operation.





### Shakers

All Elgin mud cleaners utilize linear and dual-motion shakers.



### Modular Solids Management Design

Elgin solids control equipment can be purchased as a complete integrated system or piece-by-piece as your needs grow.



### Decanter Centrifuge

Add a centrifuge to your solids control system for further removal of ultra-fine solids.



### Complete Mud Management Systems

By integrating Elgin's mud cleaners with our dewatering systems, we have the resources to provide you a complete solution.

## Hydrocyclones

Elgin's polyurethane molded hydrocyclones are available in a number of configurations, ranging from 60 gpm systems to 2,000 gpm systems and capable of achieving a solids cut point of 25 microns. Each hydrocyclone is made of high durameter, durable polyurethane and can be fitted with independent valve isolation, discharge deflection devices, and pressure monitoring systems. For abrasive solids, Elgin can also fit our polyurethane hydrocyclones with ceramic liners to maximize equipment life.



Shaker Model:	ESS-48STD MC
Equipment Image:	
Screen Type:	KPT-28
Vibratory Motors:	(2) 2.4 hp (1.8 kW) or (2) 2.5 hp (1.9 kW)
Screen Surface Area:	36 sq. ft. (5.2 m <sup>2</sup> )
Maximum Flow Rate*:	500 to 1,500 gpm (31.5 to 94.6 lps)
Length:	120" (305 cm)
Width:	70" (178 cm)
Height:	95 3/8" (242 cm)
Weight:	6,921 lbs (3,140 kg)
Common Features:	All units can be provided with 380V / 50Hz or 460V / 60Hz; generate a noise level less than 80 decibels (dB) and are fitted with an adjustable deck capable of inclinations of -2° to +5°. All units come standard with explosion proof motors and enclosures.

\*Maximum flow rate is dependent on the configuration, number and size of hydrocyclones used.

