



With the combination of desander and desilter hydrocyclones mounted over a powerful multi-functional Hyper-G™ shaker, Elgin's line of mud cleaners offer both high performance and versatility. This integration of advanced equipment puts forth a unit that can handle large volumes of circulating fluids while retaining 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 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 (1) to twenty (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 is collected in underflow troughs. In Elgin's 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 liquid/solids separation.

Desander Options		
Model	Number of Cones	Flow Rate
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 lps)

Desilter Options		
Model	Number of Cones	Flow Rate
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)

## Mud Cleaner Features:



**Maximum Screen Surface Area**  
Elgin mud cleaners come in three, 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 can be equipped with dual-motion and variable speed options.



### 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 for zero discharge operations.

## Hydrocyclones

Elgin's polyurethane molded hydrocyclones are available in a number of configurations, ranging from 60 gpm systems to 3,000 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.



Mud Cleaner Model:	Hyper-G 3PMC™
Equipment Image:	
Screen Type:	BlueCrest 28™ & BlueWave 28™ Composite Screens
Vibratory Motors:	(2) 2.0 hp (1.5 kW) or (2) 2.5 hp (1.9 kW)
Screen Surface Area:	28 sq. ft. (2.6 m <sup>2</sup> )
Maximum Flow Rate*:	500 to 1,500 gpm (31.5 to 94.6 lps)
Length:	120" (305 cm)
Width:	74" (188 cm)
Height:	84" (213 cm)
Weight:	6,245 lbs (2,832 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.