



KEMTRON HDD 400 Pro[™] Fluid Recycling System

High-Performance
Mud Recycling for HDD
and Utility Drilling



Built for Demanding Job Sites

Engineered by Astec, the KEMTRON HDD 400 Pro[™] delivers unmatched efficiency and performance for horizontal directional drilling (HDD), water well, geothermal, and utility drilling operations. With a processing capacity of up to 400 gallons per minute (25 lps), this compact, yet powerful, system is perfectly suited for rigs such as the Ditch Witch[®] JT60, Vermeer[®] D60x90, and similar.

Advanced Multi-Pass Cleaning System

Unlike traditional single-pass units, the KEMTRON HDD 400 Pro[™] employs a multi-pass configuration, recirculating fluid through the system to enhance the performance of its Hyper-G 4P[™] linear motion shaker and Vortex 4[™] hydrocyclones. This ensures cleaner fluid, less downtime, and improved drilling efficiency.

Smart, Serviceable Design

- Phenolically lined 2,275-gallon tank extends equipment life by resisting abrasive and erosive wear.
- Inset pump locations for easier access and lower maintenance effort.
- EPA Tier-4 Final 60 kW generator option, sound-attenuated for quiet operation in noise-sensitive environments.
- Integrated ladder and expanded deck space for safe, efficient access.

Superior Solids Control Components

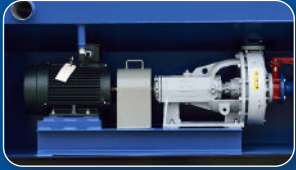
- 38 sq. ft. screen surface area—the largest in its class—for exceptional sand and silt removal.
- Six Vortex 4[™] 4-inch hydrocyclones with optional ceramic inserts for extended wear life.
- Three Vision 32CS[™] centrifugal slurry pumps, each rated at 20 hp, providing robust operation for desilter, transfer, and mud gun/hopper operations.
- BlueWave 28[™] and BlueCrest 28[™] composite shaker screens—lightweight, durable, and optimized for high G-force separation.

Industry-Leading Durability & ROI

The KEMTRON HDD 400 Pro[™] is engineered for long service life and minimal maintenance, delivering lower total cost of ownership and higher ROI through jobsite efficiency, environmental compliance, and maximum uptime.

* Vermeer[®] and Ditch Witch[®] and their respective products are protected trademarks and are not affiliated with Astec Industries or Elgin Separation Solutions

KEMTRON HDD 400 Pro™ Fluid Recycling System



Vision 32CS™

Two dedicated centrifugal slurry pumps for desilter and mud gun / transfer operations.



Additives Hopper

3" solids hopper with Venturi nozzle.



Vortex Hydrocyclones™

Six Vortex 4™ desilter hydrocyclones for secondary sand and silt removal.



Linear Motion Shaker

Double-deck, four panel linear motion shaker with 2.0 hp vibrator motors.

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Model Number:	KEMTRON HDD 400 Pro™
Description:	Four Panel, Dual-Deck Linear Motion Shaker with Desilter Manifold
Screen Type:	BlueWave 28™ & BlueCrest 28™ Composite Screens
Maximum G-Force:	5 G's
Centrifugal Pumps:	Vision 32™ Three (3) 20 hp
Vibratory Motors:	(2) 2.0 hp (1.5 kW)
Number of Screen Panels:	4 Panels (Two Top Deck, Two Bottom Deck)
Screen Surface Area:	38 sq. ft. (3.5 m ²)
Maximum Flow Rate*:	400 gpm (25.0 lps)
Vortex™ Hydrocyclones:	(6) Vortex 4™ Desilter Hydrocyclones
Dimensions:	28.1' (8.5 m) L x 8.5' (2.6 m) W x 12.5' (3.8 m)H
Weight:	23,000 lbs (10,432 kgs) (Trailer Unit with Genset)
Tank Capacity:	2,275 gallon (8,612 liters)

*Maximum flow rate is dependent on the number and size of hydrocyclones used, solids concentration, fluid viscosity, & shaker settings.

Options (Upgrade Packages)

Upgrade to Ceramic 4" Desilter Hydrocyclones - Add ceramic inserts to cones for improved life and performance.

Trailer Mounted System - Add a 21,000 lbs (13,607 kg) rated triple-axel trailer.

Generator Package - Add a EPA Tier-4 Final sound-attenuated 60 kW diesel generator to provide local electrical power for the shaker and all pumps with an on-board diesel tank. Sound attenuated generators also available.

Submersible Feed Pump - Add a PitBull 400™ 400 gpm (25.2 lps), 5.5 hp, submersible pump to deliver fluid to the recycling system.

Explosion Proof Configuration - Add a NEMA 7 explosion proof control panel. Replace all vibrator and pump motors with explosion proof motors. Explosion proof generator packages not available.

Winterization Package - For harsh environmental conditions. Elgin has an in-house engineering department capable of customizing your system to meet any harsh weather needs.



Clean your fluid even further with the addition of a high-speed decanter centrifuge with polymer injection system.