



KEMTRON HDD 1000 Pro™ Fluid Recycling System

ASTEC | KEMTRON HDD offers innovative turn-key solutions for today's operators in the trenchless industry. As such, Astec has become the leading provider of effective packaged fluid recycling systems.

Within its class, the KEMTRON HDD 1000 Pro™ has the highest rated hydraulic cleaning capacity at an impressive 1,000 gallons per minute (63 lps) flow rate. Featuring two dual-deck, six-panel Hyper-G 6P™ shakers, with a total 112 sq. ft. (10.4 m²) of screening surface that provide substantially more cleaning capacity when dealing with large bores. Initial scalping cut can be processed by both shakers or just one via a unified inlet manifold with isolation valves for maximum performance.

Traditional systems offer single pass cleaning, while the KEMTRON HDD 1000 Pro™ features a multi-pass configuration, allowing each cut to be returned to the primary tank for continuous recirculation. This feature maximizes the shaker and hydrocyclone cleaning efficiency. Shaker performance is further enhanced with a single-point gear-driven jacking system, allowing the operator to adjust deck inclination as needed without tools or unit shutdown.

Dedicated Vision 64™ slurry pumps manage desilter, desander and hopper/mud gun/transfer operations to maximize pressures needed to ensure proper mixing, optimum hydrocyclone performance, reduced hopper clogging and adequate transfer pressure back to drilling rig.

In addition, the new KEMTRON HDD 1000 Pro™ features lift assist cylinders installed on each catwalk section for ease of operation when installing the system. Combine all this with a Tier-4 Final fully sound-attenuated 150kw generator package, 6,000 gallon (22,712 liters) tank, onboard pressure washer, improved tank to tank transfer system, enhanced tank plumbing, and increased deck space, the KEMTRON HDD 1000 Pro™ packaged fluid reclaimer is the perfect solution for your solids control needs.

KEMTRON HDD 1000 Pro™ Benefits:

- Multi-pass cleaning system maximizes shaker and hydrocyclone performance helping to maintain target mud weights.
- Two (2) Vortex 12™ hydrocyclone desanders and twelve (12) Vortex 5™ hydrocyclone desilters with pressure gauges and dedicated isolation valves for ease of maintenance.
- Hyper-G 6P™ shaker with rubber vibration isolators, providing reduced noise, long-lasting, maintenance free operation.
- Two dual-deck Hyper-G 6P™ shakers with a total of 112 sq. ft. screen surface area.
- Most efficient tank agitation per unit volume of mud utilizing high pressure mud guns ensuring complete mixing performance.
- Hydraulic lift-assist catwalk design allows for ease of installation onsite.
- Onboard pressure washing system with dedicated fresh water tank for screen and unit cleaning.

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Vision 32CS™

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



High Shear Hopper

Six-inch high jet shear mixing hopper with venturi nozzle and table makes chemical loading safe and efficient.



Vortex 12™ Hydrocyclones

Two Vortex 12™ desander hydrocyclones for second stage sand and silt removal.



Vortex 5™ Hydrocyclones

Twelve Vortex 5™ desilter hydrocyclones with isolation valves for final stage sand and silt removal.

Model Number:	KEMTRON HDD 1000 Pro™
Screen Type:	BlueWave 28™ & BlueCrest 28™ Composite Screens
Maximum G-Force:	7 G's
Centrifugal Pumps:	Three (3) Vision 64CS™ 40hp
Vibratory Motors:	(2) 3.3 hp (2.5 KW) per shaker
Number of Screen Panels:	Six (6) Composite Screen Panels per shaker (Two Shakers Total)
Screen Surface Area:	56 sq. ft. (5.2 m ²) per shaker
Maximum Hydraulic Capacity*:	1,000 gpm (63 lps)
Vortex Hydrocyclone™ Desanders:	Two (2) Vortex 12™ Desanders
Vortex Hydrocyclone™ Desilters:	Twelve (12) Vortex 5™ Desilters
Unit Dimensions**:	45.6' (13.9 m)L x 8.25' (2.51 m) W x 13.5' (4.1 m)H
Weight:	46,000 lbs (20,864 kg) (Trailer Unit with Genset)
Tank Capacity:	6,000 gallon (22,712 liters)

Options (Upgrade Packages)
Trailer Mounted System - Add a 5th wheel, dua-axel, 25,000 lbs each, with 22.5" Hutch tires.
Generator Package - Add a Tier-4 Final fully sound-attenuated 150 kW diesel, sound attenuated generator to provide local electrical power for the shaker and all pumps with an extended service diesel tank.
Submersible Feed Pump - Add a 900 gpm (57 lps), 15 hp, submersible feed pump to the system to deliver fluids to the recycling system.
Winterization Package - For harsh environmental conditions. Elgin has an in-house engineering department capable of customizing your system to meet any harsh weather needs.

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

** Dimensions stated are transport size with folding catwalk.



Perfect Solution For*:

Vermeer[®] - D220x300, D330x500, D500x500, D750x900

American Augers[®] - DD-440T

Herrenknecht[®] - HK80CK, HK100C, HK150C

Universal[®] - UNI 220x240, UNI 250x400, UNI 440x700

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Apex 16FVFD™

Add a Decanter Centrifuge to create a closed loop dewatering system.