



More than an original equipment manufacturer, Elgin Separation Solutions offers innovative turn-key solutions for today's operators in the trenchless industry. As such, Elgin has become the leading provider of effective packaged fluid recycling systems.

Within its class, the KEMTRON 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 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 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 250 series centrifugal 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. Built in high/low level tank sensors turn pumps on and off, when operated in 'Auto Run' mode, to protect from running dry and tank overload.

In addition, the new KEMTRON 1000 Pro™ features lift assist cylinders installed on each catwalk section for ease of operation when erecting 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 1000 Pro™ packaged fluid reclaimer is the perfect solution for your solids control needs.

## KEMTRON 1000 Pro™ Benefits:

- Multi-pass cleaning system maximizes shaker and hydrocyclone performance helping to maintain target mud weights.
- Two (2) 12" hydrocyclone desanders and twelve (12) 5" hydrocyclone desilters with pressure gauges and dedicated isolation valves for ease of maintenance.
- Hyper-G™ shaker with Firestone's Marsh Mellow™ vibration isolators, providing reduced noise, long-lasting, maintenance free operation.
- Two dual-deck Hyper-G 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 for screen and tank cleaning.



**Centrifugal Pumps**  
Inset pump pockets for direct access to each pump for ease of operation and maintenance.



**Additives Hopper**  
6" hopper with venturi nozzle and table makes chemical loading safe and efficient.



**Desanders**  
Two 12" desander hydrocyclones for second stage sand and silt removal.



**Desilters**  
Twelve 5" desilter hydrocyclones with isolation valves for final stage sand and silt removal.

Model Number:	KEMTRON 1000 Pro™
<b>Screen Type:</b>	BlueCrest™ Composite
<b>Maximum G-Force:</b>	7 G's
<b>Centrifugal Pumps:</b>	(2) 6 x 5, (1) 8 x 6 250-Series 50 hp motors
<b>Vibratory Motors:</b>	(2) 3.3 hp (2.5 KW) per shaker
<b>Number of Screen Panels:</b>	Two, dual-deck shakers each with six (6) composite screen panels
<b>Screen Surface Area:</b>	56 sq. ft. (5.2 m <sup>2</sup> ) per shaker
<b>Maximum Hydraulic Capacity*:</b>	1,000 gpm (63 lps)
<b>Hydrocyclone Desanders:</b>	Two (2) qty 12" (2.8 cm) cones (standard)
<b>Hydrocyclone Desilters:</b>	Twelve (12) qty 5" (12.7 cm) cones (standard)
<b>Unit Dimensions**:</b>	40.8' (12.5 m)L x 8.25' (2.51 m)W x 13.5' (4.1 m)H
<b>Weight:</b>	44,400 lbs (20,139 kg) (Trailer Unit with Genset)
<b>Tank Capacity:</b>	6,000 gallon (22,712 liters)

Options (Upgrade Packages)
<b>Trailer Mounted System</b> - Add a 5th wheel, dual-axle, 25,000 lbs each, with 22.5" Hutch tires.
<b>Generator Package</b> - 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.
<b>Submersible Feed Pump</b> - Add a 900 gpm (57 lps), 15 hp, submersible feed pump to the system to deliver fluids to the recycling system.
<b>Winterization Package</b> - 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 16 FHD™

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