

ELGIN

KEMTRON 600 Pro™

Turn-Key Mud Recycling System



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 turn-key fluid recycling systems.

Natural Resource Recycling • Product Classification • Dewatering • Fluid Recovery
Waste Management • Material Handling • Liquid/Solid Separation • Crushers • Feeders

10050 Cash Road • Stafford, Texas 77477 • +1 281-261-5778
www.elginseparationsolutions.com

TERRASOURCE
GLOBAL

OUR FLAGSHIP BRANDS

GUNDLACH
CRUSHERS

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Pennsylvania
Crusher

ELGIN

Elgin Separation Solutions has been the industry leader in providing effective packaged mud recycling systems for over 30 years. Terms like durable, long-lasting, high-quality and maximum performance defines the innovative turn-key solutions Elgin's reclaimers are known for in the trenchless industry.

Within its class, the KEMTRON 600 Pro™ set the standard operators expect for today's drilling conditions with high volume tank capacity, inset pump cabins for maximum servicability and the largest screen surface area for sand and silt removal.

New for 2020, Elgin's KEMTRON 600 Pro™ turn-key mud recycling system features Abrasion Resistant Slurry Pumps, Next-Generation Wave Screens, High Efficiency Jet Shear mixing system and Independent Polyurethane Pressure Washer Tank.

Abrasion Resistant Slurry Pumps

Rubber-lined slurry pumps are designed to dramatically improve both the pump life and ease of operation. No competing system in the market provides abrasion resistant centrifugal slurry pumps.



Abrasion Resistant Centrifugal slurry Pump

Next Generation Pre-Tensioned Wave Screens

Elgin's proprietary wave screens provide for 46% more surface area. Combined with Elgin's dual-deck shaker, no shaker in the market provides for more screening surface area.

'Smart Panel' Control Technology

Designed with clean and dirty tank level sensors, the KEMTRON 600 Pro™ provides full pump automation resulting in dramatically less operator attention. Advanced 'Cruise-Control' automation independently turn pumps on and off based on tank fluid levels to maximize pump life. Also available with full wireless control from any Smart Phone Tablet or PC. No competing system in the market provides for this level of system automation.

KEMTRON 600 Pro™ Features:

- Multi-pass continuous recirculation cleaning system maximizes shaker and hydrocyclone performance.
- Largest screen surface area, 56 sq. ft. (5.2 m²), outperforms competitors in sand and silt removal.
- Smart-Panel technology with Wi-Fi network for lowest operator oversight of any reclaimer in the industry.
- Elgin's Hyper-G™ shaker with Firestone's Marsh Mellow™ vibration isolators, providing reduced noise, long-lasting, maintenance free operation.
- Most efficient tank agitation per unit volume of mud ensures complete mixing performance.
- Dedicated centrifugal pumps, inset on the side of the tank for easy maintenance, provide dedicated transfer, mud circulation/hopper, and desilter operations.
- Elgin's tanks are phenolically lined to maximize tank life and reduce the effects associated with the circulation of abrasive/erosive solids.

High Efficiency Jet Shear Mixing

Onboard jet shear system ensures efficient mixing of soluble polymers and bentonite used in water-based drilling fluids, therefore, eliminating "fish eyes." Drilling fluid yield and gel strength properties are instantly obtained with hydraulic shearing of bentonite or organophilic clays.



High Efficiency Jet Shear Mixing System



No other system on the market can outperform the new KEMTRON 600 Pro™.



Hydraulically Operated Leveling Jacks

Elgin's premium engineered trailers are designed for durability and dependability. Combined with hydraulic leveling jacks, no system can be deployed more efficiently.

Sound-Attenuated Generator Packages

Using Perkins™ engines and Stamford™ alternators, Elgin's generator packages are provided with the industry's most sound-attenuated generator enclosures.

Ball Valve Flow Control

Elgin has eliminated traditional gate valves and incorporated a series of ball valves to reduce valve washout and maintenance.

Pump Winterization

Built in access valves for easy pump system winterization.

Onboard Pressure Washer

Onboard pressure washer is calibrated for easy screens cleaning without damaging the wire cloth. Elgin's newest KEMTRON 600 Pro™

incorporates a completely independent polyurethane pressure washer tank.

No other solutions on the market can outperform the new KEMTRON 600 Pro™ Turn-Key Mud Recycling System. Increase your operation's performance with the industry's leading turn-key solution.

Maximize Sand and Silt Removal Performance with the KEMTRON 600MX Pro™

- Increased tank size to 5,000 gallon capacity.
- Able to handle higher solids content with the onboard 12-inch hydrocyclone desander.
- Optimized desilter performance with larger solids removed by the desander.
- Capable of handling larger flow rates with onboard 12-inch desander.
- Optional dual-motion, variable speed Hyper-G™ shaker is more effective when managing clays via balanced elliptical motion.



KEMTRON 600MX Pro™
Featuring Desilter and Desander
Hydrocyclone Manifold





Model Number:	KEMTRON 600 Pro™	KEMTRON 600MX Pro™
Description:	Six Panel, Dual-Deck Linear Motion Shaker with Desilter Manifold	Six Panel, Dual-Deck Linear Motion Shaker with Desilter & Desander Manifold
Screen Type:	BlueCrest™ or Blue-Wave™ Composite Screen	BlueCrest™ or BlueWave™ Composite Screen
Maximum G-Force:	7 G's	7 G's
Abrasion-Resistant Slurry Pumps:	3 Qty. - 3x4x14 Centrifugal Slurry 25 hp	4 Qty. - 3x4x14 Centrifugal Slurry 25 hp
Vibratory Motors:	(2) 3.3 hp (2.4 kW)	(2) 3.3 hp (2.4 kW)
Number of Screen Panels:	6-Panel Dual-Deck	6-Panel Dual-Deck
Screen Surface Area:	56 sq. ft. (5.2 m ²)	56 sq. ft. (5.2 m ²)
Hydraulic Capacity*:	600 gpm (37.8 lps)	600 gpm (37.8 lps)
Hydrocyclones:	8 Qty. 4" Desilter	8 Qty 4" Desilter 1 Qty. 12" Desander
Dimensions:	33' (10 m)L x 8.5' (2.6 m)W x 13' (4 m)H	34.5' (10.5 m)L x 8.5' (2.6 m)W x 13.5' (4.1 m)H
Weight:	32,673 lbs (14,820 kgs) (Trailer Unit with Genset)	34,600 lbs (15,694 kgs) (Trailer Unit with Genset)
Tank Capacity:	4,500 gallon (17,000 liters)	5,000 gallon (19,030 liters)

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



Increase your operation's performance with the industry's leading turn-key solution, KEMTRON 600 Pro™ & 600MX Pro™.

Options (Upgrade Packages)
Trailer Mounted System - Add a premium engineered heavy-duty trailer with hydraulic leveling jacks.
Generator Package - Add a Tier-4 Final, fully sound-attenuated, 100 kW diesel generator to provide local electrical power for the shaker and all pumps with an on-board diesel tank. Whisper quiet generators also available. designed with 20% excess capacity.
Submersible Feed Pump - Add an Elgin premium solids-handling submersible feed pump to the system 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.
Shaker Motors - Upgrade to a dual motion, multi-G configuration for selectable linear motion and balanced elliptical motion operation.
Winterization Package - For harsh environmental conditions. Elgin's in-house engineering department is capable of customizing your system to meet any harsh weather needs.

Designed To Be Used With Today's Drilling Rigs*	
American Auger®	DD-240T
Ditch Witch®	JT100
Universal®	110x120, 160x240, 220x240, 250x400
Vermeer®	100x120, 220x300

* American Augers®, Ditch Witch®, Universal® and Vermeer® and their respective products are protected trademarks and are not affiliated with Elgin Separation Solutions or Elgin Equipment Group.

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