



Turn-Key Solids Control, Dewatering and Waste Management Solutions

2022 – Revision H

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



Quality and Reputation that Span Two Centuries.



154 Year Legacy

Founded in 1864 in Elgin,
Illinois, we are a
worldwide leader in
design, manufacture and
service of specialized
solid/liquid separation
and material handling
products.

Multi-Disciplined Manufacturing Team

Elgin is made of two specialized divisions; Elgin Separation Solutions (Liquid/Solid Separation, Solids Separation, and Water Intake Solutions), & Elgin Power Solutions.

Widespread Service Footprint

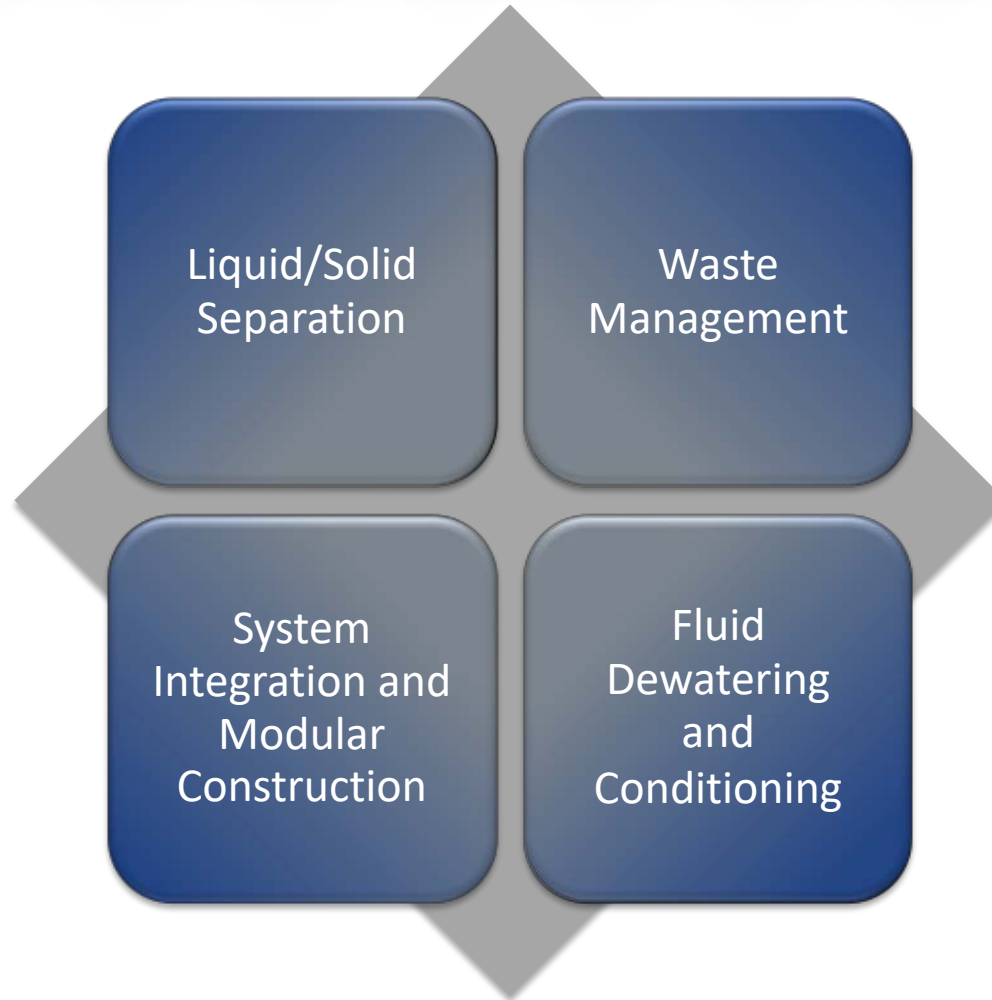
With a complement of new equipment manufacturing facilities, service facilities and spare part stocking locations, Elgin maintains seven operations throughout North America.

No other solids control and drilling fluid management capital equipment manufacturer in the O&G industry, has the legacy and history maintained by Elgin.



Turn-key Solutions Provider

Engineering, Design, Manufacturing, Commissioning and Servicing

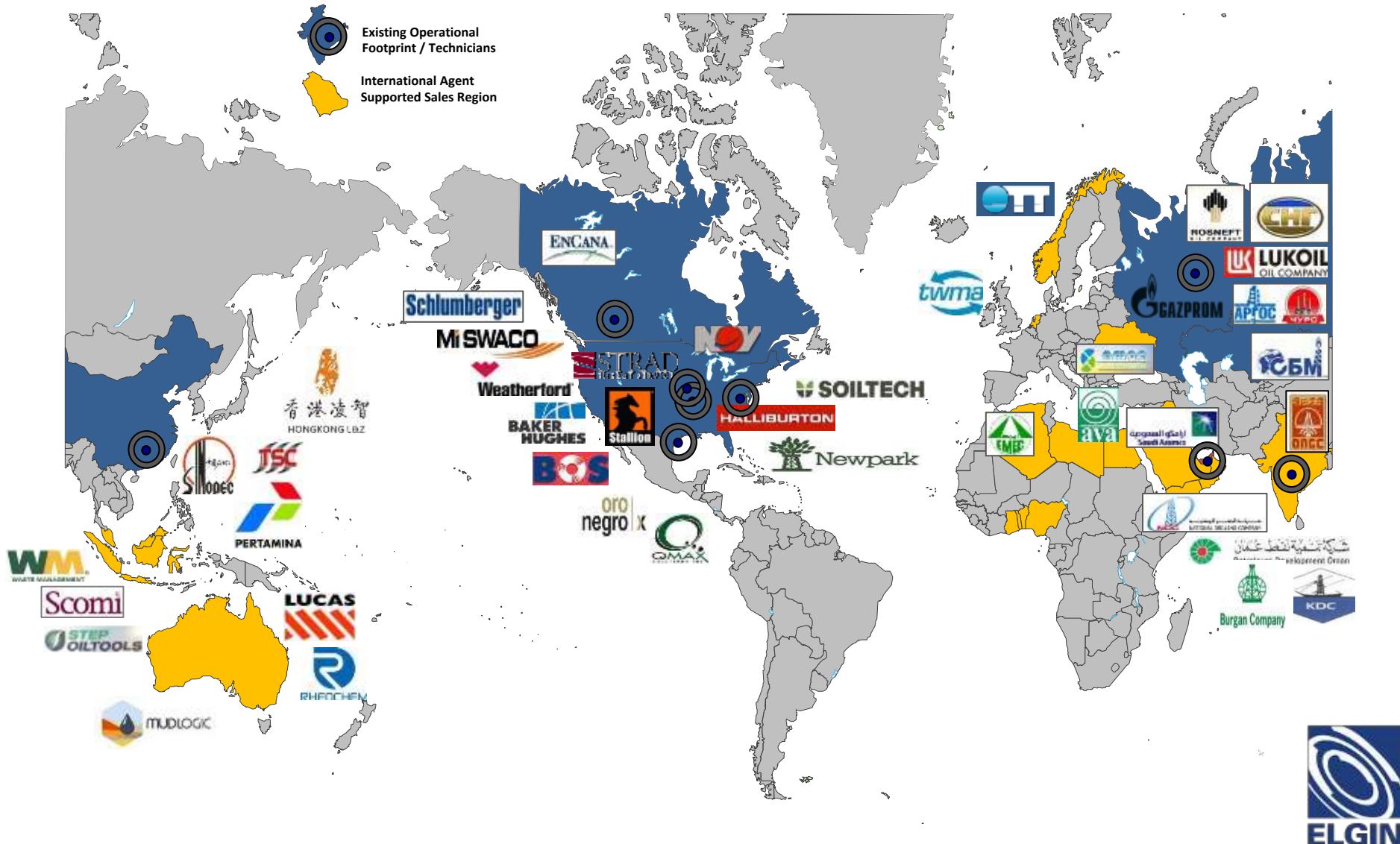


As a turn-key solutions company, we are able to tackle both the small and the big projects, regardless of location.



Organizational Footprint

Elgin Maintains Manufacturing / Service Support Facilities in Five Countries.





Decanter Centrifuge Portfolio



High-Speed Centrifuge Portfolio

Fine and Ultra-Fine Solids Removal.



	ESS-936HD2	ESS-1450HD2	ESS-1655HD2	ESS-1967HD2	ESS-2272HD2
Bowl Diameter:	9" (229 mm)	14" (356 mm)	16" (406 mm)	19" (470 mm)	21.5" (546 mm)
Bowl Length:	36" (914 mm)	50" (1,270 mm)	55" (1,397 mm)	67" (1,702 mm)	72" (1,829 mm)
Maximum G-Force:	2,600	2,100	2,300	2,500	2,750
Maximum Operating Speed:	4,500 rpm	3,250 rpm	3,400 rpm	3,100 rpm	3,000 rpm
Maximum Hydraulic Capacity:	75 gpm (4.7 Lps)	200 gpm (12 Lps)	280 gpm (18 Lps)	500 gpm (31 Lps)	550 gpm (35 Lps)
Planetary Gearbox Ratio:	40:1	52:1 or 125:1	56:1	80:1	48:01:00

Each of Elgin's dekanter centrifuges can be integrated with a host of control system options.



Low-Speed Centrifuge Portfolio

Bird™ Style Solids Removal Centrifuge.



	ESS-1842BD	ESS-1850BD	ESS-2438BD	ESS-2460BD
Bowl Diameter:	18" (457 mm)	18" (457 mm)	24" (609 mm)	24" (609 mm)
Bowl Length:	42" (1,066 mm)	50" (1,270 mm)	38" (965 mm)	60" (1,524 mm)
Maximum Operating Speed:	2,100 rpm	2,100 rpm	2,100 rpm	2,100 rpm
Maximum Hydraulic Capacity:	40 gpm (2.5 Lps)	40 gpm (2.5 Lps)	100 gpm (6.3 Lps)	100 gpm (6.3 Lps)
Planetary Gearbox Ratio:	80:1 or 140:1	80:1 or 140:1	80:1 or 140:1	80:1 or 140:1

Elgin manufactures and repairs a complete line
of Bird™ style 18" and 24" centrifuges.



Centrifuge Controls Portfolio

Available options are dependent on the centrifuge and application



Panel Type:	NEMA 7X MVD Controls	NEMA 4 & 4X VFD Controls	NEMA 4X VFD Controls with Air Conditioning & Purge System	NEMA 7X Air-Cooled VFD Controls	NEMA 7X Hydraulically Driven Controls
Material of Construction:	Cast Aluminum	Stainless Steel or Painted Carbon Steel	Stainless Steel	Cast Aluminum	Cast Aluminum
Electrical Classification:	Class I – Division I Explosion Proof (ATEX Zone I Panel Available)	Class I – Division II Non-Explosion Proof	Class I – Division I / ATEX Explosion Proof	Class I – Division I / ATEX Explosion Proof	Class I – Division I Explosion Proof (ATEX Zone I Panel Available)
Control Type:	Push-Button MVD Controls	HMI Touch-Screen Full VFD	HMI Touch-Screen Full VFD	Push-Button Full VFD Controls	Push-Button Full FHD Controls
Options / Notes:	Soft-Starts Provided for Starters Greater than 30HP	Optional Features Include "Elgin Cruise Control", remote system monitoring, and local WiFi wireless control.	Optional Features Include "Elgin Cruise Control", remote system monitoring, and local WiFi wireless control.	Integrated Non-Contact Air-Cooled System	Available for both Main-Drive and Back-Driven Systems

Elgin's centrifuges can be fitted with a host of custom VFD, FHVD, MVD control options in both explosion proof and non-explosion proof configurations.





Vertical Cuttings Dryer Portfolio



Vertical Cuttings Dryers

CSI-D Series Direct Dual-Drive



Model Number:	CSI-D3™	CSI-D4™	CSI-D5™
Feed Capacity:	30TPH (500 kg/m)	60TPH (1,000 kg/m)	90TPH (1,500 kg/m)
Maximum G-Force:	460V / 60Hz - 300 to 700 G's (VFD) 360V / 50Hz - 300 to 500 G's (VFD)	460V / 60Hz - 300 to 550 G's (VFD) 360V / 50Hz - 300 to 450 G's (VFD)	460V / 60Hz - 300 to 550 G's (VFD) 360V / 50Hz - 300 to 450 G's (VFD)
Screen Opening Sizes:	0.008" (0.2mm) to 0.04" (1.0mm) [0.02" (0.5mm) Standard]	0.008" (0.2mm) to 0.04" (1.0mm) [0.02" (0.5mm) Standard]	0.008" (0.2mm) to 0.04" (1.0mm) [0.02" (0.5mm) Standard]
Gear Box Ratio:	VFD Variable	VFD Variable	VFD Variable
Screen Surface Area:	7.11 sq. ft. (0.661 sq. m.)	13.3 sq. ft. (1.25 sq. m.)	15.5 sq. ft. (1.44 sq. m.)
Motor Horsepower:	(1) 25 hp (18.3 kw) & (1) 5 hp (3.7 kw)	(1) 60 hp (44.74 kw) & (1) 15 hp (11.19 kw)	(1) 75 hp (55.16 kw) & (1) 20 hp (14.71 kw)
Voltage:	460v / 60Hz or 380V / 50Hz 3-Phase (Dual Rated Inverter-Duty Motor)	460v / 60Hz or 380V / 50Hz 3-Phase (Dual Rated Inverter-Duty Motors)	460v / 60Hz or 380V / 50Hz 3-Phase (Dual Rated Inverter-Duty Motors)
Electrical Classification:	Class I – Division I VFD Explosion Proof – Group D (Temp. Rating of 55° C)	Class I – Division I VFD Explosion Proof – Group D (Temp. Rating of 55° C)	Class I – Division I VFD Explosion Proof – Group D (Temp. Rating of 55° C)
Dimensions (without stand):	84" (2,134 mm) L x 62" (1,575 mm) W x 56" (1,422 mm) H	101" (2,565 mm) L x 71" (1,803 mm) W x 76" (1,930 mm) H	101" (2,565 mm) L x 74" (1,880 mm) W x 78" (1,981 mm) H
Weight (Without Stand):	3,900 lbs (1,769 kgs)	8,300 lbs (3,765 kgs)	9,400 lbs (4,264 kgs)

Elgin is the only full-portfolio supplier of VCD's for both water-based and oil-based drilling environments.



Vertical Cuttings Dryers

Classic Style and New Oil Sealed Gearbox Units



	CSI™-03	CSI-E3™	CSI™-04	CSI-E4™
Feed Capacity:	25 - 40 TPH (6.2 - 10 kg/s)	25 - 40 TPH (6.2 - 10 kg/s)	40 - 80 TPH (10 - 20 kg/s)	40 - 80 TPH (10 - 20 kg/s)
G Force:	Up to 642 G's	Up to 700 G's	Up to 526 G's	Up to 550 G's
Screen Opening Sizes:	0.008" (0.2mm) to 0.04" (1.0 mm)	0.008" (0.2mm) to 0.04" (1.0 mm)	0.008" (0.2mm) to 0.04" (1.0 mm)	0.008" (0.2mm) to 0.04" (1.0 mm)
Gear Box Ratio:	74:1	74:1	71:1	VFD Variable
Lubrication System:	Active Oil Pump Circulation	Oil Sealed	Active Oil Pump Circulation	Oil-Sealed
Differential Speed:	15.4 RPM	15.4 RPM	12.5 RPM	12.5
Screen Surface Area:	7.11 sq. ft. (0.661 sq. m.)	7.11 sq. ft. (0.661 sq. m.)	13.3 sq. ft. (1.25 sq. m.)	13.3 sq. ft. (1.25 sq. m.)
Motor Horsepower:	30 HP (22.71 KW)	30 HP (22.71 KW)	75 HP (60 KW)	75 HP (60 KW)
Electrical Classification:	Class I – Division I Explosion Proof – Group D (Temp. Rating of 55°C)	Class I – Division I Explosion Proof – Group D (Temp. Rating of 55°C)	Class I – Division I Explosion Proof – Group D (Temp. Rating of 55°C)	Class I – Division I Explosion Proof – Group D (Temp. Rating of 55°C)

Elgin is the only full-portfolio supplier of VCD's for both water-based and oil-based drilling environments.





Shakers & Mud Cleaners



Hyper-G™ Shaker

Versatile, Durable, Adjustable and Design to Perform.



NEMA 7X Class I –
Division I VFD
Panel can provide
variable G-forces in
both linear &
balance elliptical
motion.

One-piece
Firestone
Marshmallow
Springs maximize
G-force while
minimizing
carriage vibration.

Dual 2.5HP
Explosion-Proof
High-G motors
provide up to 7.5
G's of force.

Optional multi-
functional High-G
motors generate
both linear &
balanced elliptical
motion.

Fully balanced,
adjustable while
drilling single-point
jacking system.



Elgin's Dual Motion Hyper-G™ shale shaker allows operators to tune one shaker for any hole or slurry fluid condition experienced.



Hyper-G™ Shaker Configurations

Versatile, Durable, Adjustable and Design to Perform.



Integrated Solids
Inlet Chute for
Careful
Introduction of
Abrasive Solids.

Open-Bottom
Tank-Mount
Carriage Provides
for Modular
Installation with
Existing Tank
Assets.

Drying Shakers Can
Be Provided in
Both a Single-Deck
and Dual-Deck
Configuration.

Dual-Deck
Configurations
Include Side-
Access Windows
for Access to the
Bottom Screens.

Removable
Possum Belly
Allows for Multiple
Variations to be
Integrated.

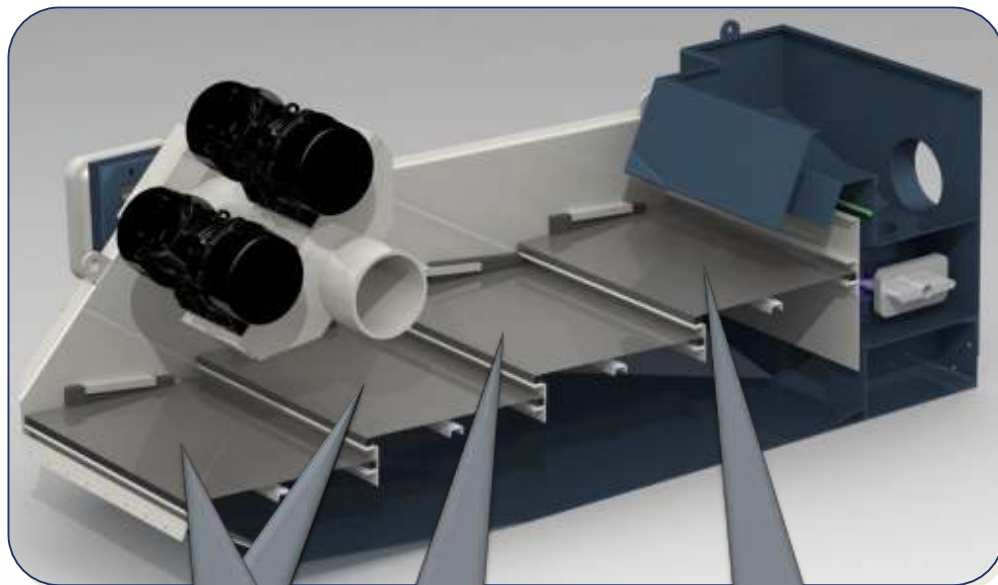
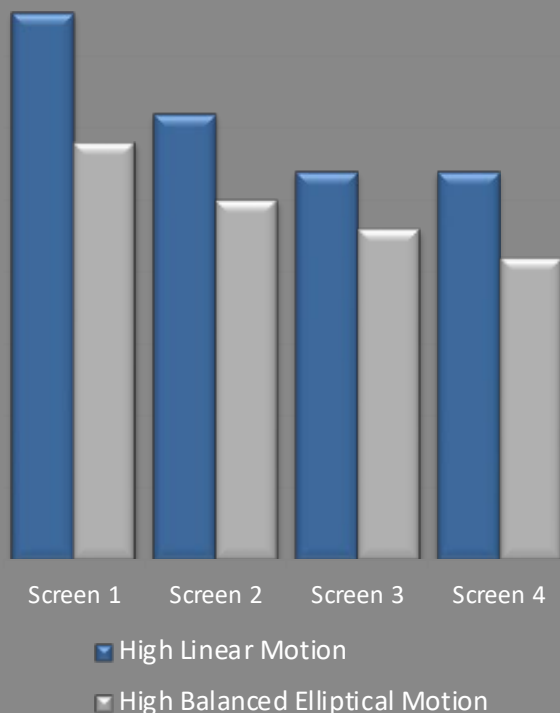
Elgin's shakers can be provided in 1-panel single deck, 2-panel single and dual-deck, 3-panel single-deck, 4-panel single and dual-deck and 6-panel dual-deck configurations



Hyper-G™ Shaker

Proprietary Progressive G-Force Profile with Patent-Pending Cascade Flow

**Relative G-Force at
Screen Surface**



G-force and conveyance is further reduced to minimize solids degradation and maximize dryness.

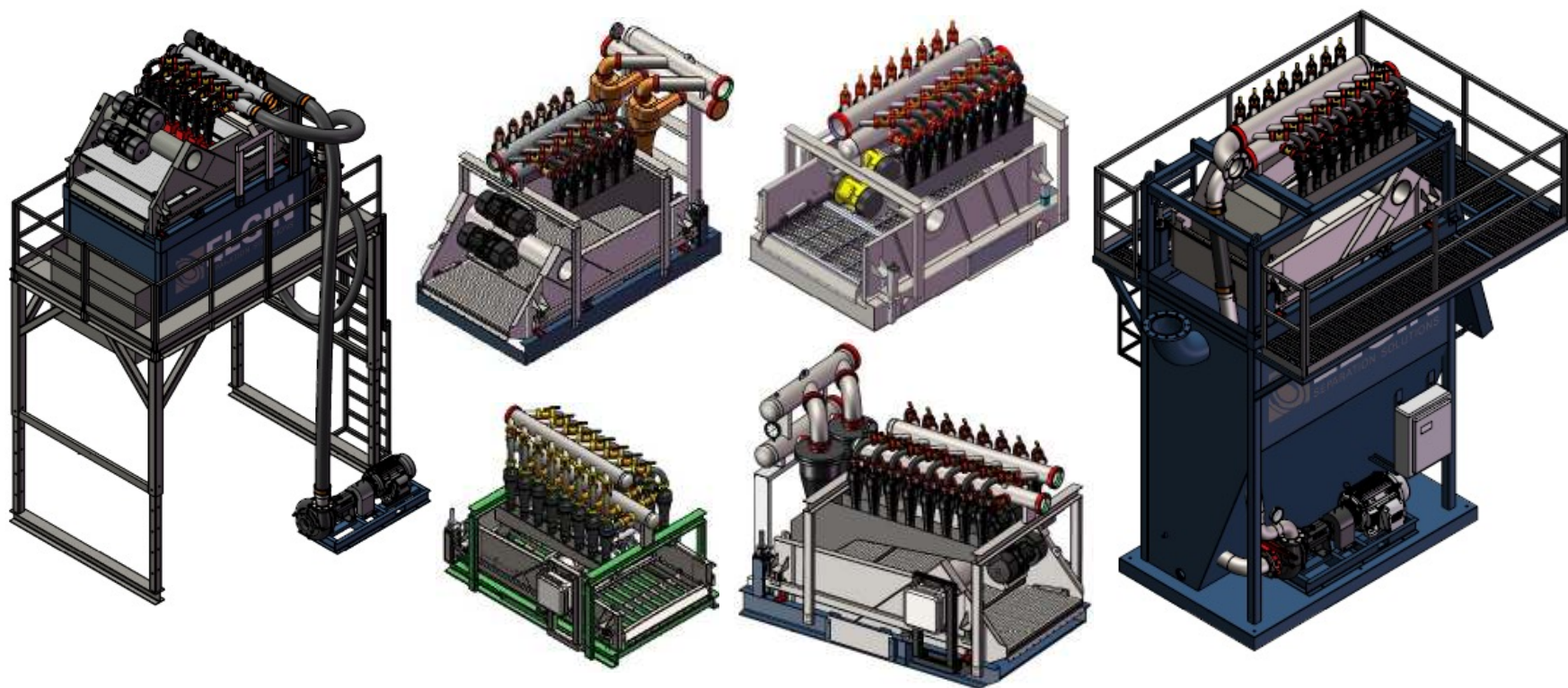
G-force and conveyance are lowered to minimize solids degradation.

Maximum conveyance and G-force is applied to the entry screen.

Elgin's patent-pending Cascade Flow Screen Deck mitigates solids bypass by protecting the flow-side gasket from the drilling fluid flow.

Hyper-G™ Mud Cleaners

A Host of Configurations Available.



Elgin can mate any combination of 4", 5", 10" and 12" hydrocyclones with our Hyper-G single and dual-deck shakers.





Aftermarket Support



Aftermarket Services

Vast experience in servicing of rotating equipment.



VCD and Screen Bowl Centrifuges

We maintain full proficiency in the repair, remanufacture and field service of Bird™, Decanter Machine™, Sharples™, and Birtley™ machines.



Rendering and Food Processing Centrifuges

We maintain full proficiency in the repair, remanufacture and field service of Hutchinson Hayes™, Sharples™, Bird™, and Alfa Laval™ machines.



Decanter Centrifuges

We maintain full proficiency in the repair, remanufacture and field service of Hutchinson Hayes™, Sharples™, Derrick™, MI Swaco™, NOV™, KEMTRON™, Tomoe™, Tecumseh™, G-Tech™ and Alfa Laval™ machines.

Our team has the experience and skills to manage any centrifuge within your fleet. Attention to detail & pride in workmanship set us apart.



Centrifuge Spare Parts

Vast experience in servicing of rotating equipment.



ESS-1967HD2 Decanter Centrifuge 80:1 Gearbox



DESS-7200 Replacement Gearbox

Elgin has developed full support of centrifuge spare parts for both our own equipment, as well as competing centrifuges.

Aftermarket Services

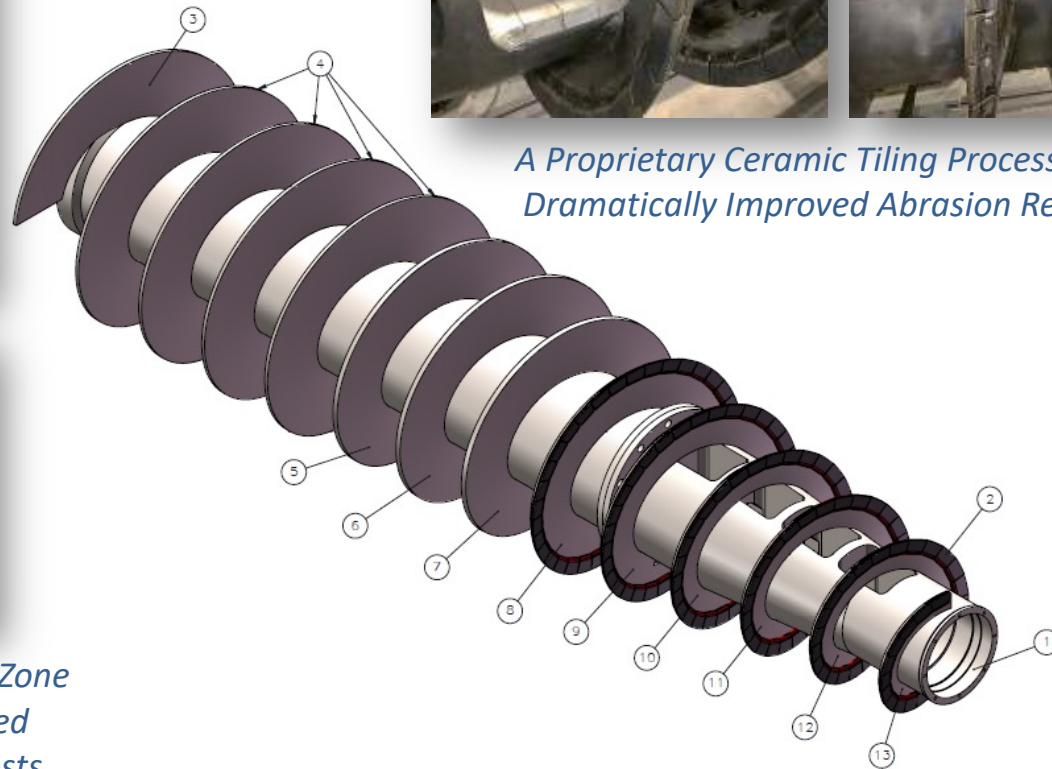
Vast experience in “re-engineering” of customer assets.



*Split Conveyor Allows the Feed Zone
Section to be Quickly Replaced
without Significant Rebuild Costs.*



*A Proprietary Ceramic Tiling Process Provides
Dramatically Improved Abrasion Resistance.*



Elgin's Team has development a Sophisticated Set of Retrofits for the
Industries Most Common Centrifuges



Turn-Key Fluid Recycling Solutions Product Portfolio



Solids Control Management

Turn-Key Fluid Recycling Solutions Hierarchy



Elgin Separation Solutions has been the industry leader in providing effective turn-key mud recycling systems for over 30 years.

Features and Benefits

Turn-Key Fluid Recycling Solutions

- Multi-pass cleaning system maximizes shaker and hydrocyclone performance helping to maintain target mud weights.
- Most efficient tank agitation per unit volume of mud utilizing top mounted agitators and mud guns ensures complete mixing performance.
- Hyper-G™ shaker with Firestone's Marsh Mellow™ vibration isolators, providing reduced noise, long-lasting, maintenance free operation.
- Dedicated centrifugal pumps, inset on the side of the tank for easy maintenance, provide independent transfer, mud circulation/hopper, and hydrocyclone operations.
- Elgin's tanks are fully lined with a phenolic lining to maximize tank life and reduce the effects associated with the circulation of abrasive/erosive solids to extend equipment life.
- Smart-Panel technology with Wi-Fi network for lowest cost operator oversight of any reclaimer in the industry.
- Winterization Package for harsh environmental conditions. Elgin has an in-house engineering department capable of customizing your system to meet any harsh weather needs.



KEMTRON 200HD2

Turn-Key Mud Reclamation System for Small Rigs

Fitted with two 0.67 HP synchronized linear motion vibrator motors.



Utilizes a dual deck system with **22 ft² (2 m²)** of screening surface area.



Fitted with (2) 10 HP 2x3 118 Series self-priming closed-coupled pumps.



Three 4" hydro-cyclones, with screen savers and valve isolation.



Fully integrated controls capable of operating a remote trash pump.



1,000 gallon partitioned tank with integrated venturi mixing hopper.



The KEMTRON 200HD2 is an excellent fit for small volume fluid systems where space constraints exist. Available in both skid-mounted and trailer-mounted configurations.



KEMTRON 200HD2 Options

Turn-Key Mud Reclamation System for Small Rigs



Custom Colors and Branding

Full branding customization, inclusive of custom paint and custom decals, is available. Simply provide your RAL color codes and decals.



Trailer Mounted Options

The KEMTRON 200HD2 can be fitted with a dual-axle 10,000 pound car trailer with pintle hook hitch. The trailer provides sufficient room for a generator.



On-Board Generator

On-Board premium 20KW generator package provides power to the entire mud management package, including the submersible trash pump for up to 16 hours.



Hydraulically Operated System

The KEMTRON 200HD2 can be provided as fully hydraulic with onboard engine, reservoir tank, cooling system, hydraulic motors, and controls.



Push Button Control System

Heavy duty control panel with remote pendant for transfer and trash pump operation. Built in audible alarm alerts operator of operation error.

Additional options included ceramic inserts for extended hydrocyclone life, sound attenuate generators and tank level sensors



KEMTRON 400HD2

Turn-Key Mud Reclamation System for Small and Medium Rigs



Fitted with two 2.0 HP linear motion vibrator shaker motors.



Utilizes a dual-deck shaker with **38 ft² (3.5 m²)** of screening surface area.



Fitted with (3) independent 15/15/20 HP 2x3 250 Series Pedestal Pumps.



2,350 gallon partitioned tank with venturi mixing hopper.



Fully integrated controls capable of operating a remote trash & transfer pump.



Six 4" desilter hydrocyclones, with screen savers and valve isolation.

The KEMTRON 400HD2 is an excellent fit for small & medium volume fluid systems where a compact, yet fully complete mud reclamation package is required.



KEMTRON 400HD2 Options

Turn-Key Mud Reclamation System for Small and Medium Rigs



Custom Colors and Branding

Full branding customization, inclusive of custom paint and custom decals, is available. Simply provide your RAL color codes and decals.



Trailer Mounted Options

The KEMTRON 400HD2 is perfectly fit for a dual-axle 20,000 pound car trailer with pintle hook hitch. The trailer provides sufficient room for a generator.



On-Board Generator

On-Board premium 60KW generator package provides power to the entire mud management package, including the submersible trash pump for up to 20 hours.



Hydraulically Operated System

The KEMTRON 400HD2 can be provided as fully hydraulic with onboard engine, reservoir tank, cooling system, hydraulic motors, and controls.



Standard Control System

Standard push-button control panel configuration with remote pendant for trash & transfer pump operation.

Additional options include ceramic inserts for extended hydrocyclone life, sound attenuated Tier-4 generators and tank level sensors.



KEMTRON 600HD2

Turn-Key Mud Reclamation System for Medium Rigs



Fitted with two 3.3 HP (Dual-Motion Upgrade Option) synchronized linear motion vibrator motors.



6-Panel Dual Deck Linear Motion Shaker with **56 ft² (5.2m²)** of total screening surface area.



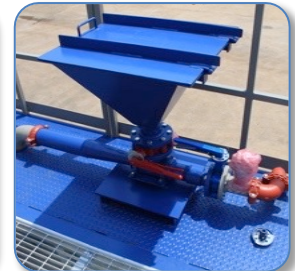
Fitted with (3) independent 20/20/25 HP 3x4 250 Series Pedestal Pumps.



Eight 4" desilter hydrocyclones, with screen savers and valve isolation.



Smart panel control system with local wi-fi accessible network for remote operation.



Valve-isolated venturi mixing hopper with fold-out table.

Our most popular packaged fluid reclamation system has been used on thousands of job sites over the last decade.



KEMTRON 600X

Turn-Key Mud Reclamation System for Medium Rigs



Fitted with two 3.3 HP (Dual-Motion Upgrade Option) synchronized linear motion vibrator motors.



Onboard pressure washer with isolated polyurethane high-capacity water tank.



Fitted with (3) independent 20/20/25 HP 3x4 250 Series abrasion resistant slurry pumps.



Eight 4" desilter hydrocyclones, with screen savers and valve isolation.



Smart panel control system with local Wi-Fi accessible network for remote operation.



Valve-isolated 4" venturi mixing hopper with jet shear manifold.

Next generation of the industry leading turn-key fluid recycling system.



KEMTRON 600HD2 & 600X Options

Turn-Key Mud Reclamation System for Medium Rigs



Custom Colors and Branding

Full branding customization, inclusive of custom paint and custom decals, is available. Simply provide your RAL color codes and decals.



Winterization Packages

The KEMTRON 600HD2 can be fitted with a complement of winterization packages including, emersion heaters, convective heat ports, pump cabin enclosures and working deck enclosures.



Generator Packages

On-Board 100KW Tier-4 generator package sound-attenuated provides power to the entire mud management package, including the submersible trash pump for up to 14 hours.



Hydraulic Jacking System

The KEMTRON 600HD2 can be provided with four fully hydraulically operated jacks with a central operating console for easy onsite installation.



Integrated Pressure Washer

Fully integrated within the tank structure, this high-pressure washer will keep screens from blinding and allow for rig clean-up at the end of the job.

Additional options include ceramic inserts for extended hydro-cyclone life, tank level sensors, air-break trailers, and goose-neck trailers.



KEMTRON 600HD2 Centrifuge Options

Maximum Solids Control Through Centrifuge Technology



ESS-1450HD2 Centrifuge Module

This module adds to a standard KEMTRON 600HD2 and includes a ESS-1450HD2 high speed centrifuge, on-board PC pump, screw conveyor, centrate pump, independent controls.



Integrated ESS-1450SL Centrifuge

The KEMTRON 600 XPS, fully integrates a ESS-1450SL centrifuge directly within the footprint of the standard KEMTRON 600. Includes feed pump and VFD HMI touch-screen interface.



ESS-1655 XP Polisher with Select Floc LP3

For those that wish to mate their current fluid reclamation system with a low gravity solids polishing treatment system. ESS's XP Polisher can also be fully integrated with a Select Floc LP3 Polymer Injection System.

All Elgin fluid systems can be fully integrated with our proprietary line of high-speed decanter centrifuges to maximize drilling fluid life.



Smart Panel Control System

A New Paradigm in Integrated Fluid Reclamation System Controls.
KEMTRON 600HD2 & 600X Models Only.

- Elgin's Proprietary Smart Panel Allows Operators to Run and Monitor the Reclaimer from a Smart Phone, Tablet or Laptop.
- Comes integrated with Operation Data Logging for Performance Monitoring and Failure Tracking.
- Desilter and Hopper Pump Pressure Monitoring to Ensure Optimum Drilling Fluid Conditions
- Tank Fluid Level Indicators and Alarms.
- Automated Pump Operation with Interlocks.
- Audible and Visual Alarm System Interlocks.
- Automated Operator Alerts to Ensure Proper Preventative Maintenance.



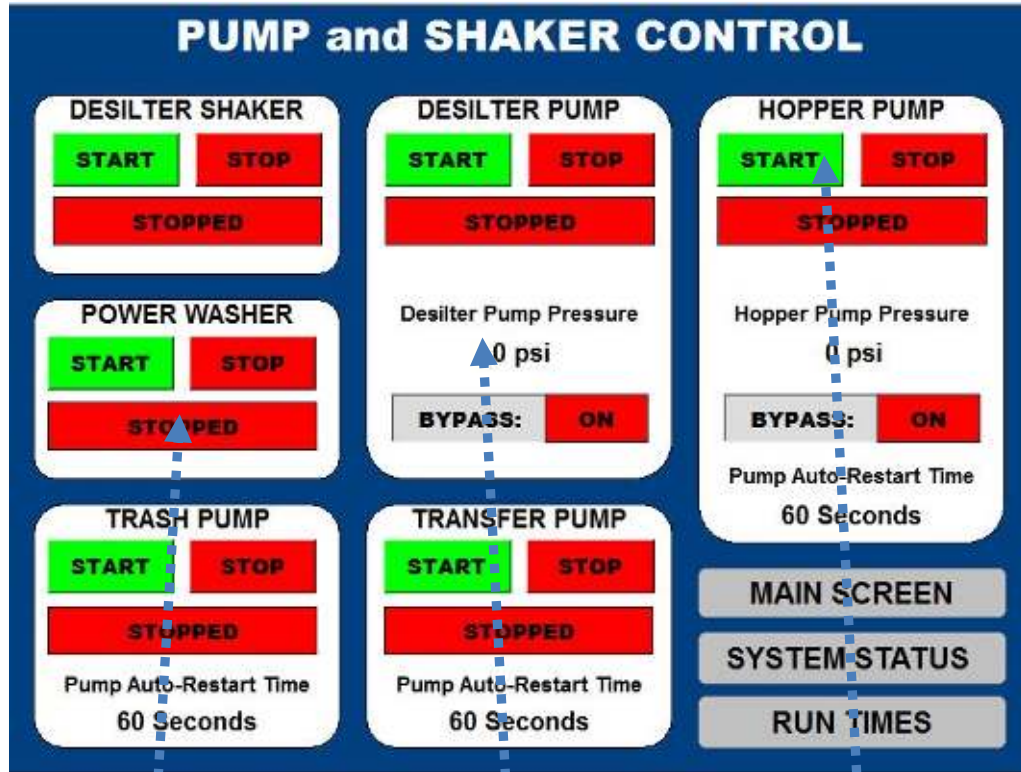
Elgin's Smart Panel Control System provides for the lowest cost operator oversight of any reclaimer in the industry.



Remote Network Control Interface

Directly From Your Smart-Phone, Tablet or Laptop.

KEMTRON 600HD2 & 600X Models.



Further Integration
with Optional
Upgrades, Including
an On-Board
Pressure Washer.

Pressure Monitoring
of Pumps to
Maximize System
Performance.

Touch Screen
Interface to Control
all On-Board Pumps,
Trash Pump and
Shaker.



Integrated Run-Time Counters for
All Systems to Enhance
Preventative Maintenance.

KEMTRON 800C

Containerized, Field-Erected Mud Systems for Maximum Fluid Volume

Includes a bank of (2) 12" hydrocyclone desanders.

Dual 6-Panel Dual Deck Linear Motion Shakers with **112 ft² (10.4m²)** of total screening surface area.

Dual man-holes for complete internal access to all internal systems.

Includes a bank of (10) 5" hydrocyclone desilters, with screen savers.

Fitted with (3) recessed independent 40/40/40 HP 6x5 250 Series centrifugal pumps .

4,500 gallon, triple partitioned tank constructed from a 20' CSC Certified Shipping Container.



The KEMTRON 800C Provides Up To 1,000 gpm of Cleaning Capacity.



KEMTRON 1000HDX

Turn-Key Mud Reclamation System for Medium and Large Rigs



Fitted with (2) 3.3HP High-G linear motion vibrator motors.



Dual 6-panel dual-deck linear motion shakers with **112 ft² (10.4m²)** of surface area.



Fitted with (3) independent 40/40/40 HP 6x5 250 series centrifugal pumps.



Includes two desanders (12") and ten desilters (5"), screen savers & valve isolation.



Fully integrated controls with remote pendant for feed and transfer pump control.



6,000 gallon, triple axel mounted tank with venturi mixing hopper.

The KEMTRON 1000HDX provides great flexibility to support both medium and large rigs given its size and hydraulic capacity.



KEMTRON 1000HDX Options

Turn-Key Mud Reclamation System for Midi and Maxi-Class Rigs



Custom Colors and Branding

Elgin can provide full branding customization, inclusive of custom paint and custom decals. Simply provide your RAL color codes and decals.

Winterization Packages

The KEMTRON 800 can be fitted with a complement of winterization packages including, emersion heaters, convective heat ports, pump cabin enclosures and working deck enclosures.

Generator Packages

On-Board 150KW generator package (sound-attenuated versions available) provides power to the entire mud management package, including the submersible trash pump for up to 14 hours.

Hydraulic Jacking System

Fully convert the KEMTRON 800 trailer to a fully hydraulically operated jacking system. Dual axel 45,000 pound trailers are available.

Integrated Pressure Washer

Fully integrated within the tank structure, this high pressure washer will keep screens from blinding and allow for rig clean-up at the end of the job.

Other available options include air-break trailers or goose-neck trailers.



KEMTRON 1500HDX

Turn-Key Solids Control and Fluid Reclamation System for Large Rigs



9,000 gallon triple-partitioned tank with continuous recirculation cleaning system.



Three 5HP top-mounted agitators with gear-boxes are coupled with a series of mud guns.



Dual Hyper-G dual-deck shakers, fitted with overhead "rock boxes".



(3) 10" desander hydrocyclones provide the next solids cut. Includes a single-deck Hyper-G shaker.



(18) 5" desilter hydrocyclones provide the polishing solids cut. Includes a single-deck Hyper-G shaker.



6" Venturi Mixing Hopper with sufficient deck space for an entire pallet of barite.

Our most advanced fluid reclaimer is fully customizable and capable of managing a variety of construction and drilling fluids.



KEMTRON 1500HDX Options

Turn-Key Mud Reclamation System for Maxi-Class Rigs



250 to 300KW Generators

On-Board 250KW generator package (sound-attenuated versions available) provides power to the entire mud management package, including the submersible trash pump for up to 17 hours.



Winterization Packages

The KEMTRON 1500 can be fitted with a complement of winterization packages including, emersion heaters, convective heat ports, pump cabin enclosures and working deck enclosures.



ESS-1450 SL Centrifuge

The KEMTRON 1500TDS, fully integrates an ESS-1448SL centrifuge directly within the footprint of upper deck. Includes feed pump and VFD HMI touch-screen interface.



Dual Motion, Multi-G Shakers

The KEMTRON 1500HDX can be fully fitted with dual motion, multi-G and/or high-G shaker motors to maximize shaker performance.



Integrated Pressure Washer

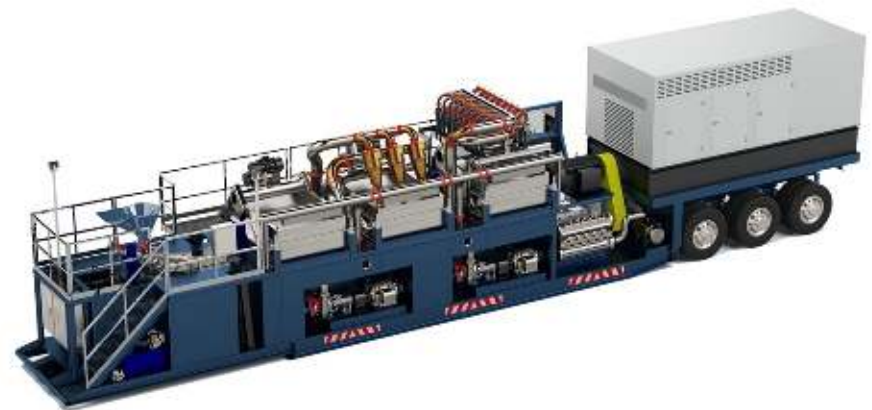
Fully integrated within the tank structure, this high pressure washer will keep screens from blinding and allow for rig clean-up at the end of the job.

Other available options include, tank level sensors, triple-axel trailers, integrated dewatering systems, and integrated triplex pump packages.



KEMTRON 1500MPX

Turn-Key Solids Control and Fluid Reclamation System with Quintuplex Pump



8,000 gallon triple-partitioned tank with continuous recirculation cleaning system.



One 5HP top-mounted agitator with gearbox for clean tank agitation.



Three Hyper-G dual-deck shakers allows for initial scalp cut across all shakers.



(3) 10" desander hydrocyclones provide the secondary solids cut.



(18) 5" desilter hydrocyclones provide the polishing solids cut.



Electrically variable Quintuplex pump with pulsation dampener and direct-drive gearbox assembly.

The KEMTRON 1500MPX is the industry's first high-capacity mud reclamation system to feature a high-pressure pump that is electrically variable.



KEMTRON 1500MPX Quintuplex Pump

The Industry's First High-Capacity Mud Reclamation System to Feature a High-Pressure Pump That is Electrically Variable.



The ESS-WDD-550 HDD Quintuplex Pump is a compact, high-efficiency, reliable continuous duty pump. Its design allows for easy maintenance and low total cost of ownership.

Quintuplex Pump Features:

Wear:

- All fluid cylinders are made from cast ductile iron material for increased durability and extended life.
- Abrasion resistant valves to reduce drilling fluid wear.
- Chrome iron liners.
- Premium oilfield style pistons.
- Fully supported crankshaft with double taper main and cylindrical center roller bearings for long life and durability.
















Ease of Use:

- Pistons are easily removed through the front of the cylinder and do not require the fluid cylinder or even the liners to be removed.
- Built-in power end lube system to ensure proper lubrication even at low speeds and non-level operating locations.
- Four seals to keep power end oil clean.






















Common System Pairings

Pairings with Popular Geothermal, Water & Pipeline Drilling Rigs

	American Auger™					Ditch Witch™				Herrenknecht™					
	DD-110	DD-240T	DD-440T	DD-660RS	DD-1100RS	JT30	JT30	JT60	JT100	HK100CK	HK100C	HK150C	HK250C	HK400C	HK500T
KEMTRON 200HDZ															
KEMTRON 400HDZ															
KEMTRON 600HDZ															
KEMTRON 1000HDZ															
KEMTRON 1500HDZ															

Selecting the most appropriate fluid reclamation system depends on the total circulating volume inclusive of the “bulked-up” volumetric flow as a result of suspended solids.

	Prime Direct™				Universal HDD™									Vermeer™									
	PD 70/13 CU	PD 110/23 CU	PD 180/33 CU	PD 225/52 CU	UNI 22 x 22	UNI 30 x 40	UNI 70 x 90	UNI 80 x 100	UNI 110 x 120	UNI 160 x 240	UNI 220 X 240	UNI 250 X 400	UNI 440 X 700	D20 x 22	D36 x 50	D60 x 90	D100 x 120	D100 x 140	D220 x 300	D330 x 500	D500 x 500	D1000 x 900	D1320 900
KEMTRON 200HDZ																							
KEMTRON 400HDZ																							
KEMTRON 600HDZ																							
KEMTRON 1000HDZ																							
KEMTRON 1500HDZ																							





Turn-Key Systems



Integrated Mobile VCD Packages

Elgin Full-Service Engineering, Manufacturing & Commissioning

Elgin Rack & Pinion
Actuated, VFD Screw
Conveyor Fed,
Cuttings Hopper

Elgin CSI-04 Vertical
Cuttings Dryer

Elgin Retractable
Fully-Enclosed Belt
Conveyor with Belt
Wiper.

Elgin Progressive
Cavity Feed Pump
Transfers Fluid for
Second Stage
Processing

Elgin Agitated
Centrate Hopper
with Level Gauges &
High Level Alarm.

Elgin Proprietary
Stainless-Steel
control Panel with
HMI Touch Screen

Elgin Redundant
Transfer, Centrate
Gun, and Agitation
Self-Priming Pumps.

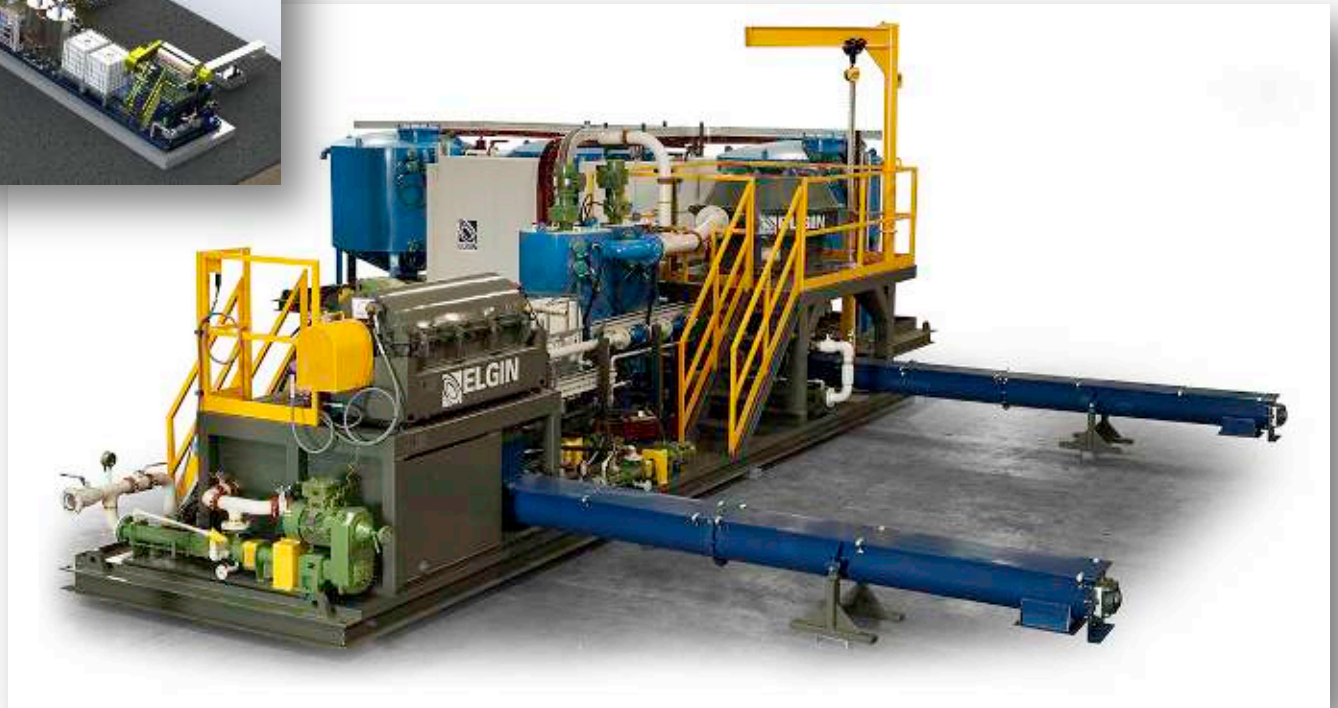
Elgin Fully
Integrated Oil-Field
Skid and Support
Structure.

Elgin's diversified product line, inclusive of lighting, pumps, and conveyors sets us apart from other non-integrated equipment suppliers.



Refinery Packages

Full-Service Engineering, Manufacturing & Commissioning



Elgin's engineering team can also provide full plant engineering services for semi-permanent and permanent waste management systems.



Mobile Waste Management

Highly engineered, full-integrated, solids control management systems.



Elgin's turn-key solids control and waste management systems provide for fully-interlocked systems requiring minimal commissioning.



Mobile Centrifuge Systems

Highly engineered, full-integrated, solids control management systems.

Pump Cabin

Four Series 250 centrifugal pumps are installed in a private pump cabin.

HMI Interface

On-board HMI controlled VFD control system for management of all on-board systems.

ESS-1450SL

Elgin's slim-line ESS-1448 high-speed decanter centrifuge for ultra fine solids.

Mud Mixing

Jet shear mud hopper/mud mixing guns installed throughout the system.

Mud Cleaner

Dual deck scalping shaker with integrated 4" hydro-cyclone desilter manifold.

20' Container

Complete mud system is packaged within the envelope of a 20' shipping container.



Containerized Dewatering Systems

Highly engineered, full-integrated, dewatering systems.



Elgin can fully integrate a number of processes into a single 20' or 40' shipping container.



Packaged Chemical Injection Systems

Highly engineered, full-integrated, chemical prep and injection systems.



Elgin can fully integrate a number of chemical management processes into a single 10' or 20' standard shipping container.





Complementing Products



Fluid Management Equipment

Integrated OEM Products Offered by Elgin.



Hydro-Cyclone Skids

Elgin's steel or polyurethane desanding hydro-cyclones remove suspended solids down to 70 microns. Available in a myriad of configurations.



Hydrocyclone Skids

Elgin's polyurethane desilting hydro-cyclones remove suspended solids down to 20 microns. Ceramic inserts are available. Available in a myriad of configurations.



High Efficiency Mud Aggitators

Elgin's hydrofoil agitators reduce electrical consumption, while improving mixing efficiency. Each mixing package can be customized to meet customer needs.



Patented Mud Degassers

Elgin has raised the bar on oil field degassing technology with our patented system creating an industry leading degassing surface area. Available in both 600 and 1,200-gpm models.



Jet Shear Mixing Systems

Robust oil field construction with additional liquid additive ports to enhance mud properties and opposing double elliptical nozzles for high efficiency mixing. Fully customizable.

Elgin maintains spare parts inventory for all manufactured products to ensure timely delivery.



Pump Packages

Integrated OEM Pump Products Offered by Elgin.



“Mission Style” Pump Packages

Elgin’s rugged Series 250 and 118 pumps are available in a variety of sizes and configurations and capable of being mated with explosion proof motors and starters.



Self Priming Pump Packages

Elgin’s line of 2x2, 3x3 and 4x4 self-priming, solids handling pumps provide for significantly reduced maintenance and solids handling capabilities. Pump impellers can be serviced without disconnecting inlet or effluent plumbing.



Progressive Cavity Pump Packages

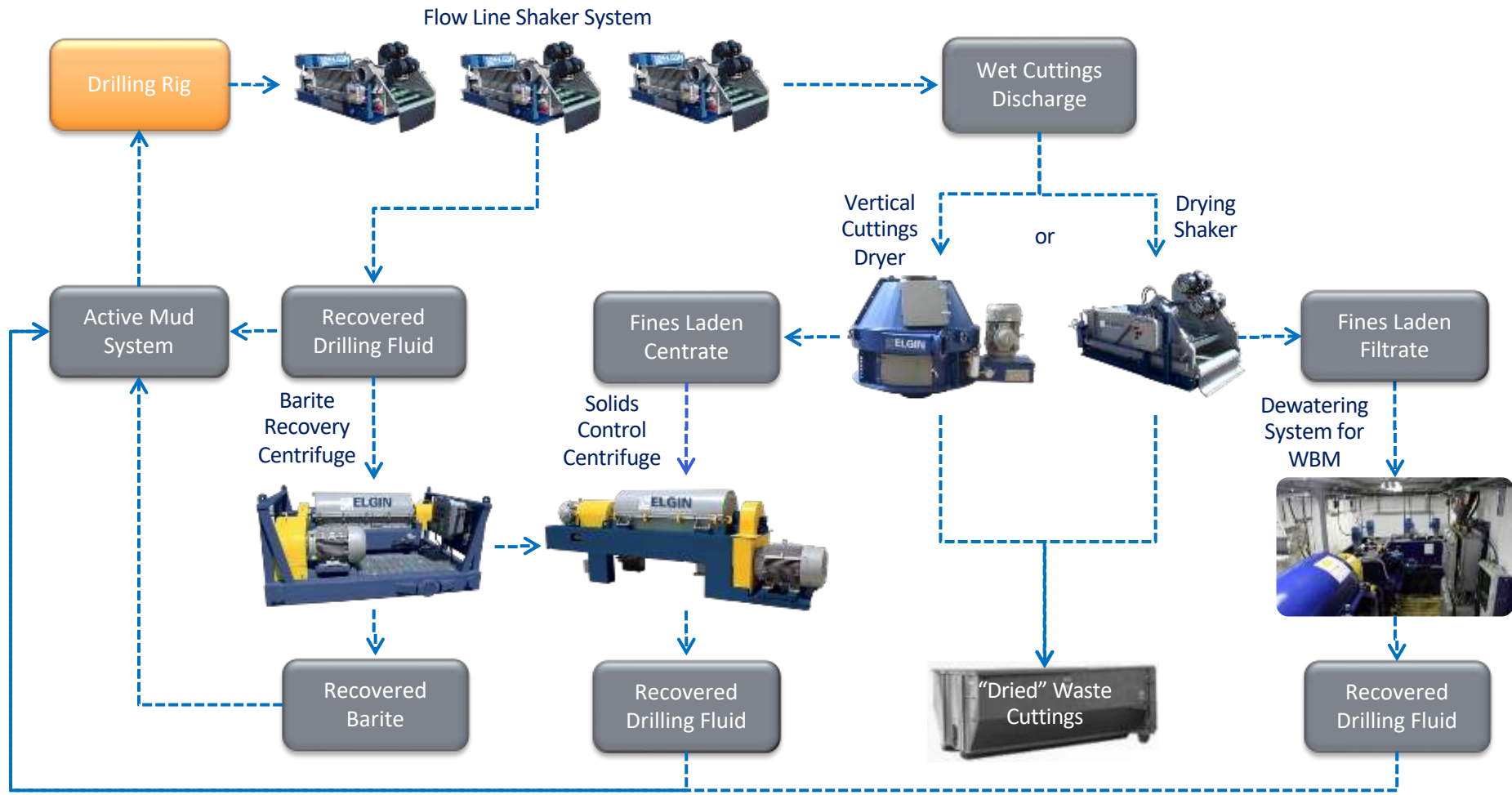
Capable of providing highly consistent pump outputs, Elgin’s progressive cavity pump packages are designed to maximum centrifuge performance. Available in both MVD and VFD configurations with Field Skid or Slim-Line Skid.

Elgin can customize all pump package options to specifically fit each application.



Closing the WBM & OBM Loop

Integrated Solids Control and Waste Management Products.



Elgin's product portfolio provides a "one-stop" shop for any solids control, waste, or drilling-fluid management challenge.





Turn-Key Solids Control, Dewatering and Waste Management Solutions

2020 – Revision G

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

