

# **MELGIN**



## Aftermarket Repair, Remanufacture & Refurbishment Services

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

An  **ASTEC**® Product Line

# Who is Elgin?



Elgin Separation Solutions ("Elgin") has evolved into a world-wide leader in design, manufacture and service of specialized liquid/solids, dewatering, and waste management solutions.



Elgin has invested in high-quality, full-service, product support centers in Houston, Texas; Raleigh, Illinois; and Poca, West Virginia to manage your equipment repair needs.



Elgin's in-house team of engineers and technicians can custom design complete turn-key systems designed to meet customer needs in finding the ideal solution suitable for any project requirement.



# Centrifuge Services

## One-Stop-Shop Service and Spare Parts

Elgin can provide a one-stop-shop service relative to maintaining your entire centrifuge fleet. Instead of distributing your maintenance service amongst a variety of supplier, Elgin provides a single point of contact.

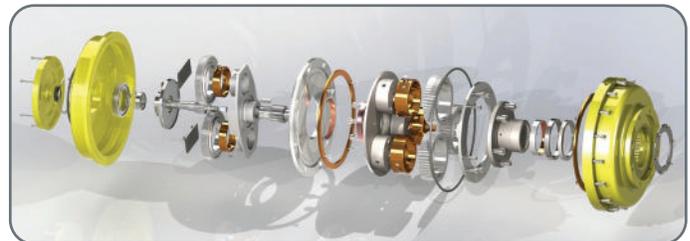
Though Elgin's field service, repair and remanufacturing services are tough to beat, our greatest value is in the depth of engineered spare parts offered. Spare parts provided by Elgin are designed to outperform those typically available from aftermarket suppliers.

### Elgin can fully service and repair the following brands decanter centrifuges:

	Derrick DE-1000™		Derrick DE-7200™
	Alfa Laval Lynx 20™		Alfa Laval Lynx 40™
	NOV HS-3400™		Hutchinson & Hayes 1448™
	Tomoe TDM-50™		G-Tech 1656™

Elgin's centrifuge repair services team will fully inspect the centrifuge upon receiving. A detailed inspection report is generated, detailing repair/replacement recommendations with complete cost analysis for customer review. Centrifuge repair services typically include:

- Disassembly of rotating assembly for complete cleaning, replace damaged or worn tiles on scroll, replace solids end discharge plows & liners, pillow block or conveyor belt replacement.
- Gearbox cleaning & rebuild.
- Top & bottom interior covers cleaning.
- Rebalancing of complete rotating assembly.
- Repair/Repainting of base or skid structure.
- Control panel/electrical cable inspection & repair.



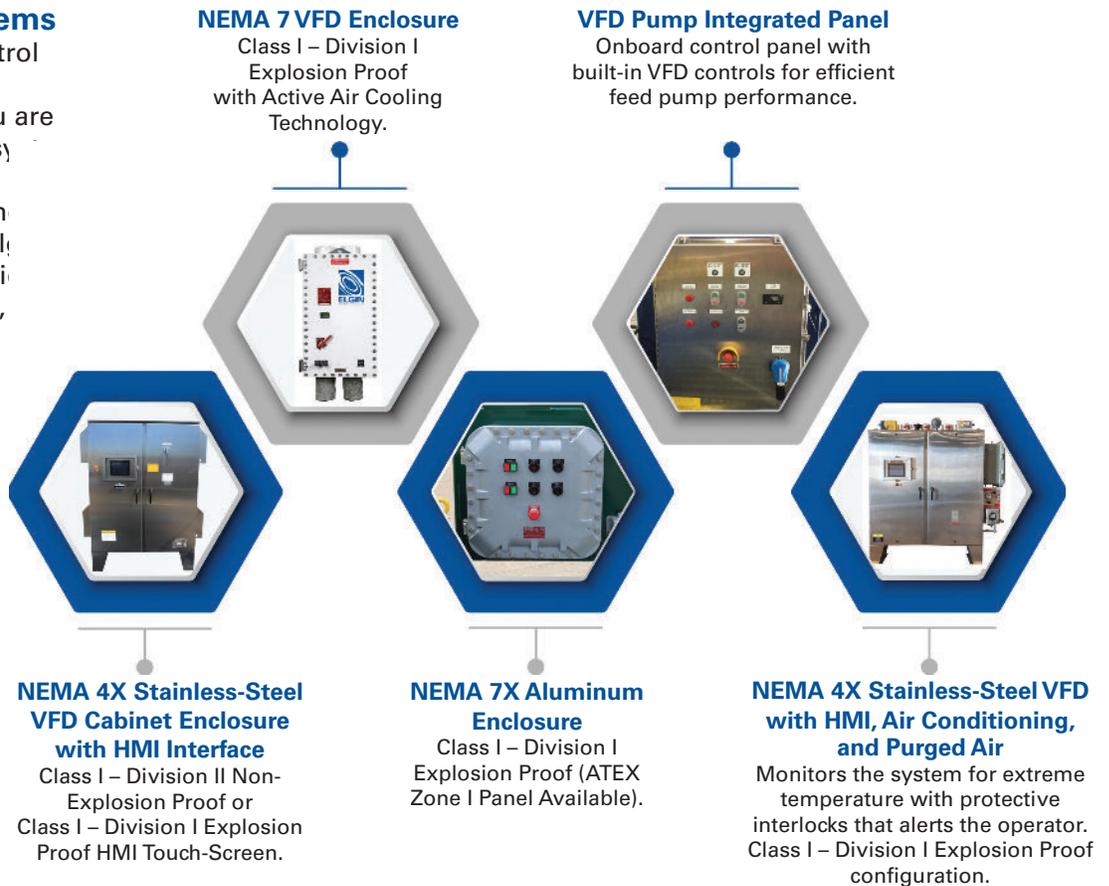
Derrick Equipment Company, as subsidiary of Derrick Corporation ("Derrick"); Alfa Laval, Inc. ("Alfa Laval"); National Oilwell Varco, Inc. ("NOV"); Hutchinson & Hayes International, Inc. (H&H); G-Tech Bellmor ("G-Tech"); Tecumseh Industries, Ltd ("Tecumseh"); Tomoe Engineering USA, Inc. and their respective products are protected trademarks and/or registered trademarks of the respective listed companies and are not affiliated with Elgin Separation Solutions or Elgin Equipment Company.



# Centrifuge Control Panels

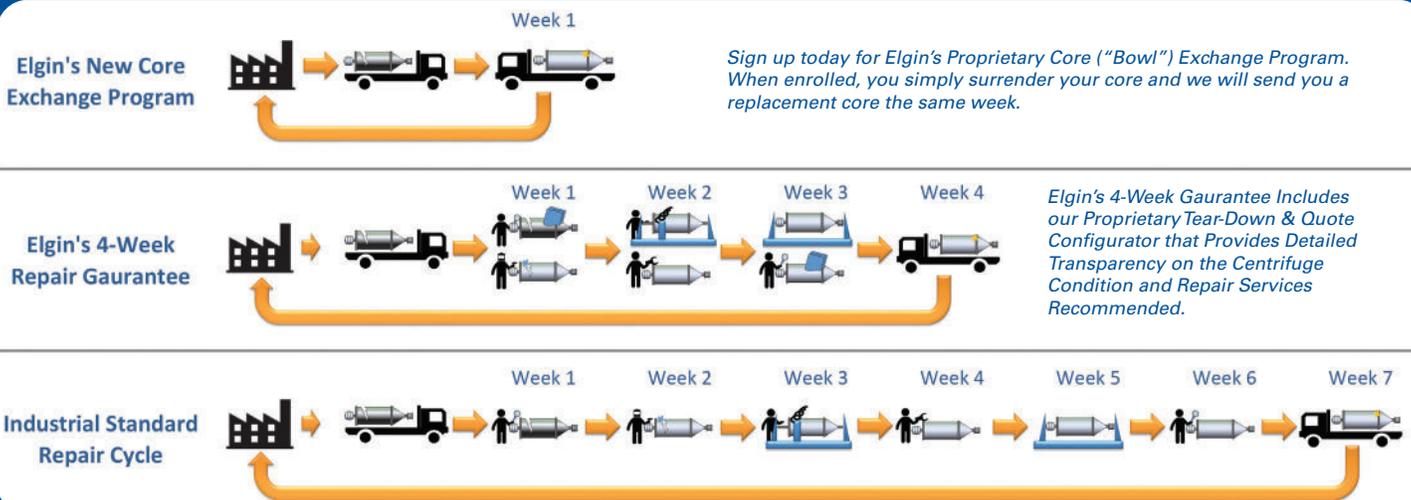
## Custom Control Systems

Elgin can provide full control system support for your decanter centrifuge. If you are in need of a new control system or simply wish to achieve enhanced performance and monitoring capabilities, Elgin can supply you with a variety of control system options, shown on the right.



## Maximize your centrifuge life cycle with Elgin's Centrifuge Core Exchange Program!

Relative to our commitment to the product life cycle and asset management, Elgin offers a core exchange program. When you surrender a used core (rotating assembly) to Elgin, a fully refurbished core will be delivered to you the same week. In turn, the core submitted by the Customer in exchange for the Elgin refurbished core will be provided to Elgin. Our goal is to extend the life of your assets and minimize any potential down time.



# Proprietary System Automation

Elgin's proprietary user interface provides complete control of all systems, as well as, a sophisticated set of diagnostic tools, information libraries and fault logs. Control systems include a variety of enhanced features including, internal lighting, ventilation and heating, Ethernet porting for diagnostics and programming updates, and a custom designed user interface that allows for maximum operating flexibility and control.

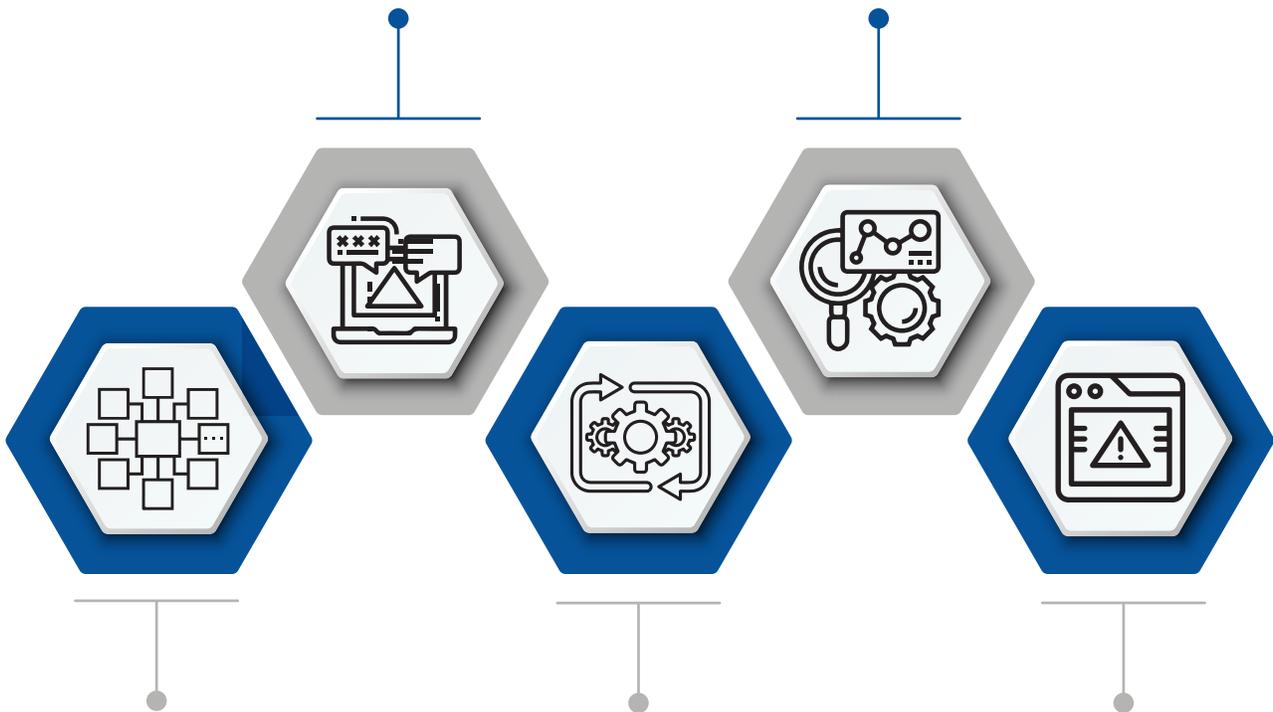
Panel upgrades can include onboard Wi-Fi network module allowing for remote operation/monitoring via laptop, tablet or smart phone.

## System Alarm Notifications

Safety interlocks built into each system alert the operator when potential system shutdown/damage has or may occur.

## Remote Control and Diagnostics

Each user interface comes with the capability of remote control offering the ability to control a centrifuge from great distances.



## Data Logging

System performance and operation data tracking storage logs for improving job performance.

## 'Cruise Control' Automation

Each centrifuge offers automated controls for efficient operation and lower operator oversight.

## Maintenance Alerts

Operational alerts notify operator of routine equipment maintenance schedules.



## Smart Panel Controls

Take your equipment operation to the next level with Elgin's proprietary Wi-Fi enabled remote network interface control system. Equipment can be monitored/operated from a laptop, tablet, or smart phone.

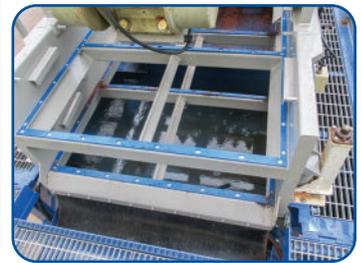
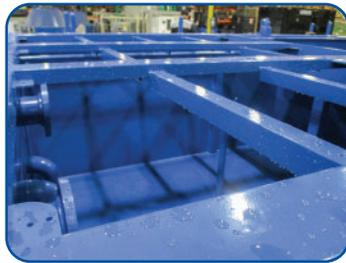


# Packaged Mud Recycling System Services

Before



After



Complete Unit Inspection/Repair

Fluid Tank Repair & Coating

Structure Inspection/Repair

Shaker Basket Refurbishment

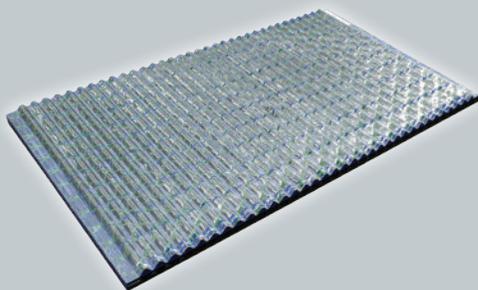
Typical Packaged Mud System Reburshiment processes include complete disassembly of all major parts, necessary inspections for the interior tank, pump pedastals, and shakers, as well as replacements where needed. Following replacements, all major parts are repainted and reassembled to be shipped back to the customer.

**Looking to enhance your Packaged Mud Systems?  
Elgin's Abrasion Resistant Slurry Pumps can be  
added to maximize your operations.**

Elgin's abrasion resistant slurry pumps are designed to better manage abrasive materials associated with pumping operations. Whether operated as a standalone pump or part of Elgin's turn-key solutions, these pumps improve performance and extend pump life versus traditional pumps.



**In need of a better screen for your Shale Shaker?  
Elgin's Composite Wave-Profile Screens provide  
improved quality and performance.**



Elgin's newest pre-tensioned, composite, wave-profile screen provides for 47% more surface area than a standard flat-panel pre-tensioned screen. This additional surface area directly translates into a higher hydraulic capacity, meaning higher flow rates with more viscous drilling fluids manageable.

# Vertical Cuttings Dryer Services

Elgin is the original equipment manufacturer (OEM) for the CSI-03™ (WSM-03™) & CSI-04™ (WSM-04™) Vertical Cuttings Dryer. CSI™ is the industry's most recognized & reputable Vertical Cuttings Dryer Centrifuge available in the market. No other brand has achieved more success or recovered more drilling fluid, than the CSI™ VCD. There have been almost 800 CSI™ dryers delivered to the market. As such, Elgin can fully repair and restore your fleet of dryers with OEM parts and services.

## Before



## After



Flite & Cone Repair and Repaint



Gearbox and Rotor Replacement



Tile Replacement and Body Repaint

## Looking to maximize your CSI-03™ or CSI-04™ Vertical Cuttings Dryer operations?

Elgin can retrofit your existing Elgin / CSI™ Vertical Cuttings Dryer with an enhanced three-stage, oil-sealed, planetary gearbox.

### Operating Benefits

- Reduced downtime.
- Reduced operating expense.
- Reduce gearbox repair expense.
- Reduced spare parts inventory expense.

### Performance Benefits

- Improved G-force output.
- Improve torque response.
- Improved differential speed.
- Improved operating temperature resilience.



**Oil-Sealed Planetary Gearbox**

### Retrofit Removes:

- 1) Existing Gearbox Drive Unit
- 2) Lube Pump
- 3) Oil Lines
- 4) Pressure Switch
- 5) Flow Switch
- 6) Oil Filter Assembly
- 7) Oil Reservoir





# Field Services Support

Elgin provides full installation and technical support for all its equipment. With technical support offices in Brisbane, Australia; Edmonton, Canada; Houston, Texas; Raleigh, Illinois; Dubai, United Arab Emirates; and Baroda, India, Elgin can mobilize field technicians within 24 hours to almost any location in the world. With over 30 year's of experience in centrifuge repair and refurbishment of the industry's most popular decanter centrifuges, Elgin has the largest one-stop-shop service footprint for maintaining your entire centrifuge fleet.



## Field Service Technicians

Elgin's technicians specialize in field installation and equipment commissioning for both on-shore and off-shore operations. In addition, technical support is available 24/7 via phone or video chat. With select system configurations, our technicians can even have remote access control panels for troubleshooting and software upgrades.

## OEM Spare Parts

Elgin maintains a complete inventory of spare parts and consumables available to ship world-wide ensuring minimal equipment downtime. Additionally, Elgin offers replacement parts for most competitor centrifuges.

## Repair/Refurbish Services

Relative to our commitment to the product life cycle and asset management, Elgin has invested in high-quality, full-service, centrifuge repair centers to provide repair, refurbishment and remanufacturing services for your decanter centrifuge fleet.