



Dredge Dewatering Products Overview

2022 – Revision F

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



A Manufacturing Legacy

Quality and Reputation that Span Two Centuries.



150 Year Legacy

Founded in 1864 in Elgin, Illinois, we have evolved into a worldwide leader in design, manufacture and service of specialized solid/liquid separation products in a number of industries.

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.



Slurry Management History

A 26-Year History in Mobile Packaged Solids Control & Dewatering Systems

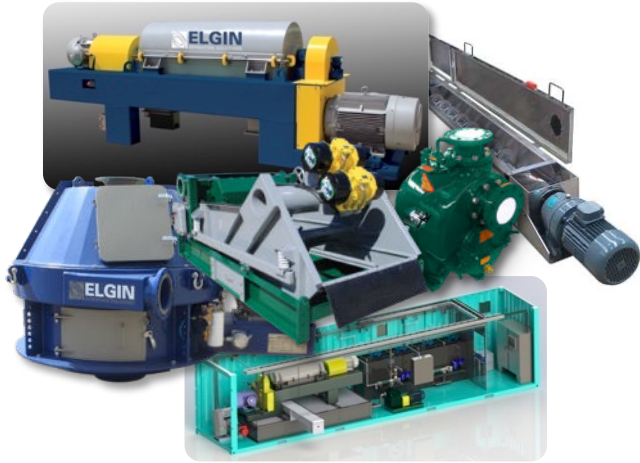


Founded in 1990, we have become the industry leader in reliable, durable and fully integrated slurry management systems for the foundation drilling, pipeline, geothermal, and waterwell Industry.



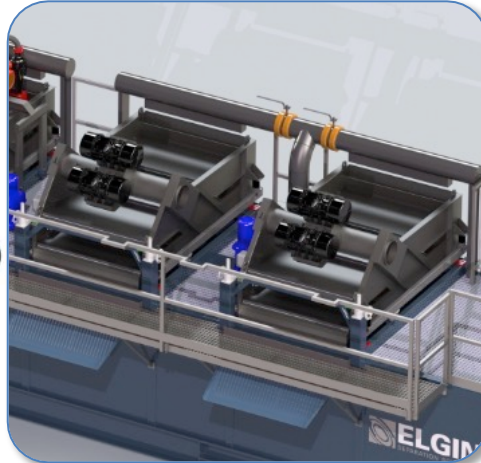
Separating Elgin From the Competition

Setting Out to Bring Significant Technological Advances to the Industry.



Complete OEM Product Integration

No other dredge dewatering OEM has the ability to bring with it full in-house integration of shakers, shaker screens, centrifuges, pumps, agitators, and conveyance systems.



The Highest Surface Area In the Industry

No other dredge dewatering OEM provides more screening surface area than Elgin, the key to dewatering. Elgin, has its own proprietary, dual-deck shaker that doubles the available screen surface area.



State-of-the-Art Controls & Instrumentation

No other dredge dewatering OEM provides operation automation systems and the ability to remotely operate the dewatering system from any smart phone, tablet or personal computer.

Other available options include, tank level sensors, triple-axle trailers, and integrated dewatering systems.



Features and Benefits

Dredge Dewatering 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.



Dredge Dewatering Solutions

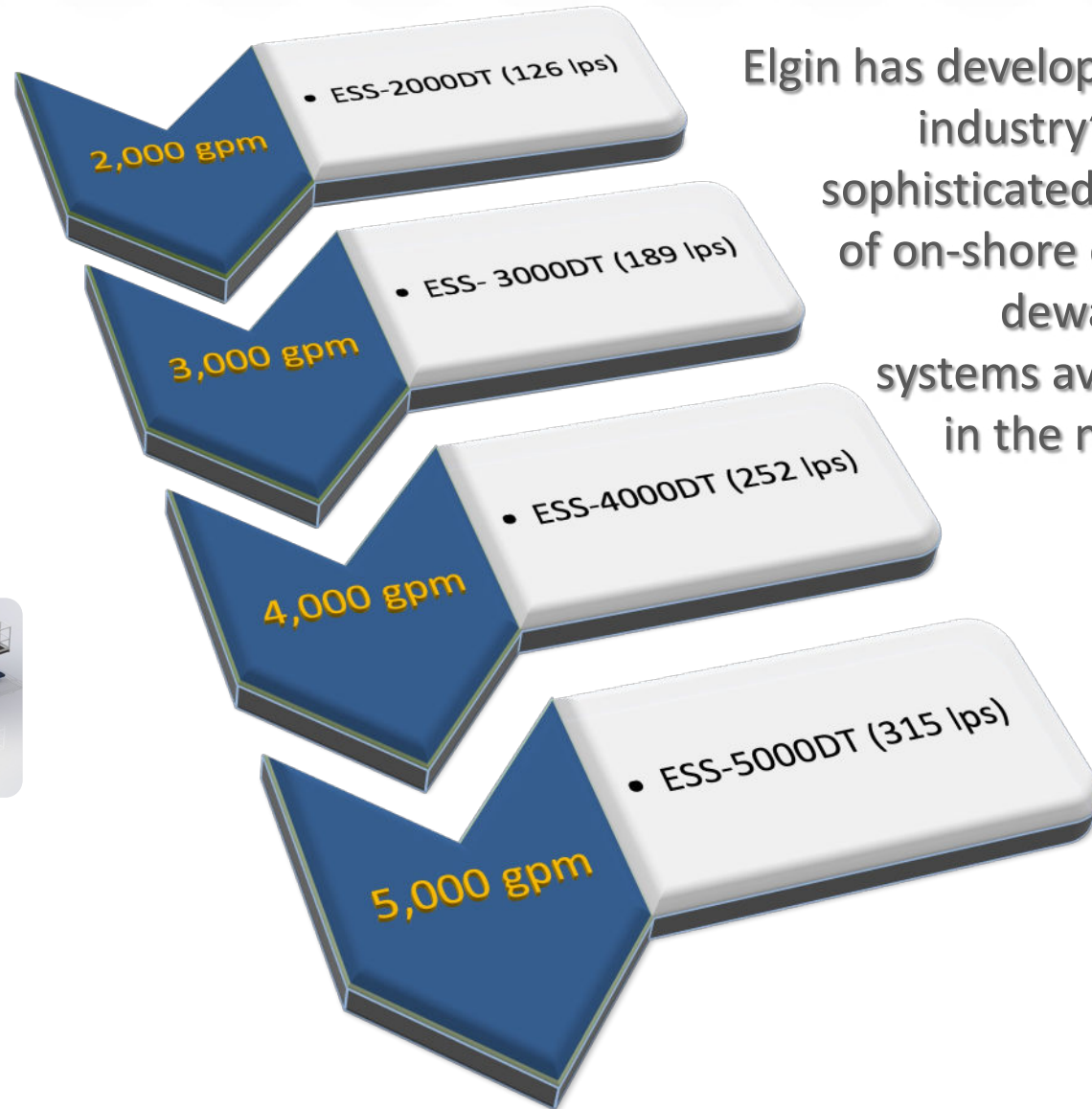
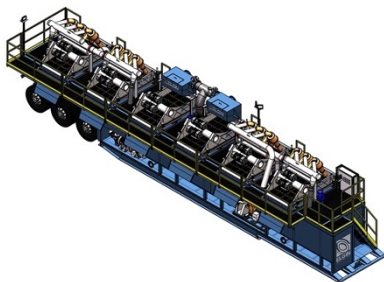
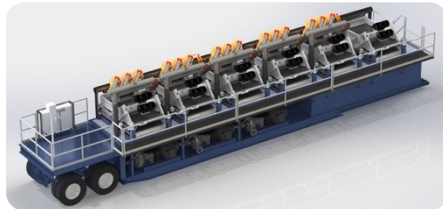
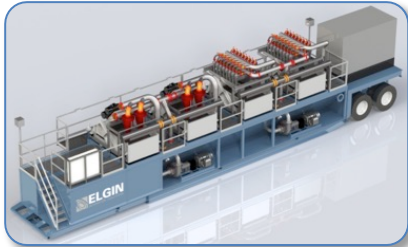
100 Gallons per Minute up to 500 Gallons per Minute



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

Dredge Dewatering Systems

2,000 Gallons per Minute up to 5,000 Gallons per Minute



Elgin has developed the industry's most sophisticated family of on-shore dredge dewatering systems available in the market.

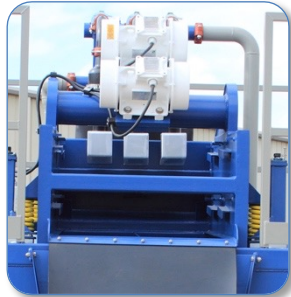
KT-200HDX™

200 GPM Multi-Pass Dredge Dewatering System With 25 Micron Cut

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



KT-200HDX™ Options

200 GPM Multi-Pass Dredge Dewatering System With 25 Micron Cut



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 KT-200HDX™ 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 KT-200HDX™ 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



KT-400X™

400 GPM Multi-Pass Dredge Dewatering System With 25 Micron Cut



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 KT-400X™ is an excellent fit for small & medium volume fluid systems where a compact, yet fully complete mud reclamation package is required.



KT-400X™ Options

400 GPM Multi-Pass Dredge Dewatering System With 25 Micron Cut



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 KT-400X™ 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 KT-400X™ 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.



KT-600X™

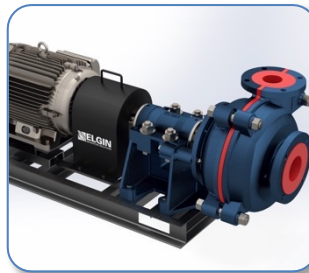
600 GPM Multi-Pass Dredge Dewatering System With 25 Micron Cut



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.



KT-600X™ Options

600 GPM Multi-Pass Dredge Dewatering System With 25 Micron Cut



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 KT-600X™ 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 KT-600X™ 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.



KT-600X™ Centrifuge Options

Maximum Solids Control Through Centrifuge Technology



ESS-1450HD2™ Centrifuge Module

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



Integrated ESS-1450SL™ Centrifuge

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



ESS-1655XP™ 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.
Only available on certain models.

- 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.

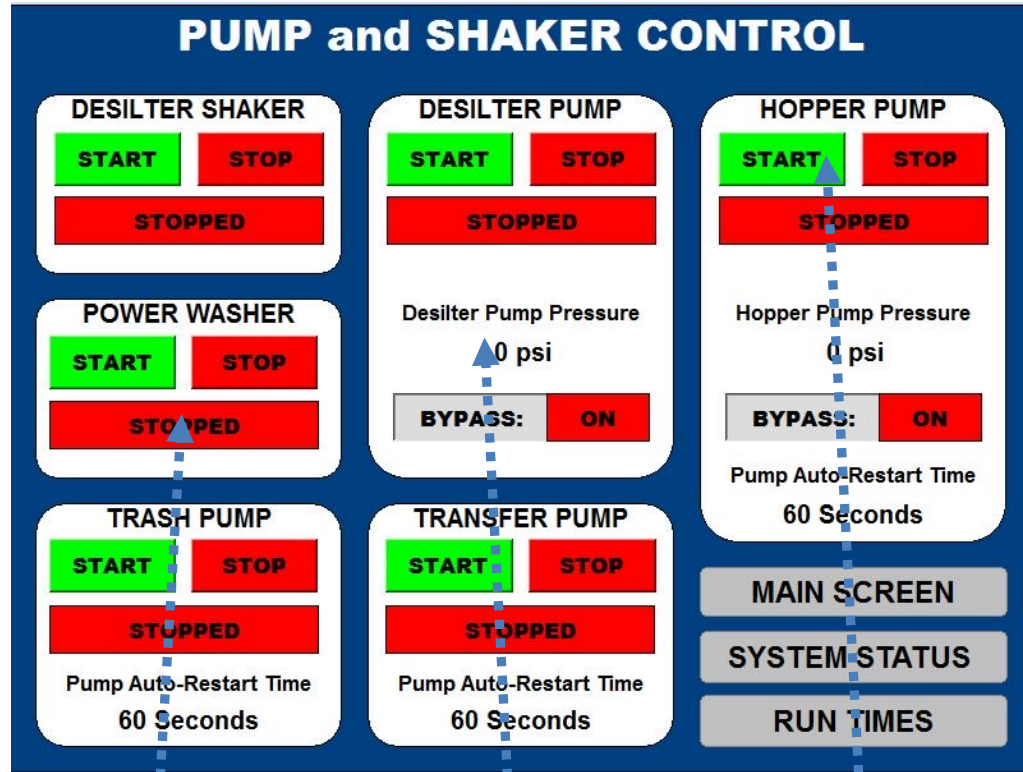


Elgin's Smart Panel Control System provides for the lowest cost operator oversight of any reclaimer in the industry.



Remote Network Control Interface

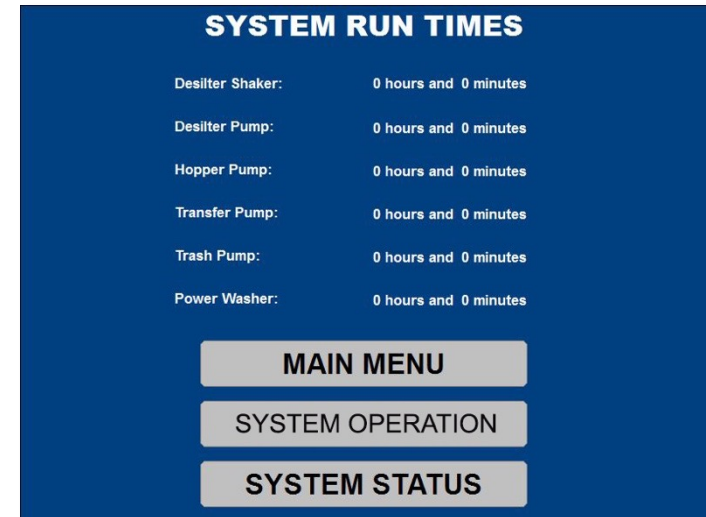
Directly From Your Smart-Phone, Tablet or Laptop.
Only available on certain models.



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.

KT-800C™

800 GPM Multi-Pass Dredge Dewatering System With 25 Micron Cut

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 KT-800C™ Provides Up To 1,000 gpm of Cleaning Capacity.



KT-1000HDX™

1,000 GPM Multi-Pass Dredge Dewatering System With 25 Micron Cut



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 KT-1000HDX™ provides great flexibility to support both medium and large rigs given its size and hydraulic capacity.



KT-1000HDX™ Options

1,000 GPM Multi-Pass Dredge Dewatering System With 25 Micron Cut



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 KT-1000HDX™ 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 KT-1000HDX™ 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.



KT-1500HDX™

1,500 GPM Multi-Pass Dredge Dewatering System With 25 Micron Cut



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.



KT-1500HDX™ Options

1,500 GPM Multi-Pass Dredge Dewatering System With 25 Micron Cut



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.



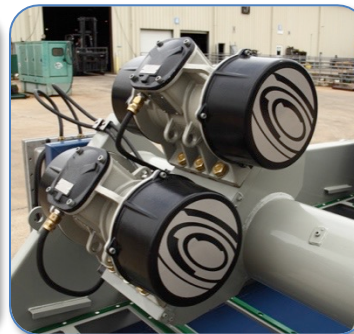
Winterization Packages

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



Integrated Pressure Washer

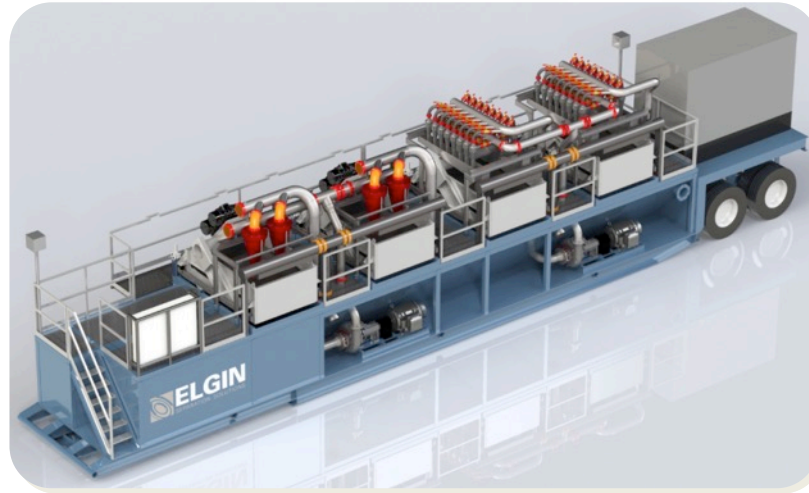
Fully integrated within the tank structure, this high pressure washer will keep screens from blinding and allow for rig clean-up at the end of the job.

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



ESS-2000DT™

2,000 GPM Multi-Pass Dewatering System With 25 Micron Cut



Key Differentiators	Elgin 2000DT	Competition
Number of Transport Loads <i>(Not Including Conveyors)</i>	1	2
Field Erection Time <i>(Assuming Two Laborers)</i>	1 Hour	1 Day
Operational Real Estate <i>("Foot Print")</i>	800 ft ²	1,000 ft ²
Centrifugal Pump Fluid Handling <i>(Series 250 Pumps)</i>	8x6x14	6x5x14
Total Screening Surface Area	215 ft ²	130 ft ²
Shaker G-Force	7 G's	6 G's

Designed to maximize dewatering, while minimizing operational footprint and operational cost.



ESS-2000DT™

2,000 GPM Multi-Pass Dewatering With Both Desanders and Desilters



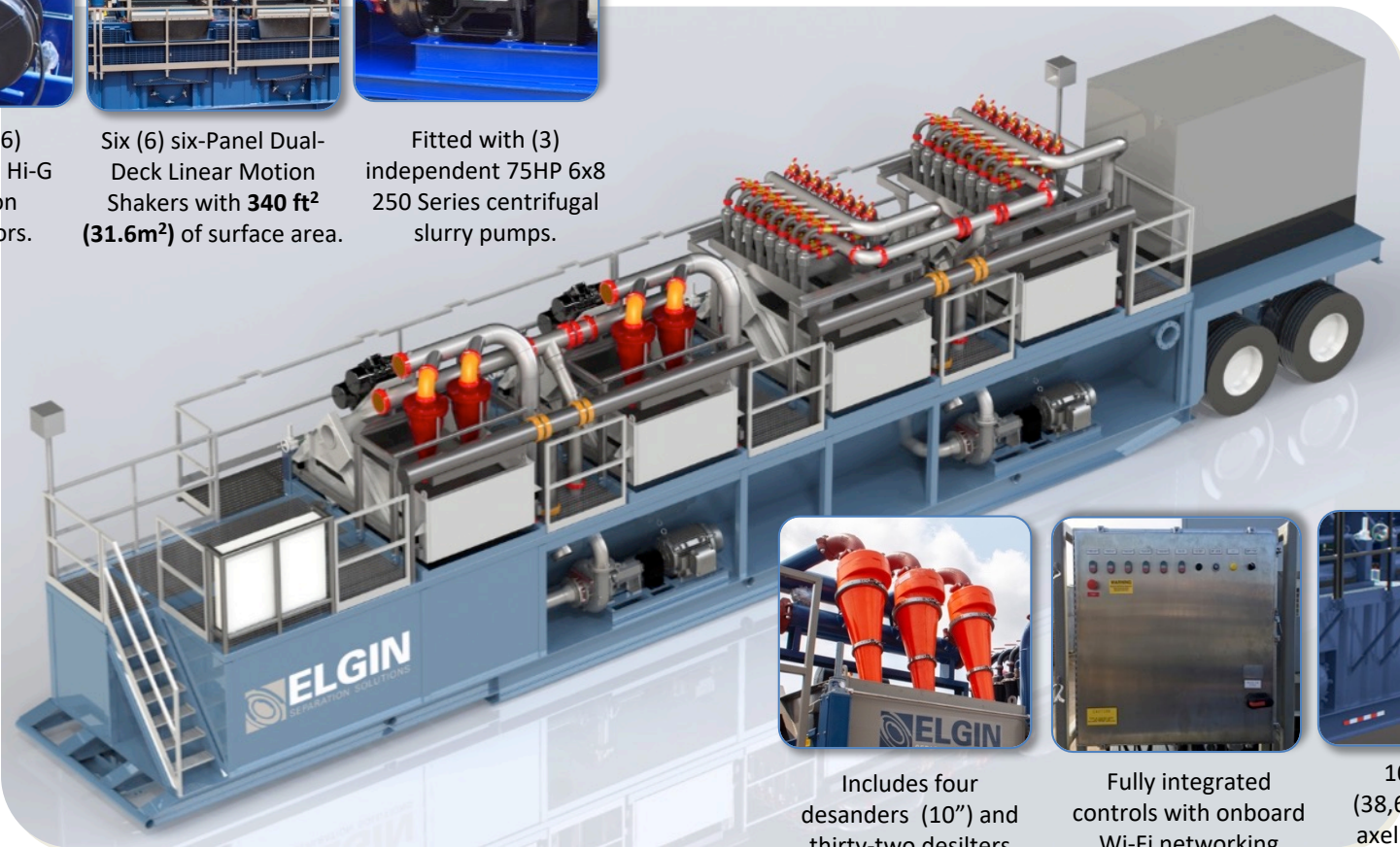
Fitted with (6)
2.4HP or 2.5HP Hi-G
linear motion
vibrator motors.



Six (6) six-Panel Dual-
Deck Linear Motion
Shakers with **340 ft²**
(31.6m²) of surface area.



Fitted with (3)
independent 75HP 6x8
250 Series centrifugal
slurry pumps.



Includes four
desanders (10") and
thirty-two desilters
(4"), screen savers &
valve isolation.



Fully integrated
controls with onboard
Wi-Fi networking
system.



10,200 gallon
(38,600 liters), dual
axel mounted tank



ESS-2000DT™

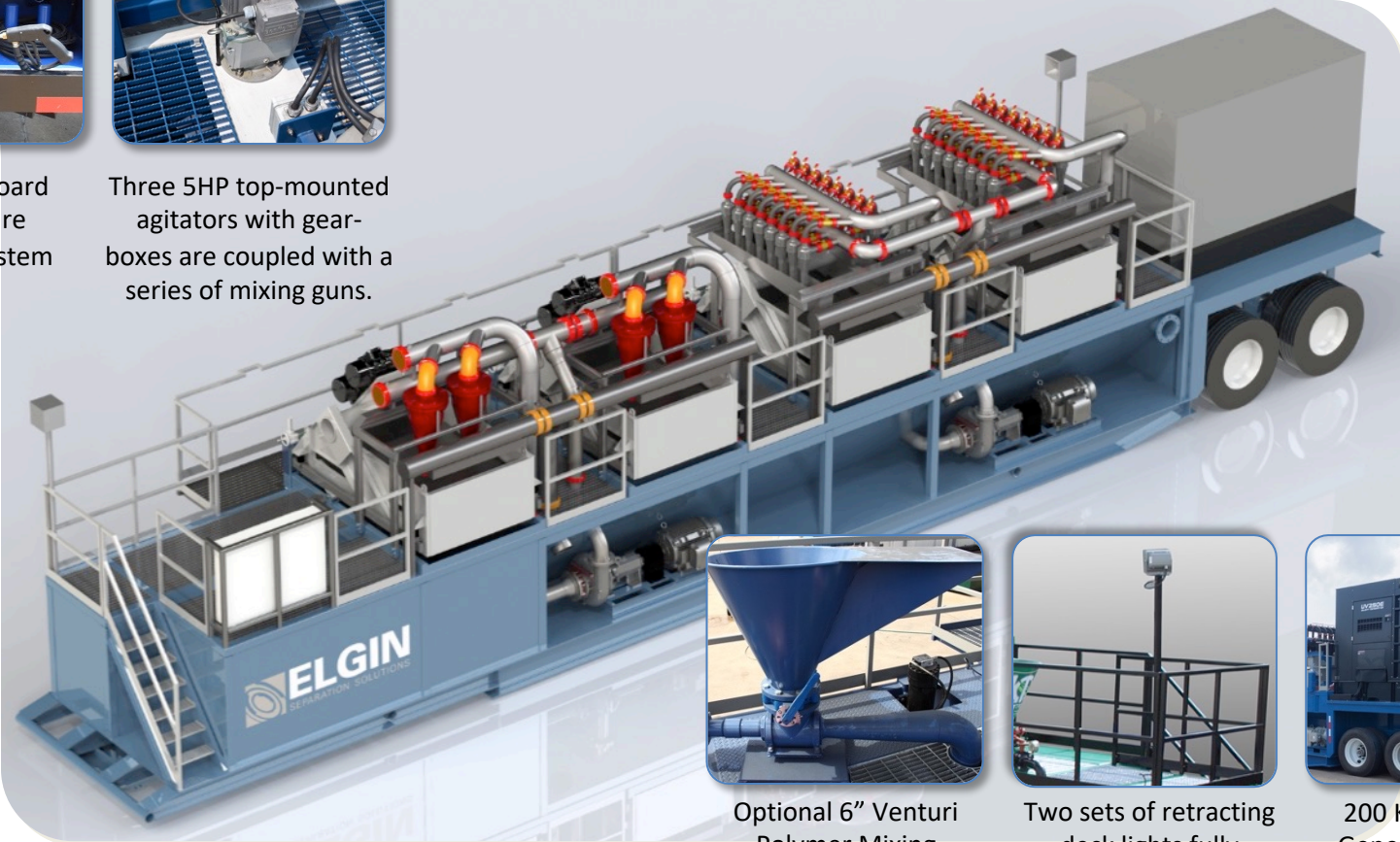
2,000 GPM Multi-Pass Dewatering System With Both Desanders and Desilters



Optional onboard high-pressure washer for system cleaning.



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



Optional 6" Venturi Polymer Mixing Hopper.



Two sets of retracting deck lights fully illuminate the working deck of the entire system.



200 KW On-Board Generator Package



ESS-3000DT™

3,000 GPM Multi-Pass Dredge Dewatering System With 25 Micron Cut



Key Differentiators	Elgin 3000DT	Competition
Number of Transport Loads <i>(Not Including Conveyors)</i>	1	2
Field Erection Time <i>(Assuming Two Laborers)</i>	1 Hour	1 Day
Operational Real Estate <i>(“Foot Print”)</i>	800 ft ²	1,500 ft ²
Centrifugal Pump Fluid Handling <i>(Series 250 Pumps)</i>	8x6x14	6x5x14
Total Screening Surface Area	340 ft ²	160 ft ²
Shaker G-Force	7 G's	6 G's

Designed to maximize dewatering, while minimizing operational footprint and operational cost.



ESS-3000DT™

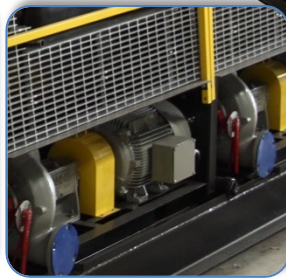
3,000 GPM Multi-Pass Dredge Dewatering System With 25 Micron Cut



Six (6) Six-Panel Dual-Deck Linear Motion Shakers with **340 ft² (31.6m²)** of surface area.



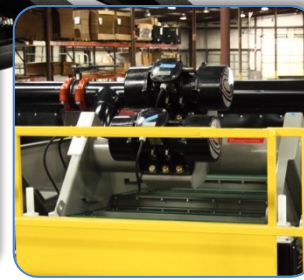
Fitted with (6) 2.5HP Hi-G linear motion vibrator motors.



Fitted with (4) independent 75HP 6x8x14 250 Series Centrifugal Slurry Pumps.



Includes forty (40) 4", ceramic-lined desilters with screen savers & valve isolation.



On-Board Debris Scalping System to Remove Course Solids from the Dewatering System.



10,200 gallon (38,600 liters), dual axle mounted tank.



ESS-3000DT™

3,000 GPM Multi-Pass Dredge Dewatering System With 25 Micron Cut



"Cruise Control
Automation with Local
Encrypted Wifi for
Remote Wireless
Operation.



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



Two sets of retracting
deck lights fully illuminate
the working deck of the
entire system.



Optional 6" Venturi
Polymer Mixing
Hopper.

*Designed to maximize dewatering, while minimizing
operational footprint and operational cost.*



ESS-3000DT™ – Mixed Cyclones

3,000 GPM Multi-Pass Dewatering With Both Desanders and Desilters



Fitted with six (6) independent 75HP 6x8x14 250 Series slurry pumps.



Includes forty (40) 4", ceramic-lined desilters with screen savers & valve isolation.



Includes six (6) 10" desanders .



Designed to be Integrated with an Independent Scalping Shaker Package.

Designed to maximize dewatering, while minimizing operational footprint and operational cost.



ESS-4000DT™ – Desanders Only

Up to 4,000 GPM Multi-Pass Coarse Solids Dewatering With Desanders



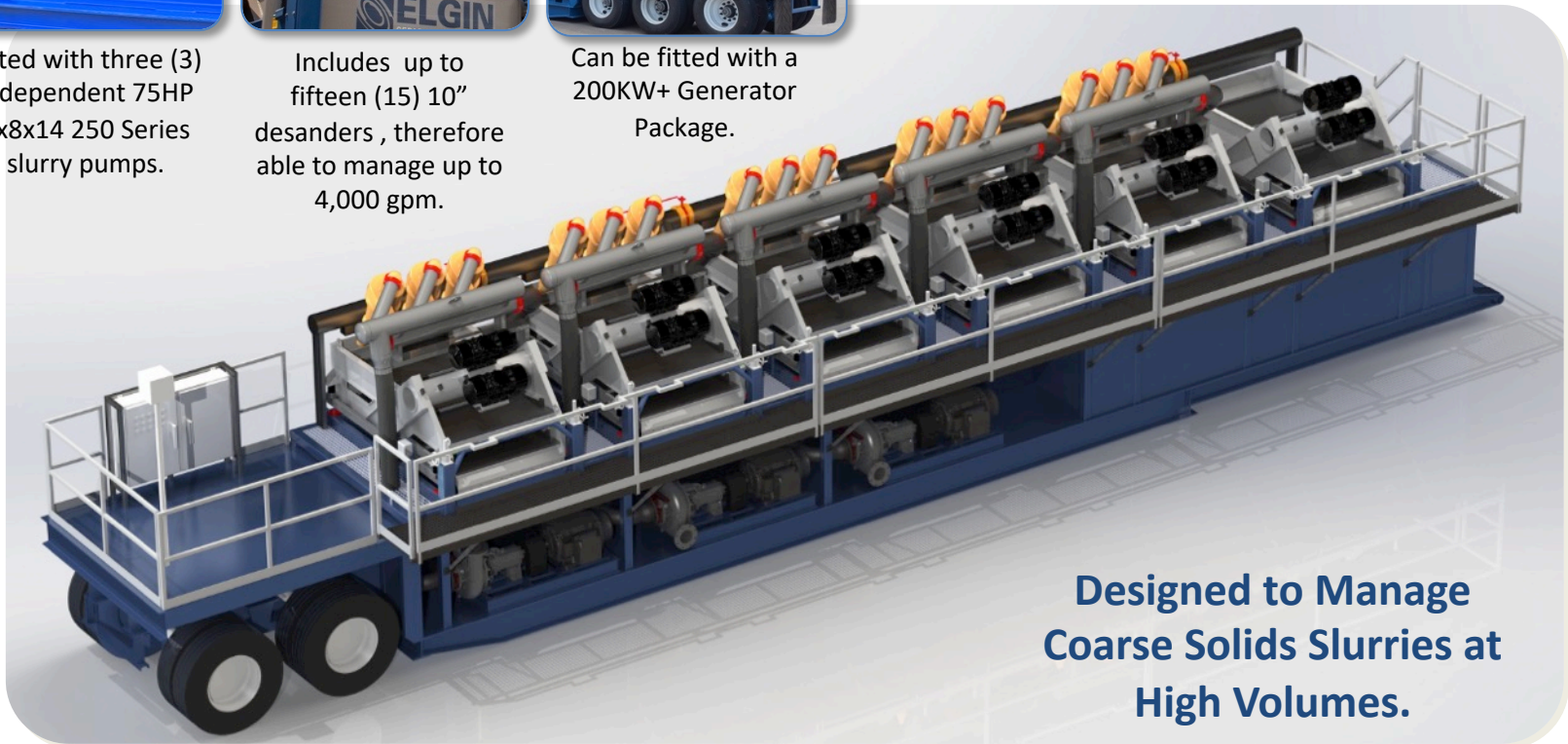
Fitted with three (3) independent 75HP 6x8x14 250 Series slurry pumps.



Includes up to fifteen (15) 10" desanders, therefore able to manage up to 4,000 gpm.



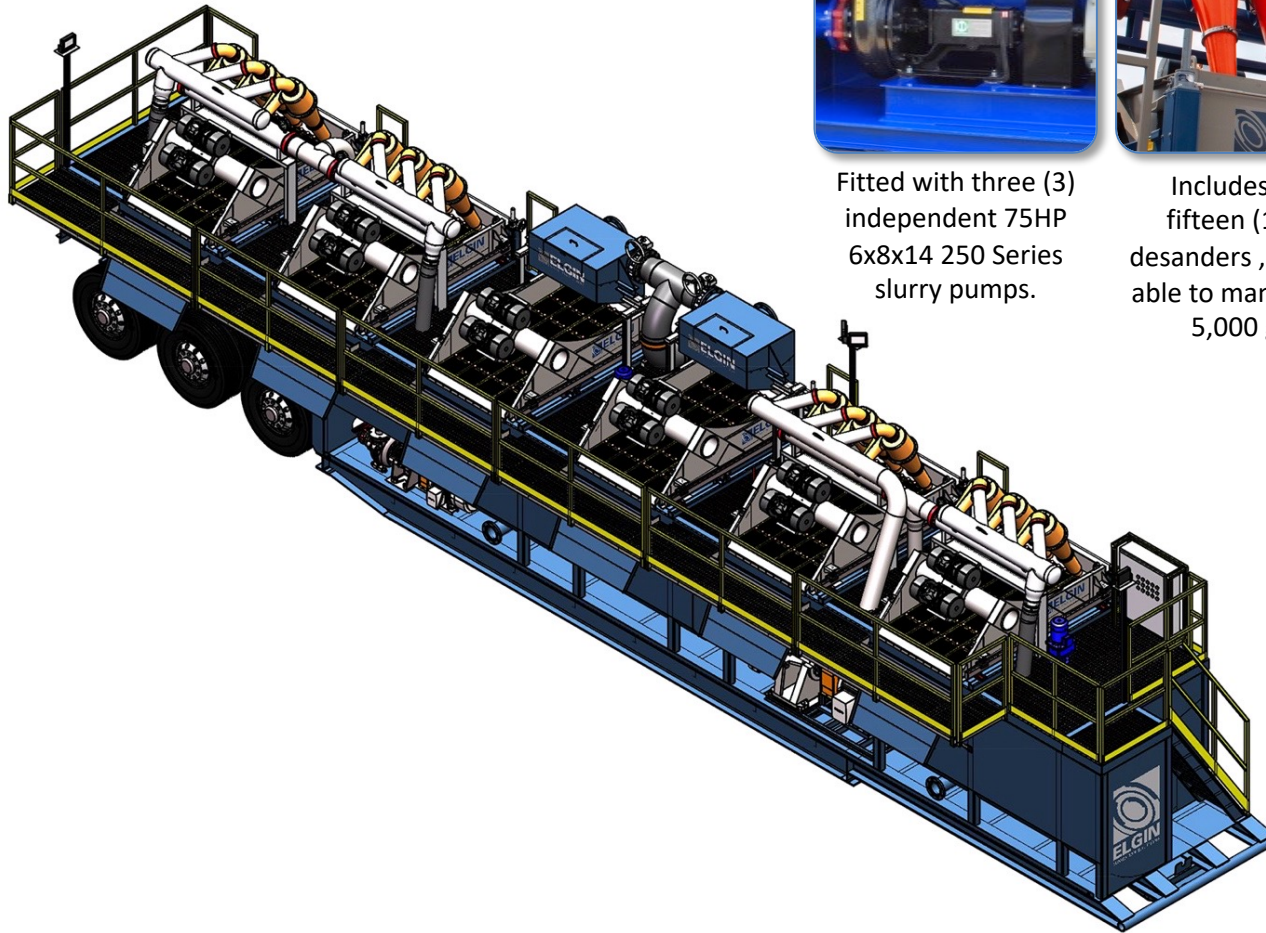
Can be fitted with a 200KW+ Generator Package.



**Designed to Manage
Coarse Solids Slurries at
High Volumes.**

ESS-5000DT™ – Desanders Only

Up to 5,000 GPM Multi-Pass Coarse Solids Dewatering With Desanders



Fitted with three (3) independent 75HP 6x8x14 250 Series slurry pumps.



Includes up to fifteen (15) 10" desanders, therefore able to manage up to 5,000 gpm.



Can be fitted with a 200KW+ Generator Package.

**Designed to Manage
Coarse Solids Slurries at
High Volumes.**



Dredge Dewatering System Options

A Myriad of System Options are Available Upon Request.



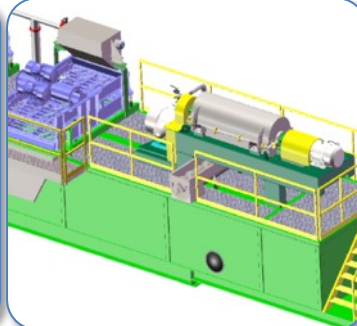
150 to 400KW Generators

On-board generator packages (sound-attenuated versions also available) provides power to the entire dewatering package.



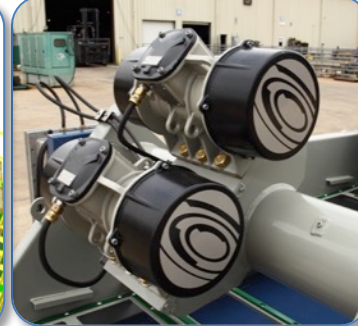
Winterization Packages

Elgin's packages can be fitted with a complement of winterization packages including, emersion heaters, convective heat ports, pump cabin enclosures and working deck enclosures.



Centrifuge Integration

Depending on the model selected, Elgin dewatering packages can be full integrated with a centrifuge directly within the footprint of upper deck. Includes feed pump and VFD HMI touch-screen interface.



Dual Motion, Multi-G Shakers

Elgin's Hyper-G Shakers can be fitted with dual motion, multi-G shaker motors to maximize shaker performance and allow for tuning of the shaker relative to the operation conditions.



Integrated Pressure Washer

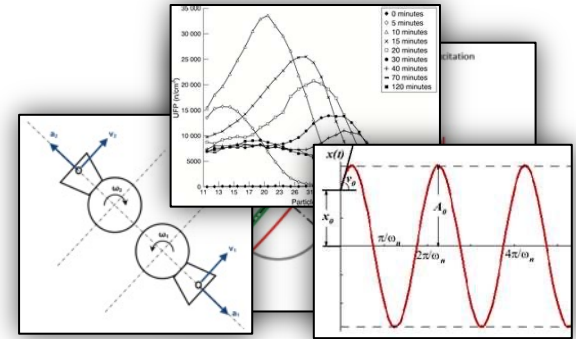
Fully integrated within the tank structure, this high pressure washer will keep screens from blinding and allow for rig clean-up at the end of the job.

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



Unsurpassed Value

Definitive Value Proposition in Utilizing Elgin Dredge Dewatering Systems.



Unsurpassed Experience

As the trend-setting leading in package, mobile dewatering systems, we ship one packaged dewatering system or solids control system per week. No other manufacture ships more packaged systems.

Unsurpassed Durability

With decades of experience building package mobile systems, we have developed a reputation for the most durable systems in the market. The average asset life ranges from 7 to 10 years.

Full-Scale Engineering Support

Our dedicated Engineering team evaluates system hydraulics, frictional losses, predictive reliability, and failure mode evaluation analysis ("FMEA") for each system built. Combined with our ability to creatively customize your system, there is no better choice.

In addition to the above, we are the only Dredge Dewatering System OEM that manufactures its own shakers and screens ensuring 100% integrated accountability for the entire system.

