



# Dredge Dewatering Products Overview

2023 – Revision H

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



# Slurry Management History

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

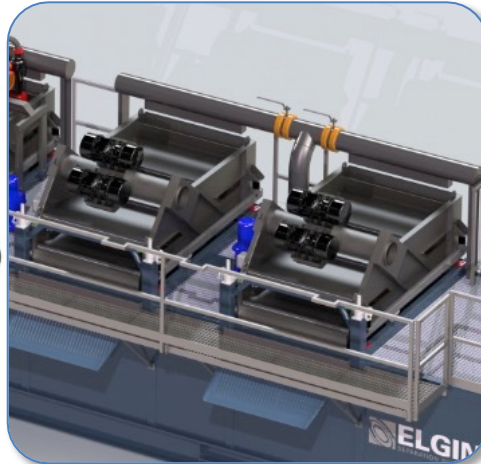


*Founded in 1990, we have become the industry leader in reliable, durable and fully integrated slurry management systems for the foundation drilling, pipeline, geothermal, and waterwell Industry.*



# 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-axel trailers, and integrated dewatering systems.*



# Features and Benefits

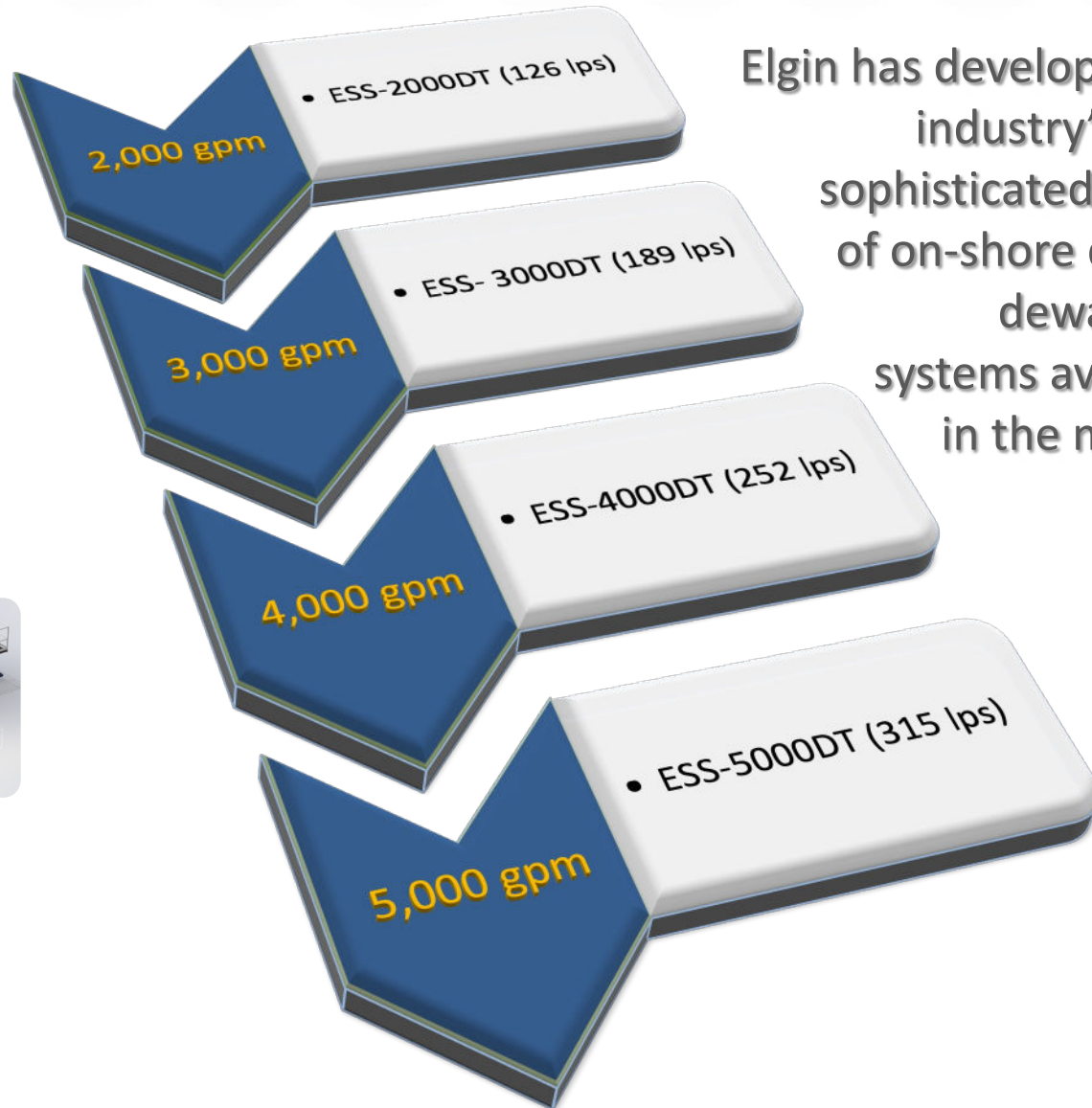
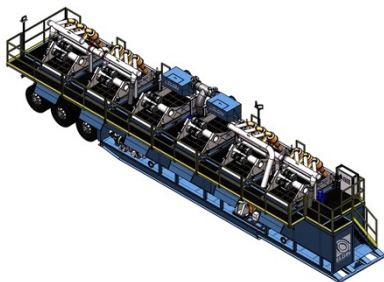
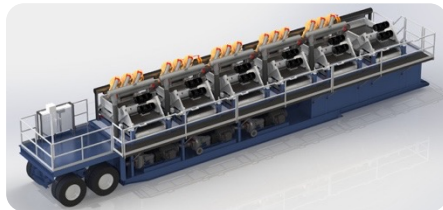
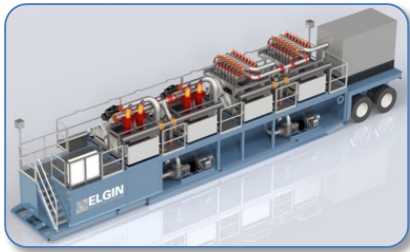
## Dredge Dewatering Solutions

- 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 Systems

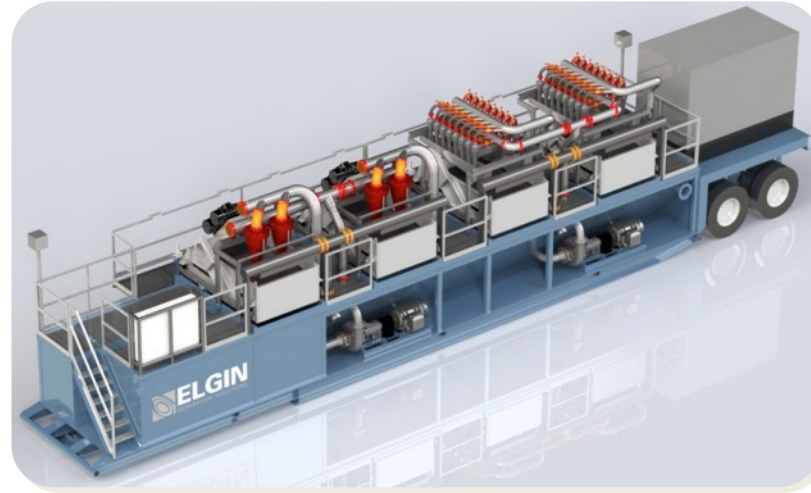
2,000 Gallons per Minute up to 5,000 Gallons per Minute



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

# 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 <sup>2</sup>	1,000 ft <sup>2</sup>
Centrifugal Pump Fluid Handling <i>(Series 250 Pumps)</i>	8x6x14	6x5x14
Total Screening Surface Area	215 ft <sup>2</sup>	130 ft <sup>2</sup>
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



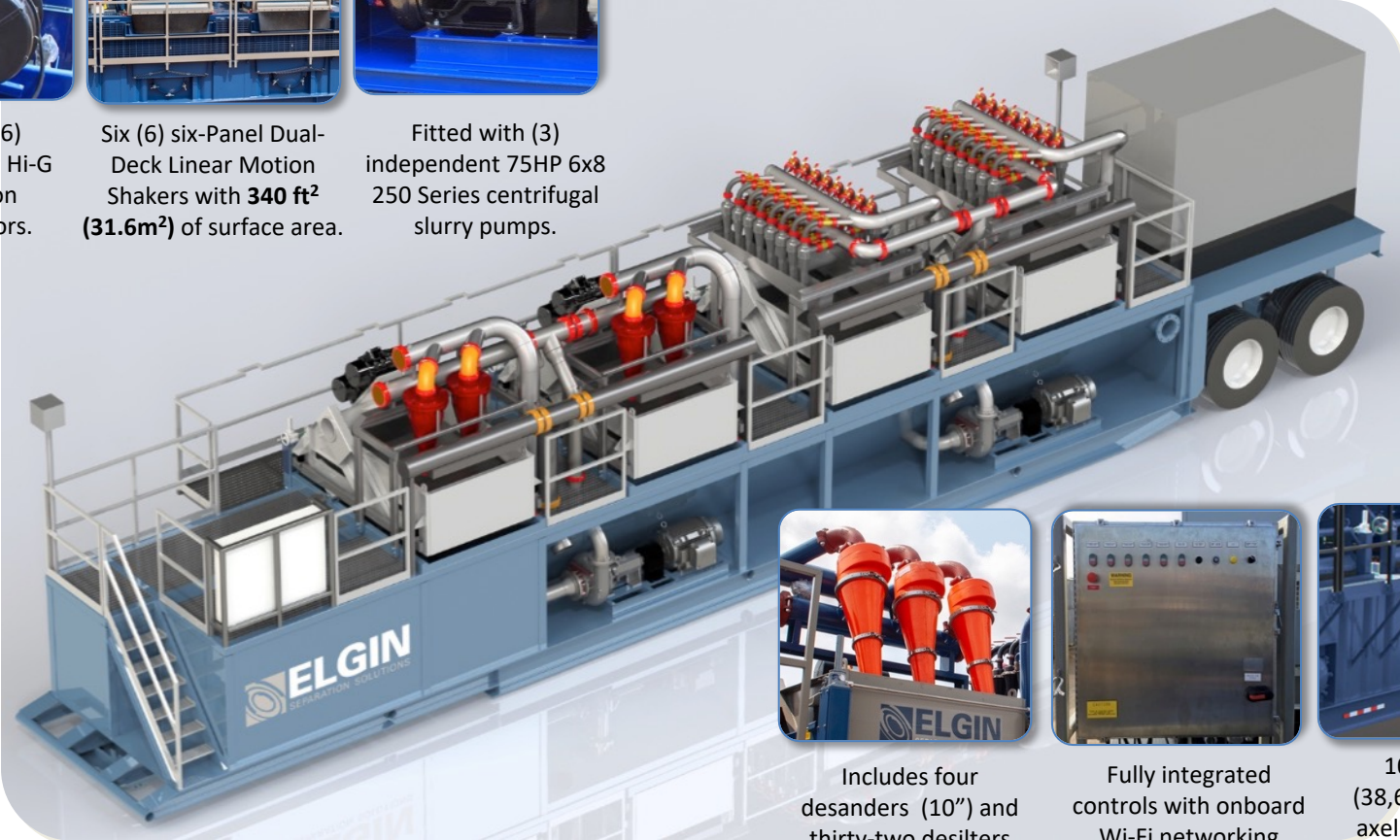
Fitted with (6) 2.4HP or 2.5HP Hi-G linear motion vibrator motors.



Six (6) six-Panel Dual-Deck Linear Motion Shakers with **340 ft<sup>2</sup>** (31.6m<sup>2</sup>) 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.

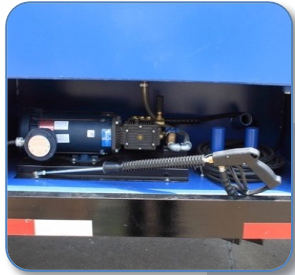


10,200 gallon (38,600 liters), dual axel mounted tank



# ESS-2000DT™

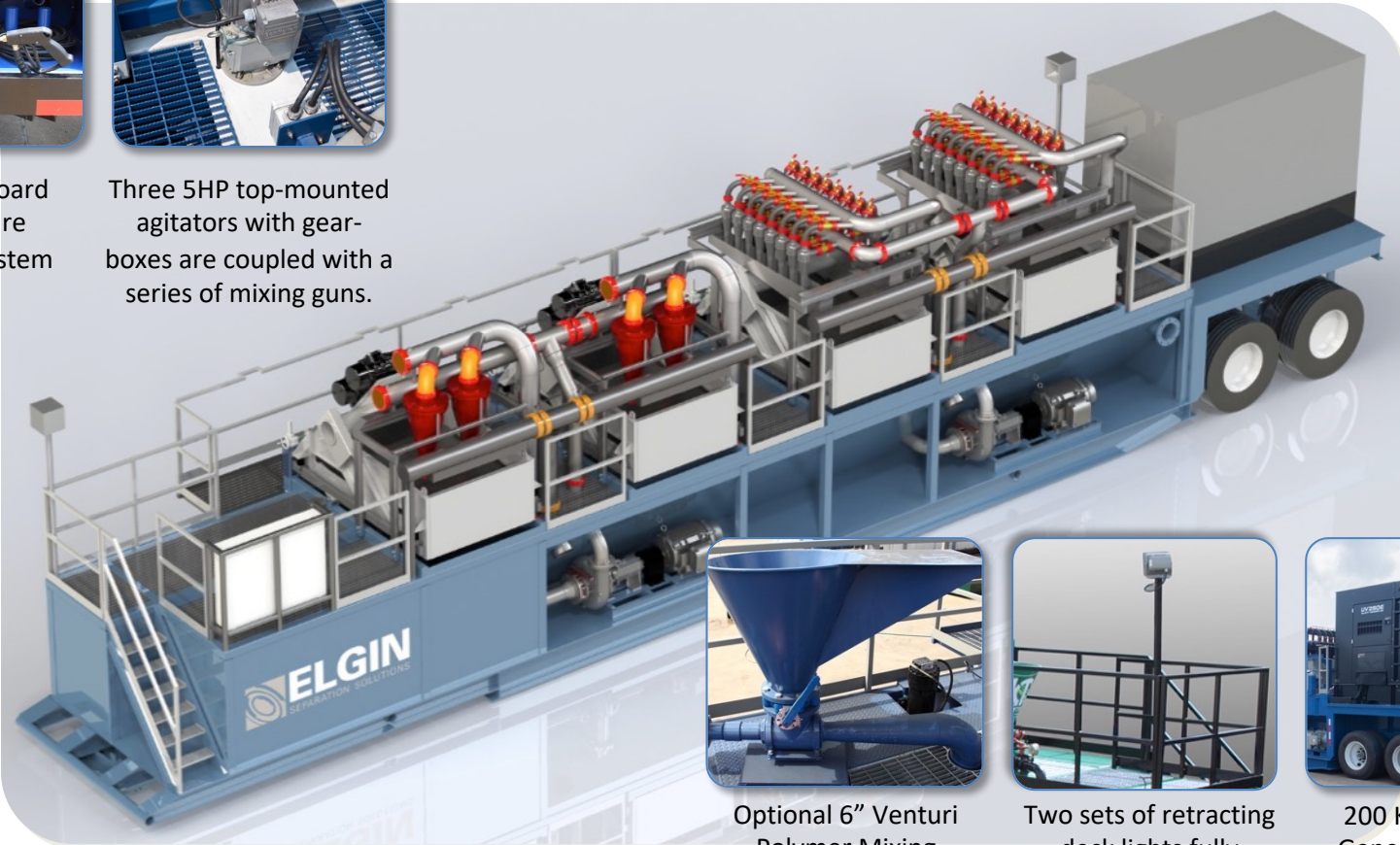
2,000 GPM Multi-Pass Dewatering System With Both Desanders and Desilters



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 <sup>2</sup>	1,500 ft <sup>2</sup>
Centrifugal Pump Fluid Handling <i>(Series 250 Pumps)</i>	8x6x14	6x5x14
Total Screening Surface Area	340 ft <sup>2</sup>	160 ft <sup>2</sup>
Shaker G-Force	7 G's	6 G's

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



# ESS-3000DT™

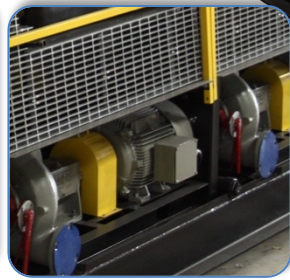
3,000 GPM Multi-Pass Dredge Dewatering System With 25 Micron Cut



Six (6) Six-Panel Dual-Deck Linear Motion Shakers with **340 ft<sup>2</sup> (31.6m<sup>2</sup>)** of surface area.



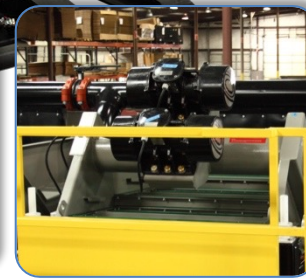
Fitted with (6) 2.5HP Hi-G linear motion vibrator motors.



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 Clean  
Tank Level Sensors for  
Transfer Function



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



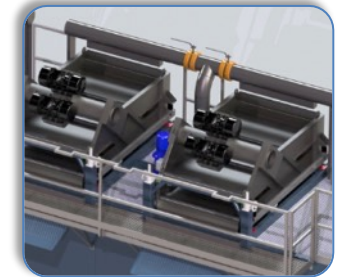
Fitted with six (6) independent 75HP 6x8x14 250 Series slurry pumps.



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



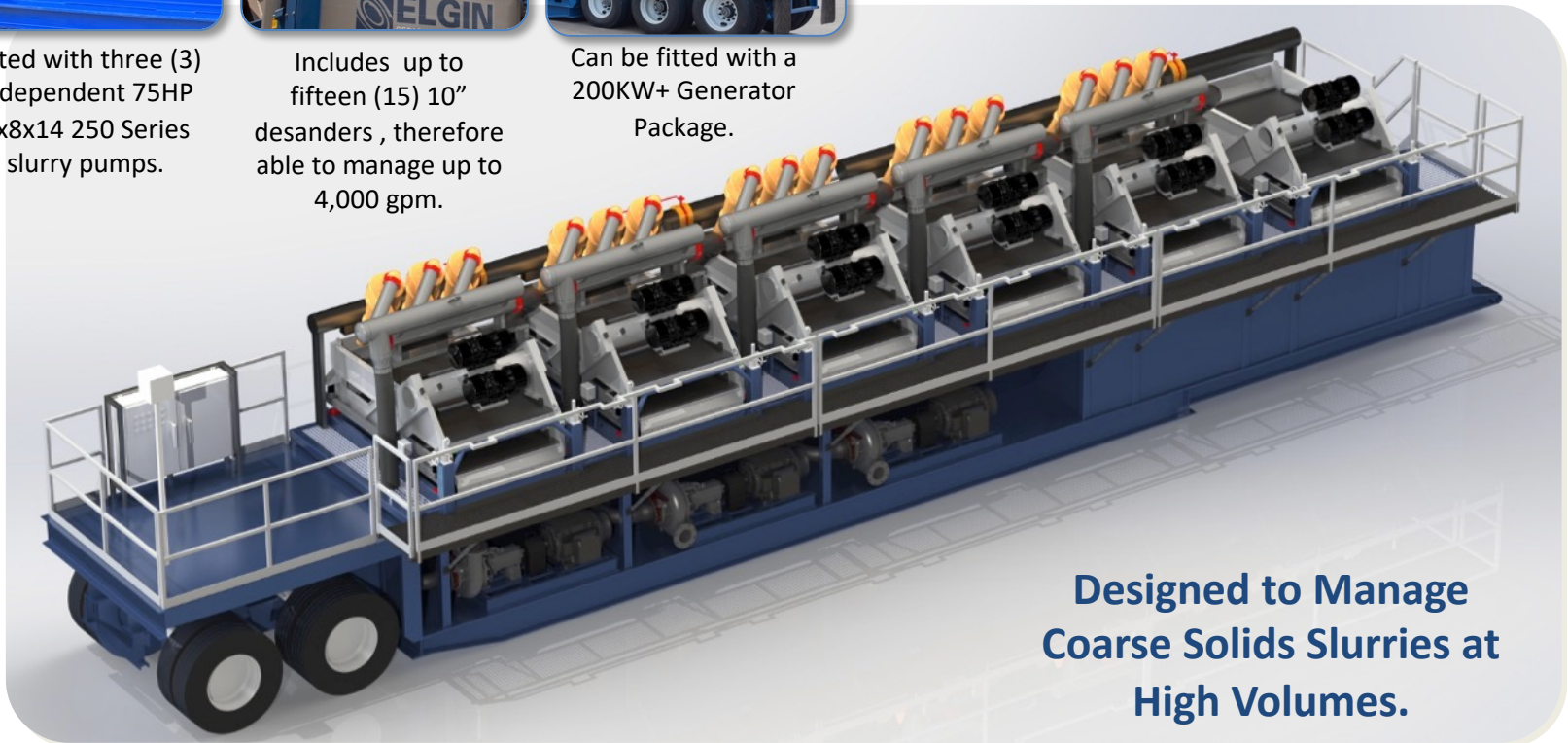
Fitted with three (3) independent 75HP 6x8x14 250 Series slurry pumps.



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



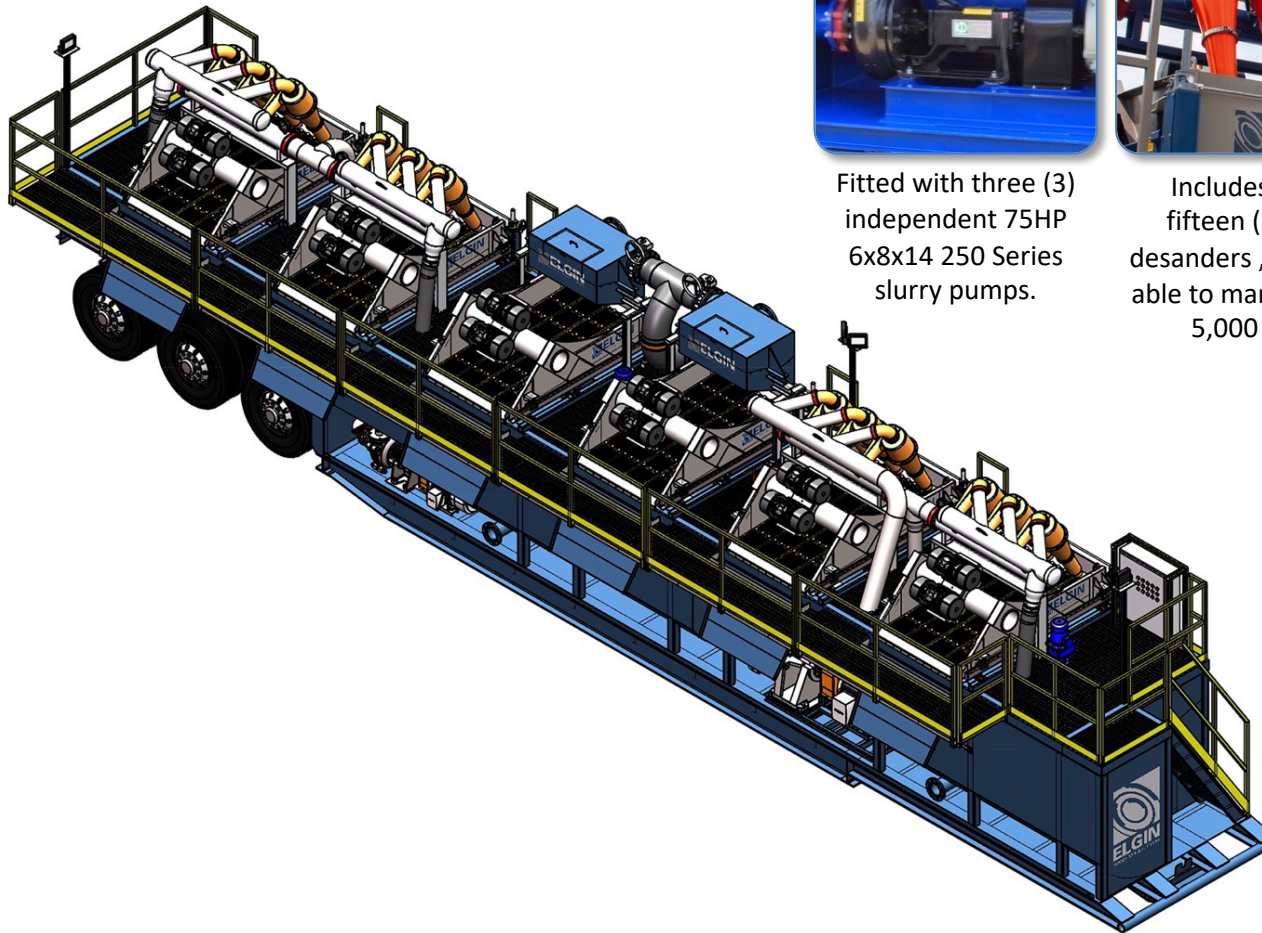
Fitted with three (3) independent 75HP 6x8x14 250 Series slurry pumps.



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



Can be fitted with a 200KW+ Generator Package.

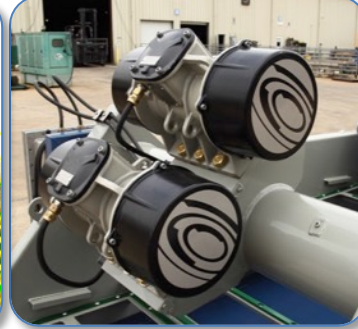
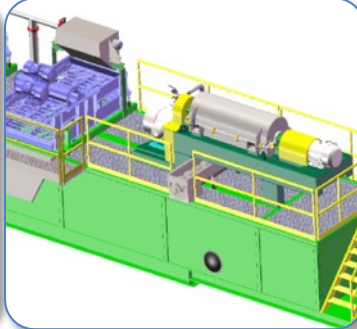


**Designed to Manage  
Coarse Solids Slurries at  
High Volumes.**



# 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

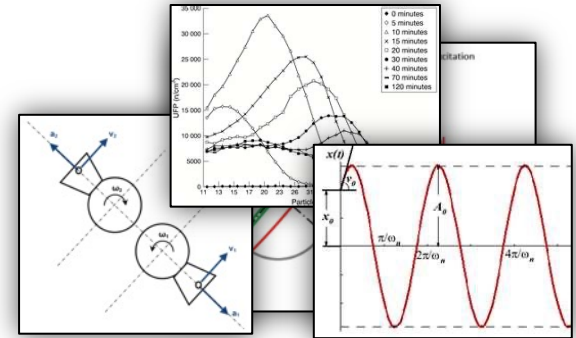
Definitive Value Proposition in Utilizing Elgin Dredge Dewatering Systems.



25+ Years



10 Years



## 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 manufacturer 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.*

