



There Is Genius In Simplicity







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## WHAT MAKES THE DREDGES BUILT BY CUSTOM DREDGE WORKS BETTER THAN THE REST?

We encourage you to explore and compare our very specific skillsets. Our team brings a unique capability to build a World Class Dredge boasting features and benefits that can only be found in the Highest-Value Dredges.

From design to maintenance and repairs... we'll build a dredge and provide services to meet and exceed your most stringent requirements. Your new dredge will be specifically designed and built to excel in whatever hostile environment you call home...

We extend to you an invitation to come visit our facility located in Topeka, Kansas to see why Custom Dredge Works is your ultimate dredge manufacturing partner. We know you'll be impressed with our passion and capabilities for building the Highest Value Dredges in the USA.

To us and our clients, "Highest-Value" means maximum Return on Investment







## BUILDING ON A HISTORY OF EXCELLENCE

*A new Dredge is likely one of the largest and most important investments you will make for your business. Our primary goal is to make sure that your decision to acquire a dredge from Custom Dredge Works Inc. will produce maximum return on your investment day-in and day-out for years to come.*

Custom Dredge Works brings 40-years of hands on metal fabrication experience and 20-years of dredge design expertise to building world class dredges. We are focused exclusively on manufacturing the highest quality custom dredge solutions possible. With a sizable fleet of cutter suction dredges built and in operation, Custom Dredge Works has emerged as the premier manufacturer of hydraulic cutter suction dredges. Our growth and success comes from you, our customer, and is earned by delivering a dredge that exceeds expectation for both quality, performance and budget.

### **Custom Dredge Works Products and Services:**

- Customized New Dredge Designs from 8" discharge up to 20"
- Comprehensive automation and data-logging options
- Heavy duty Booster Pump Stations
- Dewatering Bucket Wheels, Industry Proven
- Expertly engineered electric powered dredges and booster pumps
- Power Conversion projects from Diesel Power to Electricity or Natural Gas
- Dredge replacement parts A-to-Z
- Five Work-Trucks & Crews providing fast on-site repair services
- Coast-to-coast Dredge Transport Services
- Purchase and Sell used dredges

### *There is Genius in Simplicity!*

*There are very few industries where the old adage 'Time is money' is more apropos than in Dredging. For this reason, Custom Dredge Works believes in the genius of simplicity.*

*Custom Dredge Works dredges offer the perfect combination of form & function resulting in optimum performance, consistent reliable results, and excellent return on investment.*

- *A Dredge That Is Easy to Operate*
- *A Dredge With Easy to Acquire Replacement Parts*
- *A Dredge That Is Easy To Self-Repair and Maintain*
- *A Dredge That Is Reliable*



After years of real world experience with what works, and analyzing the weaknesses of competitive solutions, Custom Dredge Works believes that Highest-value Dredges meet the following requirements:

1. **“Built like a tank” Construction:** Solid, heavy duty. Extra internal supports, reinforcements, trusses, double and overlapping welds and joints. Socket welds on all hydraulic lines. Rigid quality control inspections and scrutiny. Skilled craftsmen, utilizing the latest fabrication technology.
2. **Longevity:** Maintained properly, our dredges are designed and built to provide a productive functional lifespan of up to 40 years.
3. **Accurate and Predictable Production Capability:** Our dredges are very carefully custom designed for each client and application. If the site composition was accurately described, and the dredge Operator is competent, our dredges will consistently perform at or beyond the desired metrics.
4. **Minimize Unscheduled Shutdowns:** Since time is quite literally money in the world of Dredging, unscheduled shutdowns must be minimized with the length of each occurrence shortened as much as possible. After years of trial & error and common-sense analysis, consistent patterns have emerged as to why unscheduled shutdowns occur. Based on these patterns, our goal is to anticipate, avoid, and shorten shutdowns employing key strategies.
5. **Use only “Best-in-Class” O.E.M. off-the-shelf parts:** This allows for quick and easy access to local parts dealers in most locations for fast self maintenance or local certified repairs. The specific OEM brand components used in your customized dredge are determined by you and aligned with your preferences.
6. **Utilization of high quality electronic controls:** However, the dredge must be able to operate in the event of a lightning strike or an electronic failure. Our dredge control systems have built-in redundancy so you can continue to operate independent of a PLC or computer control.
7. **Employ two completely separate Hydraulic systems.**
8. **Stainless Steel Hydraulic fluid tanks:** Avoid the residue pollutants produced by tank coatings, which inevitably corrupt all hydraulic systems.
9. **Back-Up Gearbox Replacement Program:** CDW stocks its standard gearboxes, in the event a replacement must be immediately available. CDW can ship new or offer a remanufactured alternative at a more economical cost.
10. **Fast deployment of replacement parts:** Parts and service crews can be dispatched for emergency projects at a moments notice.
11. **Support:** Immediate expert telephone support and troubleshooting.



## BUILDING A SUPERIOR WORLD CLASS DREDGE

### Customization is our Fine Art

Our charter commitment and devotion is to custom design, engineer, and build your Dredge bow to stern guided by your uniquely specified requirements. At Custom Dredge Works, we begin every build by completing an exhaustive analysis of your unique environment, obstacles, production objectives, and preferences balanced against your investment budget to develop a tailored design.

### Distinguishing Characteristics

The right tool for the right job. Though you surely may find a solution that costs less, or a dredge that boasts more bells and whistles, experience has shown that inexpensive usually leads to production issues in the field and complicated technology and gadgets can translate into unscheduled shutdowns with long wait times for parts and trained repair technicians. In addition, it is common for many of our competitors to employ proprietary parts and components, which require long-term allegiance. This approach typically results in costlier and time consuming repair and maintenance issues. At Custom Dredge Works we'll build you the dredge you would build for yourself.





## CUTTER SUCTION DREDGES

Our primary focus at Custom Dredge Works is to design, engineer, and manufacture dredges that offer the highest-value dredge and the greatest return on investment found anywhere. Once you evaluate all that we have to offer and review our methods and designs, we know that you will agree that selecting Custom Dredge Works as your partner is the optimal choice to design and build your next dredge.



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### Custom Dredge Works offers Semi-Portable Hydraulic Cutter Suction Dredges with the following Design Highlights

- Straight Suction, CutterHead, or ChainLadder
- Discharge sizes 8" to 20"
- Fixed or Swinging Ladders
- Deep Digging Ladders with Underwater Mounted Pumps
- Electric, Diesel, or Natural Gas
- The Best-in-Class OEM systems, components, and parts
- Determine your preferred brands for Engine, Pump, and other Components
- Any desired Spud or Wire configuration
- Heavy duty socket welds for all hydraulic connections
- All hydraulic lines are heavy steel pipe
- Stainless Steel Hydraulic fluid tanks
- Dual Hydraulic Systems to minimize oil contamination
- Remote control Stellar Crane
- Any cab size and configuration
- No PLC/Computer Reliance: All the gadgetry and technology in the operators cab that you desire, but core dredge operations are NEVER solely dependent upon a PLC/Computer
- Comprehensive Dredge Automation options and capabilities
- Data Log Recording and Distribution capabilities
- Butterfly Production Control Valve
- Touch Screen Displays
- Redundant hydraulic manual controls
- Redundant analog gauge instrumentation
- Water Jets, Venturies
- Any color scheme design per your preference
- Marine Grade Epoxy Paint. An epoxy technology that maintains color and appearance better than previous coal tar and mastic epoxies. This two-part epoxy also cures faster and allows for a much more uniform, harder more durable finish.
- Solid HDPE Planks Located Along Side Flotation; extends life of hull
- Aluminum Speedrail Package
- 12-month warranty on the dredge and all components
- Hands-on assistance for Dredge Assembly, Launch, and Training

### Complimentary Ongoing Support

*As a Custom Dredge Works customer and member of the Custom Dredge Works family, you and your team will enjoy direct access to our professional support team to expedite and trouble shoot issues with your Custom Dredge Works dredge. Our support team includes experts in Electrical, Automation, Hydraulics, Mechanical, and Replacement Parts.*



### DIGGING DEEP

- CutterChain designs with 7", 8", 9", or 11" pitch
- Modern CutterHeads with replaceable teeth
- Straight Suction and Powerful Water Jets
- Underwater Ladder Mounted Pumps
- Production Control Butterfly Valves, and Venturies
- Strong stable ladders
- Dig with power and confidence



### AUTOMATION

- Touch Screen Displays
- Display and Record all variables and activity
- View and Record Production Remotely
- Automate Dredging Plan
- Depth, GPS, Pump Speed, Density Meter
- Automate pump speed and ladder control
- Control of Boosters from cab
- Many Automation options are available



### CUSTOMIZE YOUR COMPONENTS

- Choose favorite make Pump, Engine, Winch, etc.
- Configure your cab size, controls, lights, cranes, etc.
- Request unique designs, components and features
- Personalize the color scheme and dredge name



### POSITIONING

- Three-wire
- Five-wire "Christmas-tree"
- Rear Spuds and/or Forward Spuds
- Walking or Push Spuds
- Traveling Spud Barges
- Self-propulsion options



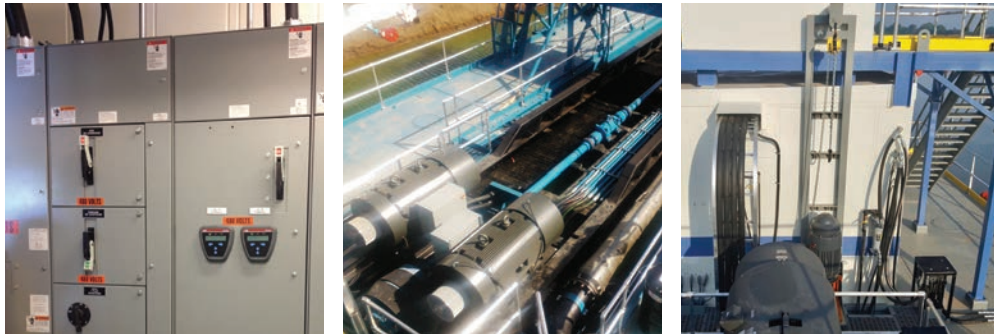
# ELECTRIC POWERED DREDGES

Custom Dredge Works is one of the largest and most highly regarded electric dredge manufacturers in the US. We have a team of skilled Electrical and Mechanical Engineers on staff with extensive experience in designing, building, and launching electric powered dredges and booster pumps. Our engineers can also assist you with insight and recommendations for establishing electrical transformers at your location.

Custom Dredge Works brings a unique skill set capable of facilitating power conversion projects from diesel powered dredges and boosters to electric power.

*(Ask for our White Paper on the cost savings of converting to electric)*

The following are important benefits of operating electric powered Dredges and Booster Pumps that you should consider:



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# ELECTRIC POWERED DREDGE FEATURES

## ECOLOGICAL BENEFITS:

- Elimination of diesel engine air pollution
- Elimination of fuel spill water pollution
- Considerable reduction in noise pollution as they are much quieter than diesel!
- Compliance with current or future Federal, State, and Local emissions, water, and noise statutes
- Improved image and relationship with neighbors, environmental authorities, and activists

## ECONOMIC BENEFITS

- Tier 4 compliant Diesel and Electric powered dredges are now more equal in cost
- Substantial annual savings in production costs
- Reduction or Elimination of engine maintenance costs
- Electric Motor useful life can be 3 times greater than diesel engines
- Improve production output by reduced maintenance and downtime
- Consistent Production Reliability and Cash-Flow Predictability
- Improved Customer Confidence related to Consistent Production
- Great Resale Value
- Ease of Use!, Ease of Use!, Ease of Use!
- Happier, less stressed Operations and Maintenance personnel
- Elimination of Fuel Transport costs
- Elimination of Fuel Spill liability and cleanup costs
- Elimination of shutdown costs for Refueling and Oil Changes
- Elimination of Liability for non-compliance of emission, water, and noise pollution statutes
- May contribute to making County and State Mining Approvals easier to obtain
- Acquire LEED points and boost your reputation for Government contracts.
- 24-month warranty coverage from TOSHIBA when Motor and VFD are purchased together





## BOOSTER PUMPS

### THE HIGHEST-VALUE IN BOOSTER PUMPS

We have developed unique cost efficiencies in deployment of manufacturing costs, parts, and labor. This results in Custom Dredge Works ability to build, deliver, and install a brand-new Booster Pump costing the same or even less than the cost to build your own\*. In addition, you will also receive all the advantages listed opposite, including warranties and ongoing support.

*\*cost comparison assumes you acquire comparable new components and standard pay for an appropriate number of skilled man-hours and sales tax.*



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## BOOSTER PUMP STATION FEATURES

- Best-in-Class OEM parts (no proprietary, hard to replace parts)
- Expert, computerized assistance in sizing and placement of your new booster pump(s)
- Superior engineering and a customized design per your specifications and requirements
- Choose your Pump and size up to 24": Pearce, Metso, GIW, or other
- Excellent workmanship and Heavy-Duty A36 steel fabrication
- Safe, functional, and aesthetic Skids with Headache racks
- State-of-the-art Automated Engine Throttle Control and Telemetry
- Wireless system to monitor and control booster remotely (option)
- Price includes expert Set-Up, Systems Integration, and Training
- Enclosed and air-conditioned container for VFD and motor controls
- Toshiba Motor and VFD enjoy a 24-month warranty
- A 12-month warranty on all other components and workmanship
- Painted any color scheme according to your preferences
- Marine Grade Epoxy  
Skid, Headache rack, and enclosure receive a new epoxy technology that maintains color and appearance better than previous coal tar and mastic epoxies. This two-part epoxy also cures faster and allows for a much more uniform, harder more durable finish.
- Long-life and high resale value
- Free after-sale support, consultation services, and troubleshooting
- If needed, we have five Service Trucks and experienced Crews on call to provide service in the field for any project or emergency. (Service fees determined on a case-by-case basis)

Contact us for a Free Computerized Booster Placement & Sizing Analysis



## DEWATERING BUCKET WHEELS

Through many years of real life applications along with the evolution of new technology and engineering improvements, Custom Dredge Works designs the highest quality and most cost-effective Dewatering Wheel in the aggregate industry. Our Dewatering Bucket Wheel offers features and benefits that just can't be found in competitive options... See for yourself.



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## DEWATERING BUCKET WHEEL FEATURES

- Wheels that produce 300 Tons Per Hour up to 1200 TPH
- Extreme quality and heavy-duty construction using 1/4" thick A-36 steel
- Fabricated AR400 wear edges
- Hydraulic wheel drive
- Hydrostatic transmission
- Toshiba electric motor with softstart
- Standard urethane screens with 1/8" openings
- "Bucket Master" control package. This Operating Systems adjusts the speed of the Bucket Wheel commensurate with the feed it receives from the Dredge and provides a variety of other automation controls. (see brochure)
- Remote display of wheel control via radio modem (option)
- Custom Dredge Works will provide a Service Technician to oversee the assembly of the Wheel on site and to provide system integrations and operator training
- A 12-month warranty on all other components and workmanship
- Free after-sale support, consultation services, and troubleshooting
- Painted any color scheme according to your preferences
- Marine Grade Epoxy: Entire Wheel will receive a new epoxy technology that maintains color and appearance better than previous coal tar and mastic epoxies. This two-part epoxy also cures faster and allows for a much more uniform, harder more durable finish.
- Our Bucket Wheels can accept direct dredge feed in many applications.



# Custom Dredge Works Gearbox Replacement Program



When a Gearbox goes out, it brings all production to a complete standstill. There can be no forward movement until the Gearbox is repaired or replaced. All experienced dredge owners/operators can attest, replacement or repair can be expensive and time consuming propositions. In order to avoid a potentially

significant negative cash flow event due to an unscheduled shutdown, Custom Dredge Works is proud to offer our proprietary gearbox replacement program.

## Gearbox Replacement Program.

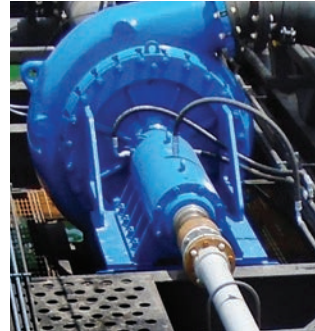
We stock replacement gearboxes at our facility that are ready to be expedited at a moments notice to your location should a failure occur. Once you receive the replacement Gearbox, simply ship the damaged Gearbox back to us in the same crate. We can rebuild your old box for you or you may choose to sell it to us for a core credit. This is a standard service at CDW, which we provide to all of our Dredge and Booster Pump clients with gearboxes nationwide.



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# Replacement Parts

We also have a wide spectrum of parts & components in stock for most make/model dredges:



- CutterHeads and replacement Teeth
- Gearboxes
- Hydraulic Components
- Most OEM PUMPS and Pump wear parts to fit all models (Pearce, GIW, Metso)
- Packing
- CutterChain Pitch sizes 7, 8, 9, and 11
- Nose Liners and Track Liners
- Discharge and Suction Hoses
- Discharge Elbows. WE STOCK MANY SIZES
- Winches and Winch Parts (Pullmaster, Gearmatic, Braden)
- Snatch Blocks and Sheaves (New & Rebuilt)
- Aluminum Bronze Thrust Washers
- Cutlass Bearings
- Special Fabricated Parts per your design specs
- Floating Process Pump Stations
- Torque Tubes
- Joy Sticks / Controls
- Electric Motors
- Flow Meters
- and more...

# Service & Support

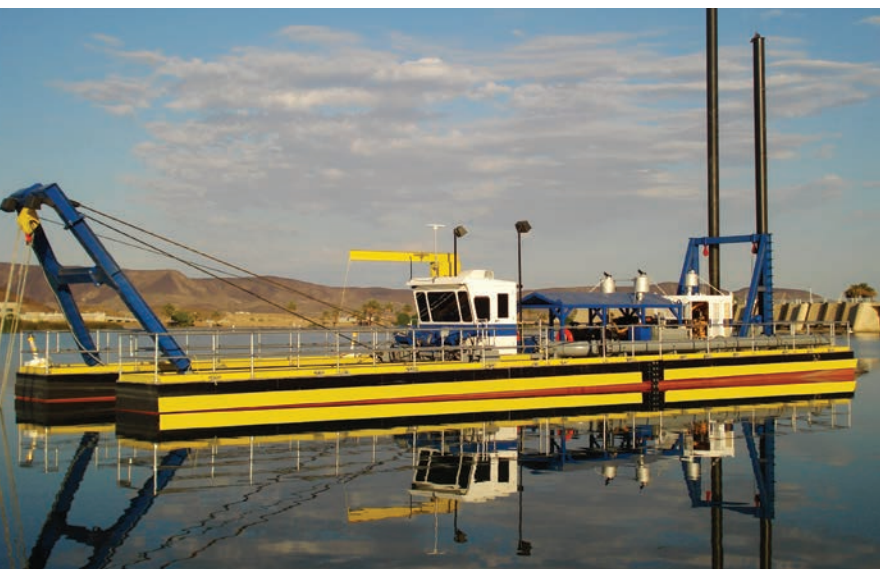
We are experts at Dredge Renovations, Redesigns, and Upgrades. Conversions from diesel to Electric power, Ladder Extensions, etc. for ANY Make/Model Dredge. We have five trucks and crews on standby to provide immediate on-site service for most dredge repair or upgrade projects.

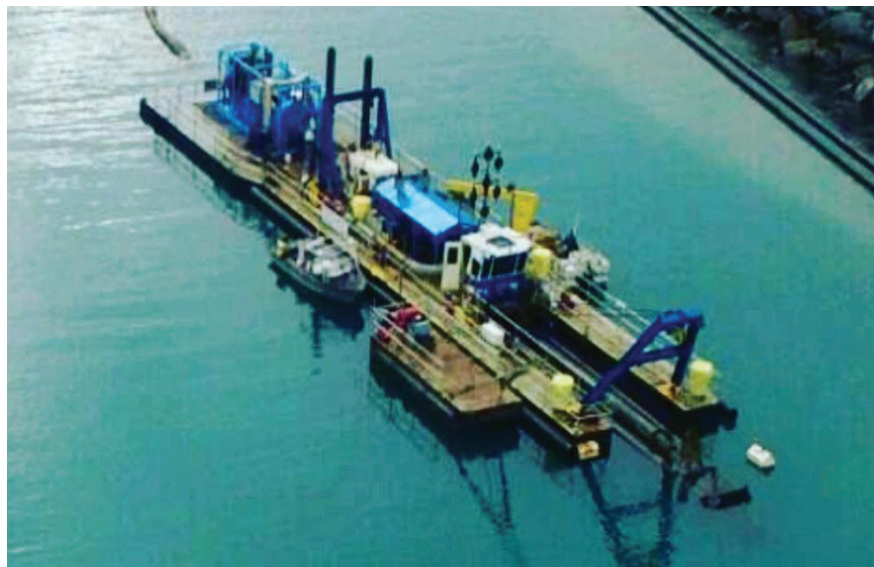






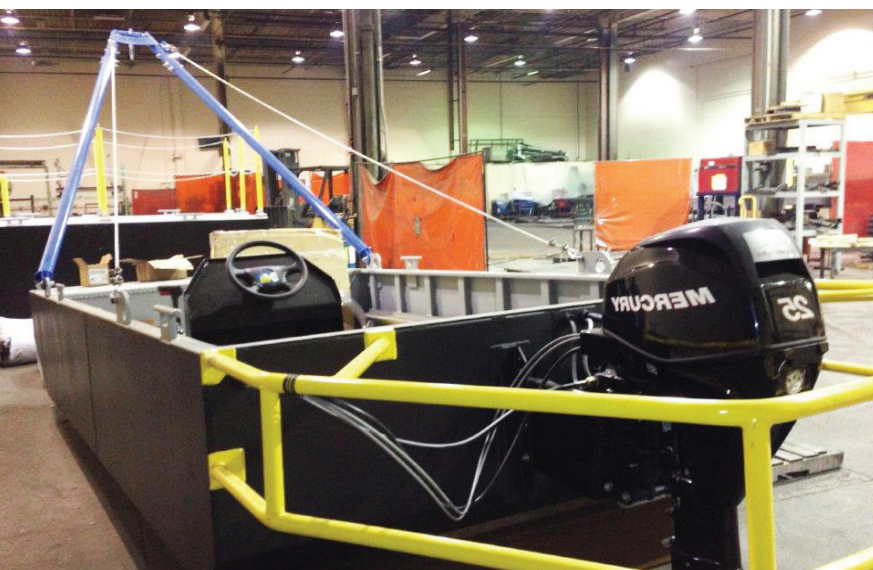












## WELCOME TO OUR FAMILY

We are a relationship company. Visit with our team at our headquarters and manufacturing facility in Topeka, Kansas.

Our team is comprised of a collection of world class dredge experts...engineers, skilled craftsmen, equipment specialists, and executives working together synergistically under one roof.

We believe you will be impressed by the size, quality and scope of our operation.

Every one of our customers and employees becomes a member of our Family.

You'll see first-hand why industry-leading quality and proactive customer service are core values.

Once you experience our capable family, we hope you'll join us.



There Is Genius In Simplicity





#### CUTTER SUCTION DREDGES

- Diesel, Electric, or Natural Gas
- Cutterhead, CutterChain, or WaterJet
- Ladder Length Up To 160'
- Pump Size Up To 20"



#### BOOSTER PUMP STATIONS

- High Quality and Sturdy
- Sizes up to 24" Discharge
- Telemetry & Operating System
- 12-Month Warranty



#### DEWATERING BUCKET WHEELS

- High Quality Proven Design
- 300 to 1200 Tons Per Hour
- Advanced Operating System



#### REMODELS, REPAIRS & PARTS

- Five Field Service Trucks
- Fast Delivery of Parts & Components
- Power Conversions
- Ladder Repairs
- Upgrades To Any Make/Model dredge



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