Quality Dredging Systems for Environmental Solutions

EDT Service
At Ellicott Dredge Technologies, we distinguish ourselves from other companies by going that extra mile to assist and serve our valued customers. We maintain a knowledgeable and experienced staff of field service technicians which are supported by both our in house engineering group and field management. We understand that should you experience a breakdown, time is of the utmost importance.

EDT’s Customer Service team excels at finding solutions to get you back up and running as quickly as possible. At Ellicott Dredge Technologies, customer relationships last a lifetime.

FEATURES

Radio Remote Sense™
EDT has designed the Mud Cat product line to allow for remote control of the dredging operation via a portable, hand held transmitter called Radio Remote Sense (RRS). RRS controls the following functions: power on/off, travel direction and speed, slurry pump on/off and speed (if equipped with VFD), auger on/off and dredging depth. The hand held transmitter may be operated to a distance of 1,200 feet from the dredging unit. Current operating functions of the system will be indicated via a dredge-resized five color light tree.

Bottom Sense™
Use EDT’s Bottom Sense system is designed to protect a pond’s subsurface or liner from damage. This feature allows the dredge to automatically raise the auger when the bottom is contacted and lower the auger when the bottom is not present thereby maximizing production rates while preserving the subsurface integrity by following the bottom contours of the pond.

Auto Sense™
Auto Sense incorporates metal plates that act as stops at the beginning and end of the traverse cable to set distance limits along the dredging area. With Auto Sense enabled, when the dredge contacts the forward cable stop, it will reverse direction until it contacts the rear cable stop at which time the dredge will be placed in that mode.

Automated Remote Control Dredging
Add as many options as you like and EDT will integrate them into a fully automated remote controlled dredging system. This is achieved through the addition of a shore mounted control station. This, NEMA 4X, control panel allows the user to operate all onboard functions of the dredge while receiving continuous feedback from the unit’s sensors and instrumentation. The shore panel features wireless communication to the on board PLC which eliminates the problems associated with hard wired systems. EDT can customize the shore panel control station to your specific project requirements.

Solids Sense™
If your downstream operation needs a consistent slurry density for maximum productivity, EDT’s Solids Sense is your answer. Adding EDT’s Solids Sense to your dredging process will allow the system to automatically adjust the dredging functions to maintain a constant delivery of desired solids density. Solids Sense utilizes a density meter to monitor the slurry and react to composition changes faster than an operator, thereby increasing system efficiency and maintaining the desired slurry characteristic.

Flow Sense™
Much like Solids Sense, Flow Sense will automatically adjust dredge functions to maintain a steady slurry flow rate. The desired flow rate is operator adjusted and is monitored by an onboard flow meter thereby ensuring the proper flow is maintained.

Lateral Sense™
When your project requires automated lateral movement, Lateral Sense is the perfect complement to Auto Sense. In combination with a rail and cable system this feature allows for the automatic lateral shifting of the dredge after each linear pass. The utilization of Auto and Lateral Sense allows the dredge to harvest an entire sediment pond automatically without requiring an operator’s assistance.

OUR SERVICES

Additional Services:
• On-site training
• After-sales support
• Custom designs available
• Rental program
Electric Dredges
EDT designs the Mud Cat™ E Series Remote Control Electric Dredge (MODELS - MC-20E, MC40E, MC 50E) with quality components for reliable and dependable operation. These systems are built with structural steel for long term durability under demanding conditions. These dredges excel in the removal of sediments from ponds, settling lagoons and other similar applications.

Diesel Dredges
EDT's Mud Cat Diesel Series Dredges allow for customer specified engine manufacturers to power our heavy duty hydraulic systems. These systems utilize state of art electronic controls to operate submersible hydro-solids pumps with 6” solids handling capacity. Our flotation systems are comprised of baffled 10 gauge steel pontoons optionally filled with two pound density foam and matched with a heavy duty structural steel frame. The pontoons are then coated with marine grade epoxy paint. A comfortable climate controlled operator cab includes ergonomically pleasing instrumentation controls.

Multi-Function Dredge
EDT specializes in the design and manufacturing of a high quality, one-truck transportable multi-function dredge known as the Mud Cat MFD-1000. Features include a 275 HP diesel engine on a single-piece hull with seven watertight sealed compartments. The comfortable heated and air conditioned operator cab includes easy-to-use joysticks for dredge control. Accessories include Cutter Suction Basket, 1 Cu. Yd Bucket, Clamshell Bucket, Weed Rake, Pole Setter and Pile Driver.

Amphibious Dredge
EDT manufactures a high quality one-truck transportable amphibious dredge named the Mud Cat Traxx. This lightweight self propelled dredge features a unique drive and drive off trailer capability. This feature provides the owner with the opportunity to work in areas that are inaccessible to other conventional dredges due to the Mud Cat Traxx’s ability to enter and exit the dredging area without the need of a crane.

ROV Dredge
The Mud Cat ROV remotely operated submersible crawler dredge is designed to remove solids, sediment, and sludge from hard to reach areas such as pipelines, tanks and covered lagoons. Our ROV’s are built with corrosion resistant components for reliable, dependable, long-term use.

Trash Skimmers & Work Boats
EDT manufactures UMI Marine Trash Skimmers which are used around the world to remove floating trash and debris from protected inland and coastal ports and waterways. EDT also manufactures the UMI Versatile Work Boat which can be utilized to support the maintenance activities of Marinas, Harbors and Inland Waterways.