WE BUILD DREDGERS.
AT THE LOWEST COST FOR YOU AND THE ENVIRONMENT
From headquarters in The Netherlands and office in The United Arab Emirates, Dredge Yard designs, engineers, builds and supplies easy to operate dredging machines. Dredge Yard focuses on smart engineering to achieve optimized dredgers that are efficient and safe for people and the environment. Latest technologies in design, simulation and manufacturing are used to continuously develop optimal dredging equipment. Dredge Yard specializes in one truck transportable Cutter Suction dredgers and one container transportable Auger dredgers. Dredge Yard provides advice on dredging equipment and customization quickly and free of charge.

VISION
We strive for optimized dredging that is efficient and safe for people and nature. Therefore, we focus on manufacturing reliable, durable and highly efficient dredgers at the lowest cost for the client and the environment.

MISSION
We use latest technologies in design, simulation and manufacturing to constantly develop our standard dredging equipment. In this way, we make sure that it is as efficient, cost-effective and environmentally friendly as possible.
Auger Dredger ECO 200 (8 inch) is a compact, one container transportable dredger. The dredger is easy to launch, operate, remove from water and store for later use. It is an environmentally friendly tool, which causes minimal to no turbidity, and is ideal for small, reoccurring cleaning and maintenance dredging projects.

**BENEFITS**

**CONVERTIBLE DESIGN**

Auger dredger ECO 200 features a convertible design. The dredger’s side pontoons can fold upwards, which makes it compact enough to fit in a single, 40 feet container. Therefore, it is easy and cheap to transport, mobilize, launch on project site and store for later use. It is very practical for reoccurring maintenance projects.

**CATERPILLAR ENGINE**

The dredger includes a Caterpillar engine C7, which is a compact, lightweight engine, allowing for small Auger ECO 200 dredger design. Additionally, while the engine is powerful, it has low CO₂ emissions. This contributes to environmentally friendly ECO 200 design. Finally, Caterpillar spares are readily available worldwide.
**REPLACABLE KNIVES**

Auger dredger ECO 200 can be used to dredge compact materials, which must be loosened before being sucked up by the dredge pump. In this case, the auger head can be supplied with cutting knives. The knives are bolted to the auger head and can be easily replaced when worn out. No hammering is required, for quick and safe replacement.

**ONE CONTAINER TRANSPORTABLE**

Auger ECO 200 is a compact and practical dredger that can be transported in one standard, high cube (40 feet) container, completely assembled. Container transport is the most cost effective mode of transport and is always available. Additionally, it allows to transport the dredger to hardly accessible locations.

**MAIN FEATURES**

**CONTROL CABIN**
- Easy dredger controls
- Closed, one-man cabin
- Equipped with all necessities for operator’s safety & comfort in all weather conditions

**CATERPILLAR ENGINE**
- Highly durable, industry standard engine
- Spares available worldwide
- 165KW total power installed

**SUBMERSIBLE DREDGE PUMP**
- High pumping flow of high density mixture
- High production rates
- Wear resistant materials

**AUGER HEAD**
- Minimal turbidity
- Dredging depth of 6-8m
- Wear resistant materials

**FOLDABLE PONTOONS**
- Unique, foldable pontoon design
- Allows to transport assembled dredger in one, standard container
- Easy transport, launch & storage of dredger
**AUGER DREDGERS**

Auger Dredger ECO 200 (8 inch) is a compact, one container transportable dredger. It is a simple, easy to operate dredger, but can be customized with a variety of options to meet the client’s needs. Additionally, Dredge Yard offers services such as training and spare part supply alongside dredger purchase. To get more information on the possible customizations, please contact the Dredge Yard team.

**OPTIONS**

**PROPULSION**

Auger dredger ECO 200 can be supplied with a hydraulic thruster in the back of the pontoons. This makes the dredger self-propelled, resulting in easier maneuverability around the dredging area.

**AUTOMATION & CONTROL**

Automation systems can optimize dredging process. Several types of dredging automation and controls can be provided on the Auger ECO 200 depending on client’s preferences and project requirements.
TRANSPORT

ONE STANDARD CONTAINER
Auger dredger ECO 200 can be transported in one standard 40 feet container completely assembled. Container transport is the most cost effective mode of transport and is always readily available worldwide.

Container transport also allows to transport the dredger to hardly accessible locations anywhere in the world. Since the dredger is transported assembled, no assembly crew is needed. The dredger is launched into the water using a single crane.

EXTRAS

TRAINING
Dredge Yard can provide crew training on location or at Dredge Yard facilities in Netherlands or UAE. The expert team can also supervise assembly, disassembly, commissioning and mobilization of the auger dredger.

DISCHARGE PIPELINE
An HDPE discharge pipeline can be provided with several types of floaters and rubber hoses.

SPARE PARTS
Spare part packages and maintenance guide can be supplied for several years after purchase. The spare parts can be supplied both - at initial purchase of the auger dredger, or after it has been in operation. Dredge Yard will strive to keep the necessary spare parts in stock to serve its customers when needed.

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DIMENSIONS
Length overall incl. ladder: 11.8 m
Length over pontoons: 9 m
Breadth: 3.2 m
Height of pontoon: 1 m
Design draught: 0.60 m

DREDGING PARAMETERS
Max. dredging depth (45°): 8 m
Suction pipe diameter: 200 mm
Discharge pipe diameter: 200 mm

INSTALLED POWER
Engine: Caterpillar C7
Total installed: 168 kW / 225 hp

WINCHES
Pull winches: 1 unit
Wire pull: 20 kN
Hauling speed: 0-20 m/min
Ladder winch: 1 unit
Wire pull: 20 kN

AUGER ECO 200
Auger head: Dredge Yard multi-purpose
Power: 15 kW
Speed: 0-60 rpm
Dredge pump: DY p6/8
Wear material: GS32 / high wear resistant
Discharge distance in meters
ECO Cutter Suction Dredgers are compact, one truck transportable and self-propelled for easy mobilization and operation. They feature a pontoon shape for shallow draft and exchangeable cutter teeth to fit a variety of materials. Therefore, these dredgers can efficiently operate in many different environments.

**BENEFITS**

**HIGH EFFICIENCY & PRODUCTION**
Dredge pump is located under the waterline to achieve a higher mixture density, as well as a much higher flow capacity. Dredge pump placement underwater ensures that it will not reach the pump vacuum limit for the production, especially at depths of 6m or more. The submersible pump is mounted on a heavy duty bearing assembly and is driven by a hydraulic motor.

**REPLACEABLE CUTTER TEETH**
Dredge Yard’s cutter suction dredgers are designed with replaceable cutter teeth. The teeth are fixed to the cutter head through a bolt connection. Therefore, they can be easily interchanged between three different types, namely sharp point, narrow edge, wide edge. Cutter teeth can be replaced depending on the material to be dredged, or replaced when worn out.

**SELF-PROPELLED**
Two hydraulic thrusters are mounted on the back of the dredger and can be controlled from the cabin. This allows the dredger to move around the dredging area without any involvement of support boats. The dredger is operated from the control cabin by a single person, with a complete overview of the process. This ensures cheaper and more efficient dredger operation.

**MAXIMUM PRODUCTION**
Dredge pump speed can be controlled. This allows dredging operator to choose the right pressure for the suction depth and length of the discharge pipeline. By varying the speed, the total fuel consumption is decreased, while the dredge pump and dredge pipes will wear out less. This makes dredging operations more efficient.
EASY TRANSPORT
The dredger has two tilting spud systems for easy dredge mobilization, transport in the water and on land, as well as compact storage. Both spuds can be manually tilted and secured to the deck.

EQUIPPED CONTROL CABIN
The control cabin is equipped with everything needed for operator’s comfort and safety. Some of the features include noise reduction, ventilation, screen wipers, lighting and two side mirrors for a good overview of all operations. Additionally, the cabin is also placed on vibration damping system to reduce vibrations.

SHALLOW DRAFT
ECO Cutter Suction Dredgers are designed with three pontoons - one central and one on each side. The pontoons provide sufficient floating capacity, which allows the dredger to operate in shallow waters.

QUALITY CONTROL
The dredgers are built of highest quality components. All dredgers include world-renowned Caterpillar engines, which are robust, powerful and compact. Meanwhile, the manufactured parts, such as the hull and steel components, are designed, engineered, inspected and tested by our highly experienced team.

TRANSPORT
CONTAINERS
ECO Cutter Suction dredgers can be disassembled and transported in four standard, 40 feet containers. Upon arrival on site, the dredger can be easily assembled. Due to simple, bolted design, assembly doesn’t require any specialized tools or a trained team. However, if needed, we can offer support with the assembly and commissioning of the dredger on site.

TRUCK
The dredgers are designed with narrow pontoon width. The compact design allows the ECO Cutter Suction Dredgers to be transported by road, on a flatbed truck, completely assembled. In this case, the dredger can be easily launched into the water using one single crane.
MAIN FEATURES

CONTROL CABIN
- Easy dredger controls
- Closed, one-man cabin
- Clear overview of entire dredging operation
- Equipped with all necessities for operator’s safety & comfort in all weather conditions

SUBMERSIBLE DREDGE PUMP
- High pumping flow of high density mixture
- High production rates
- Wear resistant materials

CUTTER HEAD
- Interchangeable cutter teeth
- Dredging depth of 6-8m
- Wear resistant materials

CATERPILLAR ENGINE
- Highly durable, industry standard engine
- Spares available worldwide
- Lightweight, low emissions
OPTIONS

AUTOMATION AND CONTROL
For performance improvement and easy control, Dredge Yard provides dredgers with automation control. Various types and levels of automation control can be supplied.

DREDGING DEPTH EXTENSION
Dredging depth of the dredger can be extended to 12 meters through an additional adapter placed in between the dredge pump and the cutter head system.

EXTRAS

DISCHARGE PIPELINE
An HDPE discharge pipeline can be provided with several types of floaters and rubber hoses.

TRAINING
Dredge Yard can provide crew training on location or at Dredge Yard facilities in Netherlands or UAE. Our expert team can also supervise assembly, disassembly, commissioning and mobilization of the cutter dredger.

SPARE PARTS
Spare part packages and maintenance guide can be supplied for several years after purchase. Dredge Yard will strive to keep the necessary spare parts in stock to serve its customers when needed.
# CUTTER ECO 250

## DIMENSIONS
- Length overall incl. ladder: 16.4 m
- Length over pontoons: 11.5 m
- Breadth: 4 m
- Height of pontoon: 1.25 m
- Design draught: 0.75 m

## DREDGING PARAMETERS
- Max. dredging depth (45°): 6 - 8 m
- Suction pipe diameter: 250 mm
- Discharge pipe diameter: 250 mm

## INSTALLED POWER
- Engine: Caterpillar C11
- Total installed: 261 kW / 350 hp

## WINCHES
- Swing winches: 2 units
- Wire pull: 30 kN
- Hauling speed: 0 - 20 m/min
- Ladder winch: 1 unit
- Wire pull: 30 kN

## DREDGING EQUIPMENT
- Cutter: Dredge Yard multi-purpose
- Cutter head power: 30 kW
- Speed: 0-35 rpm
- Dredge pump: Dredge Yard 250
- Wear material: GS32 / high wear resistant

## SPUD SYSTEM
- Spud length: 7.9 / 9.9 m
- Spud diameter: 273 mm
- Spud leg lifting: 1.9 m
ECO 250 PRODUCTION IN WATER

Discharge distance in meters

Water output (m³/h)

ECO 250 PRODUCTION IN-SITU

Discharge distance in meters

In-situ output (m³/h)

NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
2. REMOVE SHARP EDGES.
3. AVOID WELDING SPATTERS, REMOVE IF ANY.
CUTTER ECO 300

DIMENSIONS
Length overall incl. ladder: 16.4 m
Length over pontoons: 11.5 m
Breadth: 4 m
Height of pontoon: 1.25 m
Design draught: 0.78 m

DREDGING PARAMETERS
Max. dredging depth (45°): 6 - 8 m
Suction pipe diameter: 300 mm
Discharge pipe diameter: 300 mm

INSTALLED POWER
Engine: Caterpillar C13
Total installed: 310 kW / 415 hp

WINCHES
Swing winches: 2 units
Wire pull: 30 kN
Hauling speed: 0 - 20 m/min
Ladder winch: 1 unit
Wire pull: 30 kN

DREDGING EQUIPMENT
Cutter: Dredge Yard multi-purpose
Cutting head power: 35 kW
Speed: 0-35 rpm
Dredge pump: Dredge Yard 300
Wear material: GS32 / high wear resistant

SPUD SYSTEM
Spud length: 7.9 / 9.9 m
Spud diameter: 273 mm
Spud leg lifting: 1.9 m
RIVER, CANAL, CHANNEL & HARBOUR
It is important to maintain harbours and keep the waterways open for inland transport & navigation. Dredging is also vital for flood prevention projects.

SETTLING POND
Our ECO dredging equipment is especially designed to clean, desilt and desludge a wide range of industrial settling ponds, holding ponds and lagoons.

RESERVOIR, LAKE & DAM
Reservoirs, lakes and dam dredging should be done regularly, to restore them to their full capacities. Our ECO Dredgers are perfect for these kind of jobs.

WATER INTAKE
Proper and regular maintenance is needed to keep basins clean and the capacity at it’s maximum. Therefore we offer equipment for water intake cleaning & dredging.

MINE TAILING
Our ECO Dredgers are very suitable for mine tailing removal to clean up ponds or dredge ponds to subsequently further process the tailings for leftover valuables.

ENVIRONMENTAL DREDGING
Environmental dredging is to dredge with minimum impact on the environment. The ECO Dredger with auger excavating tools avoids dispersion of pollutants.