

Specifications of the Damen Cutter Suction Dredger for Efficient Dredging Operations

The Damen Cutter Suction Dredger is a specialized vessel used for dredging operations to remove sediment from waterways, harbors, and other bodies of water. This type of dredger uses a cutter head to break up the material on the bottom of the waterway, which is then sucked up by a powerful pump and transported through a pipeline to a discharge point, where it is deposited.

The specifications of the Damen Cutter Suction Dredger you provided are as follows:

- Suction: 16 inches
- Discharge: 14 inches
- Main engine: Cummins NTA 855, 280 kW @1800 rpm
- Reduction gearbox from the pump: Reintjes Laf 260
- Dredge pump: 14/12 GG
- Generator: Petter P600-2
- Main generator/hydraulic: Cummins NTA 855M, 287 kW @1800 rpm
- Jet-pump: Scania DS11, 220 kW
- Pump: BBA CL 200/400
- Cabin equipment: Production meter/flow meter/AC Dredging navigation/Sailer rt 2048 radio
- Spud carrier hydraulic driven
- Two hydraulic side winches (old type build)
- Cutter: 130 kW
- Spare cutter
- Total fuel tank capacity: 2 x 7893 liters in side pontoons, 1 x 1046 liters day tank.

The Damen Cutter Suction Dredger is designed to work in a variety of water depths, and the 16-inch suction and 14-inch discharge capabilities make it suitable for a wide range of dredging applications. The main engine, Cummins NTA 855, provides the power to drive the dredging pump and the hydraulic system, which powers the cutter head and other equipment on board. The reduction gearbox from the pump, made by Reintjes, helps to optimize the performance of the dredging pump and ensure efficient operation.

The dredging pump, 14/12 GG, is a powerful piece of equipment that can handle a wide variety of materials, including sand, silt, and mud. The jet-pump, made by Scania, provides additional thrust to help move the dredged material through the pipeline.

The cabin equipment includes production and flow meters to help the crew monitor the dredging operation, as well as navigation and communication equipment to ensure the safety of the vessel and crew. The spud carrier is hydraulic driven, and the two hydraulic side winches make it easy to position and anchor the vessel during dredging operations.

Cutter Suction Dredger Damen 16 inch

Overall, the Damen Cutter Suction Dredger is a highly specialized vessel designed to handle the unique challenges of dredging operations, and the specifications of this particular vessel demonstrate its capability and efficiency.