



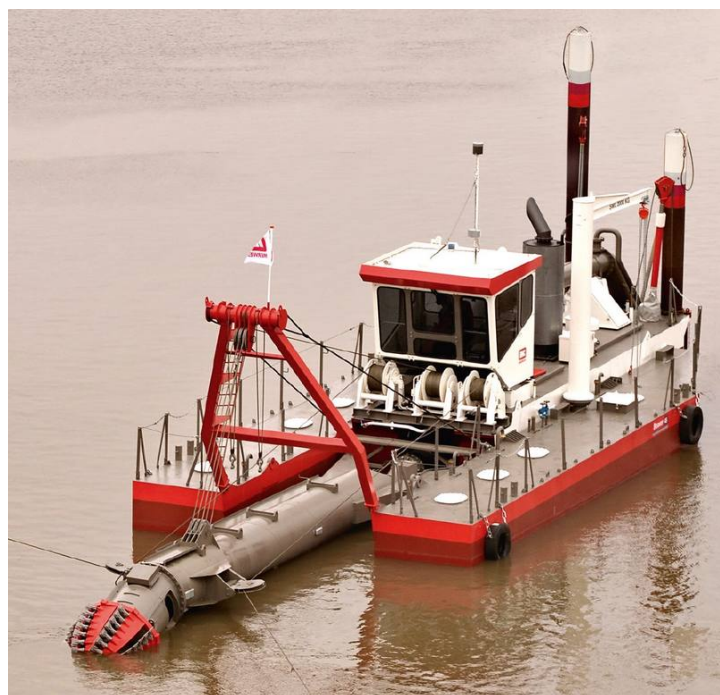
SEABOATS

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NEW 16.5m Cutter Suction Dredger



Listing ID - 3330

Description 16.5m Cutter Suction Dredger

Date 2020

Launched

Length 16.50m (54ft)

Beam 6.81m (22ft 4in)

Location Caspian Sea

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Price EUR 2 million

The IHC Beaver® 45 is reliable, fuel efficient and has low maintenance costs. This robust and highly productive dredger is equipped with state-of-the art technology, including the following key features:

- low cost per cubic metre
- an exceptional rate of pumping power
- first class ergonomics and diagnostics
- Cutter Special® pump that combines high efficiency and a large ball passage to provide a high level of availability
- low maintenance and efficient power distribution with a single diesel engine
- environmentally friendly solutions, such as LED lighting
- enhanced safety features.

Reliable and efficient

The IHC Beaver® is well known for its robust construction, reliable operation and excellent performance. To date, Royal IHC (IHC) has supplied more than 800 of these standard cutter suction dredgers worldwide.

Transportable and deliverable from stock

IHC Beaver® dredgers can be dismantled for transport via road, rail or sea. A wide range of optional equipment is available, as well as complementary auxiliary equipment, such as work boats and discharge pipelines. These vessels are mostly delivered from stock.

Service and support

IHC can provide a complete package of spare parts, maintenance support, equipment training programmes, dredging advisory services and dredge operators for hands-on instruction and commissioning.

Dimensions

Length overall (ladder raised), approx. 26.1m

Length over pontoons 16.50m

Breadth 6.81m

Depth 2.01m

Side pontoons 11.75 x 1.89 x 1.97m

Mean draught with full bunkers 1.40m

Maximum standard dredging depth 10.0m

Suction pipe diameter 450mm

Discharge pipe diameter 450mm

Total installed power 746kW

Swing width with 35° swing each side

At maximum dredging depth 23.0m

At minimum dredging depth 28.5m

Dredge pump

Type IHC HRCS 108-23-45, single-walled

Engine type Caterpillar C32 TTA Acert

Continuous engine power 746kW @ 1,800rpm

Specific fuel consumption 204.9g/kWh

Ball passage 225mm

Electrical installation

Voltage 24V DC

Battery capacity 400 Ah

Cutter

Type IHC 1330-120, 5-bladed cutter

Power at shaft 110kW

Diameter 1,330mm

Maximum speed, approx. 34rpm

Ladder and swing winches

Line pull, first layer 57kN

Maximum line speed 25m/min

Wire diameter 18mm

Drum diameter 390mm

Swing wires length 100m

Anchor weight 360kg

Spuds

Length 13.85m

Diameter 457mm

Weight 2,260kg

Spud hoisting cylinders

Force 100kN

Spud stroke (each time), approx. 3.5m

Deck crane

Lifting power 20kN

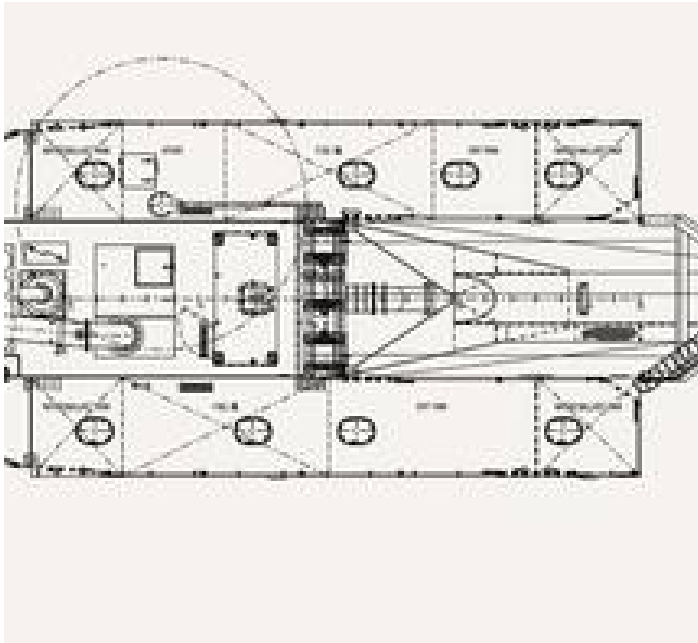
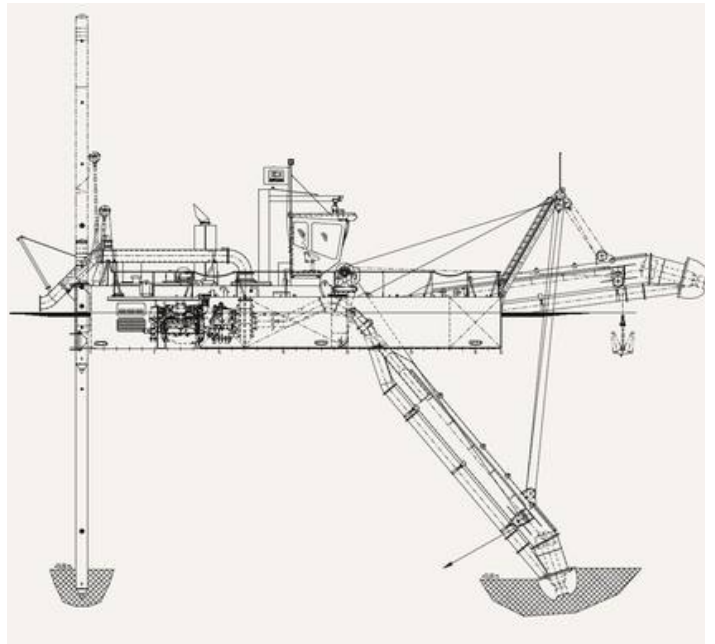
Outreach 2.8m

Other features

- standard design, allowing for short delivery times and competitive pricing
- spare parts available form stock
- durable heavy-duty marine engine compliant with IMO Tier II
- efficient fuel consumption
- fresh-water engine cooling system
- dredge pump driven through integrated bearing block,clutch and reduction gearbox
- white iron-wear parts for the dredge pump
- cutter drive accepts temporary overload, resulting in high maximum cutter power
- reliable hydraulic system
- completely assembled and fully tested afloat before delivery
- dismountable and transportable by road, rail or sea
- ready for operation on arrival at site
- one-man operation
- wide range of services and auxiliary equipment available (including work boats, boosters and pipelines).

Optional extra's

- spud-carriage installation
- anchor booms
- swivel bend
- non-return valve and vacuum-relieve valve
- production measurement, automation and positioning system
- Operator Assist System for online monitoring
- increased discharge pipeline diameter
- increased dredging depth
- life-cycle support packages (including training, technical support etc.)
- optional packages: comfort (including air conditioning); HSE (health, safety and environment); nautical; and inventory plus.



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