



IHC Beaver® 300 SE Cutter suction dredger



The IHC Beaver® 300 SE is an extremely successful tried-and-tested vessel. The dredger is dismantlable and can be easily transported to any location. With its robust design, it is the preferred choice in its class due to low maintenance, excellent fuel consumption and high productivity levels. The key features include:

- efficiency and high performance (net available power on the dredging installation per installed power) due to the pump, gearbox and fresh-water engine cooling system
- transportable in only three containers
- engine mounted in the centre pontoon for protection and low noise levels
- durable heavy-duty marine engine
- safe and robust pump drive.

Reliable and efficient

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

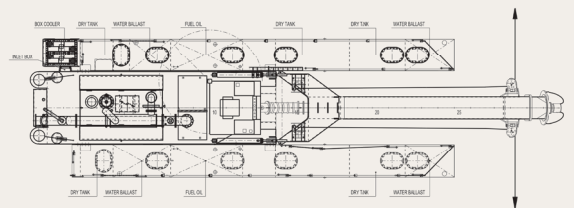
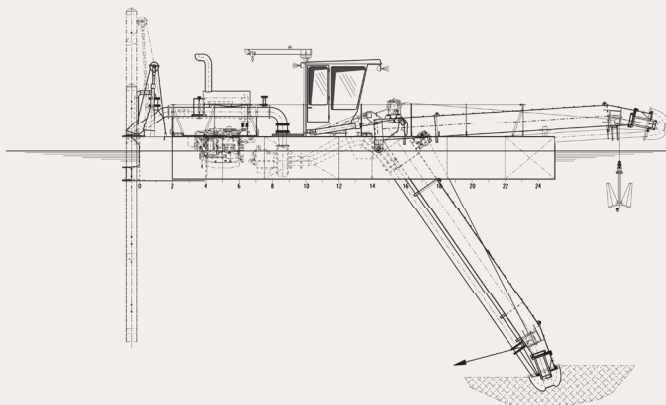
Transportable and deliverable from stock

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.

PU 25B-6



Main parameters

Dredging depth	6m
Discharge diameter	260mm (larger diameters optional)
Total power	287kW

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Dimensions

Length overall (ladder raised)	15.75m
Length over pontoons, approx.	12m
Breadth	4.3m
Depth	1.3m
Main pontoon	7.0 x 2.2 x 1.3m
Mean draught with full bunkers, approx.	0.88m
Maximum standard dredging depth	6m
Internal diameter of suction and discharge pipes	260mm
Suction pipe diameter	260 mm
Discharge pipe diameter	260 mm

Dredge pump

Type	IHC-600-150-240
Maximum power at shaft	267kW (358hp)

Engine installation

Diesel engine	Caterpillar C12 TA Acert
Continuous engine power	287kW@1,800rpm
Specific fuel consumption	206g/kWhr

Electrical installation

Voltage	24V DC
Battery capacity	200Ah

Cutter

Type	IHC 830-50, five-bladed with serrated edges
Power at shaft	30kW (40hp)
Diameter	830mm
Maximum speed, approx.	35rpm

Ladder hoisting ram

Retracting force (at 1.2m/min)	150kN
Extending force (at 0.82m/min)	60kN

Swing winches

Line pull, first layer	25kN
Maximum line speed, approx.	22m/min
Wire diameter	12mm
Drum diameter	322mm
The two swing winches have independent hydraulic drives, 75m wires and 160kg anchors	

Spuds

Length, approx.	8.6m
Diameter	324mm
Weight, approx.	960kg

Spud-hoisting rams

Force	42kN
Ram stroke	1.6m
Spud stroke (each time), approx.	2.5m

Swing width with 35° swing each side

At maximum dredging depth	14.5m
At minimum dredging depth	18.0m

Deck crane

Lifting power	7.5kN
Outreach	1.6m

Tools

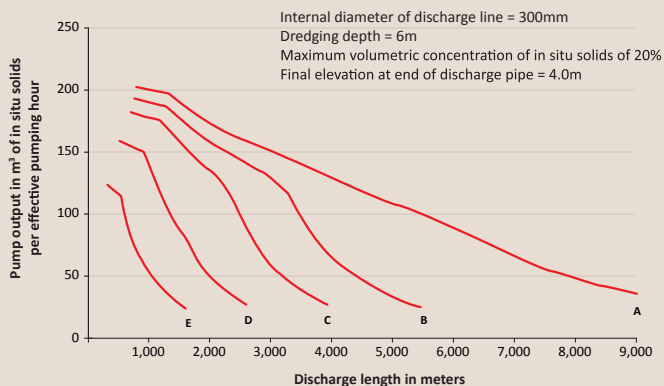
Special tools are supplied for connecting and disconnecting pontoons and the cutter ladder, and for maintenance of the dredge pump and diesel engine.

Other features

- standard design, allowing for short delivery times and competitive pricing
- spare parts available from stock
- fresh-water engine cooling system
- dredge pump driven through integrated bearing block, clutch and reduction gearbox
- 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
- easy and fast assembly and dismantling
- ready for operation on arrival at site
- hydraulic ram for ladder hoisting
- white iron-wear parts for the dredge pump
- one-man operation
- wide range of services and optional equipment available (including work boats, boosters and pipelines).

Optional extra's

- non-return valve
- 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.



Output calculated for:

Soil type	Decisive grain size	Situ density
A Fine sand	100µm	1,900kg/m³
B Medium sand	235µm	1,950kg/m³
C Coarse sand	440µm	2,000kg/m³
D Coarse sand and gravel	1.3mm	2,100kg/m³
E Gravel	7mm	2,200kg/m³

Note

Calculated output curves only indicate pumping capacity, based on the maximum available power on the pump shaft and free-flowing material. In actual practice, properties may vary from free-flowing, easily excavated to compacted, hard-to-excavate material. When used for estimation actual outputs, the nature of the material to be dredged and local job conditions must be considered. Please consult IHC for dredging conditions outside these curves.

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