

# IHC Beaver 1600 C Cutter Suction Dredger

The IHC Beaver is well known for its robust construction, reliable operation and excellent performance. To date, IHC Holland has supplied more than 600 of these standard cutter suction dredgers worldwide.

The current range of standard, demountable cutter suction dredgers consists of basic models, with power outputs ranging from 300 to 1,600 horse power.

The IHC Beaver 1600 is just one type from this range. The hull consists of three pontoons, one main pontoon housing the engine room, and two side pontoons. All parts are dimensioned to allow the IHC Beaver to be transported by road, rail or sea.

The dredger is equipped with a rapid connection-disconnection system for the pontoons, achieved using bolts at deck level, and hooks at the bottom. Further salient features of the vessel are the compact dredge pump drive incorporating a reduction gear with integrated pump bearing and a fresh water engine cooling system, based on the well cooling principle.

Various components are mounted in or on the main pontoon, including the cutter ladder, two swing winches, ladder hoisting winch, control cabin, dredge pump, diesel engines and auxiliary power units, discharge line and the spuds with their actuator rams. The cutter and swing winches, mounted on the ladder, are powered by piston-type hydraulic motors.



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## Features

- Completely assembled and fully tested afloat before delivery
- Simple, rapid assembly and dismantling
- Ready for operation on arrival at site
- Standard design, allowing early delivery and low price
- Spare parts available from stock
- Transportable by road, rail or sea
- Reliable hydraulic system
- Fresh water engine cooling system
- Efficient fuel consumption
- One-man operation
- Wide range of optional equipment available

## Principal particulars

- Length overall, ladder raised	:	33.20 m
- Length over pontoons	:	22.00 m
- Breadth	:	7.95 m
- Depth	:	2.46 m
- Main pontoon: 13.00 x 2.95 x 2.46m		
- Side pontoons: 20.00 x 2.44 x 2.44m		
- Mean draught with full bunkers approx.	:	1.50 m
- Maximum standard dredging depth	:	14.00 m
- Internal diameter of suction tube	:	550 mm
- Internal diameter of suction and discharge pipes	:	500 mm
- Total dry weight approx.	:	145 t

## Dredge pump

- Power at shaft	:	922 kW (1,254 hp)
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## Cutter

- Power at shaft	:	170 kW (230 hp)
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