

IHC Beaver 4510 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 and wheel dredgers, worldwide.

Intensive research combined with the latest technology mean that the New Generation IHC Beaver Dredgers are available to the dredging industry. The improvements in efficiency and savings in fuel consumption are spectacular. The relationship between installed power and type designation in past dredgers is no longer applicable. The installed power in the NG series is significantly lower than with its predecessors, yet equivalent or even higher dredging output is still provided.

The full range of demountable standard dredgers consists of several models of both cutter dredger and wheel dredger. The NG dredgers have a catamaran-shaped hull, with the engine room located at deck level. The dredgers are equipped with a single high-pressure submerged dredge pump, mounted on the ladder. This high efficiency dredge pump is directly driven by the diesel engine, via the IHC Pivoting Gearbox. The prime mover for the dredge pump is a modern computer-controlled diesel engine with low fuel consumption, and low NOx and soot emissions.

This combination results in the lowest possible costs per cubic meter of dredged material, for both cutter and wheel dredgers. The type designation of the NG IHC Beaver series relates to the diameter of the delivery pipeline, the dredging depth and the cutting tool.

This type is designated the NG IHC Beaver 4510 C.

- 45 - diameter of the delivery pipeline is 450mm
- 10 - max. dredging depth is 10 metres
- C - dredger is equipped with a cutter

The dredger can also be supplied as a standard wheel dredger, designated the NG IHC Beaver 4010 W, with a delivery pipeline with a diameter of 400mm.



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Features

- Highly efficient fuel consumption and overall operating costs
- New highly effective cutter/wheel drive system
- Fresh water cooling system
- Hull consists of two side pontoons connected by small coupling pontoons
- Completely assembled and fully tested before delivery
- Very simple and fast assembly, afloat or onshore
- Ready for operation on arrival at site
- Standard design, allowing short delivery times
- Standard spare parts available from stock
- Designed as standard to qualify for Coastal Waters Certificate
- Optional equipment available

Principal particulars

- Length overall, ladder raised : 27.80 m
- Length over pontoons, moulded : 19.50 m
- Breadth, moulded : 8.23 m
- Depth, moulded : 2.44 m
- Side pontoons, moulded: 19.50 x 2.44 x 2.44m
- Mean draught with full bunkers approx. : 1.60 m (standard design)
- Maximum standard dredging depth : 10.00 m
- Internal diameter of suction tube : 450 mm
- Internal diameter of discharge pipes : 450 mm
- Total installed power : 762 kW (1,036 hp)
- Total dry weight approx. : 119 t

Dredge pump

- Power at shaft : 505 kW (687 hp)

Cutter

- Power at shaft : 110 kW (150 hp)