The IHC Beaver® 300 SE is an extremely successful tried-and-tested vessel. The dredger is dismountable 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.

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

The technology innovator.
**IHC Beaver® 300 SE Cutter suction dredger**

### 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 extras**
- 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: **A** fine sand, **B** medium sand, **C** coarse sand, **D** coarse sand and gravel, **E** gravel
- Decisive grain size: 100µm, 235µm, 440µm, 1.3mm, 7mm
- Situ density: 1,900kg/m³, 1,950kg/m³, 2,000kg/m³, 2,100kg/m³, 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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