The IHC Beaver® 40 is equipped with state-of-the-art technology, including the following key features:

- low maintenance and efficient power distribution with a single diesel engine
- a dredge pump with a large ball passage and excellent suction performance
- environmentally friendly solutions, such as LED lighting
- white iron-wear parts for the dredge pump
- first class ergonomics and diagnostics
- safe operation using PLC controls and interlocks
- easy to operate for a single person from the operator’s seat
- control cabin placed on dampers to improve comfort and reduce noise.

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.

Main parameters
- Dredging depth: 8.0m (larger depth optional)
- Discharge diameter: 390mm (larger diameters optional)
- Total power: 483kW

The technology innovator.
IHC Beaver® 40 Cutter suction dredger

Dimensions
Length overall (ladder raised), approx. 20.5m
Length over pontoons 13.41m
Breadth 5.72m
Depth 1.51m
Side pontoons 11.00 x 1.47 x 1.47m
Mean draught with full bunkers 1.10m
Maximum standard dredging depth 8.0m
Suction pipe diameter 390mm
Discharge pipe diameter 390mm
Total installed power 483kW

Swing width with 35° swing each side
At maximum dredging depth 18.0m
At minimum dredging depth 22.5m

Dredge pump
Type IHC 900-175-350, single-walled
Engine type Caterpillar C18 TA Acert
Heavy duty engine power 483kW @ 1,800rpm
Specific fuel consumption 212.9g/kWhr

Electrical installation
Voltage 24V DC
Battery capacity 260Ah

Cutter
Type IHC Lancelot 955-50
Power at shaft 55kW
Diameter 955mm
Maximum speed, approx. 35rpm

Ladder and swing winches
Line pull, first layer 40kN
Maximum line speed 25m/min
Wire diameter 16mm
Swing wires length 100m
Anchor weight 240kg

Spuds
Length 11.0m
Diameter 368mm
Weight 1,369kg

Spud hoisting cylinders
Force 60kN
Spud stroke (each time), approx. 3.1m

Deck crane
Lifting power 15kN
Outreach 2.80m

Other features
- standard design, allowing for short delivery times and competitive pricing
- spare parts available from 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
- cutter drive accepts temporary overload, resulting in high maximum cutter power
- reliable hydraulic system
- completely assembled and fully tested afloat before delivery
- mountable and transportable by road, rail or sea
- ready for operation on arrival at site
- special tools are supplied for connecting and disconnecting pontoons and the cutter ladder, and for maintenance of the dredge pump and diesel engine
- wide range of ancillary 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.

Output calculated for:

<table>
<thead>
<tr>
<th>Soil type</th>
<th>Decisive grain size</th>
<th>Situ density</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Fine sand</td>
<td>100µm</td>
<td>1.900kg/m³</td>
</tr>
<tr>
<td>B Medium sand</td>
<td>235µm</td>
<td>1.950kg/m³</td>
</tr>
<tr>
<td>C Coarse sand</td>
<td>440µm</td>
<td>2,000kg/m³</td>
</tr>
<tr>
<td>D Coarse sand and gravel</td>
<td>1.3mm</td>
<td>2,100kg/m³</td>
</tr>
<tr>
<td>E Gravel</td>
<td>7mm</td>
<td>2,200kg/m³</td>
</tr>
</tbody>
</table>

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.