The Beaver® 30 is equipped with state-of-the-art technology, including the following key features:

- low maintenance and efficient power distribution with a single diesel engine
- an easy execution dredge pump for easy maintenance
- environmentally friendly solutions, such as LED lighting
- white iron-wear parts for the dredge pump
- easy maintenance using relays controls
- easy to operate for a single person from the operator’s seat
- deck crane for pump maintenance
- dismountable and transportable in 40ft containers.

Reliable and efficient
The 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
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
Royal 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

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dredging depth</td>
<td>6.0m</td>
</tr>
<tr>
<td>Discharge diameter</td>
<td>300mm (larger diameters optional)</td>
</tr>
<tr>
<td>Total power</td>
<td>294kW</td>
</tr>
</tbody>
</table>
Dimensions
- Length over pontoons: ± 12m
- Breadth: 4.5m
- Depth: 1.35m
- Average draught (50% consumables): 0.9m (approx.)
- Maximum design draught: 0.96m
- Maximum standard dredging depth: 6.0m
- Suction pipe diameter: 310 mm
- Discharge pipe diameter: 310 mm
- Total installed power: 294kW

Swing width with 35° swing each side
- At maximum dredging depth: 14.5m
- At minimum dredging depth: 18.0m

Dredge pump
- Type: IHC-600-150-240 EasyX
- Engine type: Scania DI13
- Heavy duty power: 294kW @ 1,800rpm
- Specific fuel consumption: 205g/kWh

Electrical installation
- Voltage: 24V DC
- Battery capacity: 100Ah

Cutter
- Type: IHC Edge 830-50
- Power at shaft: 30kW
- Diameter: 830mm
- Maximum speed, approx.: 35rpm

Swing winches
- Line pull, first layer: 25kN
- Maximum line speed: 22m/min
- Wire diameter: 12mm
- Drum diameter: 273mm
- Swing wires length: 75m
- Anchor weight: 160kg

Ladder hoisting ram
- Retracting force: 208 kN

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.