The IHC 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 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

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dredging depth</td>
<td>6.0m (larger depth optional)</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**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length over pontoons</td>
<td>± 12m</td>
</tr>
<tr>
<td>Breadth</td>
<td>4.5m</td>
</tr>
<tr>
<td>Depth</td>
<td>1.35m</td>
</tr>
<tr>
<td>Mean draught with full bunkers</td>
<td>0.9m</td>
</tr>
<tr>
<td>Maximum standard dredging depth</td>
<td>6m</td>
</tr>
<tr>
<td>Suction pipe diameter</td>
<td>± 300 mm</td>
</tr>
<tr>
<td>Discharge pipe diameter</td>
<td>± 300 mm</td>
</tr>
<tr>
<td>Total installed power</td>
<td>294 kW</td>
</tr>
</tbody>
</table>

**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 (compliant with IMO Tier II): Scania DI13
- Engine power: 294kW @ 1,800rpm
- Specific fuel consumption: 205g/kWhr

**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

**SPUDS**

- Length: 8.6m
- Diameter: 324mm
- Weight: 724 kg

**SPUD HOISTING CYLINDERS**

- Force: 33kN
- Spud stroke (each time): 2.5m

**DECK CRANE**

- Lifting power: 7.5kN
- Outreach: 1.6m

**OTHER FEATURES**

- Standard design, allowing for short delivery times and competitive pricing
- Spare parts available from stock
- Fresh-water engine cooling system
- Completely assembled and fully tested afloat before delivery
- Dredge pump driven through integrated bearing block, clutch and reduction gearbox easy and fast assembly and dismantling
- Ready for operation on arrival at site
- Hydraulic ram for ladder hoisting
- 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 services and optional equipment available (including work boats, boosters and pipelines)

**OPTIONAL EXTRA’S**

- Swing Angle Measurement
- Air conditioning
- Generator set
- Increased discharge pipeline diameter
- Increased dredging depth
- Life-cycle support packages (including training, technical support, etc.)
- Optional packages: HSE (Health, Safety and Environment) and Nautical

**PUMP OUTPUT**

Discharge pipe diameter = 300mm
Dredging depth = 6.0m
Maximum volumetric concentration of in situ solids of 20%
Final elevation at end of discharge pipe = 4.0m

**SOIL CHARACTERISTICS**

<table>
<thead>
<tr>
<th>Soil Type</th>
<th>Grain Diameter</th>
<th>Density in kg/m³</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 average 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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