

Overflow systems

Maximum retention of solids



IHC Parts & Services overflow systems are designed to optimise the efficiency of the dredging process by ensuring the maximum retention of solids in the hopper. With the solids component of the dredged slurry sinking to the hopper bottom and the water draining overboard through the overflow, the overflow system must optimally encourage separation of solids and water. This it does by reducing mixture turbulence and giving the solids maximum time to settle. It must naturally also be able to handle the volumes dredged. All designed with the needs of a specific vessel in mind, Parts & Services hopper overflow systems can significantly raise net production.

To suit all needs

The overflow system generally consists of a fixed outer part and a sliding inner part, both tubular. At the top of the moving part is a cone or rectangular shaped weir the purpose of which is to obtain a non-turbulent, uniform flow to encourage settling. The moving part is raised or lowered by means of a hydraulic cylinder attached to the fixed part. If required, a mechanical or electro-mechanical position indicator can be fitted. The travel of the moving part is matched to the desired minimum and maximum overflow levels. The stroke can be enlarged by the use of a telescopic three-part overflow. Overflows are available in diameters from 900 to 2200mm. There is a unit to suit all needs.



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Anti-turbidity

An anti-turbidity valve in the overflow duct controls the water level in and above the overflow. It slows water movement, and prevents the carry-over of air by reducing turbulence in the overflow pipe. It thus avoids the creation of a wide turbid wake. It can be installed on the movable part of the overflow which offers the benefit of low maintenance and easy access without complete unloading, or it can be installed on the fixed part which offers the opportunity to put in a recirculation line. The spread of suspended material in overflow water can be further reduced by reusing this as feed for draghead jet water. A pre-dumping pipe can also be fitted to the overflow support pipe instead of pre-dumping doors.



A special top fixed part for silt
sediments.

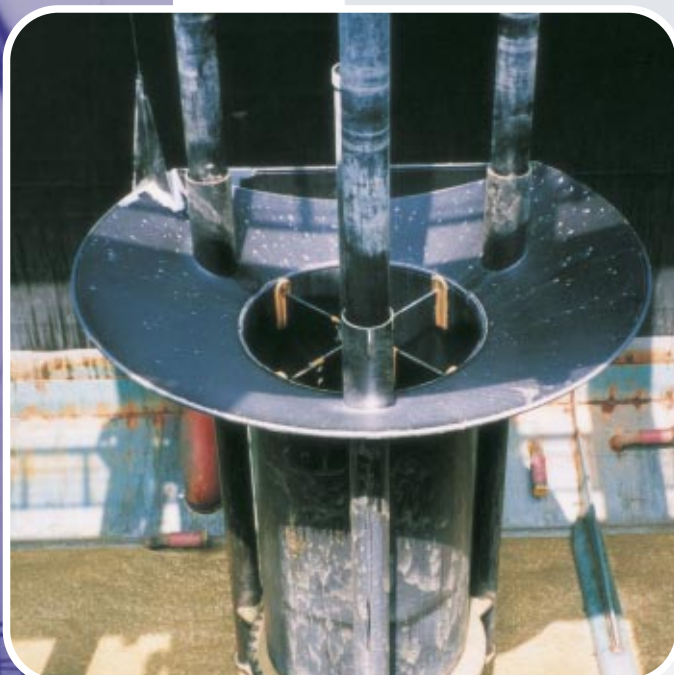


IHC Parts & Services



As all Parts & Services dredger components, overflows have been designed to offer maximum cost-effectiveness at minimum downtime. They are supplied together with the vast reserves of experience and know-how available at Parts & Services.

Turbid water from the overflow unit can be used as feed for draghead water thus reducing total environmental load in the area.



Standard range

| duct diameter | weir diameter |
|---------------|---------------|
| ø 900mm | ø 1250mm |
| ø 1100mm | ø 1750mm |
| ø 1300mm | ø 2350mm |
| ø 1500mm | ø 2750mm |
| ø 1700mm | ø 3250mm |
| ø 1900mm | ø 4000mm |

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*Keeping dredging
hardware profitably at work*