Royal IHC (IHC) has been developing cutterheads for decades based on its practical experience with numerous types of soils and dredging vessels. The company’s modern cutter technology is driven by its fundamental knowledge of excavation, slurry creation and wear resistance, aided by 3D solid modelling and powerful computer analysis. The combination of these factors is the unique basis for offering the best cutterheads in the world.

Features
- complete range
- up to 3,000mm in diameter
- up to 1,100kW of cutting power
- refined tooth and cutting edge design.

Benefits
- variety of cutterheads to meet your requirements
- low cost-per-tonne productivity
- easy maintenance.

The technology innovator.
Since the dredging process starts with excavation and slurry creation, a cutter suction dredger’s performance is mainly defined by its cutterhead.

**Multi-purpose cutterhead**
The multi-purpose cutterhead can be equipped with pick points, or narrow or flared chisels, depending on the soil encountered in the specific area. The CB system is designed for easily changing the teeth after they have worn out, using a simple yet effective locking system. It can be equipped with a 10-CB, 20-CB or 30-CB tooth system, depending on the size of the cutterhead.

**Lancelot®**
The Lancelot® is specially designed for loose sand and is cylindrically shaped with a relatively high number of straight arms. This innovative design results in a cutterhead that is excellent for the creation of slurry and minimal spillage. The Lancelot® distinguishes itself in smoother operations, which result in better energy efficiency and reduced vibrations for the whole dredging vessel.

**Cutterhead with cutting edges**
The smallest dredgers in IHC’s fleet are relatively low power, mostly used for the purpose of maintenance and suffer little wear and tear. IHC Parts & Services offers a low-cost cutterhead with cutting edges for these vessels. In case of wear, new weld-on serrated or plain edges can be purchased to extend their lifetime, but these will only be required occasionally.

**Light-duty rock cutterhead**
For the larger standard vessels in our fleet, we offer the Light Duty Rock cutter head. This cutter is specially designed for impact and hence executed as a robust version with high wear resistance. As the multi-purpose cutter head and Lancelot®, this cutter head is also equipped with the CB tooth system, providing easy exchange of teeth.

**Custom-built**
In addition to the standard series of cutterheads, IHC Parts & Services can also provide special-purpose cutterheads that fit your specific needs for every cutter-dredging challenge.

More details on cutterheads are available in IHC Parts & Services’ cutter excavation equipment booklet.

**CB tooth system**
The CB tooth system is mainly used on multi-purpose, Lancelot® and light-duty rock cutterheads, but it is also fitted on dragheads and dredging wheels.

The CB teeth and adaptors are available in several different types and sizes. Their shape, material and fixation system – combined with their strength and reliability – make a major contribution to improving productivity.

Different soil types demand different forms of penetration. Specific teeth are available for each soil type and all of the following fit the same adaptor:
- flared chisels are used for peat, sand and soft clay
- narrow chisels are applied in packed sand and firm clay
- teeth with pick points are used for rock.