IHC Parts & Services has been designing and building dredging equipment for more than a century. It was the first to convert the dredging wheel into a highly efficient tool for dredging a wide range of materials.

**Thoroughly tested**

Excellent cutting properties, a constant dredging output in both directions of swing, and the almost complete absence of blockage ensure high production. Optimum mixture density, low spillage and low sensitivity to debris such as rocks and tree stumps significantly contribute to efficiency. The dredging wheel may be seen as the most thoroughly tested and developed tool of its type, and the best for meeting the growing demands of the dredging and alluvial mining industries. It is capable of achieving a mixture concentration of 70 per cent.

**Features**

- upward and downward cutting models available
- accurate selective dredging at flat bottom profile
- constant feed rate to mining treatment plants
- built-in root cutter.

**Benefits**

- larger debris cannot enter the wheel
- reduced risk of large clay ball formation
- high mixture density
- high production and low spillage
- equal production in both directions of swing
- low operating costs.

The technology innovator.
Cutting edges and replaceable teeth
Dredging wheels can be used for different soil types, from peat and clay to sand and soft rock. The buckets can be fitted with either smooth cutting edges or replaceable teeth of the pick point, chisel point or flared point variety. These replaceable teeth are the same as those used on cutter heads. Standard dredging wheels are available in a power range from 20 to 1,000kW and outputs of up to 10,000 tonnes/h.

Minimal blockages
The dredging wheel essentially consists of a hub and a ring connected by bottomless buckets which excavate the soil. The scraper of the suction mouth penetrates into the bottomless buckets, and guides the mixture flow towards the suction opening, which is in direct contact with the buckets. The scraper completely prevents clogging of the buckets.
As the buckets, suction mouth and scraper are oriented in the same plane, the mixture flow is very smooth.

Designed for purpose
Depending on the power required, the drive mechanism can consist of one single hydraulic motor mounted in a steel housing or can be a gearbox with several hydraulic drives. For special purposes electric drives may also be used. The gearboxes used on the dredging wheels are designed specifically for the purpose since they are required to transfer all loads from the wheel (with bearings on one side only) to the ladder. The gearbox and the bearings are designed for optimal lifetime.
The special sealing arrangement protects the power train from wear and damage caused by the ingress of soil.
Dredging wheels are supplied as complete units, including drive and ladder adapter. They can be used on standard and customised wheel dredgers, or as replacements for cutter or wheel installations on existing dredgers.