

# HYDROMILL

## Disc mill for fine grinding under water

Fine grinding, carried out with hammermills and associated with the **Meura 2001** mash filter, leads to the production of clear wort, with excellent extraction yields and high productivity (14 brews per day and more).

The development of the **HYDROMILL**, a milling process of fine grinding of malt under water, has two specific aims:

- Better quality of the wort through oxygen-free grinding
- Better productivity due to extract yields equal to laboratory yields at 14 brews per day and more.





## MAIN ASSETS

- A better wort quality through oxygen-free grinding under water at mashing-in temperature (drastic reduction of the nonenal potential and other staling flavour components).
- Better productivity due to an extract yield equal to or above the laboratory yield and to productivity rates higher than 14 brews a day.
- All kinds of malts, including roasted malt, can be ground.
- The **HYDROMILL** combines and replaces the need for a hammermill with grist bin and pre-mashing device
- The **HYDROMILL** is explosion-proof as it works under water
- Low maintenance costs.

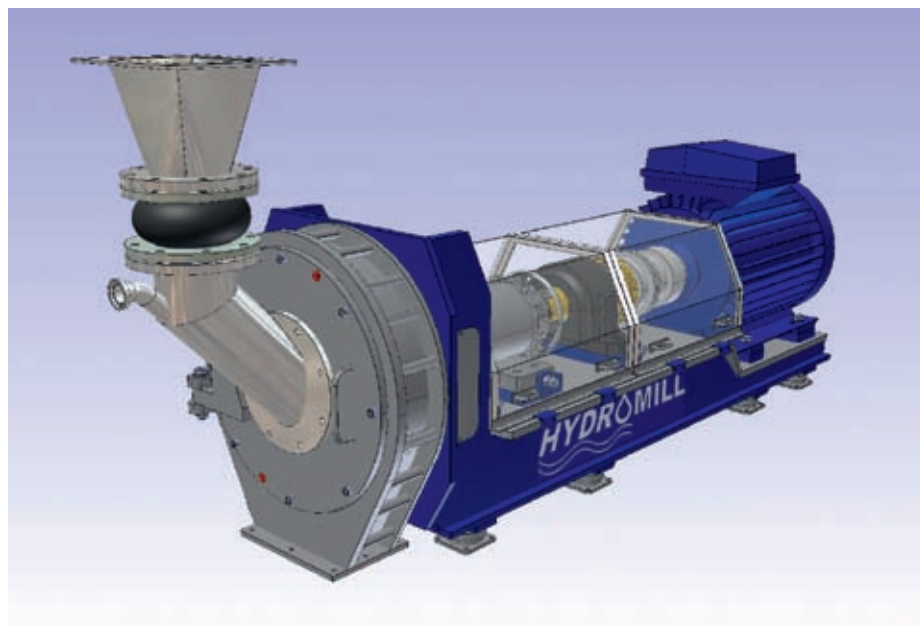
## TECHNICAL DESCRIPTION

The heart of the **HYDROMILL** consists of one fixed disc and one rotating disc turning at a tip speed of about 40 m/s. In the centre of the rotating disc, a pair of fixed hammers ensures the homogeneous distribution of malt. The first milling is performed by a row of knives, then three fine-toothed rings ensure the complete milling.

Malt is fed from a malt silo mounted on load cells. Water is added to the malt before entering into the mill. CO<sub>2</sub> is injected in the mill inlet, increasing the protection against oxidation. After the grinding process, the mash is either dropped down by gravity into the mash conversion vessel (bottom filling) or collected in a buffer tank with level control and then pumped into the mash conversion vessel.

## SOME REFERENCES

- Centralcer, Portugal
- El Ekseur Brewery, Algeria
- Guinness, Ireland
- Laihan Mallas, Finland
- Maltax, Finland
- Malterias Unidas, Chile
- Rodenbach Brewery, Belgium



TRADITIONALLY PIONEERS SINCE 1845

**MEURA**