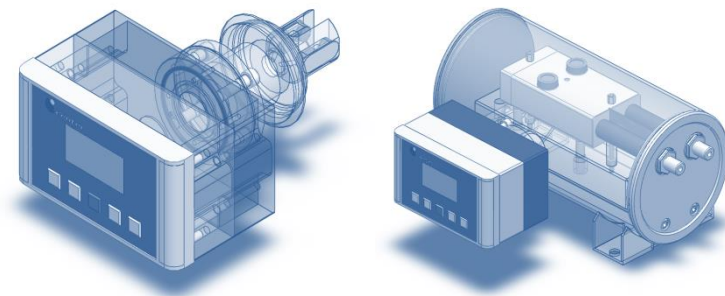


The Centec Group

Centec is a privately owned group of companies. We design and manufacture automated process skids for efficient and reliable production of beers and beer based mixed drinks. Our systems are applied in all steps of the brewing process, e.g. for water purification and deaeration, for wort cooling and aeration, for yeast dosing and management, for blending and carbonation as well as for flash pasteurization. Centec technology includes a range of high precision process sensors for accurately measuring brewery critical product properties such as extract, alcohol, O₂ and CO₂. The largest brewery groups in the world are among our key customers.



Accuracy. Reliability. Centec.

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EASYOMER

Hops Pre-Isomerization

Centec Brewery Systems



Automated
process skids
and high precision
sensors from a
single source.
Centec.

EASYOMER

The Principle

The Centec pre-isomerization system EASYOMER allows an economically optimized use of hops (natural hops, pellets, extract) resulting from a significantly increased yield of bitter substances. This optimized yield of bitter acids is achieved by a very innovative process which isomerizes the hops solution by applying a new, scientifically proven technique. Since the pre-isomerization is separated from the brewing process (wort boiling), this highly efficient processing method complies with the German Purity Law (“Reinheitsgebot”) and has no impact on the aroma profile of the finished beer. By using existing process equipment, CIP systems and dosing pumps for the addition of hop bitters, the investment costs can be reduced to a minimum. Significant raw material savings and low capital costs result in a very short amortization period. With the Centec EASYOMER skid a hops reduction of up to 30 % can be achieved.

Technical Data

Capacity	min. 200 hl cast wort
Type of Hops	natural hops, pellets, extract
Hops Reduction	10 - 30 %
Pressure of Operation	0 - 10 bar
Temperature of CIP	up to 125 °C
Material	1.4301/1.4404 AISI 304/316L
PLC	SIMATIC S7
Options	in-line measurement of O ₂ /CO ₂ /sugar/alcohol/...



The Centec production is certified according to ISO 9001.

- **Application Specific and Energy Efficient**
hops reduction by up to 30 %
applicable for all types of hops
- **Modular Design with Standard PLC**
skid mounted for easy installation and start-up
- **Hygienic Execution and Full CIP Capability**
- **In Compliance with the German Purity Law**
- **Outstanding Price-Performance-Ratio**

Experience. Expertise. Centec.

*Ion Exchange · Reverse Osmosis · Membrane Deaeration · Column Deaeration · Hops Pre-Isomerization
Wort Aeration · Yeast Pitching · Nitrogenation · Carbonation · Carboblending · High Gravity Blending
Multi Component Mixing · Additive Dosing · Flash Pasteurization · Cleaning-in-Place · Dealcoholization*

