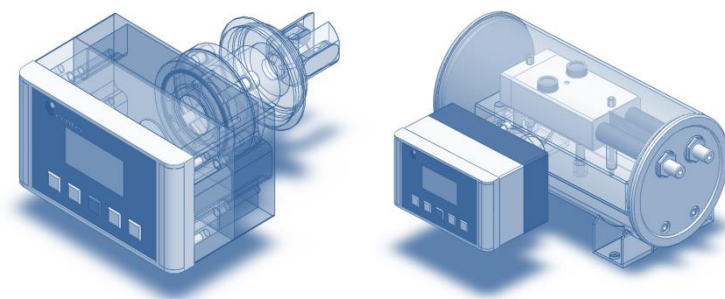


The Centec Group

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.

Germany

Centec GmbH
Wilhelm-Röntgen-Strasse 10
63477 Maintal
Tel.: +49 6181 18 78 0
Fax: +49 6181 18 78 50
info@centec.de

Czech Republic

Centec automatika s.r.o.
Pekařská 8/601
155 00 Praha 5
Tel.: +420 257 084 111
Fax: +420 235 518 701
prodej@centec.cz

USA

Centec LLC
P. O. Box 820
Germantown, WI 53022-0820
Tel.: +1 262 251 8209
Fax: +1 262 251 8376
info@centec-usa.com

UK

Centec UK
Stalworths, The Street
Great Tey, Colchester, Essex, CO6 1JS
Tel.: +44 1206 21 19 21
Fax: +44 1206 21 19 16
info@centec-uk.com

Serbia

Centec Serbia
Bogdana Žerajića 34/III
11000 Beograd
Tel.: + 381 11 358 11 24
Fax: + 381 11 358 11 24
info@centec.rs

India

Centec RRR Systems & Sensors Pvt Ltd
RRR House, Plot 80, Sector 23
Turbhe Naka, Navi Mumbai - 400 705
Tel.: +91 22 2783 3655 & 2783 1348
Fax: +91 22 2783 4814
mail@centecrrr.com

Brazil

Centec América Latina Ltda
Largo de Sao Francisco de Paula nº 26
Centro Cep. 20051 070 Rio de Janeiro
Tel.: +55 21 2223 2066
Fax: +55 21 2223 0324
centeclatina@terra.com.br

Blender

High Gravity Blending

Centec Brewery Systems



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

Blender

The Principle

High gravity blending has become a standard procedure in many modern breweries. It takes place after filtration and allows increased productivity while using the existing brew capacity. Thus, a high degree of flexibility for producing different beers and ciders is achieved. The Centec Blender is applied for the fast and accurate mixing of deaerated water and a high gravity beer or cider. For process control, the extract and alcohol contents are measured with a BEERMONITOR – a special type of COMBITEC sensor developed and manufactured by Centec. The Centec Carboblender combines two functions in one unit, namely mixing and carbonating the original beer. Every skid contains one or more specifically designed Vortex injectors that add CO₂ as fine bubbles into the product stream. The nozzle ensures that the carbon dioxide is perfectly and absolutely homogeneously dissolved in a very short time. At the outlet of the system, Centec's highly reliable CARBOTEC sensor is used to permanently measure the CO₂ content. Based on this accurate in-line measurement, the CO₂ flow is instantly and fully automatically adjusted. Due to the very low pressure drop in the product line, no static mixer is required for the Carboblender skid.

Technical Data

Capacity	10 - 2.000 hl/h
Range of CO ₂	0 - 10 g/l ± 0,05 g/l or 0 - 5 vol.% ± 0,025 vol.%
Range of Original Gravity	0 - 20 °P ± 0,05 °P
Range of Alcohol	0 - 10 vol.% ± 0,03 vol.%
Pressure of Operation	0 - 10 bar
Temperature of Operation	2 - 30 °C
Temperature of CIP	up to 85 °C
Material	1.4301/1.4404 AISI 304/316L
PLC	SIMATIC S7
Options	in-line measurement of O ₂ /CO ₂ /sugar/alcohol/... water deaeration carbonation



The Centec production is certified according to ISO 9001.

- **Application Specific and Energy Efficient**
exceptional accuracy with Centec sensor technology
carboblending with integrated carbonation on demand
specifically designed Vortex-nozzle for CO₂ injection
- **Modular Design with Standard PLC**
skid mounted for easy installation and start-up
- **Hygienic Execution and Full CIP Capability**
- **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*

