

# Brewery

Equipment portfolio

- Innovative process engineering
- Optimized system performance
- Minimize product loss & costs
- Excellence in product quality

Taste the Technology

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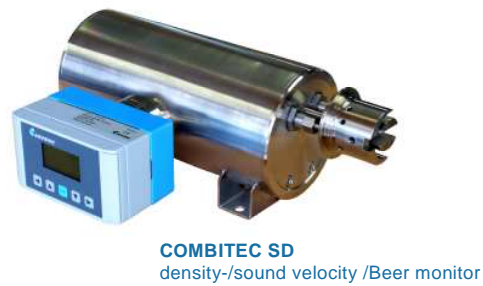
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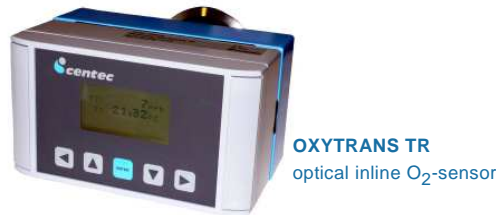




**COMBITEC SD**  
density-/sound velocity /Beer monitor



**CARBOTEC TR-PT**  
inline CO<sub>2</sub>-sensor/monitor



**OXYTRANS TR**  
optical inline O<sub>2</sub>-sensor



**OXYTRANS M**  
optical handheld O<sub>2</sub>-sensor

## The Centec-principle

**Centec** is well-known as a competent manufacturer and international supplier of Process Product Sensors - measuring product density (**Rhotec**) and sound velocity (**Sonatec**) to determine °Plato/extract, °Brix, °Oe and alcohol, real/apparent extract, degree of fermentation (Beer Monitor) and (Plato Monitor). Further sensors include in-line CO<sub>2</sub>-measurement (**Carbotec TR-PT**), in-line & portable optical O<sub>2</sub>-measurement (**Oxytrans TR & M**) and in-line nitrogen measurement (**Nitrotec TC**).

**Centec**, a specialist process system designer and manufacturer has a team of highly skilled engineers and brewery technologists with decades of experience and expertise. Our comprehensive range of systems includes High-Gravity-Blenders and In-line-Carbonators (**CarboBlender**), Membrane-De-Aerators (**DGS**) and Hot/Cold Column-De-Aerators (**DeGaS**), Additions-Dosing-Systems for liquid malt colour, Tetra- or Iso-Hops (**ADoS**), Flash Pasteurizers (**FlashPasto**), Wort Aerators (**WortAerator**) and Yeast Dosing units (**YeastPitch**), as well as Dealcoholization (**Dealcotec**) and complete Premix-Systems for soft drinks and beer-mix drinks (**MultiMixer**).

**Centec** is the only supplier in the world manufacturing state of the art process units together with highly precise process-product measuring instruments - all available from one source. Centec deliver the ultimate in process control and extraordinarily good product quality..

Modern drinks require modern techniques.

Centec...

...Taste the Technology! Flash Pasto - flash pasteurizer



- **Quality** – Highly precise process units and instrumentation from one source; assures the best results
- **Flexibility** – Centec process units are customized to meet the operational process requirements and specific needs of each customer.
- **Functional-orientation** – Optimised designs reduce space requirements and minimise ownership costs.

## • Quality management, Product monitoring

Highly accurate instruments for measuring Extract, °P, %Alc, CO<sub>2</sub>, O<sub>2</sub>, N<sub>2</sub>, Overall evaporation, etc.

## • Water treatment

Reverse osmosis **REVOTEC**, (Trap-) Filtration **InTrap**, Softening/Ion Exchange **IONTEC**, Iron/Manganese removal **Delroniser**, Active carbon filtration **CarboFilter**, **EDI**, **Nanofiltration**

## • Hop pre-isomerization

Economically optimized use of hops (extract) by significant increase of the hop bitter yield **Easyomer**

## • Water de-aeration

Column de-aeration (hot, cold) **DeGaS**, Membrane de-aeration **DGS**, Vacuum de-aeration **VeGaS**, etc.

## • Blending, Mixing and Carbonation

Wort aeration **WortAerator** and yeast dosing **YeastPitch**, High Gravity Blending **Blender** and Carbonization **Carbonator - CarboBlender**, **Nitrogenator**, Venturi gas dosage **Vortex**, Continuous mixing **MultiMixer** with raw materials, aroma, and additives **ADoS**, Beer confection directly in front of the filler

## • Pasteurization

Product heat treatment with Flash pasteurization **FlashPasto**

## • Dealcoholisation systems

Alcohol removal with counter-current distillation and vacuum rectification aroma recovery **Dealcotec**

## • CO<sub>2</sub> - Recovery system

Fully automated, gas purity and recovery control for efficient CO<sub>2</sub> capture **PureConSter**

## • Cleaning and Disinfection

In-place cleaning **CiP**- and sterilization **SiP**-systems