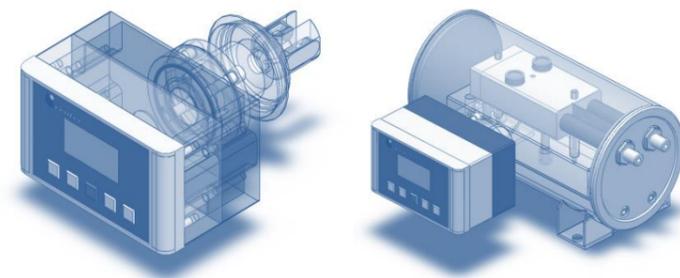


## The Centec Group

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, O<sub>2</sub> and CO<sub>2</sub>. 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  
Rua Mexico 148 conj. 1004 Centro  
20031 142 Rio de Janeiro  
Tel.: +55 21 2223 2066  
centeclatina@terra.com.br

# YeastPitch

## Pitching of Yeast

## Centec Brewery Systems



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

# YeastPitch

## The Principle

The Centec yeast pitching system YeastPitch is used for adding (pitching) yeast into the aerated wort prior to fermentation. First the yeast cells use up all of the oxygen in the wort for growth and reproduction. Then, during fermentation, they convert the sugars in the wort into alcohol, carbon dioxide and flavor components. The yeast pitching unit is a fully automated system that measures and controls the amount of added yeast with extreme precision. The process skid is equipped with accurate flow meters and an intelligent frequency controlled pump. Dose rate control is achieved by using reliable turbidity sensors, or alternatively a live yeast cell monitor. The mass flow of yeast is adjusted, either according to the measured flow rates of wort and yeast, according to the difference of turbidity before and after pitching or according to the live cell concentration measurement. Through a specific mixing nozzle, wort and yeast are blended. The cells are homogenously distributed into the wort by a pump or static mixer. Due to its compact and modular design, the skid can easily be combined with a wort aerating system.

## Technical Data

Capacity	10 - 3.000 hl/h
Range of Yeast Cells	0 - 100 Mio./ml
Temperature of CIP	up to 85 °C
Material	1.4301/1.4404 AISI 304/316L
PLC	SIMATIC S7
Options	in-line O <sub>2</sub> measurement booster pump wort aeration



The Centec production is certified according to ISO 9001.

- **Application Specific and Energy Efficient**  
exceptional accuracy with high precision sensor technology  
specifically designed injection nozzle for yeast pitching  
expandable for automated wort aeration
- **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*

