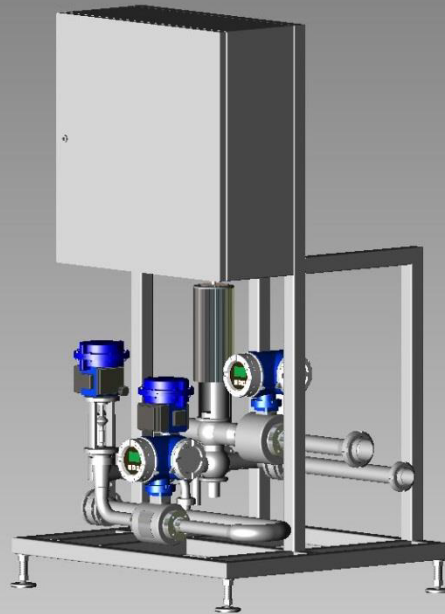


## High Gravity Blending

Blender



### The Principle

High Gravity Blending (HGB) is an innovative process that allows producing different beers (brands) from one or few “mother beers”. Brewery productivity is thereby maximized for a comparatively small brew house capacity and a low number of fermentation tanks. For High Gravity Blending wort with high extract content is produced. During fermentation this leads to a beer with higher original gravity and alcohol content. Later in the brewing process the high gravity beer is blended with deaerated water to reach the desired final original gravity and/or alcohol content. If this is done directly in front of the BBTs or even directly in front of the filler, brewery flexibility is increased significantly. The flows and the content of original gravity and alcohol are permanently monitored and adjusted by high precision ratio controllers. Optionally, the Blender can be equipped with a Vortex-Venturi injector for combined supply of CO<sub>2</sub> into the product. Systems combining HGB and carbonation in one step are offered by Centec as compact CarboBlender skids.

## Typical Technical Data

Capacity	2 - 2.000 hl/h
Dosing Range OG	7 - 20 °P
Dosing Accuracy OG	± 0,05 °P
Dosing Range Alcohol	0 - 10 Vol. %
Dosing Accuracy Alcohol	± 0,03 Vol. %
Material	1.4301/AISI 304; 1.4404/AISI 316L; etc.
Options	in-line measurement (e. g. O <sub>2</sub> , CO <sub>2</sub> , extract, alcohol) water deaeration carbonation/nitrogenation pasteurization buffer tank cooling

## Highlights

High precision in-line sensor technology for process control  
Integrated carbonation on demand (CarboBlender)  
Customized design; different automation levels

## The Centec Group

Centec offer fully automated, skid-mounted process units and high precision measurement technology from a single source. Our systems and sensors are engineered to perfectly meet the most demanding requirements of the brewery, beverage, food and pharmaceutical industries. With a team of experienced engineers, we aim to create quantifiable added value for our customers. We are your partner from planning and design through to commissioning of your plant.



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