

HOW TO INCREASE THE CAPACITY OF YOUR MEURA2001?

MEURA 2001 Hybrid

The Meura2001 is recognised throughout the world as this technology can simultaneously achieve a laboratory yield of 14 brews/day, with a bright wort and while producing a high gravity wort. Today about 25% of global beer volume is processed using **Meura2001** technology! More than 400 industrial brewhouses worldwide are equipped with this impressive technology.

Being a partner for so many brewers, Meura is very familiar with the brewhouse challenges they face. In recent years we have observed the following trends:

- 1** In fast growing markets, there comes a point when **brewhouse capacity** becomes a bottle neck in the production process. Installing a new larger brewhouse takes time and significant investment. A regular request Meura receives from brewers is to study the maximum capacity to which the existing brewhouse can be extended.
- 2** **High gravity brewing** has become an industry standard and there is a trend towards increasingly high cold wort density. Consequently, Meura is receiving more and more requests by brewers to support them in achieving high gravity brewing. The ideal case in most situations is to increase wort gravity while maintaining the same cold wort volume for a particular brew. This means increasing the malt/adjunct throw per brew.
- 3** Syrups are still used in many regions, although we are observing a trend to **replace sugar syrups** by malt or other grains.

Past experiences show the value of technological audits. The results depend on the particular case, but often brewhouse capacity can be increased by a further 1-2 brews/day.

With these trends in the brewhouse process, Meura has developed a set of solutions to support brewers:

- The technological audit
- The modified rear caisson
- Thin Chambers

TECHNOLOGICAL AUDIT

Meura's Technologies & Services department houses a team of experienced brew-masters and process engineers. Their unique collection of knowledge enables them to perform technological audits that give you a detailed view of the current operational state of your installation and provide guidance towards performance improvements.

These audit focuses are tailored to meet your targets: increasing throughput, improving extraction, reducing consumption, implementing new processes... You name it, and we will put our knowledge and experience to work towards your end goal.

A typical request is to increase brewhouse capacity while keeping a good extract yield. Past experiences show the value of technological audits. The results depend on the particular case, but often brewhouse capacity can be increased by a further 1-2 brews/day.

In most cases this entails **process optimization** of the Meura2001, **integration of the Ilobox** and **improvement in up-stream process** conditions. This is the "low hanging fruit" and the first step to be considered.

MODIFIED REAR CAISSON

A Meura2001 can be extended by installing longer side beams and adding chambers, but such modification often requires challenging modifications to the structural works and spent grains hopper and leads to a major brewhouse shut-down to perform the work.

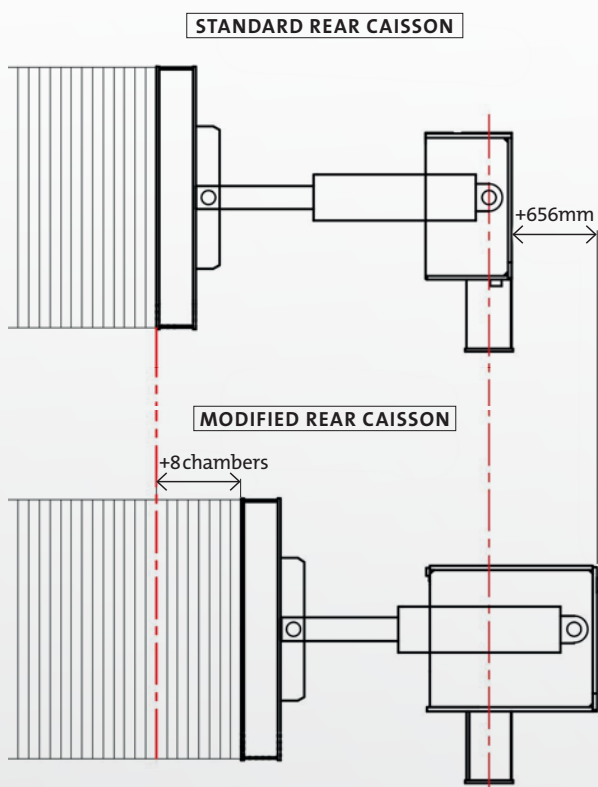
As an alternative, Meura has developed the "modified rear caisson" for the Meura2001.

By installing this rear caisson, nine additional Thin Hybrid chambers can be added while maintaining the load on the same position of the original structural works. The further modification takes just a few days. With nine extra chambers the load (= malt throw) can be increased by a nominal 790 kg malt or malt equivalent, while keeping the same engineered structure.

Calculated to a beer density of 12°P, it represents a capacity brew increase of 25.000 hl beer per month (300.000 hl installed capacity per year)!

Most of our customers who install a modified rear caisson maintain their cold wort volume and increase wort density. This means that investment for additional fermenters is not required.

The modified rear caisson: a low cost solution to quickly increase the capacity of your brewhouse!

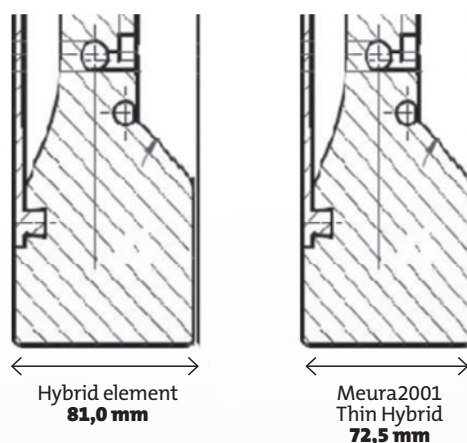


THIN CHAMBERS

THIN chambers are the thinner version of the classic Hybrid elements and are especially developed to increase the capacity of an existing Meura2001. This retro-fit allows for a **10% increase** of the Meura2001 nominal load with almost **no other modifications**. Spares and wear parts are identical between the two versions.

This solution has several advantages:

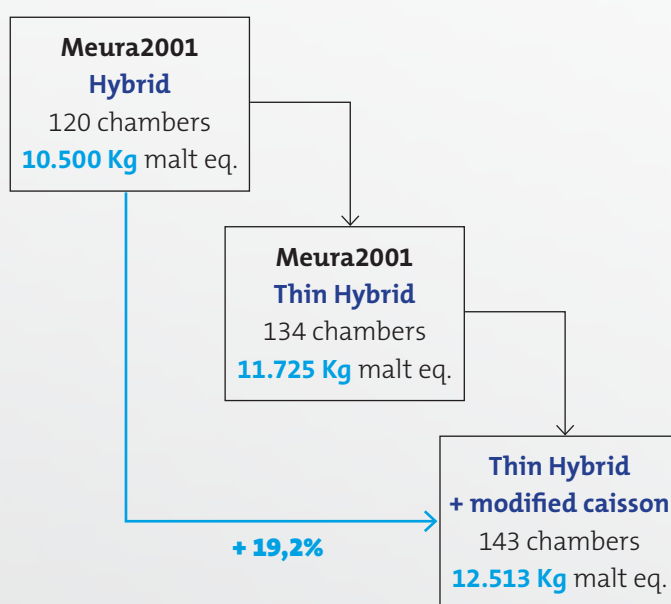
- Increasing of the number of chambers on the same frame (no other modification) resulting in a 10% increase of the nominal load
- No change in membranes and cloths compared with the previous version.
- A short production shut-down of only one day.



COMBINATION

In order to increase your capacity even further, it is also possible to combine the two solutions above: Thin Hybrid chambers + Rear Caisson.

In this way, the capacity increase of your Meura2001 can reach 20%! Here is an example:



Should you have a need to increase your Meura2001 capacity, contact us today!