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ЦЕНТРИФУГИ И ОБОРУДОВАНИЕ РАЗДЕЛЕНИЯ PLUG&WIN Технические характеристики



No Limits for New Beers

All around the world, creative brewers are turning craft beers into spectacular success stories and it keeps getting more popular. How about your beer? GEA has the right tools for you.



Make your own recipe for creating your beer! Young, intriguing styles are here to stay. For enterprising brewers, new market opportunities present themselves every day. Bring out your own unique flavor and start attracting beer lovers eager for beers that fit their personality. All you need is a smart recipe, a cool brand for your brew and the right equipment. Why wait?

Love at first sip!

There are no limits to your ideas: Sunny-flavored pale ales have been in demand for years, heavily hopped to unfold their exotic fruit aromas. But the alternatives are without number. How about your own variation of an old regional specialty beer?

Or a super-strong black stout? Or something

completely different altogether? Your customers decide which idea is best!

Make your future with the right tools

GEA is an attractive partner to turn your idea and your passion for brewing into a greatly profitable business. GEA centrifuge skids for craft brewers are the perfect tool for your brewing setup. They give you the key to make – and sell – more beer from less resources, in a shorter time. You can benefit from every market opportunity.

Knowing you need to be fast and flexible, all our creative brewing solutions are “plug & win”. Find out about these efficient tools, start brewing and winning with a maximum advantage!

Make More Beer from Each Brew

Money is no longer going down the drain. With GEA “plug & win” centrifuge skids you can exploit perfectly brewed beer to the maximum and sell more. We have the right solution ready for brewers small and large!

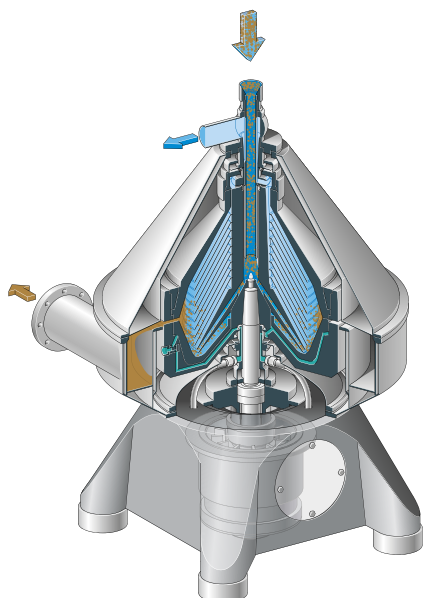
A large volume of perfectly brewed beer is lost in the process when cellaring off. Fermentation tank bottoms contain up to 80 percent perfectly brewed beer, the unclarified hot trub even more. Get a simple-to-install GEA “plug & win” centrifuge skid and you can keep all that beer in the brewing process and win more volumes.

Greater yield from the same resources

- 5 to 10 percent more beer from the same amount of raw ingredients (depending on beer recipe and brewing process)
- Same amounts of beer brewed with decisively reduced effort (less energy and hours of work)
- Multi-purpose applications in the brewing process to take your business to the next level!

Separation is the secret

The g-force in a rotating centrifuge achieves all these benefits for you. It separates the solids – wort trub, hops, proteins, yeast, tank bottoms residue – from the valuable beer, before and after fermentation. The result: You make more beer from each brew!



THE CENTRIFUGE DOES IT

The mixture to be separated enters the rotating centrifuge bowl – with a combined surface equivalent to 80 soccer fields. The higher density of the solids means they are forced towards the bottoms and the outer solids discharge chamber. The remaining liquid in the disk stack is caught by a centripetal pump and moved to the outlet pipe at the top end of the centrifuge.

Make More Beer in Less Time

Optimize the brewing process significantly by saving production time and allowing for a faster route to market.



Be faster on the market

GEA centrifuge skids for craft brewers optimize the brewing process time by about one third without any loss of quality. Using the skid in all clarification steps, each batch goes faster with a better utilization of equipment. You are always ready to roll out a new, attractive beer without having to wait. Fast delivery always included!

No limits to your flexibility

Traditional settling processes in craft breweries are time-consuming and lead to high losses. Depending on recipes and ingredients, this can take weeks. With a centrifuge you can shorten that time by about one third. No matter the size of your brewery, there's no further limit to your flexibility and speed in marketing your beers.

WITH OR WITHOUT KIESELGUHR

GEA "plug & win" centrifuge skids offer an ideal alternative to kieselguhr filtration. They achieve consistent clarity and taste of the beer, ensuring reproducible product quality from batch to batch.

The disk stack in contact with the product is made of inert stainless steel, thus no unwanted flavors are released into the brew. The beer displays its full taste, with all the natural properties of high-quality ingredients left intact.

Plug & Win – More Options with the All-In-One Solution

Clarification of hot wort

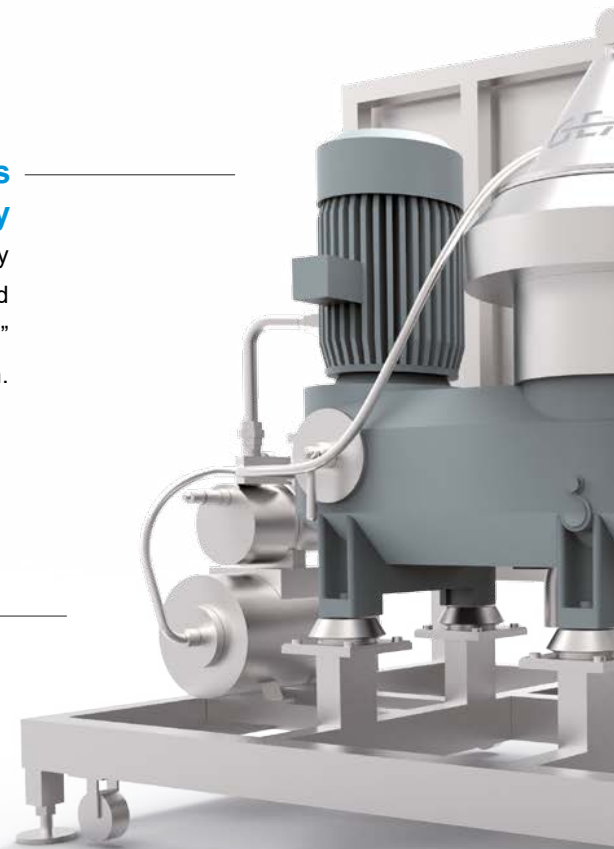
Win more beer by clarifying the hot wort from one brew. The multi-functional GEA “plug & win” centrifuge skid is configured for this application.

Processing of tank bottoms for beer recovery

Tank bottoms contain up to 80 percent perfectly brewed beer that you can simply recover and sell. Again, the multi-functional GEA “plug & win” centrifuge skid is configured for this application.

Final beer clarification

Replaces or supports kieselguhr filtration (depending on the type of beer to be produced) with maximum efficiency and flexibility.





Green beer clarification

Removal of yeast and coarse solids after fermentation to reduce losses in tank bottoms at maximum quality.

Turbidity adjustment

Win a reproducible beer quality. Adjust the centrifuge, e.g. when producing wheat beer, to leave just the right turbidity for the beer experience you want to create, automatically.

Clarification of beers with added flavors / stabilizers

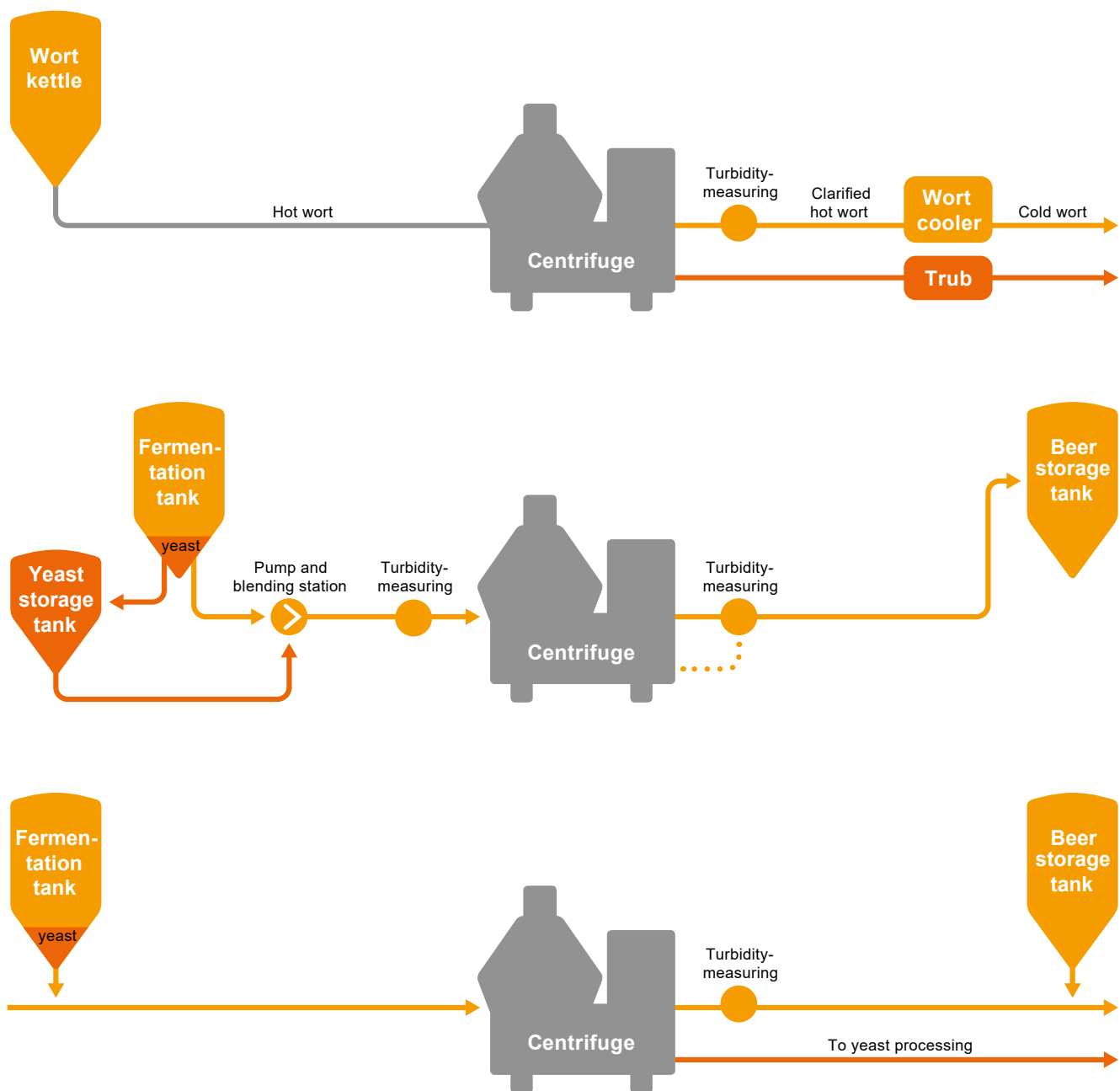
Make your beer with exactly the ingredients you require in exactly the amounts you want. Dry hop without beer losses. Your ideas are the only limit to your possibilities while you win indefinite freedom.

Processing of beer with automatic yeast dosing

Process surplus yeast with your beer and win by controlling the results in the subsequent centrifugation stage so your beer turns out just right with every brew.

All in Just One Installation

GEA's special "plug & win" skids cover, among many other applications, three central processes. The ideal solution for smaller and medium-sized brewers with great visions for the future.



Four Sizes – for Every Brewery

GEA “plug & win” centrifuge skids come in four versions for every brewery size. All centrifuge models are also available as separate machines. Other sizes available upon request.

Superior technology



GEA “plug & win” ready-to-start kits



Minimized oxygen pick-up



Gentle product handling



Automatic Cleaning in Place (CIP)



Fast and precise ejections



Superior efficiency



More beer from every brew



Faster brewing / more batches in a



timeline One skid – multiple applications

- The GEA “plug & win” centrifuge skids are equipped with the patented GEA **hydry**® ejection system. The solids ejected with this system are concentrated to a maximum: more beer from each brew.
- To prevent oxygen pick-up all machines are equipped with a maintenance-free hydrohermetic sealing.
- Highly gentle handling of products with our GEA **hydrossoft** feed system.
- Also available in an automated mode so that process parameters tune themselves for less supervision demand.
- Pneumatically operated regulating valve ensures the precise control of the back pressure in the beer discharge – even if the set point is entered manually.
- Cloudiness of your beer may be adjusted to the actual demand by controlling the bowl speed.
- All skids come with a simple-to-operate control module.
- GEA “plug & win” skids are ready for instant integration into your existing piping matrix.

GEA “plug & win” 20

Ideal for small breweries with great visions and for test applications.

Beer clarification	up to 20 hl / h
Tank bottoms recovery	1 hl/h
Wort clarification	10 hl/h
Dimensions (H/W/D)	1500 × 1150 × 1650 mm
Motor	5.5 kW



GEA “plug & win” 50

Perfect for medium-size creative breweries beginning to expand their market share.

Beer clarification	up to 50 hl / h
Tank bottoms recovery	2 hl/h
Wort clarification	20 hl/h
Dimensions (H/W/D)	1500 × 1150 × 1650 mm
Motor	11 kW



GEA “plug & win” 100

The right choice for growing medium-to-large-size creative breweries and established regional

brewhouses.

Beer clarification	up to 100 hl / h
Tank bottoms recovery	3 hl/h
Wort clarification	50 hl/h
Dimensions (H/W/D)	1950 × 1400 × 2050 mm
Motor	15 kW



GEA “plug & win” 180

Conceived for larger creative breweries and high-potential side operations of established beer producers.

Beer clarification	up to 180 hl / h
Tank bottoms recovery	6 hl/h
Wort clarification	100 hl/h
Dimensions (H/W/D)	1950 × 1400 × 2450 mm
Motor	30 kW



Utilities

- Pressurized air 6 bar | CO₂ > 1 bar | water > 1 bar
- Capacities subject to solids load in the feed to the centrifuge.

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