

Brewery Newsletter

New setup for sales in North America

The GEA Process Engineering Division companies working in the brewing sector have decided to re-focus and expand their sales activities in North America. With this new positioning, the GEA Group confirms and strengthens its commitment in the North American brewery industry. The GEA Process Engineering Division will use the World Grains Summit in September to present and explain the new setup, which will be launched under the umbrella name **GEA Huppmann Brewery Systems**. The companies behind the new commitment are Huppmann AG, Tuchenhausen Brewery Systems GmbH, GEA Diessel GmbH and Niro Inc. (a.k.a. GEA Liquid Processing), which are all members of the Process Engineering Division of the GEA Group. The GEA World Grains Summit stand will also feature other GEA companies, namely Westfalia Separator, GEA Ecoflex North America and Tuchenhausen Flow Components, which operates independently of Huppmann Brewery Systems.

The new business unit, GEA Huppmann Brewery Systems, will be part of Niro Inc., Hudson, WI. With experience in food process engineering and automation, procurement and both a local workshop and after-sales department, the company has the right background to actively support the brewery offering. The special know-how for brewery projects will be supplied from the respective GEA principal engineering technology centres, which are Huppmann for the brewhouse and energy recovery, Tuchenhausen Brewery Systems for the cold block and GEA Diessel for water deaeration, yeast management, blending and metering.

This ensures that the quality of engineering, project execution and after sales services will remain consistent with the best global experience of GEA.

Udo Funk is in charge of the sales activities in the brewery business. Udo is a graduate engineer in brewing and has experience both in project management and commissioning. Most recently he has worked as a Sales Manager for Huppmann responsible for Central and South America.

Huppmann has for decades been a highly regarded supplier of brewhouse plants to the North American markets. Apart from numerous upgrades with all big brewing groups, the Germany-based engineering and manufacturing company has also been successful with turnkey projects: The brewhouse plants from Deschutes Brewery, Bend / OR, Harpoon Brewing Co., Boston / MA, Sierra Nevada Brewing Company, Chico / CA, Reedhook Ale Brewery, Portsmouth / NH and not least the brewhouse of Widmer Brothers Brewing, Portland / OR have been supplied by Huppmann in recent years.



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Since 1976, Niro, Inc. has been engineering and fabricating individual solutions in stainless steel hygienic processing systems at the site in Hudson. With this focus the company can be much more than just a representative for the principal engineering technology centres.

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Global Engineering Alliance in San Francisco

The GEA companies operating in the beverage and brewery sector will participate in the exhibition held at the World Grains Summit, September 17-20, at Moscone Convention Center in San Francisco. Huppmann will share the common exhibition space with GEA Diessel, GEA Ecoflex, GEA Tuchenhausen Components, Tuchenhausen Brewery Systems and Westfalia Separator. Thus, the entire scope of supply of the GEA Group for the beverage and brewery industry will be present.

Kristina Böe, Technical Director of Tuchenhausen Brewery Systems, will present a scientific poster on the optimization of tank connection with the Eco-Matrix piping system. Dr. Thomas Bühler, Marketing Manager of Huppmann, will give a lecture on the scientific background and the results of wort boiling with the Jetstar. Energy storage systems even more economically attractive



Come and visit our booth #402 at the World Grains Summit (The Master Brewers Association of the Americas Annual Meeting & Expo); September 17-20, 2006; Moscone Convention Center - San Francisco, California U.S.A.

Energy storage systems even more economically attractive

In view of high energy prices, energy storage systems for brewhouses are becoming even more attractive. It is worthwhile to have a look at the wort boiling system as well and thus "kill two birds with one stone".

In the brewery of the Oettinger Group in Mönchengladbach, energy management is now being brought up to date by Huppmann. The project includes a new wort boiling system (with dynamic low-pressure boiling and Jetstar) and an energy storage system. In case of evaporation rates of up to approx. 4.5%, the condensation energy of the vapours can be used for wort heating if an energy storage system is applied. The new boiling system replaces one of the few continuous high temperature wort boiling systems that are still in operation.

In the course of their brewhouse expansion, also the Andechs Monastery Brewery decided to upgrade their boiler and to install an energy storage system. After a visit to Nordbräu brewery, Ingolstadt, where a Jetstar is in operation, production manager Alexander Reiss and brewmaster Jürgen Scholz agreed: in Andechs, the old external boiler will soon be replaced by the Jetstar.

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On the Open Day at the Kulmbacher Brewery festival the public could learn about the wort boiling system.

Brewhouse of Kulmbacher Brewery kept up to date with upgrades

In summer 2005, Kulmbacher Brewery decided to upgrade their new Huppmann brewhouse with a wort precooling system. In practical tests, the brewers in Kulmbach have now reviewed the efficiency of wort precooling with regard to less reduction of DMS-P and reduced thermal stress on the wort.

The analysis values (Table 1) confirm the results that have already been published

Table: The wort values prove it – wort precooling leads to significant improvements in quality

		with wort precooling	without wort precooling
End of boiling (cast wort)			
	DMS-free [µg/l]	35	27
	DMS-P [µg/l]	108	112
	TBI []	35.2	36.8
Half-time of cooling			
	DMS-free [µg/l]	83	97
	DMS-P [µg/l]	61	42
	TBI []	38.6	43.4
Changes CW – half-time of cooling			
	DMS-free [µg/l]	+ 48	+ 70
	DMS-P [µg/l]	- 47	- 71
	TBI []	+ 3.4	+ 6.6

earlier [1, 2]: Wort precooling can reduce the formation of DMS in the temperature-holding phase of the Whirlpool by about 30%. Thermal stress is also reduced significantly.

In late May 2006, the boiling system was also upgraded with the Jetstar. The total evaporation rate could be lowered substantially. It is now less than 4% for all beer types. A more homogeneous wort treatment in combination with dynamic low-pressure boiling leads to consistently high conversion. Thus, energy consumption can be reduced accordingly. The Kulmbach brewers confirmed that the beer taste has not changed.

Literature

[1] Coors, G. Krottenthaler, M. und Back, W.: Auswirkungen einer Würzevorkühlung beim Ausschlagen, Brauwelt 140, (2000), 42/ 43, 1696-1699

[2] Ogane, O. Imai, T. Yutaka, O. Ohkochi, M. et.al.: Influence of wort boiling and wort clarification conditions on aging-relevant carbonyl compounds in beer, MBAA Convention, Orlando, 2005

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Huppmann plant engineering as far as the eye can see – in the Baltika brewhouse in St. Petersburg

Major order from Baltika

In Samara, CIS, the Baltika Group is setting up another brewing plant. The general contractor for the large order of 23 million Euro is Huppmann AG. The production capacity at this site will thus be increased to over 6 million hectolitres.

The Russian Baltika Group, part of Baltic Beverages Holding, has been extremely successful in the Russian market for many years. In 1990 the group started in St. Petersburg. In the meantime, Baltika has become one of the biggest European brands. In Russia it has a market share of more than 24%. By the end of this year, the group will include four companies, which produce a total of 46 million hl beer at ten locations in Russia. More than 70% of the export of all Russian breweries comes from Baltika. In view of this development, it is not surprising that capacities have to be increased again and again. Since January 2003, Baltika has been operating a brewery in Samara. As in other parts of the country, Baltika followed the sales markets here as well and opted for the location in the Volga region of the Russian Federation with a catchment area of over 21 million inhabitants. This decision proved to be right. Since 2003, the thirst for beer – also beer from regional Baltika brands, one of which is the brand "Samara" – has steadily increased and the prospects for further positive development are promising. Under these conditions, the brewery's expansion plans are now being implemented. The already available capacity of about 2 million hectolitres per year will now be tripled. Supplier of the complete process technology is Huppmann AG.

From the beginning, Huppmann has been one of the major suppliers for Baltika. High quality, availability and efficiency of the plants have further strengthened this good business relationship. Today, BBH has 18 brewhouse plants with filling charges between 9 and 18t.

Orientation of Global Engineering Alliance confirmed

The success in Russia confirms the setup of the GEA Group as a complete supplier for the brewing industry. In addition to the double brewhouse from Huppmann, Tuchenhausen Brewery Systems supplies the cellar piping and GEA Grasso provides the refrigeration system. The brewmaxx process control system comes from Proleit, with which Huppmann is now working together under a cooperation agreement.

Market leader not only in the CIS

Baltic Beverages Holding AB (BBH) is the market leader in Russia, Ukraine, the Baltic states and Kazakhstan. With 18 production plants, the brewery group has a very strong position in the sales areas and can thus serve the market with high-quality products in all parts of the country. BBH is owned 50 percent each by Carlsberg A/S and Scottish & Newcastle plc.

Imprint

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