DRIVE SYSTEMS FOR
THE BREWING INDUSTRY

CASE STUDY: OCTOPI BREWING CO.

NORD DRIVESYSTEMS

Lauter Tun

Mixing, Agitating & Separating

Mash Tun

Dependable & Efficient

Reliable

Handling the high demands
of the beverage industry

NORD 90.1 Series

Right-Angle Helical-Bevel Gear Drives

NORD Parallel Helical CLINCHER™

High power and torque in
a UNICASE™ housing

NORD's vast product portfolio is adaptable to meet a wide variety of beverage industry needs.

NORD IS ON TAP AT OCTOPI BREWERY

FOOD & BEVERAGE INDUSTRY
Mash Tun
Lauter Tun
Craft Beer

PARALLEL HELICAL
CLINCHER™ GEARMOTORS
SK 4282 AF - 112MH/4

RIGHT-ANGLE
HELICAL-BEVEL
GEARMOTORS
SK 9072.1AF - 112MH/4

As the demand for craft beer continues to grow, there has been a shift for brewers to turn to contract breweries as a cost effective brewing option to help them break into the growing craft brewing market. Not only do contract breweries help reduce the cost of rent and eliminate high equipment purchase costs for new craft breweries, there are also many advantages to having production closer to all the various places of demand.

Octopi Brewing Co, a contract brewery located in Waunakee, WI, is the leading contract brewery in the Midwest with the ability to brew just about any type of beer recipe their customer requests. Isaac Showaki, President of Octopi Brewing, knows firsthand what it is like to not have control over your beer and your brand – having relied solely on contract brewers back in 2012 while launching his first brewery in Chicago. Showaki holds Octopi to the gold-standard in contract brewing and enjoys helping each brand Octopi works with succeed in the craft beer community.

Located in the same industrial park is the US headquarters of NORD Gear Corporation. NORD has been involved in the craft brewing industry for years, and was pleased to discover not only that the contract brewery was being built in the same industrial park, but also that a Helical Bevel and Parallel Shaft CLINCHER™ were turning the rakes in the Lauter Tun and rotating the agitator in the Mash Tun. "Of all the equipment we have, it's the best. It's reliable. It's been able to handle everything we've thrown at it, and we've really pushed the limits," says Isaac regarding the Mash and Lauter Tuns. Depending on the batch, Octopi will put anywhere from 2,000 to 4,000 pounds of grain into the Mash Tun, and it is critical that the equipment operates flawlessly to ensure the timeliness and quality of the beer they are brewing.

NORD's capabilities in the beverage industry are extensive and NORD products are specifically tailored to meet a variety of beverage production system needs such as pumping, mixing and agitating, air conditioning and ventilating, moving and positioning, dosing, filling, packing, conveying and storing. NORD's robust, durable and cost effective speed reducers, motors and AC vector drives are available in a wide range of ratios and with heavy duty bearings.

FOCUS ON THE CUSTOMER

Octopi Brewing, the leading contract brewery in the Midwest, recently opened a brand new 18,000 sq. ft. brew house just outside of Madison, WI. With state of the art equipment and skilled staff, Octopi Brewing is not only involved in the brewing process, they also provide comprehensive consulting and strategy development on how to succeed in the craft brewing world. "We are really a one stop shop. We're able to answer questions on marketing, design, distribution, accounting, brewing and working commercially. Our customer's success is our success," says Isaac.

Octopi Brewing, Waunakee, WI

"It's reliable. It's been able to handle everything we've thrown at it, and we've really pushed the limits."

Isaac Showaki, Octopi Brewing President

WASHDOWN CAPABILITIES

NORD's NSD^{tupH} Sealed Surface Conversion System offers a cost effective weight saving alternative to stainless steel reducers. Through a revolutionary process, the aluminum alloy reducer housing and components are electrically catalyzed resulting in a molecular surface conversion. NSD^{tupH} is exceptionally chemical, corrosion and abrasion resistant. The converted surface becomes very scratch resistant as it is 6-7 times harder than the original aluminum alloy as a result of this process.

HEAVY DUTY BEARINGS FOR MIXING & LEAK PROTECTION

Several variations of NORD's heavy duty, spread bearing design are also available for reliable, worry free mixing. Each design offers additional features and advantages along with an increased degree of leak safety.

ELECTRONIC DRIVE CONTROL

The SK200E, SK180E and the new SK135E AC Vector Drive series are all designed to be used in a distributed control topology. Each series has its unique benefits and advantages. When the drive is motor mounted, it replaces the motor's terminal box to create a combined, fully integrated Motor/Drive. Eliminating the need for expensive central control cabinets and costly wiring runs, distributed control VFD's offer a sustainable cost savings, decrease installation time and keep labor costs to a minimum. System modifications and upgrades are also very inexpensive

SMOOTH SURFACE MOTORS

NORD has expanded its motor portfolio to include smooth surface motors in order to provide a cost-effective, light-weight and easy to clean solution ideal for the beverage industry and other applications where sanitation and cleanliness are essential.

A 5 hp Parallel mounted CLINCHER™ powers the rake in the Mash Tun.

FOCUS ON THE PROJECT

A NORD SK9072.1 Helical Bevel with a 5 horse power motor turns the rake in the Lauter Tun while an SK4282 Parallel Shaft CLINCHER™ with a 5 horse power motor rotates the agitator in the Mash Tun.

- Hollow Bore
- Flange Mount
- Energy Efficient Motors

MORE REFERENCES AND CASE STUDIES MAY BE FOUND AT :

- www.nord.com/references

NORD DRIVESYSTEMS Group

- Family business from Bargteheide near Hamburg with 3,600 employees
- Drive solutions for more than 100 branches of industry
- 7 production locations worldwide
- Present in 98 countries on 5 continents
- More information: www.nord.com

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