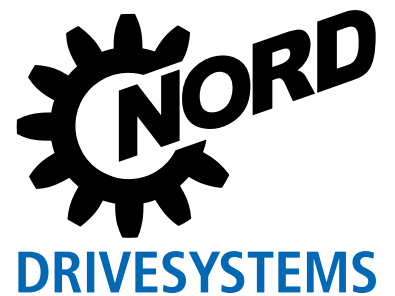


# DRIVE SOLUTIONS FOR MASH TUN AND LAUTER TUN

CASE STUDY: OCTOPI



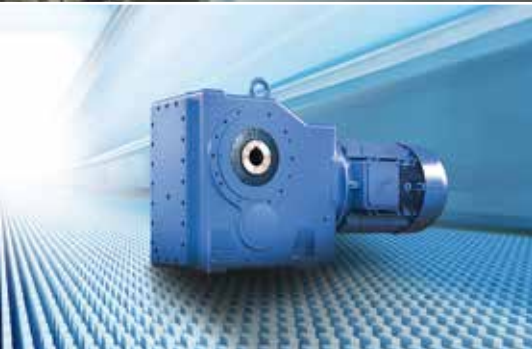
**Lauter Tun  
loosening and separating.**



**Mash Tun  
mixing and agitating.**



**Reliable drive solutions  
in the beverage industry.**




**Helical-bevel geared motor  
excellent efficiency  
and service life.**



**Parallel shaft geared motor  
extra-robust  
UNICASE housing.**





A leading US contract brewery, Octopi Brewing Co. is at the forefront of the craft beer trend. At key stages of the brewing process, their mash and lauter tuns rely on resilient NORD geared motors.

“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.”

ISAAC SHOWAKI, OCTOPI BREWING PRESIDENT



**FOOD & BEVERAGE INDUSTRY**  
Mash Tun  
Lauter Tun



**GEARED MOTOR**  
Unicase Parallel Shaft  
Unicase Helical-Bevel

### PROJECT CHALLENGE

For Octopi Brewing Co. in Wisconsin, USA, flawless operations in their brewhouse are a cornerstone of their business model: as a contract brewery, Octopi must immediately answer to a client for anything that goes off schedule. The company takes pride in the ability to brew just about any type of beer recipe requested by a customer. In order to ensure the timely delivery and quality of the product they are brewing, they have taken extra care to select the most dependable equipment.

**Get the brew moving.** – While the multi-stage process of beer production starts out with grinding malt, it is the mash tun where the brewing actually commences and solid material begins to turn into a beverage. As the malt-and-water combination is gradually heated, an agitator in the vessel must stir the mixture. After it is passed on to the lauter tun, a raking machine must plow through

the mash to gently loosen spent grain that has settled on the floor.

**Unfailing performance.** – For both motion applications in the tuns, Octopi sought out totally reliable drive solutions. These geared motors were required to run efficiently and cope with changing speeds and fluctuating forces, but still provide a long service life and ensure low-maintenance operation. In the lauter tun, for example, the rake drive must continuously adapt to the spent grain’s consistency throughout the process. Eventually, though, it must also be capable of running at high speed to enable the vat to be emptied quickly.

### APPLICATION SOLUTION

A compact, flange-mount NORD UNICASE parallel shaft geared motor keeps the agitator in the mash tun in motion. Since it features a robust one-piece cast-iron housing, this gear unit has no sealing that could be worn down by axial and radial loads. An original in-house NORD development, the extremely sturdy UNICASE design ensures the gear retains its full, superior strength throughout a long lifetime.

**Modular construction for high flexibility.** – The rake in the lauter tun is actuated by a highly efficient NORD UNICASE helical-bevel geared motor. This right-angle unit also features a sleek, one-piece housing. Like all NORD gears, it is based on a fully modular design that enables users to select precisely adapted drive systems for their applications. The two different NORD gears are each combined with a 3.7 kW motor.

**Comprehensive drive solutions.** – For the beverage industry, NORD has developed a range of drive products to address the full scope of production needs, covering all tasks from pumping, mixing and agitating, to air conditioning and ventilating, to moving and positioning, to dosing, filling, packing, conveying and storing. Above and beyond the workhorse products used by Octopi Brewing Co., these sector-specific offerings notably include powerful industrial gears with very high torques, smooth-surface motors, electronic drive controllers for distributed topologies, and drive systems with a specially converted aluminum surface that provides exceptionally chemical, corrosion and abrasion resistance.



**Durable.** – A NORD parallel shaft geared motor in a one-piece housing powers the rake in the mash tun.

### FOCUS ON THE CUSTOMER

Octopi Brewing, the leading contract brewery in the Midwestern United States, recently opened a brand-new 1,700 m<sup>2</sup> brewhouse. 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. The company’s expertise covers marketing, design, distribution, accounting, brewing and working commercially.



Octopi Brewing, Waunakee, WI

### FOCUS ON THE PROJECT

A contract producer of a variety of different beers, the Octopi brewhouse usually processes some 1,000 to 2,000 kg of grain per batch. Determined to find dependable and energy-efficient drives for demanding tasks in the brewing process, the company has selected

- a NORD parallel shaft geared motor for the mash tun agitator,
- a NORD helical-bevel geared motor for the lauter tun rake.





A photograph of industrial machinery, featuring a prominent blue electric motor connected to a complex system of stainless steel pipes and valves. The scene is brightly lit, likely from a window in the background, creating a clean and professional industrial atmosphere.

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**Member of the NORD DRIVESYSTEMS Group**

The logo for NORD DRIVESYSTEMS. It features a stylized gear icon with the word "NORD" in a bold, sans-serif font inside the gear's teeth. Below the gear, the word "DRIVESYSTEMS" is written in a blue, sans-serif font.

**NORD**  
**DRIVESYSTEMS**