



Product

Stainless Steel HiflexDRIVE

Application

Cheese Curd Processing Line

Highlights

- Combination of the BK17 HiflexDRIVE gearbox and a permanent magnet synchronous motor (PMSM)
- IE4 Super premium efficiency motor
- Smooth stainless steel aseptic design for easy cleaning in washdown applications
- Ingress protection up to IP69K
- High efficiency through two-stage gear design

Rücker GmbH, one of Europe's leading dairy producers, required an upgraded aseptic geared motor drive solution for a coagulator used for cheese curd processing. The 60 meter long machine features several stirrers that keep milk moving as the whey is removed from the curd. Each stirrer moves along a section of the lane; once it reaches the end of its section, the stirrer is lifted out of the curd and moves back to its starting position.

Rücker initially approached Bauer when its engineers realized that integrating brakes into the machine's geared motor housing would increase cleanability in the system and therefore reduce HACCP (Hazard Analysis and Critical Control Point) risks.

Shortly after, Rücker began upgrading its geared motors to aseptic drives to take advantage of the improved hygiene ratings. Now, the first of the aseptic drives have been replaced with stainless steel units from Bauer. The stainless steel drives offer the same integrated brake feature from the original unit, but now with the added hygiene performance and mechanical resilience of a stainless steel housing.

Standard Bauer stainless steel HiflexDRIVEs feature a combination BK17 gearbox and a permanent magnet synchronous motor (PMSM). The energy efficient PMS motor provides accurate positioning when used with a high-performance VFD, even without encoder feedback.

The drive's stainless steel design features smooth, water-repellent surfaces that eliminate hygiene risks often associated with painted solutions and allow for easy cleaning. The motor design does not require a fan or cooling ribs, allowing for a completely smooth outer casing.

Europe
+49 711 3518-0
bauergears.com

US
1-800-387-0130

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altramotion.com/contactus