

**Industry:** Food Processing

**Application:** Spray Drying

**Product Descriptions:** Twist & Dry™ with Stäubli connection

**Situation:** An existing BETE Twist & Dry™ (TD) customer wanted to improve their spray drying system by making their dryer more versatile. They were drying baby formula concentrate and the process necessitated that they switch the TD bodies out frequently for cleaning, as a clean-in-place process would slow down production. They needed a way to quickly switch out the nozzle, maximizing dryer throughput and efficiency. Since this was a baby food process, and closely regulated by the FDA, they could not use a threaded connection. The connection had to be sanitary and it had to be able to handle the operating pressure of 4000 psi (276 bar).

**BETE's solution:** BETE Applications Engineers specified that the customer use a Stäubli quick-release coupling. They designed a special TD body with an integral Staubli flow plug that would mate with a high pressure Stäubli socket mounted on the customer's lance. The design was reliable, efficient, safe and leak-tight. Dryer operators could now quickly and easily remove the complete TD nozzle assembly with the push of a button.

### Technical Questions?

Please contact:  
Applications Engineering  
([appeng@bete.com](mailto:appeng@bete.com))  
413-772-0846  
App#050801

