

Material Solutions for High-Speed Bakery Processing



The bakery industry is always trying to accelerate processing speeds and improve production.

Today's high-speed production methods generate more wear, heat and pressure on the large machines needed on the line. In order to prevent material loss there is a great demand for accurate dosing systems.

Quadrant EPP has developed materials built to face all aspects of the increasingly demanding production line, including self-lubricating solutions and with improved temperature resistance and good dimensional stability.

The results are less maintenance and thus time savings due to self-lubricating materials as well as cost savings due to dimensionally stable materials which ensure accurate dosing of the dough.

■ A partnership with TriStar gives you a competitive edge.

ERTALYTE® TX Square Piston



Challenges: A small-breads bakery machine manufacturer needed a low weight part to press the dough out of a dosing chamber. It needed to show very good wear resistance, excellent frictional properties, very good release properties (no sticking of dough), dimensional stability, chemical resistance and high load capacity.

Solution: ERTALYTE TX with better wear resistance, sliding properties and dimensional stability than Polyoxymethylene (POM) or Polyamide 6.

Benefits: Maintenance and design cost reductions, no corrosion problems like aluminium, food contact compliance, better hygiene and safety performance along with considerable weight reduction.

DURATRON® U1000 PEI Distribution Spool



Challenges: The manufacturer needed a distribution spool for cookie filling. The spool also pushed the cookies out, working like a piston. The material needed to maintain good stiffness at elevated temperatures and at the same time be of low weight. Low heat conductivity and easy maintenance were other requirements.

Solution: DURATRON U1000 PEI exhibiting stiffness and dimensional stability at operating temperatures up to 160°C.

Benefits: Replaced a metal assembly that needed more time to disassemble and clean, at the same time offering lower overall costs and food contact compliance.



QUADRANT

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We're ready to put our engineering expertise to work for you from prototype to production.

Engineering | Custom Fabrication | Manufacturing



CJ Composite

- Self-Lubricating
- Low weight | High Strength
- Chemical Resistance
- Direct replacement for Bronze



Ultracomp®

- Self-Lubricating
- High Load | Low Speed
- 54,400 PSI Compressive Strength
- Exceptional Resistance to Vibration and Impact



TriSteel™

- Self-Lubricating
- High Load | High Speed
- Metal Backed Bearing System
- 100% Lead Free



Rulon®

- Self-Lubricating
- Low weight | High Strength
- Low Coefficient of Friction
- Chemically Resistant



Enhanced Materials Division

- Plasma Surface Treatment
- Specialized Primers & Coatings
- Material ID & Selection
- Process Engineering | Analysis & Testing



TriStar



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