

BEARINGS FOR BREADING AND BATTERING

Add VALUE to your value-added products



Breaded and battered foods are value-added products that consumers love. Yeah, SALES!

Maintenance is tasked with keeping equipment running so production runs steadily and down time is kept to a minimum. Too bad that breaded and battered processing includes some of the harshest environments in the plant.

Don't despair. EDT makes bearings that can operate in the high heat, flour, harsh chemicals, high use and food contact requirements involved.

A change to EDT bearings adds profit to the bottom line by reducing the frequencies of change outs and eliminating preventive maintenance.

EDT Bearing Advantages









- Drop-in replacement for OEM bearings. No modification of existing machines required.
- EDT's exclusive QuiKlean® bearing housing creates a critical air gap between the bearing and the conveyor frame, keeping the flour away from the bearings.
- In ball bearings, solid-lubricants:
 - Eliminate issues related to grease that collects flour, the need to re-grease, and risks of over-greasing bearings to 'purge' them
 - Act as a barrier to rolling elements from breading contaminants
 - Operate with NO PM requirement
 - Submerged in fryers: 'M' lube withstands high temperature and abrasive 'fines'
- Plane bearings are ideal on infeed and discharge conveyors
 - Choose the most appropriate bearing polymer (NA, FA, QF) and housing material based on temperature at the bearing
 - Unaffected by washdown, oil, flour and seasonings
 - Completely grease-less
 - Completely non-rusting
 - Reduced costs of ownership



BY TIMKEN

Check out EDT's value-added options for breading and battering equipment


Breading and Battering Applications and Solutions

Bearing location		EDT solution	Recommended housing
Breader/batterer infeed - and outfeed (often wire mesh)		Poly-Round® NA if shaft temp below 180°F FA if shaft temp above 180°F	EDT polymer or stainless, or other housings
Conveyors: transfer, packaging (often modular plastic)		Poly-Round® (Solution® Series)	EDT polymer or stainless, or other housings
JBT-Stein breader on Cross Auger, Vibratory belt, flips		'F' solid lubricated ss ball bearing in QK housing with seal plate	SS QuiKlean® 4-bolt included in EDT part number ZJZA100-QK8-1
JBT-Stein breader Vertical Auger		'F' solid lubricated ss ball bearing in Glove®	SS 4-bolt included in EDT part number ZJZA400-0N8-1
JBT-Stein fryer crumb auger spherical ball		Abrasion-resistant ZQ ball with keyway in a ZQ outer ring	Non-housed EDT part number ZQCOR-12-FKPR
Fryer infeed bearings in temp above 200°F		Poly-Round® 'QF' for low speed, abrasives	EDT stainless or other housings
Fryer opposing belts		'M' solid lubricated ss ball bearing	EDT stainless or other housings
Fryer outfeed		Poly-Round® NA if shaft temp below 180°F QF if shaft temp above 180°F	EDT polymer or stainless, or other housings
Freezer conveyors		Poly-Round® PA and suffix BC if shaft temp to -40°F QF and suffix B if shaft temp below -40°F	EDT polymer (above -40°F), stainless, or other housings
Split bearings assemblies are available for spiral freezer vertical deck supports			

Compare the costs of Crumb Auger Bearings

	Cost of OEM bearing (change every 6 weeks)	Cost of EDT bearing (change after 12 months)
		
Cost to purchase bearing x 2 bearings per shaft	LHSSV12-5159 111.96 x 2 223.92	ZQCOR-12-FKPR 410.00 x 2 820.00
Cost to install 2 bearings \$35/hr x 1 hour	35.00	35.00
Cost of Viton seals Install 3 seals with each new bearing	15.00 x 3 45.00	15.00 x 3 45.00
Cost of bearings each installation	303.92	900.00
Bearing changeouts per year: 52 weeks divided by 6 week life (8 changeouts) 1 year cost to buy/install bearings	x 8 2,431.36	x 1 900.00
Year one bearing costs	\$2,431.36	\$900.00
1 year costs with OEM bearings versus 1 year costs with EDT	\$2,431.36	\$900.00
1 year savings = \$1,531.36 per machine		

Compare the costs of Breader Bearings on XL Breaders

	Cost of original stacked bearing assembly (change components every 6 wks)	Cost of EDT Breader Bearing assembly (change housing after 24 months; change insert after 6 months)
		
Cost to purchase bearing parts Housing Backing plate/seal	75.00 40.00 0.00 115.00	ZJZA100-QK8-1 190.00 195.00 25.00 410.00
Cost to install original bearing \$35/hr x 1 hour	35.00	35.00
Cost of lubricate: Lubriplate FLG Grease: .30/ounce x 1 oz Labor: (.58 per min x 2 min) per day x 260 (daily, 5 days/week x 52 weeks)	0.30 1.16 x 260 379.60	0.00
Cost to change out bearings 52 weeks/year divided by 6 weeks = 8.6 at \$35/hour labor x 1 hour Cost of replacement component 7 more monthly changeouts	35.00 + 75.00 x 7 770.00	35.00 + 190.00 N/A 225.00
One year bearing cost	\$1,299.60	\$670.00
1 year costs with OEM bearings: versus 1 year costs with EDT	\$1,299.60 \$670.00	
Savings per bearing =	\$629.60 x 10 bearings per breader	
1 year savings = \$6,296.00 per machine		



Let EDT Help!

To check which bearing is best for your application, complete a **Bearing Design Checklist (BDC)** today and you'll hear from us promptly!

www.edtcorp.com/docs/bearing-design-checklist.pdf
OR...<http://tinyurl.com/edtbdc>



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