

# 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



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# 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
<b>Year one bearing costs</b>	<b>\$2,431.36</b>	<b>\$900.00</b>
<b>1 year costs with OEM bearings versus 1 year costs with EDT</b>	<b>\$2,431.36</b>	<b>\$900.00</b>
<b>1 year savings = \$1,531.36 per machine</b>		

### 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
<b>One year bearing cost</b>	<b>\$1,299.60</b>	<b>\$670.00</b>
<b>1 year costs with OEM bearings: versus 1 year costs with EDT</b>	<b>\$1,299.60</b>	<b>\$670.00</b>
<b>Savings per bearing =</b>	<b>\$629.60 x 10 bearings per breader</b>	
<b>1 year savings = \$6,296.00 per machine</b>		



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



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