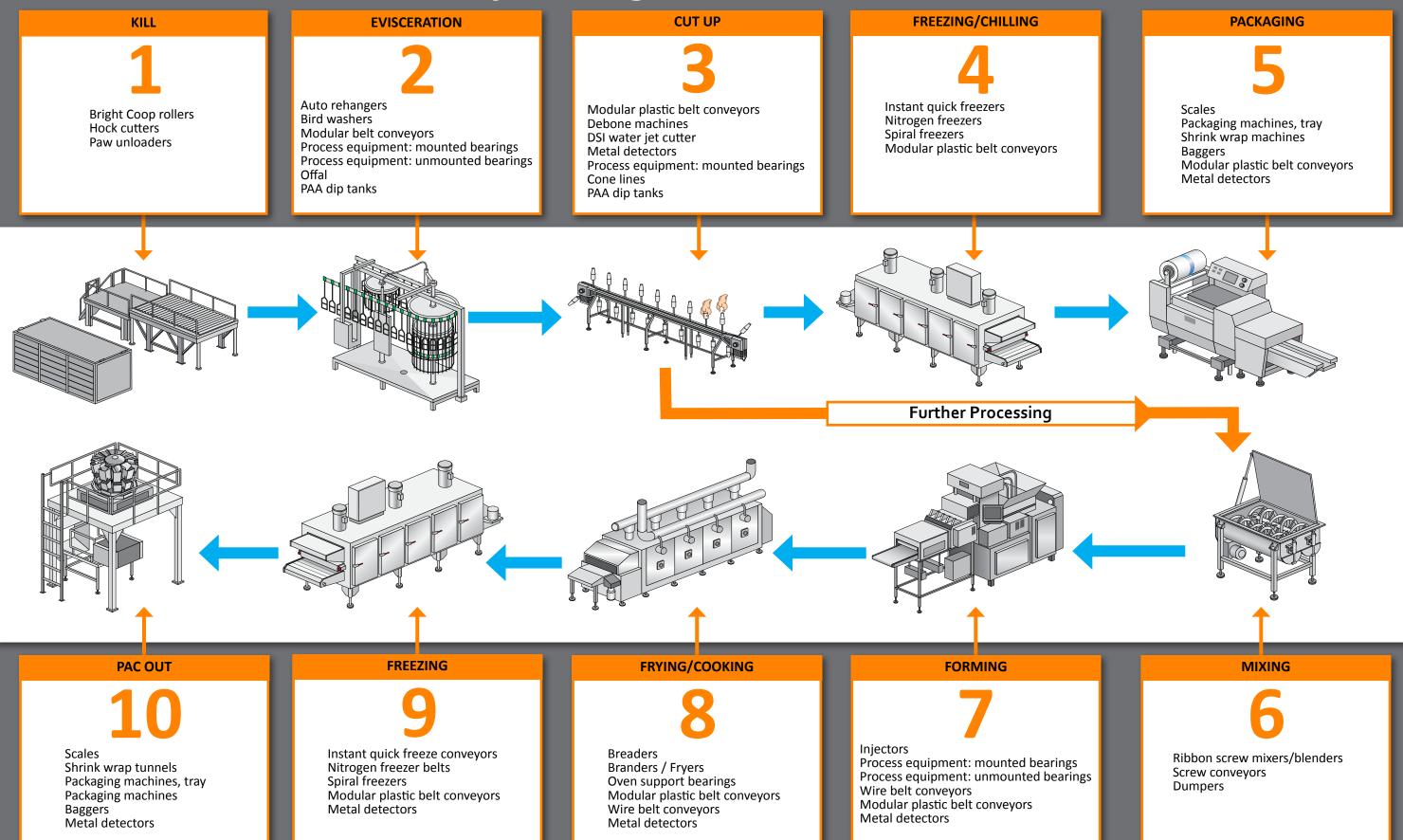


From receiving to shipping, EDT bearings contribute: •Food Safety •Longer Life •Lower Maintenance



EDT has bearings for all areas of poultry processing

From receiving through shipping, EDT bearings improve reliability and food safety AND help the bottom line

Poultry processing maintenance issues that decrease bearing life							
Reference No.	Issues	Causes					
1	Frequent bearing replacement	Heavy contamination with insufficient bearing lubrication					
2	Proper lubrication requires considerable maintenance time	Heavy wash down and process moisture					
3	Product contamination concerns from rusting bearings, housings	Heavy wash down, high process moisture, grease protects bearings from rust but style or location prohibits re-lubricating ball bearings					
4	Catastrophic bearing failure can halt production	Load too high for stainless bearing					
5	Set screws back out, over-tightening causes cracked inner rings and broken bearings	Stainless set screws in stainless housings don't seat, vibrate loose; over-tightening is typical response and brittle 440C rings crack					
6	Extreme temperature (<32°F or >200°F) affects lubricant to detriment of production	Low temperature congeals grease; high temperature liquefies grease and balls have insufficient lubrication					

	6 detriment o		ction		insufficient lubrication	iligii tei	прега	
			Processing flow reasons for ch	nallenge	s and EDT bearing Sol	ution®		
	Basi	c Proc		Further Proces				
Station	Applications / Machinery	Issues	EDT Product Solution	Station	Applications / Machinery	Issues	EDT	
	Kill				Mixing			
1	Bright Coop rollers	1, 2	Block bearing Poly-Round® bearings, Solid lubricated ball bearings		Ribbon screw mixer/blender	2, 3, 4	Type	
	Hock cutter	1, 4, 5	Eccentric solid lubricated ball bearings	6	Screw conveyors	2, 3, 4	Type (split	
	Paw unloader	3	Stainless take-up frame with polymer block bearings		Dumpers	1, 2, 3, 4	Poly- ball b	
	Evis				Forming			
2	Auto rehanger	3, 4	Dedict Details and (DDD) to a dear		Injectors	1, 2,	Poly- solid	
	Birdwasher	3, 4	Radial Poly-Round® (RPR) bearings		,	3, 4		
	Modular belt conveyors	1, 2, 3, 4	Poly-Round® Solution® or solid lubricated ball bearings		Process equipment: mounted bearings	5	Solu bear	
	Process equipment, mounted bearings	4, 5	Solution® eccentric solid lubricated ball bearings	7	Process equipment: radial bearings	1, 3, 4	Solu	
	Process equipment, unmounted bearings	4, 5	Radial Poly-Round® and solid lubricated radial ball bearings		Wire belt conveyors	1, 2, 3, 4	Poly- solid	
	Offal	2	Poly-Round® Solution® or Type E Solution® bearings		Modular plastic belt conveyors	1, 2, 3, 4		
	Cut up				Metal detectors	1, 2, 3, 4		
	Modular plastic belt conveyors	1, 2, 3, 4	Poly-Round® Solution® or solid lubricated ball bearings		Frying/Cooking			
3	Debone machines	1, 3, 4	Unmounted bearings: RPR® and solid lubricated radial ball bearings	8	Breaders	1, 2, 3, 4	Solu	
	DSI water jet cutter	1, 3	Solution® eccentric or setscrew solid lubricated ball bearings		Branders	1, 2, 6	High	
	Metal detectors	1, 2,	Poly-Round® Solution® or solid lubricated ball bearings		Oven support bearings	1, 2, 6	High or so	
	Process equipment mounted bearings	4, 5	Mounted ball bearings: eccentric solid lubricated inserts		Modular plastic belt conveyors	1, 2, 3, 4	Poly- solid	
	Cone Lines	1, 2,	Polv-Round® Solution® or		Wire belt conveyors	1, 2, 3, 4		
		3, 4	solid lubricated ball bearings		Metal detectors	1, 2,		
	Freezing/Chilling					3, 4		
	Instant quick freezers	1, 2, 3, 4			Freezing			
1	Nitrogen freezers	1, 2	Poly-Pound® Solution® or		Instant quick freeze conveyors	1, 2, 3, 4	Poly- solid	
•	Spiral freezers	1, 2, 3, 4	Poly-Round® Solution® or solid lubricated ball bearings		Nitrogen freezer belt	2,3		
	Modular plastic belt conveyors	1, 2, 3, 4		9	Spiral freezers	1, 2, 3, 4		
	,) JI 4			Modular plastic belt conveyors	1, 2, 3, 4		
	Packaging		Dadial Dalis Dassad@aadaalid		Metal detectors	1, 2,	1	
	Scales	2, 3	Radial Poly-Round®and solid lubricated radial ball bearings, and scale links			3, 4		
	D 1				Pac Out	I	D 1:	
_	Packaging machines, tray	1, 3, 4	solid lubrication Poly-Round® Solution® or		Scales	2,3	Radi	
5	Shrink wrap machines	1, 2, 3, 4	solid lubricated ball bearings	10	Shrink wrap tunnels	1, 2, 3, 4	Poly- solid	
	Baggers	1, 3, 4	Radial ball bearings with solid lubrication	TO	Packaging machines: tray	1, 3, 4	Radi	
	Modular plastic belt conveyors	1, 2, 3, 4	Poly-Round® Solution® or		Packaging machines	1, 3, 4	Radi or so	
	Metal detectors	1, 2,	solid lubricated ball bearings		Baggers	1, 3, 4	Radi Poly-	
		3, 4			Metal detectors	3, 4	solid	

ns for cha	llenge:	s and EDT bearing Sol	ution			
			ther Pr	rocessing		
	Station	Applications / Machinery	Issues	EDT Product Solution		
irings,		Mixing Ribbon screw mixer/blender	2, 3, 4	Type E Solution® and RPB (split) interchanges		
earings	6	Screw conveyors	2, 3, 4	Type E Solution®, RPB Solution® and RPB (split) interchanges		
		Dumpers	1, 2, 3, 4	Poly-Round® Solution® or solid lubricated ball bearings		
		Forming				
rings		Injectors	1, 2, 3, 4	Poly-Round® Solution® or solid lubricated ball bearings		
		Process equipment: mounted bearings	5	Solution® eccentric solid lubricated ball bearings		
ated	7	Process equipment: radial bearings	1, 3, 4	Solution® solid lubricated ball bearings		
	_	Wire belt conveyors	1, 2, 3, 4			
		Modular plastic belt conveyors	1, 2, 3, 4	Poly-Round® Solution® or solid lubricated ball bearings		
		Metal detectors	1, 2, 3, 4			
		Frying/Cooking				
d		Breaders	1, 2, 3, 4	Solution® solid lubricated ball bearings		
solid		Branders	1, 2, 6	High temp Poly-Round® Solution®		
	8	Oven support bearings	1, 2, 6	High temp Poly-Round® Solution® or solid lubricated ball bearings		
ric solid		Modular plastic belt conveyors	1, 2, 3, 4			
		Wire belt conveyors	1, 2, 3, 4	Poly-Round® Solution® or solid lubricated ball bearings		
		Metal detectors	1, 2, 3, 4			
		Freezing				
		Instant quick freeze conveyors	1, 2, 3, 4			
		Nitrogen freezer belt	2,3			
	9	Spiral freezers	1, 2, 3, 4	Poly-Round® Solution® or solid lubricated ball bearings		
		Modular plastic belt conveyors	1, 2, 3, 4			
		Metal detectors	1, 2, 3, 4			
		Pac Out				
	10	Scales	2,3	Radial Poly-Round® and solid lubricated radial ball bearings, and scale links		
		Shrink wrap tunnels	1, 2, 3, 4	Poly-Round® Solution® or solid lubricated ball bearings		
		Packaging machines: tray	1, 3, 4	Radial ball bearings with solid lubrication		
		Packaging machines	1, 3, 4	Radial ball bearings with food grade grease or solid lubrication		
		Baggers	1, 3, 4	Radial ball bearings with solid lubrication		
		Metal detectors	1, 2, 3, 4	Poly-Round® Solution® or solid lubricated ball bearings		

EDT Products

Poly-Round® bearings





EDT polymer plane bearings are the most efficient and effective way to eliminate lubricants when grease is a problem. Wash down, extreme temperatures, chemicals, incomplete rotation, and abrasives degrade ball bearings; Poly-Round® inserts of the appropriate material for the application can withstand these environments.

- USDA accepted
- 100% grease-less; zero rust
- Variety of polymer inserts, including metal detectable
- Optically detectable blue housings available
- Long and predictable operation can be extended with 180° rotation of the insert when worn too far in one direction
- Fully split units available
- Shaft sizes 1/2" to 4" (12.7mm to 101.6mm); all housing styles in stainless or exclusive 'KG' polymer

Mounted ball bearings



Stainless steel or 'KG' polymer material bearing housings with a wide selection of ball bearing inserts to choose from.

- Stainless steel or other material
- Set screw locking or eccentricValue, Classic or Choice inserts
- Greased or solid lubricated
- Available for every shaft size from 1/2" to 3-7/16" (15 mm to 90 mm)
- Good stock

housings available

Custom housings are availableBlue optically detectable polymer

High temp bearings



Wide selection of Poly-Round® and stainless ball bearings for high temp applications

- 100% grease-less
- · Bearings available:
- –Poly-Round® inserts for temperatures up to 1000°F/ 540°C
- Fixed and floating to accommodate thermal expansion
- -Ball bearings with solid lubricants; various to 650°F/343°C
- Housings available:
- Machined stainless (optional split)
- Cast stainless
- Mild steel

Type E Solution[®] bearings



EDT's Type E Solution® bearings are designed to operate where tapered roller bearings do not perform adequately, often subjected to process or wash down moisture or where food safety is a concern.

- USDA/NSF accepted
- Housing and bearings 100% rust free
- Maintenance free: 100% grease-less
- Can be mounted directly over the food product zone
- Available in pillow block, 4-bolt, and piloted styles
- Split units available

Solid lubrication



With increasingly stringent food safety mandates, solid lubricants can be effective alternatives to grease. Solid lubes help exclude contaminants from interfering with rolling activity by filling the area around the balls. They eliminate issues of over-greasing, using the wrong kind of grease, or a lack of grease.

Options for polymer-based (EPL) and graphitebased (EGL) solid lubricants with:

- Food grade and non-food formulations
- Capacity for operating in temperatures from -250°F to +650°F (-157°C to 343°C)
- Seals and/or flingers are reinstalled, but bearings can also be provided with the solid lubricant open for visual inspection and maximum content

Choose lube based on operating environment; consider moisture, contamination, temperature, requirement for low friction, vacuum, or other circumstances.

Radial Poly-Round® bearings



EDT Radial Poly-Round® bearings (RPR's) are manufactured from bearing grade polymers and 316 stainless components, and are designed to directly retrofit deep groove ball bearings and other styles of radial bearings.

- USDA accepted
- 100% non-corrosive, zero rust
- Well-suited to HACCP/HARPC programsChoice of polymers depending on the
- application
- Available in most radial bearing sizes
 Contains configurations available.
- Custom configurations available

Applications



'NA' Poly-Round[®] Solution[®] located



'NA' Poly-Round[®] Solution[®] on idle end of breast incline

directly over a food product zone

Low temperature solid lube allows ball bearing to operate reliably in freezers



Radial Poly-Round® (RPR) bearings retrofit radial ball bearings and eliminate rust on weigh scale buckets



wrap tunnels





'FA' Poly-Round® Solution® on horizontal mixer







back seal work well as EDT Breader Bearings



'QF' bearings on Fessman ovens

10 EDT bearings run cleaner and last longer than original equipment bearings on weigh scales and packaging machines

'NA' Poly-Round® on a

continuous cooker



'ON' Poly-Round® is detectable 3 ways: metal, x-ray and optically





BY TIMKEN Contact EDT Corp

1006-J NE 146th Street Vancouver, WA 98685-1411, USA Phone: 360.574.7294 Fax: 360.574.3834 Email: salesedt@timken.com Website: www.edtcorp.com

LITB210-0218