

TIMKEN

STRONG AND RELIABLE PRODUCT SOLUTIONS FOR FRYER AND OVEN APPLICATIONS



Timken® Corrosion-Resistant Ball Bearing Housed Units with FVSL525 Solid Lube and three types of Timken® Poly-Round® Housed Units provide exceptional performance in these high temperature and harsh contaminant environments. We engineer them to:

IMPROVE FOOD SAFETY

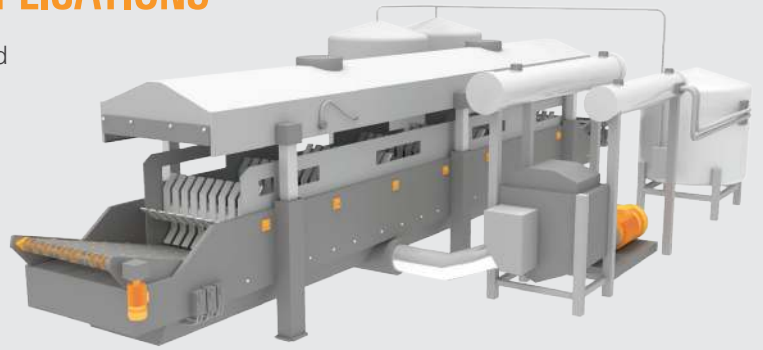
INCREASE UPTIME

REDUCE MAINTENANCE COSTS

TIMKEN SOLUTIONS FOR FRYER APPLICATIONS

Tunnel or paddle fryers, commonly used for snack food and protein products, face specific application challenges with bearings submerged in high temperature oils. Direct food contact, presence of debris and frequent wash-downs are additional challenges. Timken products are engineered to excel in these tough conditions.

Bearing locations: Produce belts, hold down belts, crumb belts, paddle wheel.



FA AND FE POLY-ROUND® HOUSED UNITS

Improve food safety, and increase uptime with Timken FA and FE Poly-Round bearings, our premium solution for fryer applications.. The maintenance free and lubrication free engineered polymer plain bearing are the right choice for fryer applications. *In applications with high loads, high speeds or high tension, our ball bearing solution may be more appropriate.**

- » Ideal for high temperature fryer oils
- » Good for temperatures up to 260° C (500° F)
- » Eliminates failure due to water ingress and corrosion
- » No lubrication needed; maintenance free
- » Long and predictable operations equals increased uptime
- » Excellent performance in chemical and high pressure washdown
- » USDA equipment acceptance for hygienic design
- » FDA compliant for direct contact
- » Complies with EU 10/2011 for direct contact (FE only)
- » FA Size range shaft size 12.7 mm – 101.6 mm (½ in. – 4 in.)
- » FE Size range shaft size 12.7 mm – 50.8 mm (½ in. – 2 in.)



CORROSION-RESISTANT BALL BEARING HOUSED UNITS WITH FVSL525 SOLID LUBE

Timken FVSL525 Solid Lube is a graphite based, high-temperature, solid lubrication that replaces the typical grease in a Corrosion-Resistant Ball Housing Unit. The solid lubricant helps keep out contaminants and is maintenance free.

- » Ideal for use with high temperature fryer oils
- » Ball bearings equipped with high temperature graphite solid lube
- » Improved ingress protection
- » Solid Lube helps exclude contamination from abrasive breading materials
- » Appropriate for applications with high loads, high speeds or high tension
- » Maintenance-free (lubed-for-life)
- » Solid Lube does not leak; improving food safety
- » Good performance in high pressure and chemical washdown
- » NSF H1-registered lubricant – approved for incidental contact
- » Size range shaft size 20 mm – 50 mm (¾ in. – 2 in.)

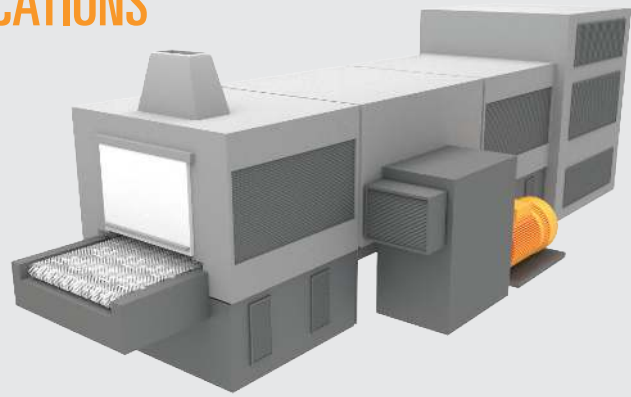


*Contact your Timken Sales Engineer for details on these limitations and the appropriate bearing solution for your application.

TIMKEN SOLUTIONS FOR OVEN APPLICATIONS

High temperature and thermal expansion are challenging conditions found in tunnel ovens used to bake proteins, snacks food, cereals and pet food. Timken maintenance free solutions are engineered to excel in these tough conditions.

Bearing locations: Support rollers under product belt, return idler rollers.



QF POLY-ROUND® HOUSED UNITS

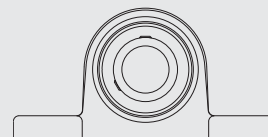
Improve food safety and increase uptime with Timken QF Poly-Round bearings for oven applications. The engineered polymer plain bearing is designed for high temperatures with a unique locking sleeve designed for thermal expansion.

- » Polymer bearing designed for high temperature oven applications
- » Good for temperatures up to 232° C (450° F)
- » Available high temperature fixed (LKHV) and float (LKHE) locking sleeve
- » Engineered polymer insert eliminates failure due to water ingress and corrosion
- » No lubrication needed; maintenance free
- » Long and predictable operation; increasing uptime
- » Excellent performance in chemical and high pressure washdown
- » USDA equipment acceptance for hygienic design
- » Size range shaft size 12.7 mm – 101.6 mm (½ in. – 4 in.)

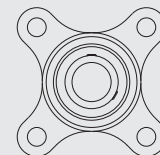


HOUSING MATERIALS AND STYLES

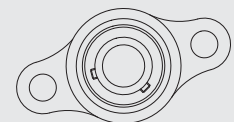
Fryer and oven bearings are available with cast stainless housings or USDA approved hygienic stainless steel housings for increased food safety.



Pillow Block



4-Bolt Flange

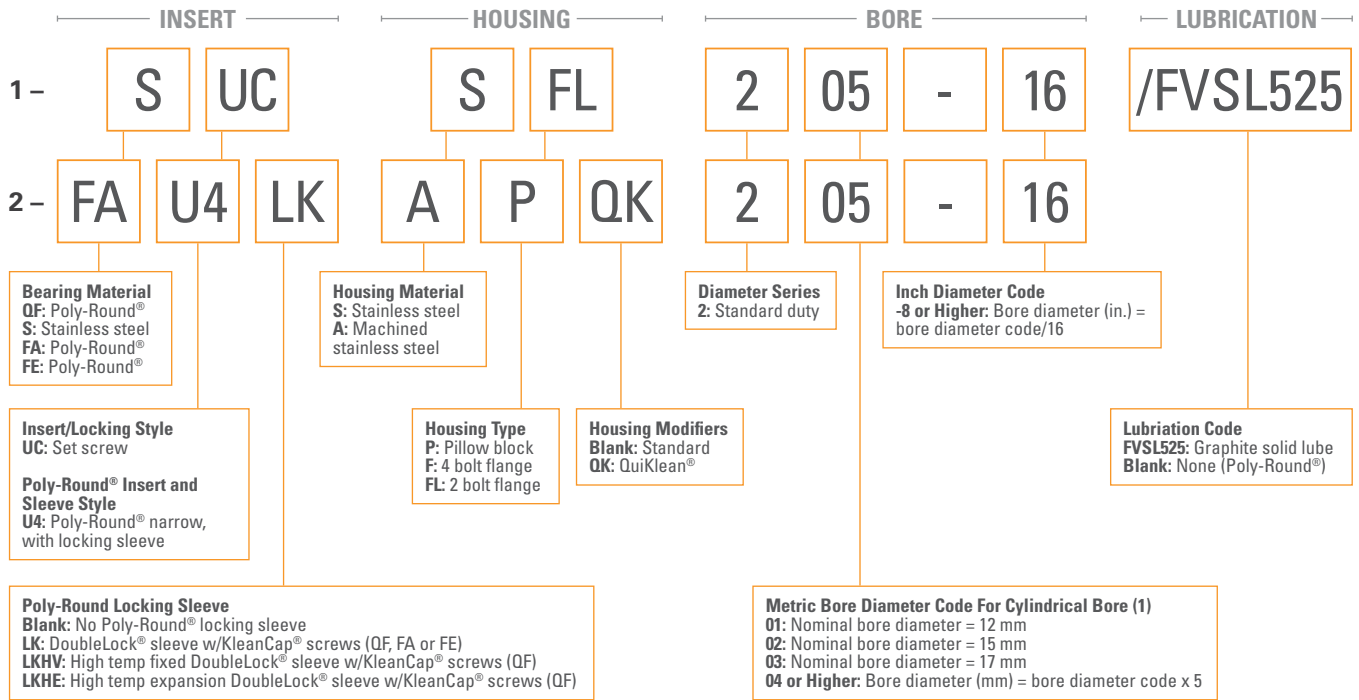


2-Bolt Flange

NOMENCLATURE

1 – TIMKEN® CORROSION-RESISTANT BALL BEARING HOUSED UNITS WITH SOLID LUBE

2 – TIMKEN® POLY-ROUND® HOUSED UNITS



FOR CUSTOM OPTIONS, PLEASE CONTACT YOUR TIMKEN SALES ENGINEER.

TIMKEN

The Timken team applies their know-how to improve the reliability and performance of machinery in diverse markets worldwide. The company designs, makes and markets bearings, gear drives, automated lubrication systems, belts, brakes, clutches, chain, couplings, linear motion products and related power transmission rebuild and repair services.

Stronger. By Design.

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