

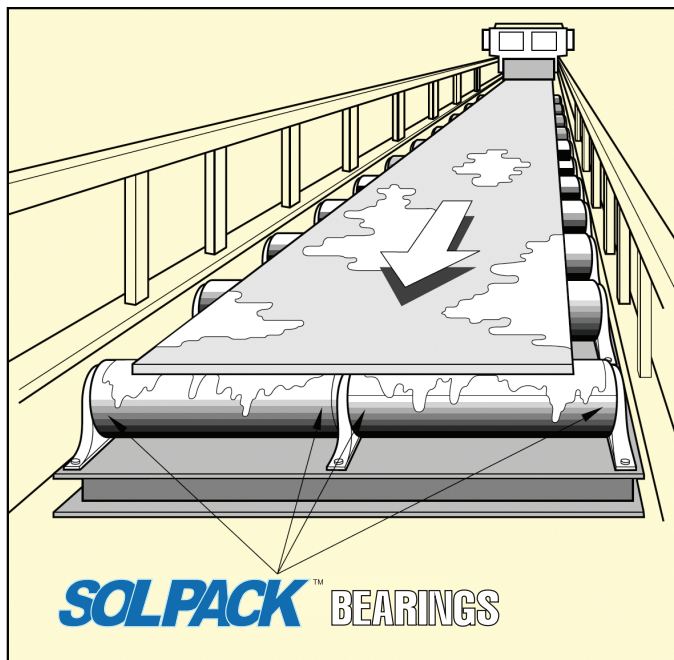
SOLPACK™ **Solid Lubrication** **Bearings**

SOLPACK™ BEARINGS

Koyo Solid Lubrication Technology



Koyo Solpack™ bearings come pre-filled with a solid polymeric lubricant. Solpack bearings are available as deep groove ball bearings and spherical roller bearings (with OD of 200 mm or less). Typical applications where Solpack bearings are used include food processing lines such as canning or pickling lines, washing facilities, or plating lines.



Benefits Include:

- Long life and maintenance free
- Low torque
- No lubricant required
- Limits ingress of water and dust into bearing

Allowable Operating Range:

Operating temperatures from 15° to 80° C
(60°C or less at high rotation speeds)



Koyo®

Koyo® SOLPACK™ BEARINGS

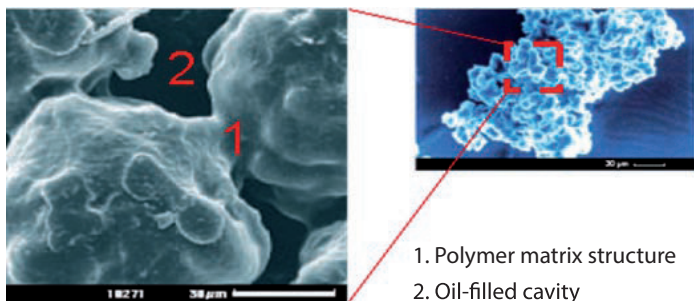
Koyo Solid Lubrication Technology

Introduction

Solid lubrication is an alternative lubricant for bearings. It was developed by Koyo for applications where oil or grease does not provide the best lubrication solution.

What is solid lubrication?

- It is a compound of a specially developed polyethylene, synthetic oil and carefully selected additives.
- The oil content in Koyo solid lubrication is ~70%.
- Its micro porous network (matrix structure) has excellent properties to absorb and provide oil.
- It is injection moulded into the bearing.
- It provides long-lasting (forced) lubrication.



Why use Solid Lubrication?

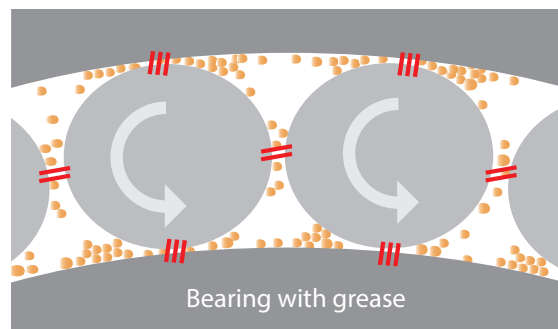
Solid lubrication can improve bearing performance considerably in cases where other lubricants fail to guarantee optimum performance.

Some of the Benefits Include:

- ▶ Lubricant content: Up to 3 times higher compared to standard grease.
- ▶ Extended bearing life (for certain applications up to 10 times longer than conventionally greased products).
- ▶ Extended maintenance intervals - reduced down time.
- ▶ Avoid maintenance in applications where bearings are difficult to reach.
- ▶ Makes oil lubrication circuit/pump redundant.
- ▶ Particularly suitable under severe operating conditions such as high oscillation, moderate speed in combination with high load.

How does it Work?

During standard operation the grease will partly be displaced to areas where it is not needed.



Forced lubrication results in a continuous presence of oil exactly where it is needed.

