

Koyo[®]

RHR Type SPHERICAL ROLLER BEARINGS



KOYO SEIKO CO., LTD.

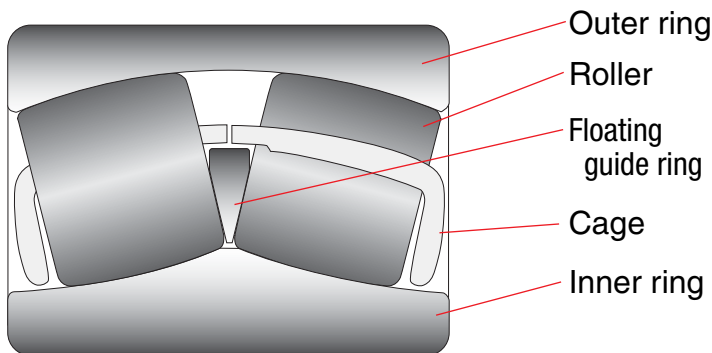
CAT. NO.173E



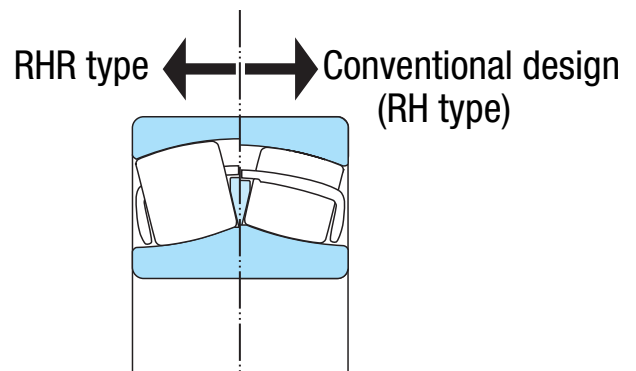
**Supply the new series of spherical roller bearings.
Significant contribution to equipment size reduction based
on the increase in load rating of the bearing.
RHR Type Spherical Roller Bearings**

Structures

■ Cross section of new series



■ Comparison with conventionals



Features

● Long Life

By significant increase in the basic dynamic load rating based on the optimized designs of outer ring, inner ring and rollers. Rating life increase of RHR type may provide max. 2 times longer life than the conventional bearing.

● Improve heat resistant

As RHR type spherical Roller Bearings are implemented dimension stabilizing treatment and steel plate cages are assembled, they can be used up to 200°C.

● Withstands Greater Loads

Optimized shapes of outer/inner rings and rollers ensure ideal bearing stress distribution. Due to this design, these bearings offer substantially increased resistance to impact loads.

● Rotates Stably at High Speeds

The floating guide ring guides rollers precisely. It controls roller skew even under high speed rotation, thereby ensuring stable and reliable operation.

Recommended shaft fits

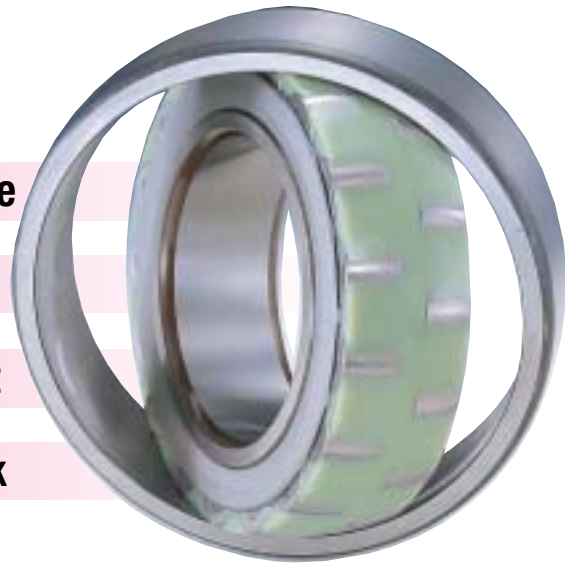
Normal Load ($0.02C_0 < Pr \leq 0.12C$)			Heavy Load ($0.12C < Pr$)			All Loads	
Cylindrical bore, mm		Fit	Cylindrical bore, mm		Fit	Tapered bore	Fit
Over	Up to		Over	Up to			
—	40	k 5	50	100	n 6	All shafts	h 9 / I T 5 (For transmission shafts) h 10 / I T 7
40	65	m 5	100	140	p 6		
65	100	m 6	140	150	r 6		
100	140	n 6					
140	150	p 6					

SOLPACK BEARINGS®

Koyo SOLPACK Bearings are new bearings in which the internal space is filled with solid polymeric lubricant. High performance is expected under most severe conditions such as water splash.

Features

- Longer life and maintenance-free
- Low torque
- Prevent emulsifying of lubricant
- Keep clean the work shop from oil leak



Performance

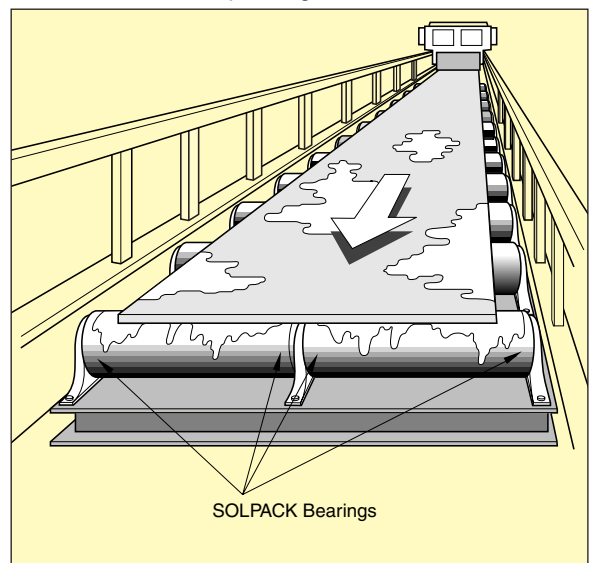
- Manufacturing range: Bearing outside dia. - up to 250 mm
- Operating temperature: -15 to 80°C
(60°C or less on outer ring)
- Limiting speed: 50000 (value of dmn)
 $dmn = (d + D)/2$ (mm) \times rotational speed (min^{-1})

Applications

Washing facilities, plating lines, canning lines, food processing lines and out door equipment etc.

SOLPACK Bearings include spherical roller bearings, deep groove ball bearings and cylindrical roller bearings.

Carrier rollers for pickling line



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