Inch Series, SAFC/SAFD Plummer Blocks

High-strength plummer blocks with a new design, resistant to shock and vibration

X bar shape on bottom for reinforcement

Features

① **High strength**	X bar shape on bottom to help reinforce base, greater thickness of top and side parts for reinforcement
② **Dust and moisture resistant**	Prevents ingress of water, mud, and debris by using labyrinth seals
③ **Improved ease of handling**	Use of alignment pins in the base for easier mounting and removal of outer housing halves
④ **Multi-purpose**	Enables mounting of accessory parts (taconite seal, closing cover, etc.) to suit various environmental needs

Specifications

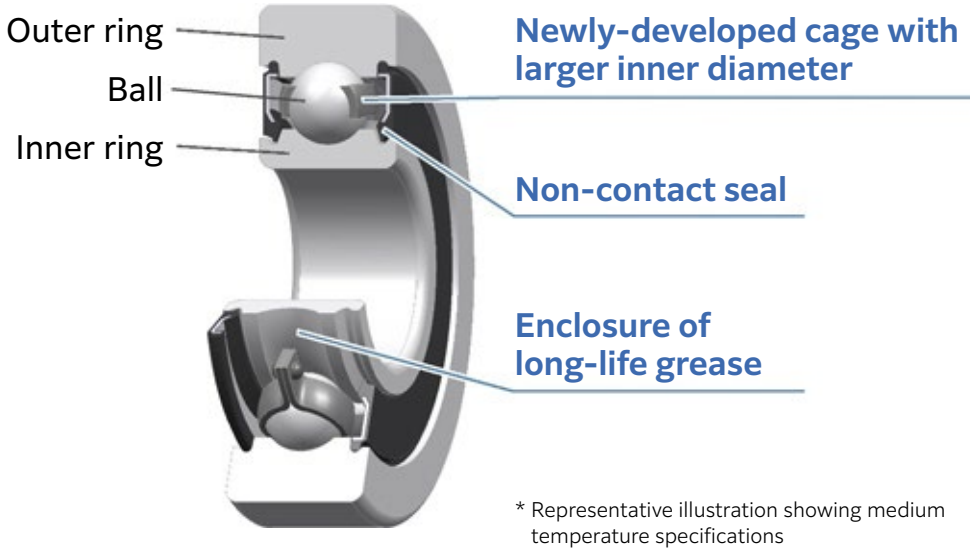
Material	Gray cast iron (SAFC series) Ductile cast iron (SAFD series) 15 % increase in static fracture strength (compared to SAFC)
Size	SAFC/SAFD509 – SAFC/SAFD544
Shaft diameter	φ1-7/16 inch (φ36 mm) – φ7-15/16 inch (φ202 mm)

Application

Steel facilities, mine facilities, transportation port facilities, etc.

Tenter Clip Bearings for Film Stretching Machine

Low torque and high durability, while dramatically improving grease leak resistance



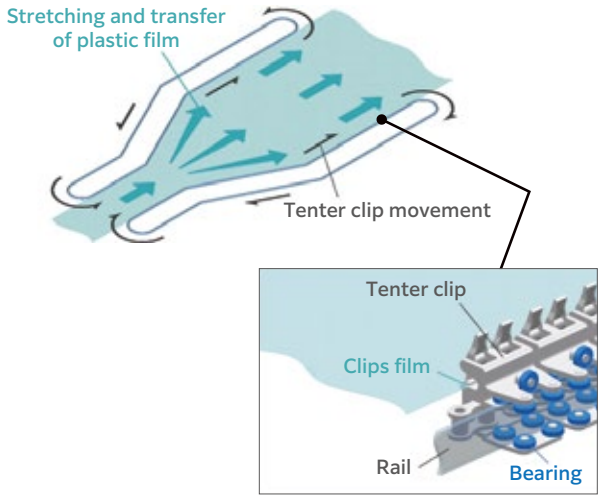
* Representative illustration showing medium temperature specifications

Features

① **High reliability**	Grease leakage reduced by 70 % (compared to conventional product)
② **High durability**	Seizure resistance improved by 40 % (compared to conventional product)
③ **Low torque**	Bearing rotational torque 1/4 that of a contact seal bearing

Applications

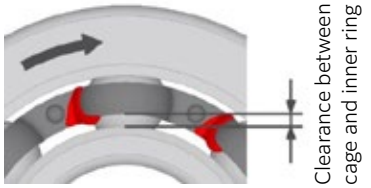
Guide rollers for tenter clips of film stretching machines
Lineup includes:
1) Medium-temperature specifications for bearing temperatures up to 230 ℃*
2) High-temperature specifications for bearing temperatures up to 300 ℃



Structure

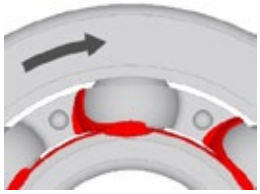
By using a newly-developed cage with larger inner diameter and long-life grease, together with a non-contact seal bearing, this product achieves both low torque and grease leakage resistance, and improved seizure resistance

Developed product



Movement of grease to the outer diameter side of the inner ring is suppressed and flow to the outside is prevented by optimizing clearance between the cage and inner ring.

Conventional product



Grease scraped from the ball surface by the cage may accumulate on the inner diameter surface of the cage, move to the outer diameter surface of the inner ring, continue on to the seal groove, and flow to the outside.