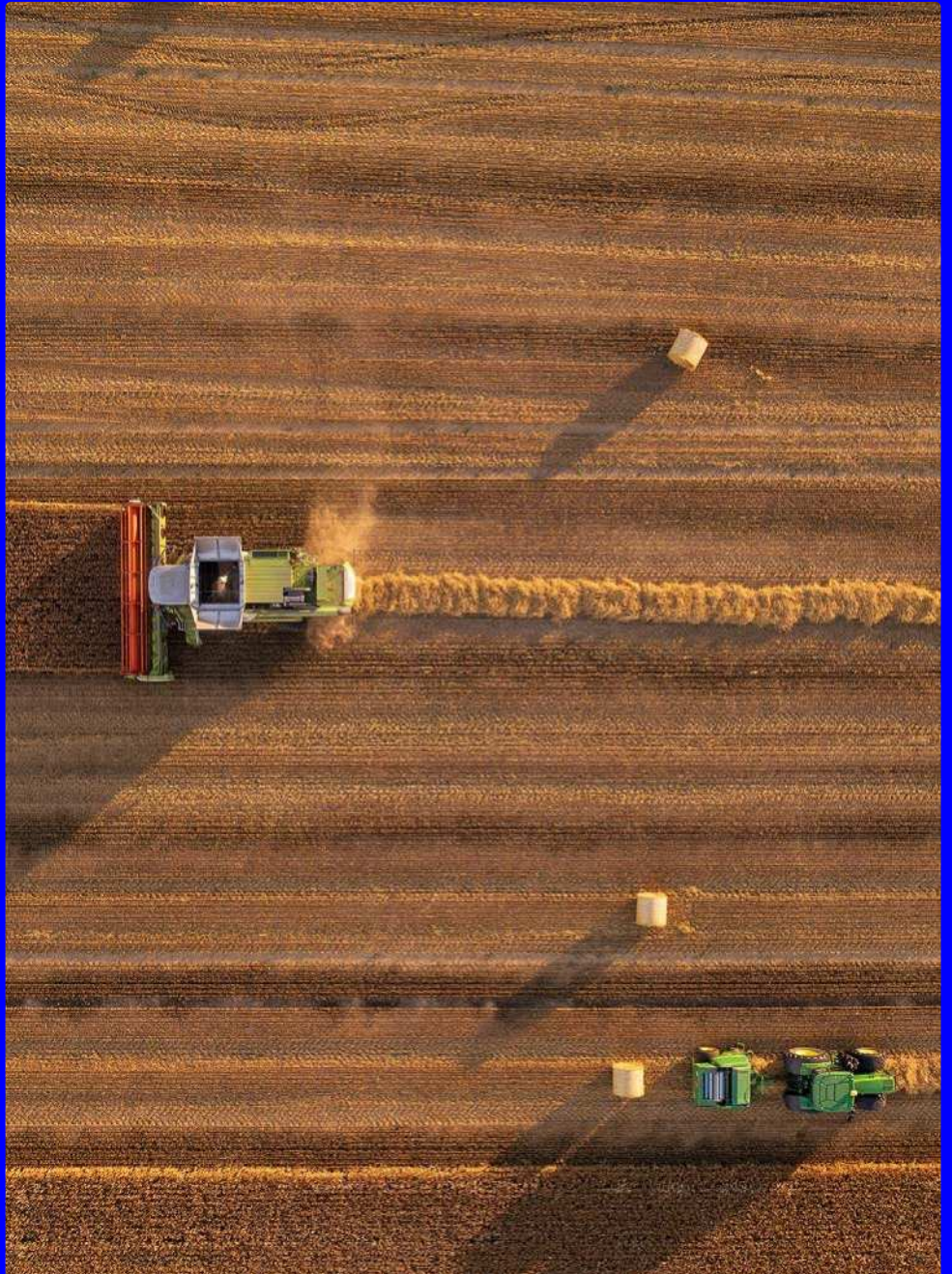


SKF

A RELIABLE SOLUTION FOR AGRICULTURAL MACHINES

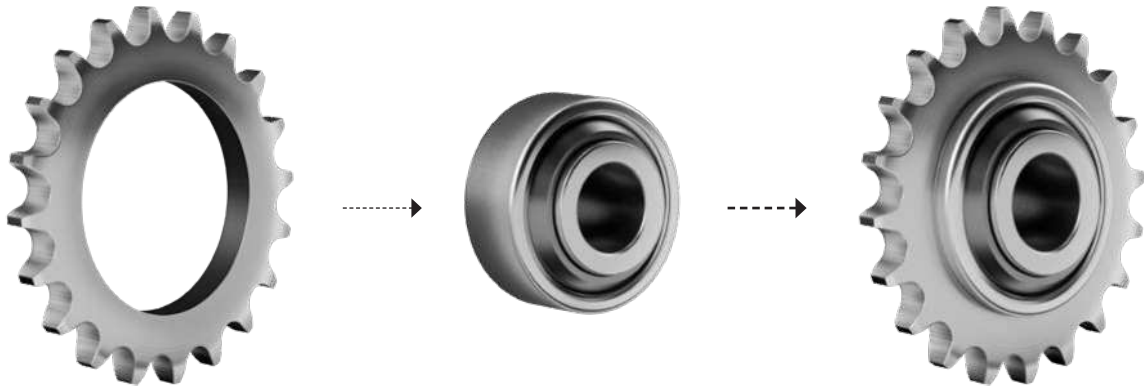
SKF Idler sprocket unit



Idler sprockets fail for several reasons, such as contamination, teeth wear, and improper fitting. To meet these challenges, the SKF Idler sprocket unit provides a reliable, ready-to-mount solution that integrates SKF's bearing and sealing expertise for enhanced durability and performance in agricultural equipment.



A reliable sprocket unit for agricultural machines



A failing idler sprocket often leads to time-consuming and complex maintenance in the field. This is particularly inconvenient during harvesting or baling in remote areas of large fields. Some of the most common reasons for idler sprocket failure include contamination due to insufficient sealing, teeth wear due to materials and processes with a lower durability, and improper fitting of the bearing in the sprocket. To solve these problems, we have developed the SKF Idler sprocket unit. This ready-to-mount solution combines SKF bearing and sealing know-how with experience from power transmission to create a highly reliable product.

Ready-to-mount solution

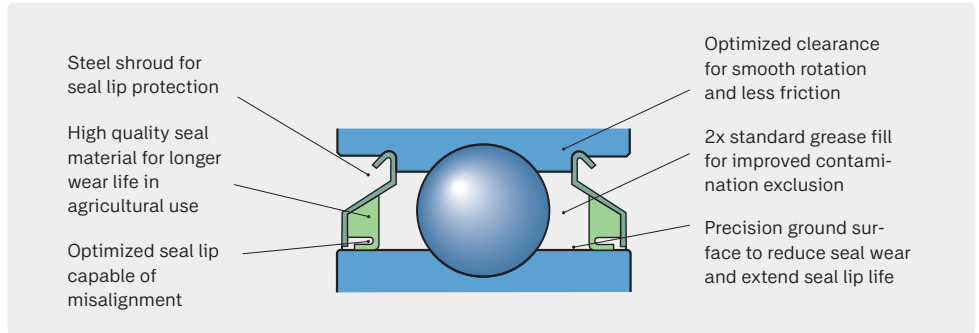
- Forged sprocket and agricultural bearing
- Perfect fit between sprocket and bearing
- All components from one supplier

Long sprocket and bearing life

- Less downtime
- Lower maintenance cost
- Higher machine efficiency

Sealed to keep contaminants out

SKF Idler sprocket units are equipped with specially designed seals for agricultural use. Sealed bearings have proven to perform better in highly contaminated environments, improving farmers' outcomes. They can help improve machine performance, extend bearing life and maintenance intervals, and reduce downtime and total cost of ownership.



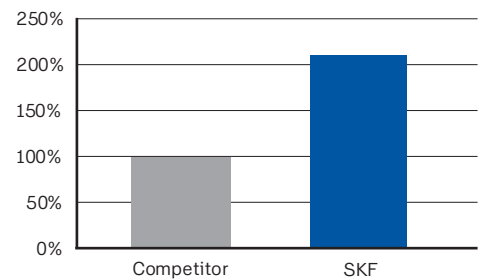
Tested in tough conditions

The bearings were tested during an internal SKF mud slurry test. In this test, they were run half-submerged in a mud slurry at 500 r/min with an applied axial load until contamination passed the seal. Under these test conditions, the SKF product significantly outperformed a competitor product of comparable type and quality commonly used in agricultural applications.

Mud slurry testing conditions

- Slurry mix: coarse test dust, water, fertilizer, calcium chloride
- Slurry to bearing centerline
- Speed = 500 r/min
- Axial load

Mud slurry test



Forged for wear, customizable for flexibility

All SKF Idler sprocket units are forged from medium carbon steel and can be provided with hardened teeth. This results in a highly durable sprocket that helps reduce downtime.

SKF Idler sprocket units are manufactured according to BS/ISO standards and can be made to order, including these customizations:

- Black oxide or zinc coating available for corrosion protection
- Induction-hardened teeth for strong wear resistance and longer life
- ANSI/ASA specifications on request



Standard



Black oxide



Zinc plated

Standard range offer

- Forged sprocket, non-hardened
- No coating
- Typical machines: seeding, grain drill, spreaders/ wagons, bale wrappers, etc.

Customized offer

- Hardened teeth
- Coating for corrosion resistance
- Special dimensions
- Typical machines: corn heads, combine harvesters, round balers

All SKF Idler sprocket units are manufactured from medium carbon steel and comply with ISO chain standards. The units are fully interchangeable with equivalent competitor products listed in the table below.

SKF	INA	Chiaravalli standard	Chiaravalli premium (with INA bearing)	IWIS	KRAMP	SATI	GRANIT	Garotti	Norelem
PHSU 06B1A20-S16M	KSR16-L0-06-10-20-08	-	-	-	-	-	-	-	-
PHSU 08B1A16-S16M	KSR16-L0-08-10-16-08	30012016	30012116	051-012-016	SW1216	PC 09016	83783708	TC1/2Z16	22280-012051616
	KSR16-L0-08-10-16-15	-	-	-	-	-	-	-	-
PHSU 08B1A18-S16M	KSR16-L0-08-10-18-08	30012018	30012118	051-012-018		PC 09018	83783709	TC1/2Z18	22280-012051618
	KSR16-L0-08-10-18-09	-	-	-	-	-	-	-	-
	KSR16-L0-08-10-18-16	-	-	-	-	-	-	-	-
PHSU 10B1A14-S16M	KSR16-L0-10-10-14-08	30015014	30015114	051-015-014	SW5814	PC 10014	83783710	TC5/8Z14	22280-058030814
PHSU 10B1A17-S16M	KSR16-L0-10-10-17-08	30015017	30015117	051-015-017	SW5817	PC 10017	83783712	TC5/8Z17	22280-058030817
	KSR16-L0-10-10-17-09	-	-	-	-	-	-	-	-
PHSU 10B1A19-S16M	KSR16-L0-10-10-19-15	-	-	-	-	-	-	-	-
PHSU 12B1A13-S16M	KSR16-L0-12-10-13-08	30019013	30019113	051-019-013	SW3413	PC 11013	83783713	TC3/4Z13	22280-034071613
	KSR16-L0-12-10-13-16	-	-	-	-	-	-	-	-
PHSU 12B1A15-S16M	KSR16-L0-12-10-15-08	30019015	30019115	051-019-015	SW3415	PC 11015	83783714	TC3/4Z15	22280-034071615
	KSR16-L0-12-10-15-09	-	-	-	-	-	-	-	-
PHSU 12B1A17-S16M	KSR16-L0-12-10-17-15	-	-	-	-	-	-	-	-
	KSR16-L0-12-10-17-16	-	-	-	-	-	-	-	-
PHSU 12B1A20-S16M	KSR16-L0-12-10-20-15	-	-	-	-	-	-	-	-
PHSU 16B1A12-S20M	KSR20-L0-16-10-12-15	30025012	30025112	051-025-012		PC 12012	83783715	TC1Z12	22280-100170212
	KSR20-L0-16-10-12-16	-	-	-	-	-	-	-	-
PHSU 20B1A09-S25M	KSR25-L0-20-10-09-16	-	-	-	-	-	-	-	-
PHSU 20B1A13-S25M	KSR25-L0-20-10-13-15	30031013	30031113	051-031-013		PC 13013	83783716	TC11/4Z13	

The Idler Sprocket Unit is used across a wide range of industrial applications, including conveyor systems, material handling equipment, and automated machinery.

By maintaining proper chain tension and alignment, it helps ensure smooth operation while reducing wear and tear on the system.





skf.com

® SKF is a registered trademark of AB SKF (publ).

© SKF Group 2026. All rights reserved. Please note that this publication may not be copied or distributed, in whole or in part, unless prior written permission is granted.

Every care has been taken to ensure the accuracy of the information contained in this publication, but no liability can be accepted for any loss or damage whether direct, indirect or consequential arising out of the use of the information contained herein.

PUB 46/S2 19966/1 EN · January 2026

Certain image(s) used under license from shutterstock.com