

# SKF self-aligning ball bearings for the textile industry

## Features

- Self-aligning up to a maximum of 3 degrees depending on series and design
- Virtually no risk of sliding during start-ups and light-load conditions
- Extremely low friction offers minimum operating temperature combined with high speed capability
- Sealed versions provide robust protection in harsh environments
- E design bearings with optimized internal geometry offer maximum load capacity

## Benefits

- Long and reliable bearing service life
- Lower maintenance and operating costs
- Increased uptime and productivity
- Increased energy efficiency
- Reduced vibration and noise

## Applications

- Spinning machines
- Fabric processing machines

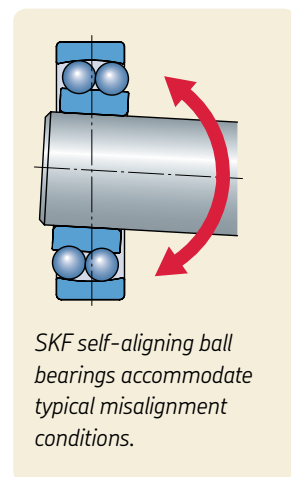


## Designed to handle misalignment, contamination and high speeds

In spinning and fabric processing machines, ring frame shaft and guide roller bearings are exposed to dynamic misalignment, as well as steam, water and chemicals. Different fabric widths exert varying loads on roller shafts and bearings. Such conditions can cause unplanned stops and breakdowns that can negatively impact fabric quality and the bottom line.

SKF self-aligning ball bearings are ideally suited for these textile processing demands. Depending on the series and design, SKF self-aligning ball bearings can accommodate a maximum of up to 3 degrees of misalignment without affecting performance. The bearings can also manage uneven loading across the roller shaft width with extremely low friction.

Because they generate less frictional heat, SKF self-aligning ball bearings can accommodate higher speeds than other types of self-aligning rolling bearings. An exceptionally low minimum load requirement virtually eliminates sliding during start-up and light-load conditions. This reduces the risk of bearing damage, improving reliability, extending bearing service life and reducing maintenance costs.





## A large range of products to meet your needs

To help maximize service life and minimize maintenance in different textile applications, SKF self-aligning ball bearings are available in several designs:



### Open design

The standard option for external lubrication with oil or grease.



### Sealed design

Protected on both sides by rubber seals, this design is intended to retain lubricant and exclude contamination for longer grease life and reliable operation in harsh environments.



### Tapered bore design

Widely used in ring frame main shaft applications, tapered bore bearings are normally mounted to cylindrical shafts with adapter sleeves and can be easily repositioned on the shaft.

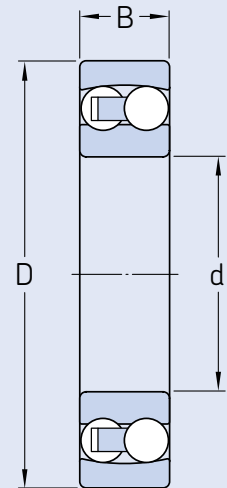


### E design

Able to incorporate more and/or larger balls, this optimized internal design delivers a 30% greater basic dynamic load rating than standard executions, enabling longer service life or bearing downsizing.

### SKF self-aligning ball bearings

Principal dimensions			Basic load ratings		Fatigue load limit	Speed ratings		Designations
d	D	B	dynamic C	static C <sub>0</sub>	P <sub>u</sub>	Limiting speed	Reference speed	
mm			kN		kN	r/min		-
10	30	9	5,53	1,18	0,061	36 000	56 000	1200 ETN9
30	62	16	15,6	4,65	0,24	15 000	24 000	1206 ETN9
30	62	16	15,6	4,65	0,24	15 000	24 000	1206 EKTN9
40	80	18	19,9	6,95	0,36	11 000	18 000	1208 ETN9
40	80	18	19,9	6,95	0,36	11 000	18 000	1208 EKTN9
45	85	19	22,9	7,8	0,4	11 000	17 000	1209 ETN9
45	85	19	22,9	7,8	0,4	11 000	17 000	1209 EKTN9
45	100	25	39	13,4	0,7	8 500	12 000	1309 ETN9
45	100	25	39	13,4	0,7	8 500	12 000	1309 EKTN9
45	85	23	32,5	10,6	0,54	10 000	15 000	2209 ETN9
45	85	23	32,5	10,6	0,54	10 000	15 000	2209 EKTN9
25	52	18	14,3	4	0,21	9 000		2205 E-2RS1TN9
25	62	24	19	5,4	0,28	7 500		2305 E-2RS1TN9
30	62	20	15,6	4,65	0,24	7 500		2206 E-2RS1TN9
35	72	23	19	6	0,31	6 300		2207 E-2RS1TN9
40	80	23	19,9	6,95	0,36	5 600		2208 E-2RS1TN9
50	90	23	22,9	8,15	0,42	4 800		2210 E-2RS1TN9
50	90	23	22,9	8,15	0,42	4 800		2210 E-2RS1KTN9
50	110	40	43,6	14	0,72	4 000		2310 E-2RS1TN9
50	110	40	43,6	14	0,72	4 000		2310 E-2RS1KTN9
25	62	24	17,8	5	0,26	7 500		BJ2-4103



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