

Bearings for Alternator





CAT.NO.B1101E

Bearings for Alternator

Applicable locations



In general, bearings are used on the front and rear sides of the alternator (one bearing for each side) in order to support the rotor.

Ball bearings are used, except in some types of alternators. High-performance bearings are required to satisfy the high temperature and speed requirements as well as to resist water, vibration, etc.

JTEKT has developed high-performance bearings for alternator based on the results of many years of research and offers an outstanding lineup.

History of Development of Bearings for Alternator



Features of Bearings for Alternator

(1) Bearing specifications support high temperatures and speeds as well as providing white structure flaking resistance

A new grease has been adopted to ensure high-temperature/speed performance and anti-white structure flaking properties required for alternator bearings.



(2) Supporting use in harsh external environments

The adoption of the RM seal, featuring advanced water resistance, enables problemfree use of alternators in harsh external environments (water, dust, etc.)



Example of water resistance test

Bearing specifications

SUJ2

Quenched/tempered

SUJ2

Quenched/tempered

Reinforced PA66

RM seal

Heat-resistant nitrile rubber

New grease for alternators

0.1

Standard Specifications of Bearings for Alternator

The specifications of a standard bearing are as described in the table below. High-temperature models (150°C and higher) are also available; please inquire with JTEKT.



Size Lineup for Bearings for Alternator

The following bearing sizes are available.

Please inquire with JTEKT for the selection of bearing clearance.

	Diameter			Basic rated load (kN)		Fatigue load limit(kN)	Basic model no.	Weight (kg)
-	φΑ	φВ	С	Cr	C0r	Cu		(iverenence)
	φ15	φ35	11	9.55	3.75	0.29	6202	0.043
	φ15	φ35	13	9.55	3.75	0.29	6202/1B	0.050
	φ15	φ46	14	16.9	6.55	0.56	DG154614	0.104
	φ17	φ40	12	12.0	4.80	0.37	6203	0.062
	φ17	φ47	14	17.0	6.65	0.56	6303	0.107
	φ17	φ 52	16	19.9	7.85	0.66	DG175216	0.160
	φ17	φ62	21	29.5	12.1	1.05	DG176221	0.311
	φ 25	φ62	17	25.7	11.3	0.86	6305	0.225
	φ 25	φ72	19	33.3	15.0	1.15	6306/2YD	0.369
	φ 30	φ 72	19	33.3	15.0	1.15	6306	0.334



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Value & Technology



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