

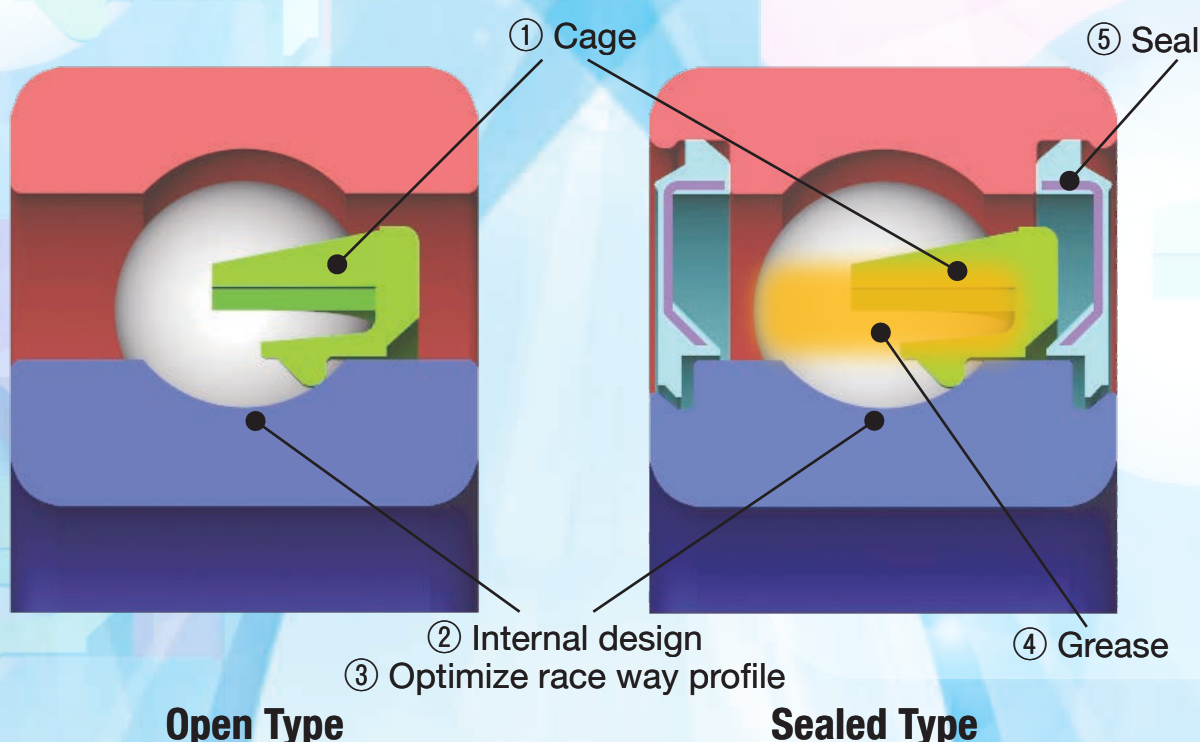
High speed ball bearing for EV motors

Supports "high temperature" and "high speed" required for EV motors

Features

- ① Adoption of JTEKT's original shape cage with excellent high speed Supports $d_m n^{(*)}$ 1.5 million
- ② Internal design with excellent high temperature and high speed
- ③ Improvement of quietness by optimizing the raceway surface properties and improving accuracy
- ④ Adoption of JTEKT's original grease that supports high temperature and high speed
- ⑤ Lineup of open type and sealed type according to the usage environment

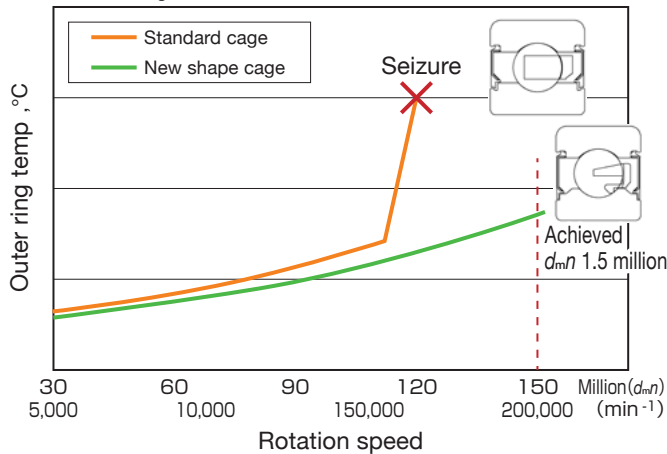
(※) $d_m n$: A value that expresses the rotational performance of a bearing
Pitch circle diameter (mm) x rotation speed (min⁻¹)



Performance

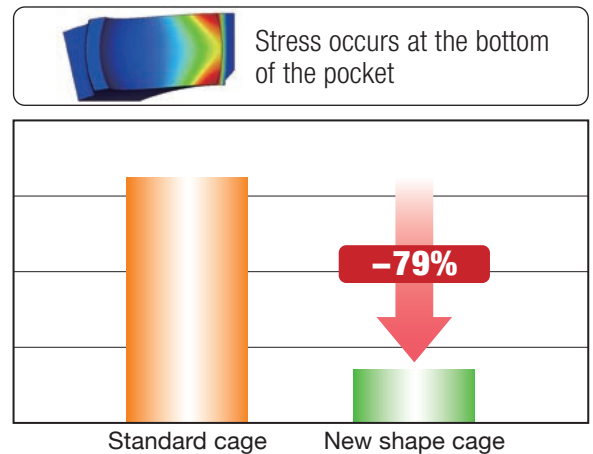
Temperature rise suppression

Reduced temperature rise under high speed rotation by optimizing the internal design



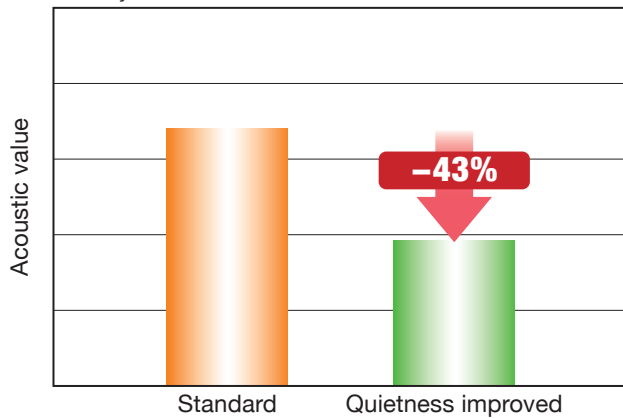
Cage strength

Significantly reduces the stress generated by centrifugal force



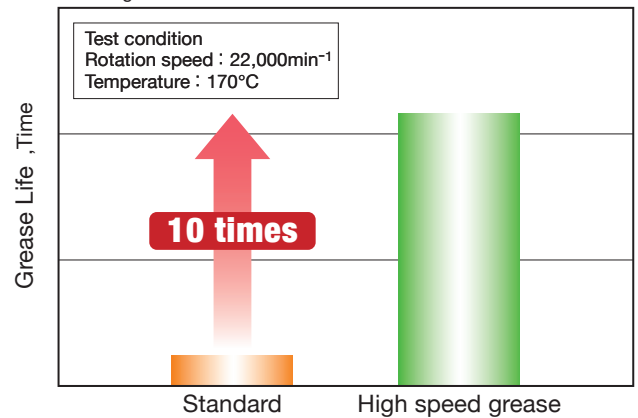
Silence

Reduced acoustic level by the raceway surface properties and accuracy



High temperature and high speed grease

Improved life at high temperature and high speed compared to standard grease



Bearing lineup for high-speed EV

Basic Model number	Boundary dimensions (mm)			Basic load rating (kN)		Limiting speeds (min ⁻¹)
	<i>d</i>	<i>D</i>	<i>B</i>	<i>C_r</i>	<i>C_{or}</i>	
6007	35	62	14	15.9	10.3	30,000
6008	40	68	15	16.7	11.5	27,000

※ Please contact JTEKT as the internal clearance of the bearing is important when using it in other sizes or at high speed rotation.

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