

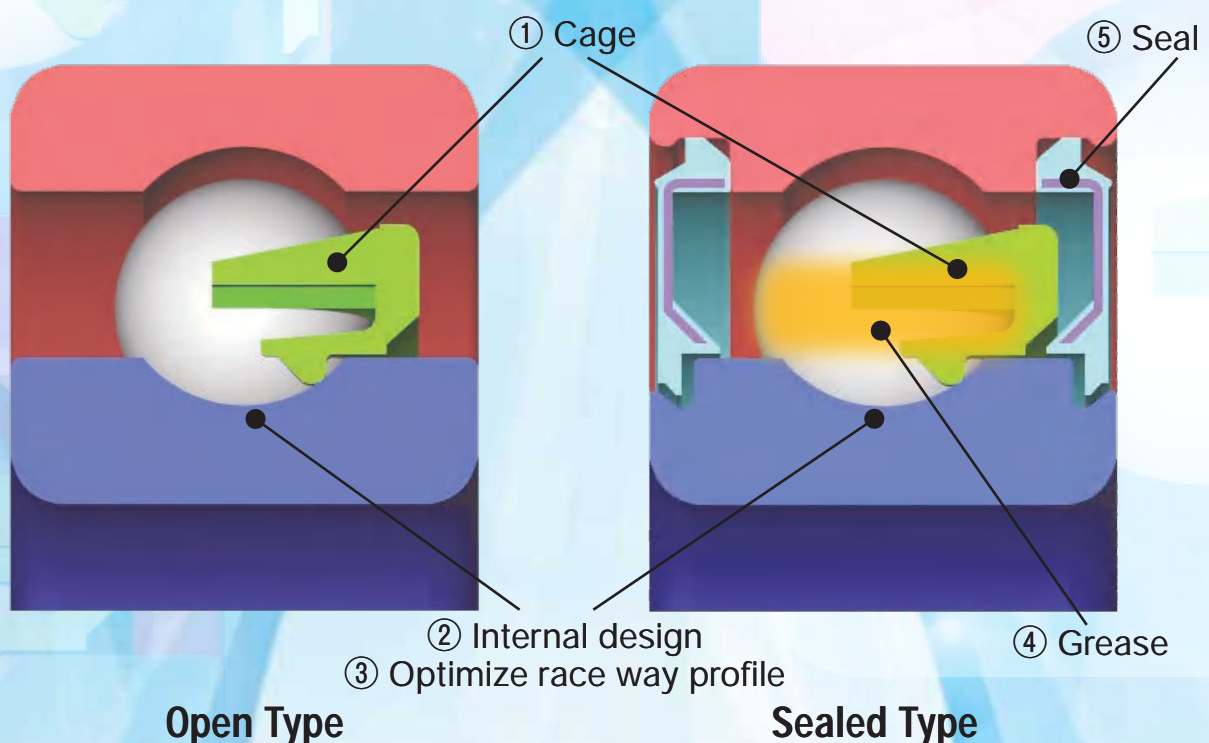
# High speed ball bearing for EV motors

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

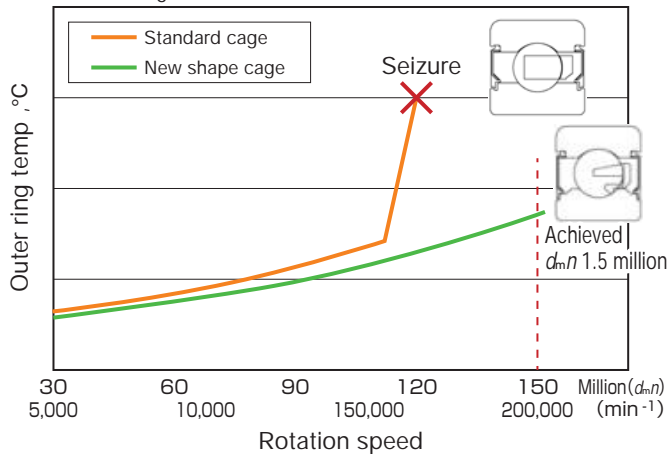
(※)  $d_m n$  : A value that expresses the rotational performance of a bearing  
Pitch circle diameter (mm) x rotation speed (min<sup>-1</sup>)



## Performance

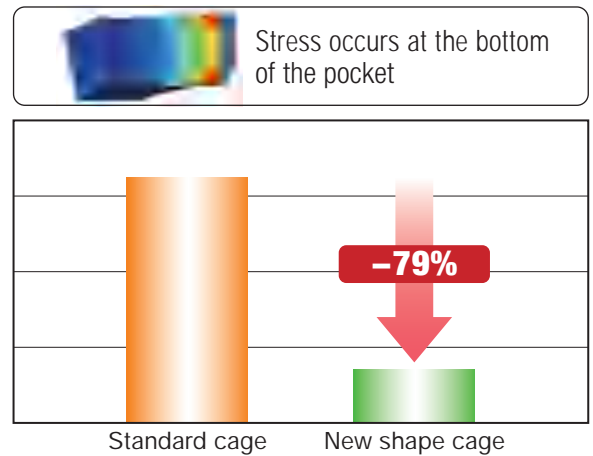
### Temperature rise suppression

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



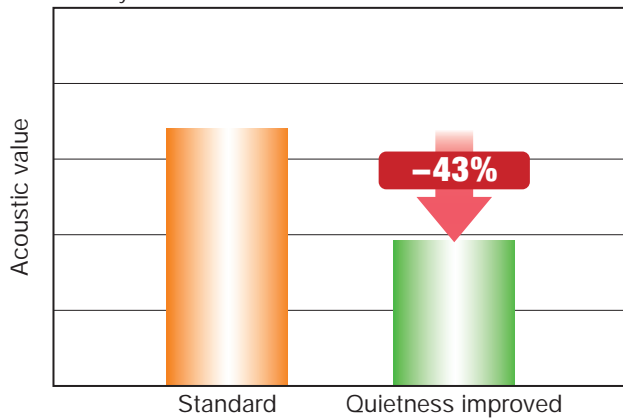
### Cage strength

Significantly reduces the stress generated by centrifugal force



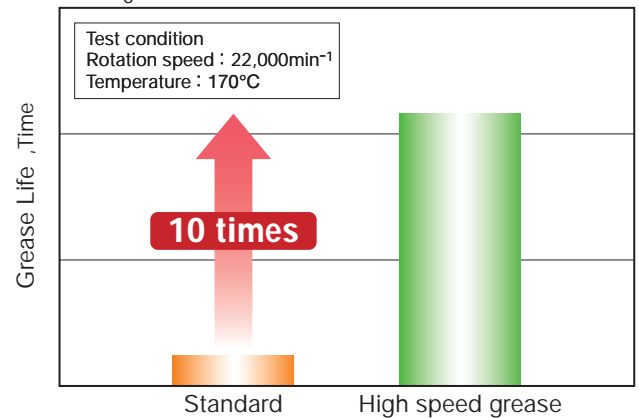
### Silence

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 <sup>-1</sup> )
	<i>d</i>	<i>D</i>	<i>B</i>	<i>C<sub>r</sub></i>	<i>C<sub>or</sub></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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