

Sliding Door Bearings with High Corrosion Resistance



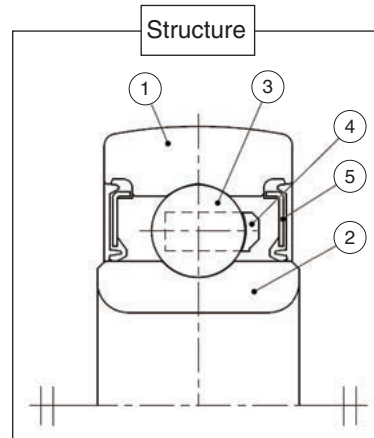
Sliding door bearings for automobiles are used to support sliding doors and allow them to open and close smoothly. In recent years, the mounting location of sliding door bearings has been moving towards the exterior of the vehicle due to the expansion of the vehicle interior. This has worsened the water exposure environment, leading to a problem of rusting on the outside surface of the bearing.

JTEKT has developed a sliding door bearing using a stainless steel material with high corrosion resistance for the outer ring material, which has begun mass production. This bearing is introduced below.

Features

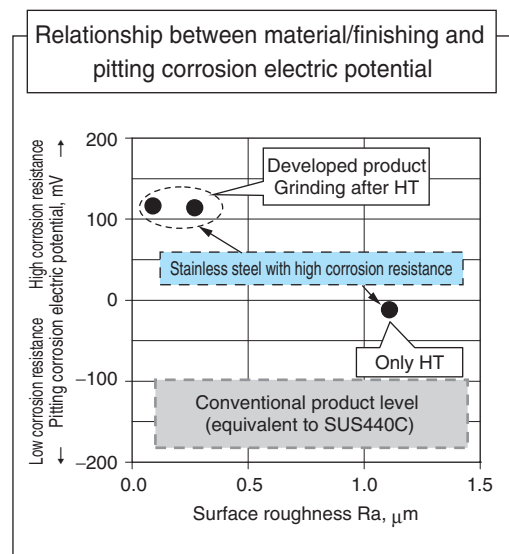
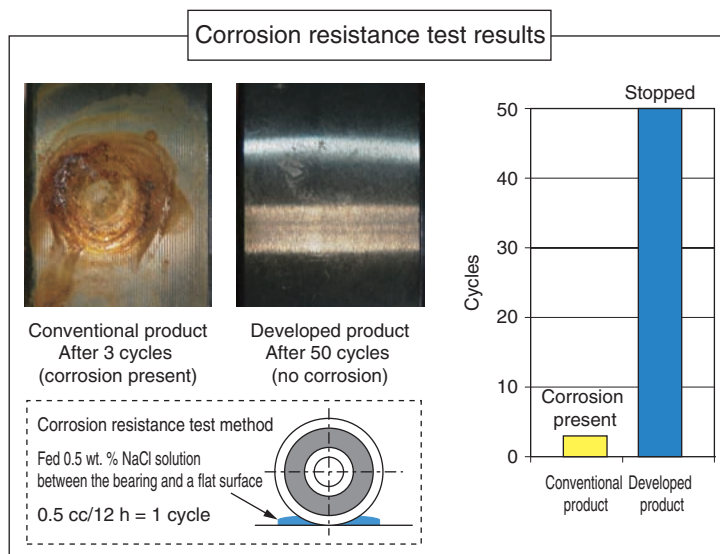
1) Employs a new stainless steel material which has both high corrosion resistance and high strength for the outer ring.

No.	Part name	Material	
		Conventional product	Developed product
①	Outer ring	Equivalent to SUS440C	Stainless steel with high corrosion resistance
②	Inner ring	Carbon steel + coating	←
③	Ball	Carbon steel	←
④	Cage	Polyamide resin	←
⑤	Seal	Mild steel plate + rubber	←



Began mass production at JTEKT plants in Japan in 2016.

2) In order to achieve high corrosion resistance, the externally exposed surface was heat-treated and then grinded to remove the outermost surface layer with low corrosion resistance.



(Central JAPAN Technical Center, Bearing Operations Headquarters)