## NSK-Railway Rolling Stock Bearings

Railway rling stock bearings are important components of rlling stocks that require high reliability

The main bearings consist of axle bearings that are mounted at both ends of axle and support the entire weight of the rlling stock. dditionally, there are railway traction motor bearings that are used for the motor that drives the axle; and gear unit bearigs that transfer the power from the motor to the axle. NSK has designed and manufactured specific bearings for these very applications.

## Types and Features

.. Axle bearings consist of the fllowing types of ,bearings to meet operator demands for high-speed capability of rlling stock, weight reductins, and minimal maintenance and inspection requirements

Cylidnical rllel bearings with a thrust cllar (oil bath lubrication, grease lubrication)

Tapered roller bearings (oil bath lubrication)

Sealed-Clean rotating end cap cylindnical rller bearings (grease lbrication)

Saled-lean rotating end Cap tapered rlll bearings (grease lubrication)

NSK has been approved by AAR (Association of American Railroads). Tration Motor Bearings

, Bearings for inverter contolld AC motors are speciality designed to meet high-speed specifications and requirements for ensuring dimensional stability. NSK recommends long-ltfe grease for these bearings

NSK ffers the fllowing bearings as a measure against electic erosion, which occurs

when electric current is allowed to flow through the motor bearings:
Cramic-insulated bearings (ceramic-coated bearings and PPS-insulated bearings

High capacity bearings also available for locomotive-type large traction motors



