

# NSK BEARING OF STEEL INDUSTRY

In the steel industry, bearings can be found in a vast range of plant and equipment that is used in both upstream and downstream processes: from the storage yard for raw materials to the steelmaking, rolling and refining processes. All kinds of bearings are used in this plant and equipment.

The operational environment for these bearings is unique to steelmaking, comprising steel dust, water and heat. In addition, the bearings may have to cope with heavy loads and vibration shock, operational speeds ranging from extremely slow through to high, coupled with rapid acceleration and deceleration. This makes for a demanding operational environment that is not found in other applications.

NSK aims to make a positive contribution to improving operational stability and productivity. These are issues crucial to the steel industry, which is representative of the industry which manufactures production equipment. NSK achieves this aim by

- the application of high-level bearing design technologies
- ongoing planning, development and R & D from many different perspectives, including bearing technologies of materials, lubrication, and analysis.

Over many years, this has led to the implementation of strategies for attaining the company's fundamental goal: producing bearings with a long operating life and high reliability. NSK offers a comprehensive lineup of bearings for the steel industry, from standard bearings meeting ISO standards through to its own independently developed, high-capacity specialized bearings. NSK is now also responding to the need for high added-value products and an environmentally friendly approach in the steel industry.