

● **ULTAGE Precision Rolling Bearings for Machine Tools**

For angular contact ball bearings for machine tools with a contact angle of 15° and bearing tolerance of JIS class 5 or higher, cylindrical roller bearings having bearing tolerance of JIS class 5 or higher, tapered roller bearings having bearing tolerance of JIS class 5 or higher, and bearings for supporting ball screws, see the special catalog "Precision rolling bearings (CAT. No. 2260/E)".

● **Bearings for Special Environments**

Bearings for special environments are bearings that can be used for clean environments and high vacuum environments, where conventional bearings would not be acceptable. Bearings for special environments can also be used for the development of space equipment, vacuum equipment, and semiconductor manufacturing equipment. For details, see the special catalog "Ultra final series bearings for clean environment (CAT. No. 3028/E)".

● **Rubber Molded Bearings**

Rubber molded bearings are rubber rollers made by baking and bonding urethane rubber directly to the outer diameter of small deep groove ball bearings. Rubber molded bearings are suitable for low vibration and low noise applications, and feed mechanisms that require accuracy. For details, see the special catalog "Rubber molded bearings (CAT. No. 3021/J)".

● **MEGAOHM™ Series Insulated Bearings**

Bearings used for electric equipment such as motors and generators may cause electrolytic corrosion due to leakage current, which shortens the bearing life. MEGAOHM™ series insulated bearings are the bearings developed to prevent this electrolytic corrosion. The series includes ceramic and resin type bearings. For details, see the special catalog "MEGAOHM™ series insulated bearings (CAT. No. 3030/E)".

● **Clutches/Torque Limiters**

1) **One-way clutch**

The driving force is transmitted only in one direction. In the opposite direction, the driving and idling can be switched by a clutch with a mechanism for idling. NTN provides a variety of one-way clutches to meet various needs.

For the clutch models, handling precautions, and other details, see the special catalog "Clutches (CAT. No. 2900/E)".

2) **Torque limiter units**

The NTN torque limiter unit (NTS type) is a unit composed of an inner ring, a coil spring, an external resin part, and a lid. When the torque acting between the inner ring and the external resin part is low, the inner ring and the outer resin part are rotated simultaneously. Under high torque conditions, the inner ring and the outer resin part are relatively rotated while keeping a constant torque.

For the torque limiter models, handling precautions, and other details, see the special catalog "Torque limiter units (CAT. No. 6404/J)".