**SINGLE STAGE Tapered Roller Bearings for Locator Position**
- Fixes location of parallel shafting in a compact axial space
- Applicable to systems equipped with helical and spur gearing
- Single-row construction improves bearing efficiency as much as 25 percent and supports all radial loading and bi-directional gear thrust
- Operates with 360-degree roller contact in positive torque power-generation conditions, maintaining continual gear contact

**Tapered Double-Inner-Row Roller Bearing Pillow Blocks**
- Integrated housing and bearing enhances lubrication and deters contamination
- Multiple sealing options available

**Integrated Planet Gear Bearing Assemblies**
- Preset bearing reduces backlash variation among planets
- Finished gear faces maximize resistance to gear pitting fatigue
- Integrated design reduces wear, debris and unwanted clearances from race precession
- Suited for wind turbine gear boxes

**Cylindrical Roller Bearings**
- Common bearing design for supporting rotating planetary carrier
- Full complement of rolling elements to maximize radial capacity
- Bearing flanges support axial forces
- Rollers can be coated with ultra-hard surfaces to resist fretting corrosion
- Available in NU, NN, NJ, NF, NT and NP styles

**Flex Pin Bearings**
- Integrated flex pin bending pattern improves load distribution among planets and stress distribution of the gear face
- Design promotes consistent deflection characteristics among adjacent planets
- Preset bearing clearance range eases installation in gear boxes

**Tapered Roller Bearings**
- Preset bearing reduces backlash variation among planets
- Finished gear faces maximize resistance to gear pitting fatigue
- Integrated design reduces wear, debris and unwanted clearances from race precession
- Suited for wind turbine gear boxes

**Self-Aligning Tapered Roller Bearing Pillow Blocks**
- Preloaded tapered roller bearings minimize main shaft vibration and wear and deter false brinelling while the rotor is stationary
- Preloading substantially reduces main shaft axial movement, minimizing gear box thrusting
- Integral seal outlasts elastomer shaft seals and should not require replacement
- Can be retrofitted for today’s wind turbine main shafts

**www.bearing.sg**
Cylindrical Roller Bearings (NU Design)
- Preferred bearing design for non-locating bearing positions
- Provides outstanding floating capability along the true-rolling-motion surfaces between raceways and rolling elements
- Design facilitates piloting and assembly
- Available in NCF, NN, NJ, NF, NT and NP styles

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Double-Row, Large-Diameter Tapered Bearings (TDI Design)
- Referred to as “X” arrangement or direct mounting
- Excellent selection for locating positions on main shafts and in gear boxes
- Supports all combinations of radial and thrust loading without inducing additional loading on the main shaft

Large-Diameter, Close-Coupled Tapered Roller Bearings (TNA Design)
- Bearings are preloaded to maximize stiffness of the system, load zones and bearing L10 fatigue life
- Versatile race construction can accommodate seal riding surfaces, bolt circles, pilots, etc.
- Unitized, full-roller complement construction and engineered surfaces are optional
- High predicted L10 bearing life

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DIRECT DRIVE

Single-Row, Large-Diameter Tapered Bearings
- Supports all combinations of radial and thrust loading with true-rolling motion on the raceway contacts
- Separable inner and outer races ease assembly
- Internal clearance can be set at assembly to achieve optimum clearance or preload