

**CONTACT US**

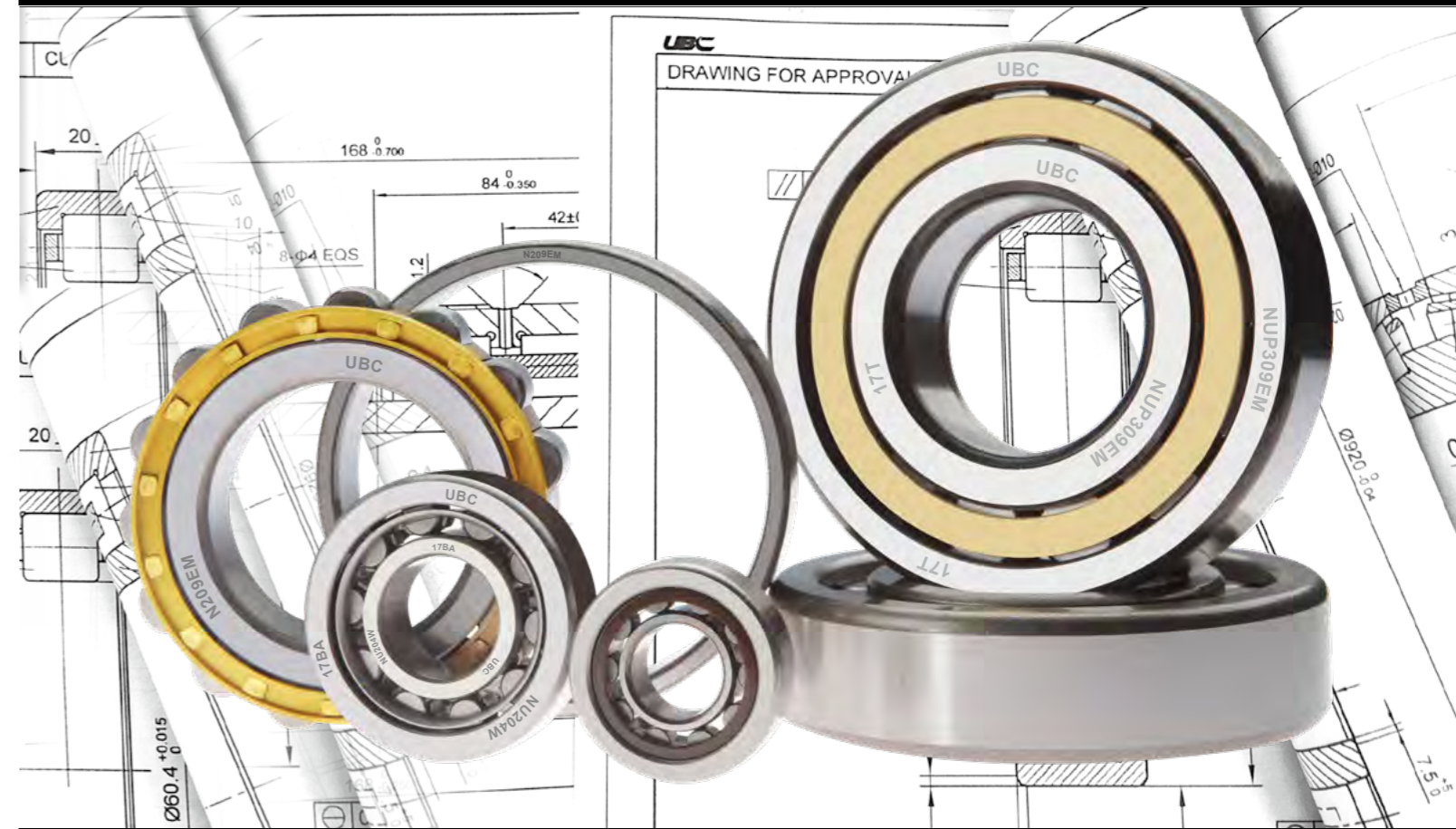
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**CYLINDRICAL ROLLER BEARINGS**



**OUR BEARINGS, YOUR SOLUTION.**



**PREMIUM QUALITY.  
OPTIMUM PERFORMANCE.  
COST EFFICIENT.**



UBC operates a modern manufacturing facility that has passed strict audits by some of the most demanding industrial companies worldwide.

We have been able to accomplish this by adopting the latest manufacturing technology that previously was offered only by major global bearing companies and investing in top class equipments. Japanese production and quality management systems have also been adopted as part of UBC's overall commitment to quality, allowing UBC to manufacture affordable, world class quality products with optimum performance.

Our factory is ISO 9001 certified and observes our Quality Management System according to TS16949. To be a "World Class Manufacturing" operation, our factory utilizes 5S Site Management and Safety Production Management practices.

- Advanced production facilities
- Temperature controlled environment
- Central emulsion supply system
- World class inspection equipment
- IT innovation in quality management
- Premium raw materials
- Top-tier component suppliers
- Complete traceability
- Premium packaging
- Excellent pre- & after- service

- ☆ ISO 9001:2008 certified by SGS
- ☆ ISO/TS 16949:2009 certified by SGS
- ☆ 5S on site management





## MAIN APPLICATIONS OF UBC BEARINGS

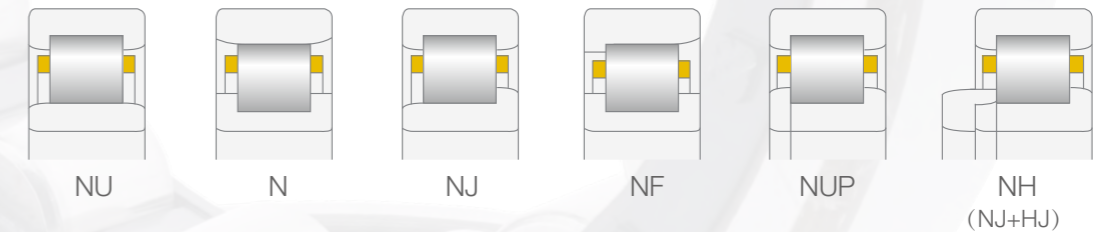
- Industrial gearbox
- Automotive gearbox
- Pump and compressor
- Electric motor
- Speed reducer for robotics
- Crane / Construction machinery
- Forklift
- Agriculture machinery
- Steel mill
- Mining
- Cement
- Paper machine
- Sugar mill
- Textile machinery



## CYLINDRICAL ROLLER BEARINGS



UBC cylindrical roller bearings are available in a variety of sizes in single-row configurations (shown below) with different cage designs in pressed steel, machined brass, polyamide, or advanced special materials. In addition to these single-row configurations, we also offer cylindrical roller bearings in double-row and multi-row designs. These bearings can be supplied in either full complement or caged configurations.



### HOW THESE CYLINDRICAL ROLLER BEARING DESIGNS ARE USED:

**Bi-Directional Positioning for Floating Applications - NU & N type**

The NU and N type designs allow axial displacement of the shaft with respect to the housing in both directions. These designs are normally selected as non-locating bearings

**Uni-Directional Positioning for Floating or Fixed Applications - NJ & NF type**

The NJ and NF designs allow axial displacement of the shaft with respect to the housing in only one direction. These designs can only locate the shaft axially in one direction.

**Locked Positioning for Fixed Applications - NUP & NH type**

The NUP and NH type designs do not allow axial displacement of the shaft with respect to the housing in either direction. These designs can locate the shaft axially in both directions.

UBC offers several different cage designs and materials, each developed to meet the specific needs of your application.

Cage Material	Suffix	Description
Brass	M	Machined brass, roller centred
	MA	Machined brass, outer ring centred
	MB	Machined brass, inner ring centred
Nylon	TN	Injection moulded cage of polyamide 6.6, rolling element centred
Plastic	TN7	Injection moulded cage of glass fibre reinforced polyamide 6.6, rolling element centred
Steel	J	Pressed steel, roller centred

Country	Bearing steel	Standard
USA	52100	ASTM
Germany	100Cr6	DIN
Japan	SUJ2	JIS
China	GCr15	GB

- Made with ultra clean and homogenous steel with a minimum number of inclusions.
- Cage material selection and suggestion for larger load capacity applications.



# ADVANCED TECHNOLOGY



## Optimum Rib Geometry from Hard Turning

- Greater axial load carrying capacity due to optimized rib contact
- A higher level of energy efficiency due to reduced frictional torque
- Suitable for extremely high radial loads at very high speeds
- Enhanced lubrication
- Increased misalignment capabilities
- Maximum usable rib length
- Increased performance under axial loading conditions
- Up to 1.5 times increase in axial load capacity



## Finish Hard Turning

### Greater accuracy, excellent value.

Finish hard turning allows for machining parts in one set up resulting in more precise geometry.

- **More flexibility:** With a single standard tool and clamping set-up, you can machine a wide variety of products with different forms and sizes. Providing more flexibility and reduces changeovers.
- **Higher productivity:** Finish hard turning can remove more material per machining operation than grinding. Making hard turning 3 to 4 times faster when compared to grinding.
- **Cost savings:** Multiple operations can be done in one set-up which eliminates the need for a multi-step grinding process.

## Control

- Temperature controlled for manufacturing environment
- Precision levels of ABEC5 (P5) and above
- Control on raw materials and production processes
- 100% traceable on material, components, manufacturing and assembly
- IT innovation adapted in quality control system
- Manufacturing SPC controlled at center of tolerance range

## Material, Grinding and Heat Treatment

- Ultraclean, extremely wear resistant, low oxygen level bearing steel
- Grinding and hard turning facilities
- New heat treatment procedures optimize the bearing resistance to operational damage and temperatures without affecting dimensional stability



## Machines

- German engineered production Machineries controlled by SIEMENS Systems interfaces
- Vertical turning machinery for hard turning process
- German engineered production machinery, most notably Thielenhaus superfinishing machines
- 3-stage ultrasonic washing equipment
- Marh profile inspection equipment
- Magnetic particle flaw detect machinery
- Mitutoyo roundness inspection equipment

