







Wire Guide Box Bearings

Tapered Roller Bearings

Special Series Tapered Roller Bearings for Guide Box

The guide box bearings go through very harsh operating conditions. Major challenges faced in guide box bearings are:

Contamination

Contaminants like dirt and water infiltrate bearings, causing accelerated wear and potential failure.

High Speed

Bearings at high speeds and under rapid acceleration experience higher friction and heat. This results in lubrication film depletion and can cause bearing wear.

Lubricant Washout

Due to harsh conditions and continuous water flow, lubricant washout is a major problem in guide box applications.

Frequent Acceleration/Deceleration

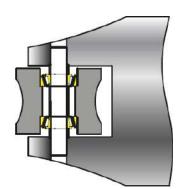
High and frequent acceleration/deceleration impacts the cage and can damage it.

Corrosion

Exposure to moisture can cause corrosion in bearings, which may lead to failure.

Frequent Cage Pocket Wear

High contamination and frequent acceleration/declaration leads to cage pocket wear.



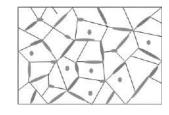
Guide Box Bearing Features and Benefits

Special TF Heat Treatment

Increased Surface Hardness: Enhances wear resistance and durability under high friction conditions.

Improved Fatigue Strength: Extends the operational life by withstanding repeated stress and mechanical loads generated due to frequent re-entry.

Enhanced Corrosion Resistance: This special heat treatment improves resistance to corrosion, beneficial in harsh environments of guide box applications.



Longer Lifespan in Compromised Lubrication: TF heat treated bearings perform well in poorly lubricated and contaminated conditions, like guide box, extending their lifespan.

High Strength Polymer Cage

Lightweight: Specially designed polymer cages are significantly lighter, which reduces the overall weight of the bearing assembly and improve performance in high-speed applications.

Wear resistance: Specially designed cage material provides very good protection against wear in contaminated environment. This avoids the cage pocket wear and gives superior life.

Self-Lubricating Properties: This cage has inherent self-lubricating capabilities, which is beneficial in environments with marginal lubrication.

High Elasticity: The material's elasticity allows it to absorb shocks and vibrations, making it suitable for applications with high acceleration and deceleration like guide box bearings.



Improved Surface Finish

Reduced Friction: Smoother surface and precise accuracy minimize friction which enhances bearing performance at higher speeds.

Better Lubrication: Improved surface finish helps in better lubrication film formation which enhances bearing life.

**Grease and seal applicable for 2RSA or ZZ bearings.





NBC Bearings Solutions for Ball Bearings

Sr. No.	Part Number	ID (mm)	OD (mm)	Width (mm)	Cr (kN)	Cor (kN)
1	ASTB 30202 T2X	15	35	11.75	16.00	15.00
2	ASTB 30302 T2X	15	42	14.25	25.00	20.00
3	ASTB 32303 T2X	17	47	20.25	34.60	33.40
4	ASTB 32304 T2X	20	52	22.25	42.20	42.90
5	ASTB 30203 T2X	17	40	13.25	24.00	22.00
6	ASTB 30204 T2X	20	47	15.25	33.00	30.00
7	ASTB 30303 T2X	17	47	15.25	28.30	27.20
8	ASTB 32008 T2X	40	68	19	51.00	66.60
9	ASTB 33112 T2X	60	100	30	117.90	172.10
10	ASTB 33212 T2X	60	110	38	161.00	223.00
11	ASTB 33206 T2X	30	62	25	65.00	77.00
12	ASTB 32208 T2X	40	80	24.75	89.00	94.00
13	ASTB 32209 T2X	45	85	24.75	85.00	104.00
14	ASTB 32308 T2X	40	90	35.25	132.00	142.00
15	ASTB 32309 T2X	45	100	38.25	166.00	176.00
16	ASTB 33205 T2X	25	52	22	53.00	58.00
17	ASTB 33208 T2X	40	80	32	92.00	94.00

^{*}Other sizes are also available on customer request. **For further information contact NEI Application Engineer.

OTHER PRODUCTS FROM NBC BEARINGS

Since the challenges faced by industry are many, NBC offers a diverse range of exceptional bearings.

NBC bearings are available in sizes from 06 mm bore to 2000 mm outer diameter.



Deep Groove Ball Bearing



Tapered Roller Bearing



Cylindrical Roller Bearing



Needle Roller Bearing



Spherical Roller Bearing Steel Cage



Double Row Angular **Contact Bearing**



Double Row Tapered Roller Bearing



Sealed Spherical Roller Bearing



Spherical Roller Bearing **Brass Cage**



Spherical Roller **Thrust Bearing**



Insulated Ball Bearing



Hybrid Ball Bearing



Oil Impregnated Bearing



Pillow Block UCF



Pillow Block UCP



4 Row Cylindrical Roller **Bearing Steel Cage**



4 Row Cylindrical Roller Bearing Brass Cage



4 Row Tapered Roller Bearing



4 Row Sealed Tapered Roller Bearing



National Engineering Industries Ltd

Khatipura Road, Jaipur, Rajasthan, India 302 006 T: +91 141 2223 221 | F: +91 141 2222 259 | Toll free: 1800 3000 6222 E: neilsales@nbcbearings.in

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