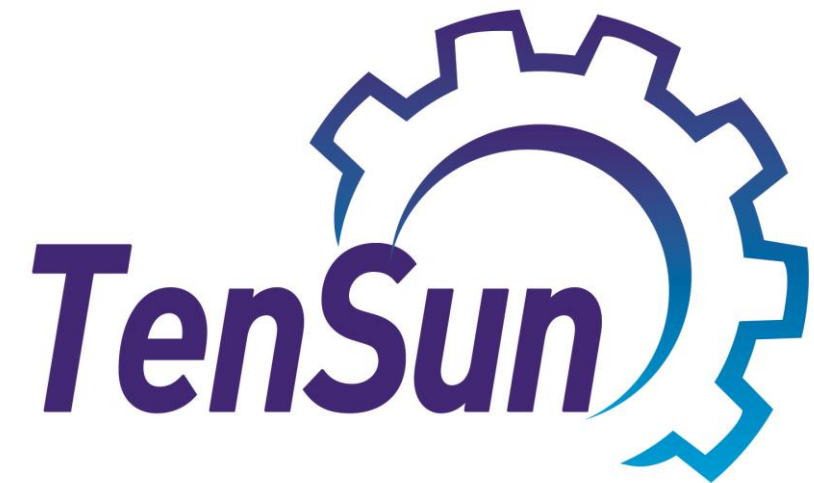


PRODUCT CATALOGUE

SLEWING BEARING

Rotational Solutions



TENSUN MACHINERY CO., LTD



Global Competitive Cost & World Class Quality

Slewing bearings –

TENSUN slewing bearings prove their value each and every day in applications such as wind turbines, cranes, excavators, mechanical engineering plants of all kinds and tunneling machinery. The functional diversity of our slewing bearings is already apparent in their dimensions in sizes up to 5 meters in diameter.

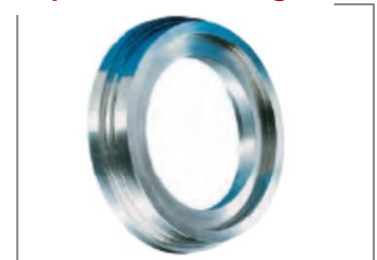
Up to 5 m Diameters

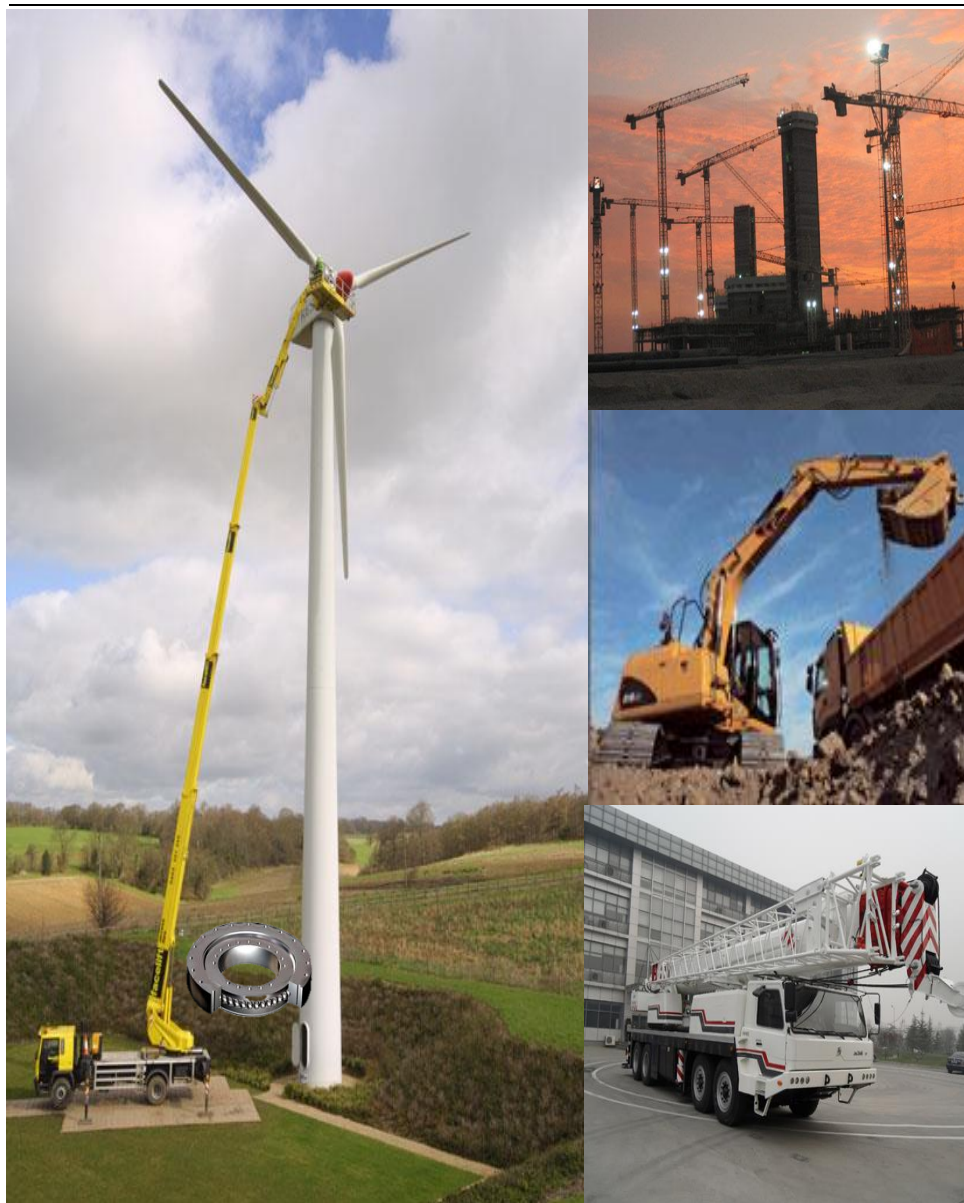


Seamless Rolled Ring-

Rolled rings are important components in a greatly varying range of applications. They play a key role in slewing bearings, large gear units, large valves, production facilities, sprocket wheels, wind turbines, and pipeline construction. They are seamlessly rolled. A ring of this type can easily weigh as much as 12 tons.

Up to 12 t unit Weight





Construction machinery

Tensun slewing bearings are used in construction machinery of all types the world over. The construction engineering, road construction and maintenance, flow type lifting handling operation and various construction projects need necessary for comprehensive mechanized construction engineering machinery and equipment. The slewing bearing is the key in this application.

Cranes

Whether port, off shore or construction cranes – Tensun supplies right slewing bearing for every application.

These bearings are customer designed and built in close cooperation with each customer.

Our target is build long term relationship with Customers

Energy

Our commitment in the field of energy technology has made us a reliable partner for the wind, solar, and hydropower industries since their beginnings.

Designed for utmost reliability and long-lasting quality,

The slewing bearings and rings from Tensun are core parts.

Transport and materials handling technology

Tensun provides solutions for each special, individual need in the field of transport and materials handling technology.

When it comes to tunnel engineering, we deliver the ideal cutting-head bearing for every type rock.

Mechanical engineering

Tensun slewing bearing is widely used in Mechanical engineering field. Optimal design, excellent weight-to-power ratio, open centers, and integrated gearing make slewing bearings the ideal structural components and be reliable partner.



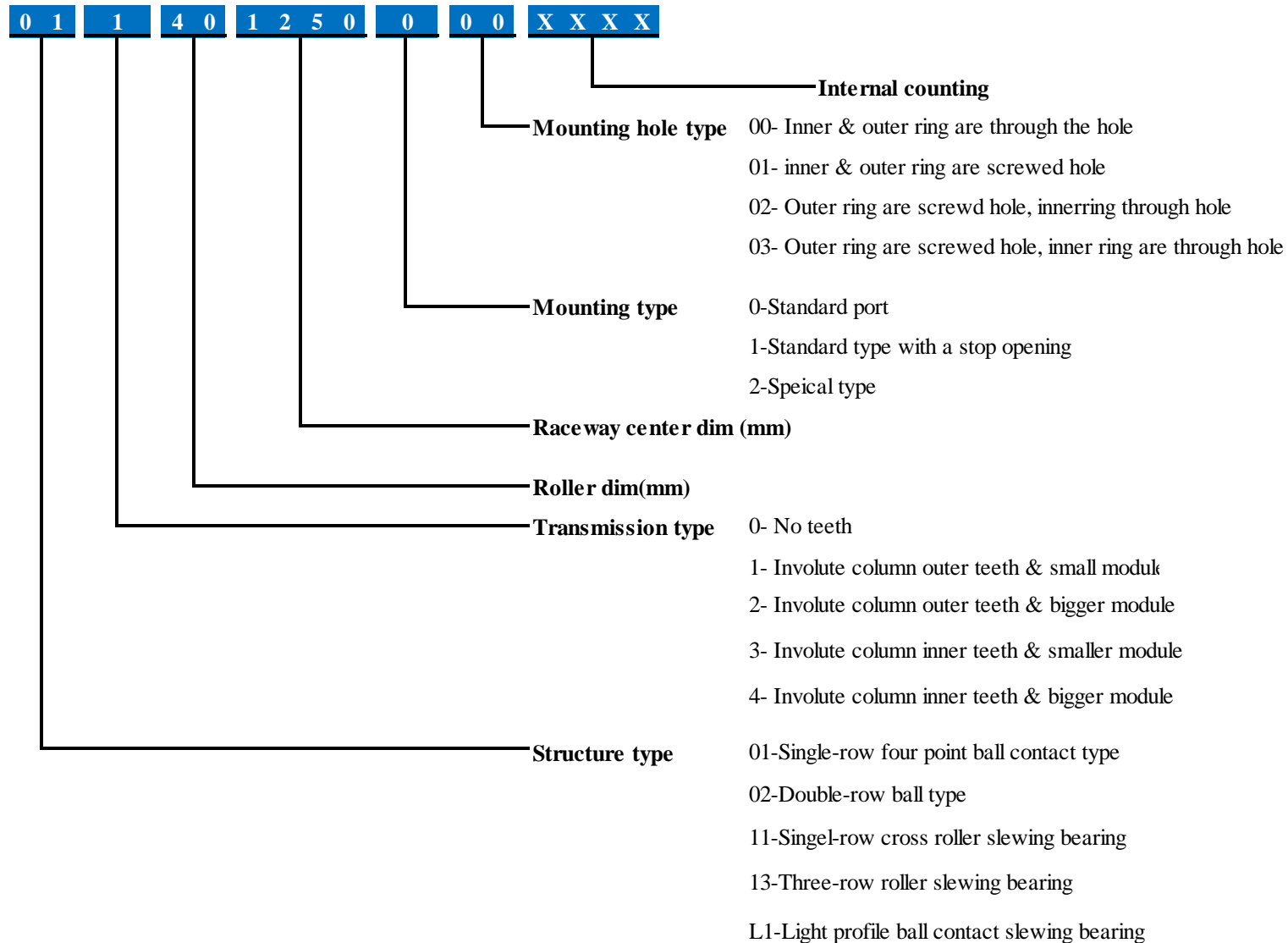
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1. Coding System

Product Coding System JB/T2300-1999





2. Basic Knowledge

2.1 Structure

Slewing bearing may have many types, but the structure composed looks same.

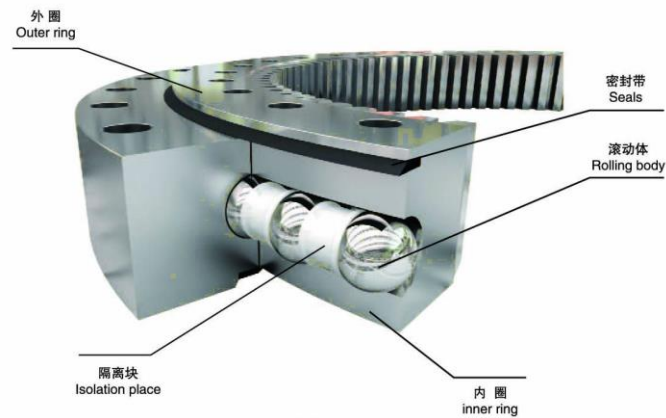


图 1

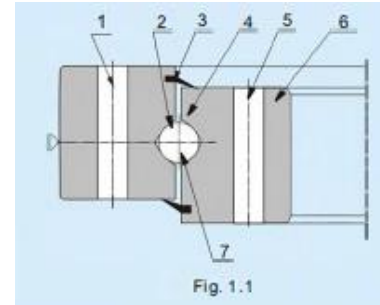
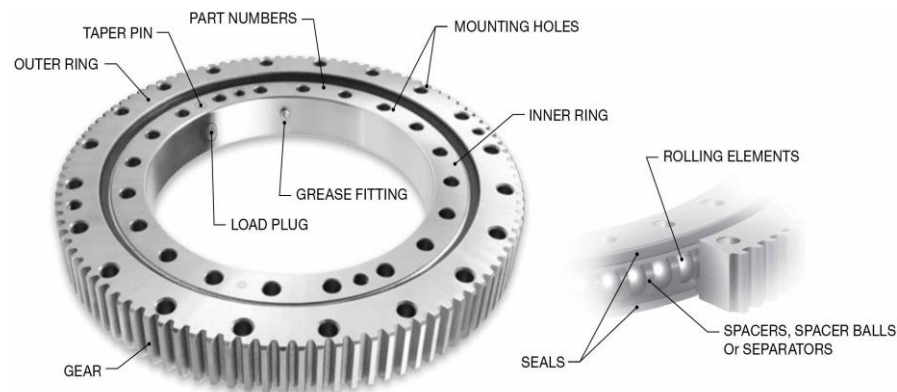
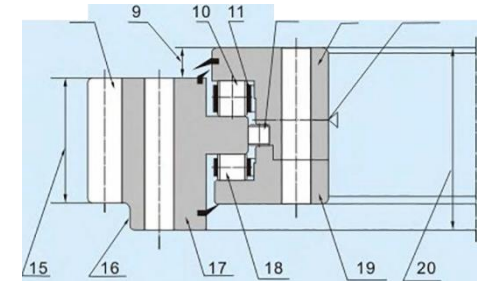


Fig. 1.1



Definition

- 1.Center circle diameter of outer mounting holes
- 2.Rolling elements
3. Seals
4. Raceway
- 5.Center circle diameter of inner mounting holes
6. Inner ring
7. Center circle diameter of rolling elements
8. Outer gear
9. Height difference between upper end face of inner ring and that of the outer ring
10. Main thrust rollers
11. Cage (spacer)
12. Radial roller
13. Main thrust inner ring
14. Oil hole
15. Tooth width
16. External surface of outer ring
17. Outer ring
18. Minor thrust roller
19. Minor thrust inner Ring
20. Overall height

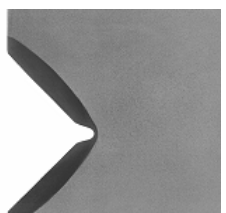
2.2. Raceway & Gear Hardening



Raceways in a single-row ball



Raceways of a nose ring in a three-row roller bearing slewing



Raceways in a single-row roller



Raceways of a nose ring in a double-row ball bearing



Raceway of a supporting ring in a double-row ball bearing slewing ring

Raceway Hardening

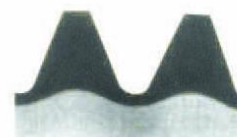
The bearing types described here are provided with induction-hardened raceways. This ensures good reproducibility of hardening specifications and, therefore, consistent quality. The hardening coils used have been adapted to the various raceway designs. They are configured so as to guarantee the load capacities specified for the respective rolling element sizes.

Our patented coil shape ensures a good hardness pattern in the raceways and in the transition radii in three-row roller bearings.

Hardness of Raceway of ring after hardened is 55HRC~62HRC, Quenching layer ≥ 3 mm.

Gear Hardening

The heat treatment of the gear is in generally normalizing or hardening and tempering state. According to application, the gear can be treated full teeth quench or tooth surface quench only and tooth surface and tooth root quench.



全齿淬火
Full tooth quenching



齿面齿根淬火
Tooth face and tooth root quenching



齿面淬火
Tooth face quenching



2.3 Material

The basis of bearing quality is material, which, has great influence on bearing performance, life and reliability. The rolling surface of components carries periodical alternating loads during operation, extremely high contact stress is generated on the contact position due to the small contact area between components will fatigue under the repeated actions of the stress, which results on the fatigue flake. Meanwhile, both rolling friction and sliding friction exist at the component contact position. Therefore, the bearing material should have the following performances:

- High contact fatigue intensity.
- High flexibility limit.
- High hardness obtained.
- Good abrasion resistance and anticorrosion.
- Good structure stability.
- Good machining property.
- Good impact resistance.

Inner ring and outer ring

Tensun use 50Mn or 42CrMo for slewing bearing rings.

The hardness of the working surfaces such as the raceway surface may have a surface hardness up to 55-60 HRC after hardening.

material	chemical composition %								
	C	Si	Mn	Mo	Cr	Ni	S	P	Cu
50 Mn	0.48~0.56	0.17~0.37	0.70~1.00	-----	≤0.25	≤0.25	≤0.035	≤0.035	≤0.25

material	chemical composition %								
	C	Si	Mn	Mo	Cr	Ni	S	P	Cu
42CrMo	0.38~0.45	0.17~0.37	0.50~0.80	0.15~0.25	0.90~1.2	≤0.30	≤0.035	≤0.035	≤0.30

Ball & Roller

Materials for rolling elements are selected according China standard ball GB/T 308 and roller GB/T 4662 which are produced from GCr1 OR GCr15SiMn. The heat treatment specification is accordance with GB/T1255.

D_w/mm	Grade of Ball
≤30	G40
>30~50	G60
>50	G100

Seal

The sealing material used in TENSUN slewing bearing is grease/oil resistant and manufactured from nitrile rubber, and fluorine rubber etc. The seals are produced in accordance with HG/T 2811 (Material for Lip Type Seal Ring of Slewing Shaft). Other material also can be used according customer requirements. Please contact TENSUN as needed.

OPERATING CONDITIONS	RANGES
"Normal" - 25° C + 70°C	NITRILE-BASED elastomer
"Extreme" 0< - 30° C; + 70°C<0< 200°C	FLUORE-based ELASTOMER
"Special" Various physical or chemical aggressive agents	NITRILE-BASED modified or others

Spacer Block

TENSUN standard product use the spacer block produced by Polyamide 1010, which is made comply with HG/T 2349.



2.4 Bearing Selection

General:

The final and binding selection of a large-diameter slewing bearing is principally made by us.

Selection determines the correct dimensioning of bearing races, gearing and bolt connections.

We, therefore require that you complete our ***Application Questionnaire*** to provide us with all necessary data to help in selection of the appropriate bearing.

The most important data for choosing the right bearing are:

1. Applied loads
2. Collective loads with respective time percentages
3. Speed or number of movements and angle per time unit together with the relating collective loads
4. Circumferential forces to be transmitted by the gearing
5. Bearing diameter
6. Other operating conditions.

Full completion of the ***Application Questionnaire*** will enable us to largely respect your requests and prepare a technically adequate and economical bearing proposal.

Whenever possible, the completed ***Application Questionnaire*** should be submitted to us during the planning stage, but no later than the order placement to allow for confirmation of the bearing.

Application Questionnaire

Customer:		Add.:		
Title:		Dept.:		
Tel:		Fax:		
Applications:	Axis of rotation		Installation type	
	Horizontal <input type="checkbox"/> Vertical <input type="checkbox"/>		Horizontal <input type="checkbox"/> Vertical <input type="checkbox"/>	
Gear type:	Operation		No. of revolutions [min-1]	
External <input type="checkbox"/>	only for positioning <input type="checkbox"/>		Normal:	
Internal <input type="checkbox"/>	intermittent operation <input type="checkbox"/>		Maximal:	
No gear <input type="checkbox"/>	continuous operation <input type="checkbox"/>			
Load data				
Bearing load Loading type	A	B	C	
	Max work load	Max test load	catastrophic load (shutdown state)	
Axial load parallel to rotating axle				KN
Radial load vertical to the rotating axle (without gear meshing force)				KN
Moment by axial load				KN.m
Moment by radial load				KN.m
Total moment				KN.m
Slewing bearing turning torque KN.m			Drive pinions:	
Normal: Max:			Number: Position:	
Slewing bearing type and dimension				
Type: Light type <input type="checkbox"/> Single-row ball <input type="checkbox"/> Double-row ball <input type="checkbox"/> Cross roller <input type="checkbox"/> Three-row cross roller <input type="checkbox"/>				
Gear: Without <input type="checkbox"/> Inner <input type="checkbox"/> Outer <input type="checkbox"/>				
Dimension: OD : mm <input type="checkbox"/> , ID: mm <input type="checkbox"/> , H: mm <input type="checkbox"/>				
Existing Model (refer catalogue):				



Load capacity:

Generally, when the rotational diameter and section dimension are same then the static load capacity from high to low is:

Three-row roller bearing;

Four-point contact ball bearing;

Cross roller bearing.

Double-row ball bearing.

When the dynamic loading capacities are taken into account the rankings are as follows:

Three-row roller bearing;

Cross roller bearing;

Four-point contact ball bearing;

Double-row ball bearing.

Service life

In slewing bearing technology, theoretical life is a well-known term. Due to a multitude of influential factors, nominal life acc. to DIN/ISO 281 cannot in practice be taken as an absolute value but as a *reference value* and design guide. Not all bearings will reach their theoretical life, although most will generally exceed it, often by several times.

Theoretical life criteria cannot be applied directly to large-diameter bearings, particularly with bearings performing intermittent slewing motions or slow rotations.

In most applications the speed of rotation in the race will be relatively low. Therefore, the smooth operation and precise running of the bearing are not adversely influenced by wear or by the sporadic occurrence of pittings. It is,

therefore, not customary to design large-diameter bearings destined for slewing or slow rotating motion on the basis of their theoretical life. For better definition, the term "service life" was introduced.

A bearing has reached its service life when torque resistance progressively increases, or when wear phenomena have progressed so far that the function of the bearing is jeopardized.

The service life determined with the aid of the curves shown is only valid for bearings carrying out oscillating motions or slow rotations. This method is not applicable to:

bearings for high radial forces,

bearings rotating at high speed,

bearings having to meet stringent precision requirements.

In such cases **TENSUN** will carry out the calculations based on the load spectra including the speed of rotation and percentage of operating time.

We must clearly distinguish between the operating hours of the equipment and the actual rotating or slewing time. The various loads must be taken into account in the form of load spectra and percentages of time. For service life considerations another influential factor not to be neglected is the slewing angle under load and without load.

For an approximate determination of the service life of a bearing, service life curves are shown next to the static limiting load diagrams. This does not apply to Single row ball bearing and light profile bearing.

These service life curves are based on 30,000 revolutions under full load. They can also be employed to determine the service life with different load spectra or to select a bearing with a specified service life.

Speed Limit

The Ultimate speed of various slewing bearing in normal case as below:

Cross roller: 24000~35000 n. Dm

Rolling-ball type: 40000~65000 n.Dm

Rolling ball with holding shelf: 70000~130000 n. Dm



2.5 Tolerance

Dimensional Tolerance

Dimensional Tolerance of TENSUN slewing bearing conforms to the standard JB/T 10471<Rolling Bearing Slewing Bearing) as below table.

d ^a or D ^a (mm)		△Ts	△ds ^b			△Ds ^b		
		Tolerance Class						
Over	Incl.	0, 6, 5	0	6	5	0	6	5
150	400	±600	H9	H8	H7	h9	h8	h7
400	630	±800						
630	1000	±1000						
1000	1600	±1200						
1600	2000	±1400	H10	H9	H8	h10	h9	h8
2000	2500	±1600						
2500	4000	±1800						
4000	6300	±2000						
a Check △Ts and △ds according to d from the table, and check △Ds according to D from the table.								
b None positioning diameter △ds and △Ds could be according to the stipulation of H12 or h12 separately.								

Surface Roughness

The surface Roughness of TENSUN slewing bearing conforms to the standard JB/T 1047 <Rolling Bearing Slewing Bearing) as below table

d ^a or D ^a (mm)		Bore Surface ^b			Outer Diameter Surface ^b			End face		
		Tolerance Class								
Over	Incl.	0	6	5	0	6	5	0	6	5
150	500	2	1.25	1	2	1.25	1	1	0.8	0.63
500	2000	2.5	1.6	1	2.5	1.6	1	1.25	0.8	0.63
2000	6300	3.2	2.5	1.25	3.2	2.5	1.25	1.6	1.25	1
a Check roughness of bore surface and end face according to inner diameter d, and check outer diameter surface according to outer diameter D.										
b When bore surface and outer diameter surface with non-positioning diameter can not comply with this table.										

Running Accuracy

The running accuracy of TENSUN slewing bearing s in accordance with the standard JB/T 1047 <Rolling Bearing Slewing Bearing) as below table

Structure	Running Accuracy		Tolerance Class	D* or d* (mm)							
				Over Incl.	150 400	400 630	630 1000	1000 1600	1600 2500	2500 4000	4000 6300
Four-point contact ball bearing	Sia	max	0	120	160	200	250	320	400	500	
	Sea		6	62	80	100	120	160	200	250	
			5	45	55	70	90	110	140	180	
	Kia		0	180	220	280	360	450	560	710	
	Kea		6	90	110	140	180	220	280	360	
			5	62	80	100	120	160	200	250	
	Fria	max	0	280	340	420	480	630	750	850	
	Frea		6	220	250	280	360	420	560	630	
Double-row Ball Bearing	Sia	max	0	150	190	240	300	380	480	600	
	Sea		6	75	95	120	150	190	240	300	
			5	53	67	85	105	140	170	220	
	Kia		0	210	280	340	420	560	670	850	
	Kea		6	105	140	170	220	280	340	420	
			5	75	95	120	150	190	240	300	
	Fria	max	0	280	340	420	480	630	750	850	
	Frea		6	220	250	280	360	420	560	630	
Cross Cylindrical Roller Bearing	Sia	max	0	105	140	170	220	280	340	420	
	Sea		6	53	67	85	105	140	170	220	
			5	38	48	60	75	95	120	150	
	Kia		0	150	190	240	300	380	480	600	
	Kea		6	75	95	120	150	190	240	300	
			5	53	67	85	105	140	170	220	
	Fria	max	0	250	280	360	400	500	630	710	
	Frea		6	180	220	250	300	360	480	530	
Three-row Cylindrical Roller Combined Bearing	Sia	max	0	90	110	140	180	220	280	360	
	Sea		6	45	55	70	90	110	140	180	
			5	32	40	50	62	80	100	120	
	Kia		0	120	160	200	250	320	400	500	
	Kea		6	62	80	100	120	160	200	250	
			5	45	55	70	90	110	140	180	
	Fria	max	0	250	280	360	400	500	630	710	
	Frea		6	180	220	250	300	360	480	530	
a Check the value of running accuracy for inner ring or outer ring from the table according to the inner diameter d or the outer diameter D.											
b When D or d is not positioning diameter, no requirement for Kia and Kea.											



No.	Model			Dimension			Mounting dimension						Structural dimension						Gear		Ext Gear		Int Gear								
	Without Gear	Ext Gear	Int Gear	D	d	H	D_1	D_2	d_{h1} d_{h2}	d_{n1} d_{n2}	L	n	n_1	D_3	d_1	H_1	h	b	m	d_a	z	d_a	z								
				mm								n		mm						z		mm									
1	010.20.200	011.20.200	—	280	120	60	248	152	16	M14	28	12	2	201	199	50	40	3	300	98	—	—									
2	010.20.224	011.20.224	—	304	144		272	176						225	223				321	105	—	—									
3	010.20.250	011.20.280	—	330	170		298	202				18		251	249				4	352	86	—	—								
4	010.20.280	011.20.280	—	360	200		328	232						281	279					348	94	—	—								
5	010.25.315	011.25.315	013.25.315	408	222	70	372	258	18	M16	32	20		4	316	314		60	50	5	435	85	190	40							
6	010.25.355	011.25.355	013.25.355	448	262		412	298							356	354					475	93	235	49							
7	010.25.400	011.25.400	013.25.400	493	307		457	343				24			401	399					6	528	86	276	48						
8	010.25.450	011.25.450	013.25.450	543	357		507	393							451	449						576	94	324	56						
9	010.30.500	011.30.500	013.30.500	602	398	80	566	434	18	M16	32	20	4		501	498	70	10		60	5	629	123	367	74						
		012.30.500	014.30.500																		6	628.8	102	368.4	62						
10	010.25.500	011.25.500	013.25.500																		5	629	123	367	74						
		012.25.500	014.25.500																		6	628.8	102	368.4	62						
11	010.30.560	011.30.560	013.30.560	662	458		80	626				494		20	4	561			558		70	60	5	689	135	427	86				
		012.30.560	014.30.560																				6	688.8	112	428.4	72				
12	010.25.560	011.25.560	013.25.560																559				5	689	135	427	86				
		012.25.560	014.25.560																				6	688.8	112	428.4	72				
13	010.30.630	011.30.630	013.30.630	732	528			80				696	564			24			4				631	628	70	60	8	774.4	94	491.2	62
		012.30.630	014.30.630																								6	772.8	126	494.4	83
14	010.25.630	011.25.630	013.25.630																					629			6	772.8	126	494.4	83
		012.25.630	014.25.630																								8	774.4	94	491.2	62

No.	Model			Dimension			Mounting dimension						Structural dimension						Gear		Ext Gear		Int Gear																
	Without Gear	Ext Gear	Int Gear	D	d	H	D_1	D_2	d_{h1} d_{h2}	d_{h1} d_{h2}	L	n	n_1	D_3	d_1	H_1	h	b	m	d_a	z	d_a	z																
				mm										mm							mm																		
15	010.30.710	011.30.710	013.30.710	812	608	80	776	644	18	M16	32	24	4	711	708	70		60	6	850.8	139	572.4	96																
		012.30.710	014.30.710												8				854.4	104	571.2	72																	
16	010.25.710	011.25.710	013.25.710												709				6	850.8	139	572.4	96																
		012.25.710	014.25.710												8				854.4	104	571.2	72																	
17	010.40.800	011.40.800	013.40.800	922	678		878	722				30	801	798				10		8	966.4	118	635.2	80															
		012.40.800	014.40.800												10						968	94	634	64															
18	010.30.800	0.11.30.800	0.13.30.800												30														901	898		10		8	966.4	118	635.2	80	
		012.30.800	014.30.800																																10	968	94	634	64
19	010.40.900	011.40.900	013.40.900	1 022	778		978	822					6	901	898		10			8	1 062.4	130	739.2	93															
		012.40.900	014.40.900																	10	1 068	104	734	74															
20	010.30.900	011.30.900	013.30.900																	6										901	898		10		8	1 062.4	130	739.2	93
		012.30.900	014.30.900																																		1 068	104	734
21	010.40.1000	011.40.1000	013.40.1000	1 122	878	100			22	M20	40	36	6							10	1 188	116	824	83															
		012.40.1000	014.40.1000																		12	1 185.6	96	820.8	69														
22	010.30.1000	011.30.1000	013.30.1000				1 078	922							1 001	998					10	1 188	116	824	83														
		012.30.1000	014.30.1000																		12	1 185.6	96	820.8	69														
23	010.40.1120	011.40.1120	013.40.1120	1 242	998							36								10	1 298	127	944	95															
		012.40.1120	014.40.1120																		12	1 305.6	106	940.8	79														
24	010.30.1120	011.30.1120	013.30.1120				1 198	1042							1 121	1 118					10	1 298	127	944	95														
		012.30.1120	014.30.1120																		12	1 305.6	106	940.8	79														



No.	Model			Dimension			Mounting dimension						Structural dimension					Gear		Ext Gear		Int Gear							
	Without Gear	Ext Gear	Int Gear	D	d	H	D_1	D_2	d_{h1} d_{h2}	d_{h1} d_{h2}	L	n	m	D_3	d_1	H_1	h	b	m	d_a	z	d_a	z						
				mm									n			mm												mm	
25	010.45.1250	011.45.1250	013.45.1250	1 390	1 110	110	1 337	1 163	26	M24	48	40	5	1	1 248	100	10	90	12	1 449.6	118	1 048.8	88						
		012.45.1250	014.45.1250											14					1 453.2	101	1 041.6	75							
26	010.35.1250	011.35.1250	013.35.1250				12	1 449.6						118					1 048.8	88									
		012.35.1250	014.35.1250				14	1 453.2						101					1 041.6	75									
27	010.45.1400	011.45.1400	013.45.1400	1 540	1 260		1 487	1 313				45		1	1 398				12	1 605.6	131	1 192.8	100						
		012.45.1400	014.45.1400											14										1 607.2	112	1 195.6	86		
28	010.35.1400	011.35.1400	013.35.1400				12	1 605.6						131					1 192.8	100									
		012.35.1400	014.35.1400				14	1 607.2						112					1 195.6	86									
29	010.45.1600	011.45.1600	013.45.1600	1 740	1 460		1 687	1 513				45		1	1 598				14	1 817.2	127	1 391.6	100						
		012.45.1600	014.45.1600											16										1 820.8	111	1 382.4	87		
30	010.35.1600	011.35.1600	013.35.1600				14	1 817.2						127					1 391.6	100									
		012.35.1600	014.35.1600				16	1 820.8						111					1 382.4	87									
31	010.45.1800	011.45.1800	013.45.1800	1 940	1 660		1 887	1 713				45		1	1 798				14	2 013.2	141	1 573.6	113						
		012.45.1800	014.45.1800											16										2 012.8	123	1 574.4	99		
32	010.35.1800	011.35.1800	013.35.1800				14	2 013.2						141					1 573.6	113									
		012.35.1800	014.35.1800				16	2 012.8						123					1 574.4	99									
33	010.60.2000	011.60.2000	013.60.2000	2 178	1 825	144	2 110	1 891	33	M30	60	48	8	2	1 998	132	12	120	18	2 268.8	139	1 734.4	109						
		012.60.2000	014.60.2000											16					2 264.4	123	1 735.2	97							
34	010.40.2000	011.40.2000	013.40.2000				16	2 268.8						139					1 734.4	109									
		012.40.2000	014.40.2000				18	2 264.4						123					1 735.2	97									

No.	Model			Dimension			Mounting dimension						Structural dimension					Gear		Ext Gear		Int Gear	
	Without Gear	Ext Gear	Int Gear	D	d	H	D_1	D_2	d_{n1} d_{n2}	d_{n1} d_{n2}	L	n	n_1	D_3	d_1	H_1	h	b	m	d_a	z	d_a	z
				mm												mm							
35	010.60.2240	011.60.2240	013.60.2240	2 418	2 065	144	2 350	2 131			60	4 8	8	2 242	2 238	132	120	16	2 492.8	153	1 990.4	125	
		012.60.2240	014.60.2240															18	2 498.4	136	1 987.2	111	
36	010.40.2240	011.40.2240	013.40.2240				2 241	16						2 492.8				153	1 990.4	125			
		012.40.2240	014.40.2240											18				2 498.4	136	1 987.2	111		
37	010.60.2500	011.60.2500	013.60.2500	2 678	2 325	144	2 610	2 391	33	M30	60	5	8	2 502	2 498	132	120	20	2 776	136	2 228	112	
		012.60.2500	014.60.2500															18	2 768.4	151	2 239.2	125	
38	010.40.2500	011.40.2500	013.40.2500				2 501	18						2 768.4				151	2 239.2	125			
		012.40.2500	014.40.2500											20				2 776	136	2 228	112		
39	010.60.2800	011.60.2800	013.60.2800	2 978	2 625	144	2 910	2 691			84	6	8	2 802	2 798	12	150	18	3 074.4	168	2 527.2	141	
		012.60.2800	014.60.2800															20	3 076	151	2 528	127	
40	010.40.2800	011.40.2800	013.40.2800				2 801	18						3 074.4				168	2 527.2	141			
		012.40.2800	014.40.2800											20				3 076	151	2 528	127		
41	010.75.3150	011.75.3150	013.75.3150	3 376	2 922	174	3 286	3 014			84	6	8	3 147	3 152	162	150	20	3 476	171	2 828	142	
		012.75.3150	014.75.3150															22	3 471.6	155	2 824.8	129	
42	010.50.3150	011.50.3150	013.50.3150				3 148	20						3 476				171	2 828	142			
		012.50.3150	014.50.3150											22				3 471.6	155	2 824.8	129		
43	010.75.3550	011.75.3550	013.75.3550	3 776	3 322	174	3 686	3 414	45	M42	84	6	8	3 547	3 552	162	150	20	3 876	191	3 228	162	
		012.75.3550	014.75.3550															22	3 889.6	174	3 220.8	147	
44	010.50.3550	011.50.3550	013.50.3550				3 548	20						3 876				191	3 228	162			
		012.50.3550	014.50.3550											22				3 889.6	174	3 220.8	147		



No.	Model			Dimension			Mounting Dimension						Structural dimension				Gear		Ext Gear		Int Gear		
	Without Gear	Ext Gear	Int Gear	D	d	H	D_1	D_2	ϕ_{n1} ϕ_{n2}	ϕ_{n1} ϕ_{n2}	L	n	n_1	D_3	d_1	H_1	h	b	m	d_a	z	d_a	z
				mm										mm						mm			
45	010.75.4000	011.75.4000	013.75.4000	4 226	3 772	174	4 136	3 864	45	M42	84	60	10	4 002	3 997	162	12	150	22	4 329.6	194	3 660.8	167
		012.75.4000	014.75.4000																25	4 345	171	3 660	147
46	010.50.4000	011.50.4000	013.50.4000				3 998	22							4 329.6				194	3 660.8	167		
		012.50.4000	014.50.4000					25							4 345				171	3 660	147		
47	010.75.4500	011.75.4500	013.75.4500	4 726	4 272		4 636	4 364						4502	4 497				22	4 835.6	217	4 166.8	190
		012.75.4500	014.75.4500																25	4 845	191	4 160	167
48	010.50.4500	011.50.4500	013.50.4500				4 498	22							4 835.6				217	4 166.8	190		
		012.50.4500	014.50.4500					25							4 845				191	4 160	167		

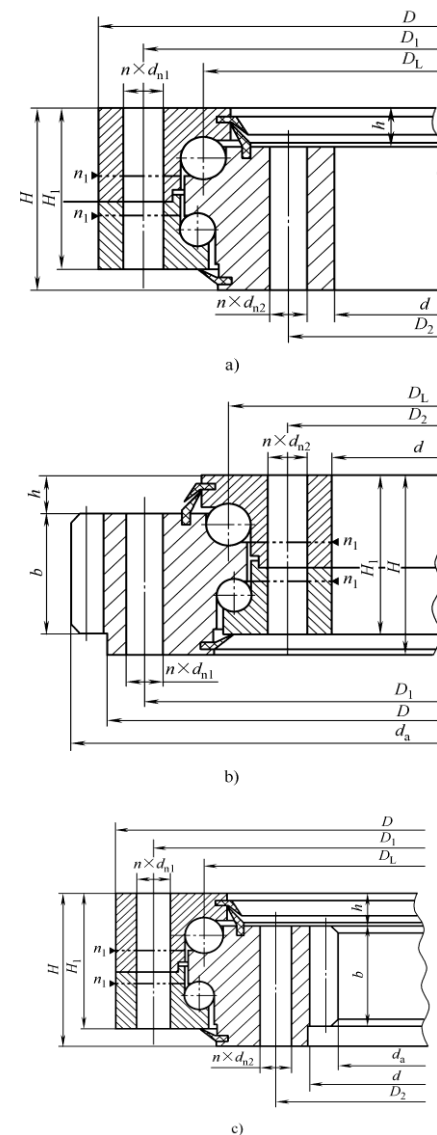
4. Double-Row Ball Slewing Bearing

Double-row ball slewing bearing can carry axial load, tilting moment and radial loads at the same time. The top ball mainly carries the axial load and positive tilting moment. The drop ball takes the opposite tilting moment. This is the reason for the loading capacity of the double row ball slewing bearing being larger than the four-point contact ball slewing bearing; however, the frictional ratio is much larger. The double row ball slewing bearing consists of an inner ring, outer ring, balls in double rows, spacers, sealing device, and other components. Due to the top ball mainly taking the axial load and tilting moment loads, the size of top balls is larger than the drop ball. In order to accommodate the various working condition at different axial load, tilting moments and axial load, the angle of contact would be adjusted accordingly. The double row slewing bearing is mainly for the working conditions when carrying an axial load, larger tilting moment, and where the mounting place is limited in radial direction. This structure provides good performance when fit into an installation when an amount of deformation may be allowed.

As the axle and the dimension of the double-row ball slewing bearing are relatively larger, the bearing construction is sturdy, hence it is especially suitable for tower cranes which require working radius over medium range, mobile cranes and loading and unloading machines.



Without Gear
Internal Gear
External Gear





No.	Model			Dimension			Mounting Dimension					Structural dimension				Gear		Ext Gear		Int Gear	
	Without Gear	Ext Gear	Int GEAR	D	d	H	D_1	D_2	d_{n1} d_{n2}	d_{n1} d_{n2}	L	n	n_1	H_f	h	b	m	d_a	z	d_a	z
				mm										mm						mm	
1	020.25.500	021.25.500	023.25.500	616	384		580	420				20					5	644	126	357	72
		022.25.500	024.25.500														6	646.8	105	350.4	59
2	020.25.560	021.25.560	023.25.560	676	444	106	640	480	18	M16	32	20	4	96	26	60	6	704	138	417	84
		022.25.560	024.25.560															706.8	115	410.4	69
3	020.25.630	021.25.630	023.25.630	746	514	106	710	550	18	M16	32	24	4	96	26	60	6	790.8	129	482.4	81
		022.25.630	024.25.630															790.4	96	475.2	60
4	020.25.710	021.25.710	023.25.710	826	594	106	790	630	18	M16	32	24	4	96	26	60	6	862.8	141	560.4	94
		022.25.710	024.25.710															862.4	105	555.2	70
5	020.30.800	021.30.800	023.30.800	942	658	124	898	702	22	M20	40	30	6	114	29	80	8	982.4	120	619.2	78
		022.30.800	024.30.800															988	96	614	62
6	020.30.900	021.30.900	023.30.900	1 042	758	124	998	802	22	M20	40	30	6	114	29	80	8	1 086.4	133	715.2	90
		022.30.900	024.30.900															1 088	106	714	72
7	020.30.1000	021.30.1000	023.30.1000	1 142	858	124	1 098	902	22	M20	40	36	6	114	29	80	10	1 198	117	814	82
		022.30.1000	024.30.1000															1 197.6	97	796.8	67
8	020.30.1120	021.30.1120	023.30.1120	1 262	978	124	1 218	1 022	22	M20	40	36	6	114	29	80	10	1 318	129	924	93
		022.30.1120	024.30.1120															1 317.6	107	916.8	77
9	020.40.1250	021.40.1250	023.40.1250	1 426	1 074	160	1 374	1 126	26	M24	48	40	5	150	39	90	12	1 497.6	122	1 012.8	85
		022.40.1250	024.40.1250															1 495.2	104	1 013.6	73
10	020.40.1400	021.40.1400	023.40.1400	1 576	1 224	160	1 524	1 272	26	M24	48	40	5	150	39	90	12	1 641.6	134	1 156.8	97
		022.40.1400	024.40.1400															1 649.2	115	1 153.6	83

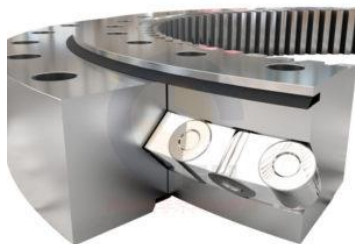


No.	Model			Dimension			Mounting Dimension					Structural Dimension				Gear		Ext Gear		Int Gear	
	Without Gear	Ext Gear	Int Gear	D	d	H	D_1	D_2	d_{h1} d_{h2}	d_{h1} d_{h2}	L	n	n_1	H	h	b	m	d_a	z	d_a	z
				mm										mm						mm	
11	020.40.1600	021.40.1600	023.40.1600	1 776	1 424	160	1 724	1 476	26	M24	48	45	5	150	39	90	14	1 845.2	129	1 349.6	97
		022.40.1600	024.40.1600														16	1 852.8	113	1 350.4	85
12	020.40.1800	021.40.1800	023.40.1800	1 976	1 624	160	1 924	1 676	26	M24	48	45	5	150	39	90	14	2 055.2	144	1 545.6	111
		022.40.1800	024.40.1800														16	2 060.8	126	1 542.4	97
13	020.50.2000	021.50.2000	023.50.2000	2 215	1 785	190	2 149	1 851	33	M30	60	48	8	178	47	120	16	2 300.8	141	1 702.4	107
		022.50.2000	024.50.2000														18	2 300.4	125	1 699.2	95
14	020.50.2240	021.50.2240	023.50.2240	2 455	2 025	190	2 389	2 091	33	M30	60	48	8	178	47	120	16	2 540.8	156	1 942.4	122
		022.50.2240	024.50.2240														18	2 552.4	139	1 933.2	108
15	020.50.2500	021.50.2500	023.50.2500	2 715	2 285	190	2 649	2 351	33	M30	60	48	8	178	47	120	20	2 804.4	153	2 203.2	123
		022.50.2500	024.50.2500														18	2 816	138	2 188	110
16	020.50.2800	021.50.2800	023.50.2800	3 015	2 585	190	2 949	2 651	33	M30	60	48	8	178	47	120	18	3 110.4	170	2 491.2	139
		022.50.2800	024.50.2800														20	3 116	153	2 488	125
17	020.60.3150	021.60.3150	023.60.3150	3 428	2 872	226	3 338	2 962	45	M42	84	56	10	214	56	150	20	3 536	174	2 768	139
		022.60.3150	024.60.3150														22	3 537.6	158	2 758.8	126
18	020.60.3550	021.60.3550	023.60.3550	3 828	3 272	226	3 738	3 362	45	M42	84	56	10	214	56	150	20	3 936	194	3 168	159
		022.60.3550	024.60.3550														22	3 933.6	176	3 176.8	145
19	020.60.4000	021.60.4000	023.60.4000	4 278	3 722	226	4 188	3 812	45	M42	84	56	10	214	56	150	22	4 395.6	197	3 618.8	165
		022.60.4000	024.60.4000														25	4 395	173	3 610	145
20	020.60.4500	021.60.4500	023.60.4500	4 778	4 222	226	4 688	4 312	45	M42	84	56	10	214	56	150	22	4 879.6	219	4 122.8	188
		022.60.4500	024.60.4500														25	4 895	193	4 110	165

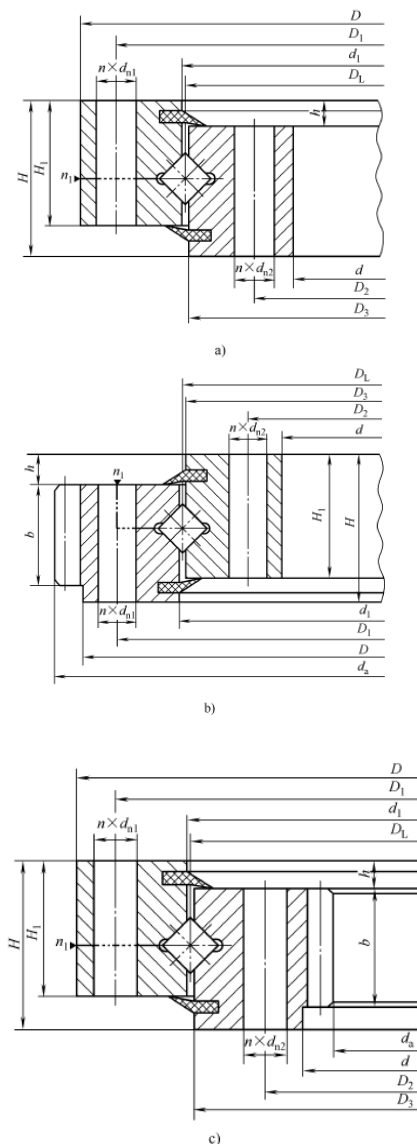
5. Cross Roller Slewing Bearing

The cross roller slewing bearing can carry axial load, tilting moment and radial load all at the same time. The design and application of the cross cylindrical roller slewing bearings are basically the same as those of the four-point contact ball slewing bearing, except that the rolling elements are substituted from balls into rollers and the contact way between the rolling elements and rings is changed from point contact into line contact. Those changes allow for the carrying capacity to be increased, but the wear and the friction moment load are also increased. As the rollers are 1:1 cross arranged, it is suitable for high precision mounting and capable to bear axial force. The complement of a full set of rollers is usually taken when the load is heavier. However, the greater frictional resistance could cause groove marks around the circle where rollers and raceway contact. This slewing bearing with a design of a full complement of rollers is mainly applied in the condition where a heavier axial load is the primary load, and the requirement for tilting moment and friction moment is not so high.

The single-row crossed roller Slewing Bearings are widely used for hoisting, transporting, engineering machines as well as for military products.



Without Gear
Internal Gear
External Gear





No.	Model			Dimension			Mounting Dimension						Structural Dimension				Gear		Ext Gear		Inn Gear						
	Without Gear	Ext Gear	Int Gear	D	d	H	D_1	D_2	d_{n1} d_{n2}	d_{n1} d_{n2}	L	n	n_1	D_3	d_1	H_1	h	b	m	d_a	z	d_a	z				
				mm										mm						mm							
1	110.25.500	111.25.500	113.25.500	602	398	75	566	434	18	M16	32	20	4	498	502	65		60	5	629	123	367	74				
		112.25.500	114.25.500																6	628.8	102	368.4	62				
2	110.25.560	111.25.560	113.25.560	662	458		626	494				628		632	24				558	562	6	5	689	135	427	86	
		112.25.560	114.25.560																			6	688.8	112	428.4	72	
3	110.25.630	111.25.630	113.25.630	732	528		696	564				776		644	30				708	712	8	6	772.8	126	494.4	83	
		112.25.630	114.25.630																			8	774.4	94	491.2	62	
4	110.25.710	111.25.710	113.25.710	812	608		776	644				854.4		104	571.2				72	798	802	10	6	850.8	139	572.4	96
		112.25.710	114.25.710																				8	854.4	104	571.2	72
5	110.28.800	111.28.800	113.28.800	922	678		878	722	978	822	22	M20	40	30	6				798	802	72	65	8	966.4	118	635.2	80
		112.28.800	114.28.800																				10	968	94	634	64
6	110.28.900	111.28.900	113.28.900	1 022	778	978	822	998	1 002	36	1 118	1 122	8	1 062.4	130	739.2	93										
		112.28.900	114.28.900											10	1 068	104	734	74									
7	110.28.1000	111.28.1000	113.28.1000	1 122	878	1 078	922	1 198	1 042	26	M24	48	40	5	1 248	1 252	81	75	10	1 188	116	824	83				
		112.28.1000	114.28.1000																12	1 185.6	96	820.8	69				
8	110.25.1120	111.25.1120	113.25.1120	1 242	998	1 198	1 042	1 305.6	106	940.8	79	1 449.6	118	1 048.8	88	14	1 453.2	101	1 041.6	75	12	1 605.6	131	1 192.8	100		
		112.25.1120	114.25.1120																							10	1 298
9	110.32.1250	111.32.1250	113.32.1250	1 390	1 110	1 337	1 163	1 487	1 313	26	M24	48	40	5	1 248	1 252	81	75	12	1 449.6	118	1 048.8	88				
		112.32.1250	114.32.1250																14	1 453.2	101	1 041.6	75				
10	110.32.1400	111.32.1400	113.32.1400	1 540	1 260	1 487	1 313	1 487	1 313	26	M24	48	40	5	1 398	1 402	81	75	12	1 605.6	131	1 192.8	100				
		112.32.1400	114.32.1400																14	1 607.2	112	1 195.6	86				

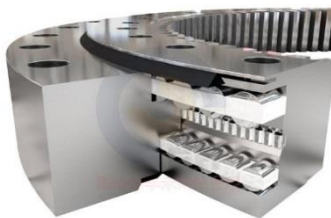
No ·	Model			Dimension			Mounting Gear						Structural Dimension				Gear		Ext Gear		Int Gear		
	Without Gear	Ext Gear	Int Gear	D	d	H	D_1	D_2	d_{n1} d_{n2}	d_{n1} d_{n2}	L	n	n_1	D_3	d_1	H_1	h	b	m	d_a	z	d_a	z
				mm								n	mm									z	mm
11	110.32.1600	111.32.1600	113.32.1600	1 740	1 460	91	1 687	1 513	26	M24	48	45	5	1 598	1 602	81	10	75	14	1 817.2	127	1 391.6	100
		112.32.1600	114.32.1600																16	1 820.8	111	1 382.4	87
12	110.32.1800	111.32.1800	113.32.1800	1 940	1 660	91	1 887	1 713	33	M24	48	45	5	1 798	1 802	81	10	75	14	2 013.2	141	1 573.6	113
		112.32.1800	114.32.1800																	2 012.8	123	1 574.4	99
13	110.40.2000	111.40.2000	113.40.2000	2 178	1 825	112	2 110	1 891	33	M30	60	48	8	1 997	2 003	100	12	90	16	2 268.8	139	1 734.4	109
		112.40.2000	114.40.2000																18	2 264.4	123	1 735.2	97
14	110.40.2240	111.40.2240	113.40.2240	2 418	2 065	112	2 350	2 131	33	M30	60	48	8	2 237	2 243	100	12	90	16	2 492.8	153	1 990.4	125
		112.40.2240	114.40.2240																18	2 498.4	136	1 987.2	111
15	110.40.2500	111.40.2500	113.40.2500	2 678	2 325	112	2 610	2 391	33	M30	60	48	8	2 497	2 503	100	12	90	18	2 768.4	151	2 239.2	125
		112.40.2500	114.40.2500																20	2 776	136	2 228	112
16	110.40.2800	111.40.2800	113.40.2800	2 978	2 625	112	2 910	2 691	33	M30	60	48	8	2 797	2 803	100	12	90	18	3 074.4	168	2 527.2	141
		112.40.2800	114.40.2800																	3 076	151	2 528	127
17	110.50.3150	111.50.3150	113.50.3150	3 376	2 922	134	3 286	3 014	45	M42	84	56	10	3 147	3 153	122	12	110	20	3 476	171	2 828	142
		112.50.3150	114.50.3150																22	3 471.6	155	2 824.8	129
18	110.50.3550	111.50.3550	113.50.3550	3 776	3 322	134	3 686	3 414	45	M42	84	56	10	3 547	3 553	122	12	110	20	3 876	191	3 228	162
		112.50.3550	114.50.3550																22	3 889.6	174	3 220.8	147
19	110.50.4000	111.50.4000	113.50.4000	4 226	3 772	134	4 136	3 864	45	M42	84	56	10	3 997	4 003	122	12	110	25	4 329.6	194	3 660.8	167
		112.50.4000	114.50.4000																25	4 345	171	3 660	147
20	110.50.4500	111.50.4500	113.50.4500	4 726	4 272	134	4 636	4 364	45	M42	84	56	10	4 497	4 503	122	12	110	22	4 835.6	217	4 166.8	190
		112.50.4500	114.50.4500																25	4 845	191	4 160	167

6. Three-Row Roller Slewing Bearing

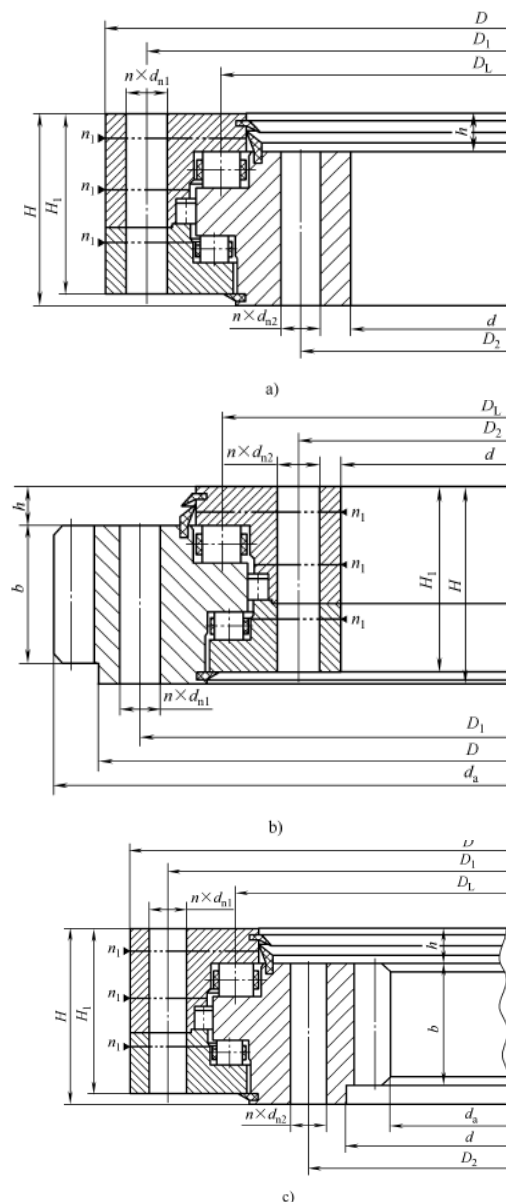
The three row cylindrical roller combined slewing bearing can carry axial load, tilting moment, and radial load all at the same time. Compared to cross-cylindrical roller slewing bearing the load of each roller is reduced. Point contact is changed into line contact compared with that of a double row ball slewing bearing, so the contact stresses are also decreased. Therefore, the load capacity of this design of slewing bearing is the highest under the conditions of a bearing with the same boundary dimensions.

The three row cylindrical roller combined slewing bearing mainly consists of the components such as inner ring, outer ring, three rows of rollers, cage (spacing blocks), a seal device etc. This slewing bearing design is suitable for most applications where a large axial load and tilting moment, or with a larger radial load, or with a low requirement for friction moment.

Three row rollers slewing bearing, which is matching with port crane. Due to has high carrying capacity. It is also widely used in the bucket, overweight transportation machinery, port machinery, mining machinery, and construction machinery, park recreation machine, filling machine, missile launchers and other large rotary device.



Without Gear
Internal Gear
External Gear





No.	Model			Dimension			Mounting Dimension						Structural Dimension				Gear		Ext Gear		Int Gear		
	Without Gear	Ext Gear	Int Gear	D	d	H	D_1	D_2	d_{n1} d_{n2}	d_{n1} d_{n2}	L	n	n_1	H_1	h		b	m	d_a	z	d_a	z	
				mm											n_1	mm		mm				mm	
1	130.25.500	131.25.500	133.25.500	634	366	148	598	402	18	M16	32	24	4	138	32		80	5	664	130	337	68	
		132.25.500	134.25.500															6	664.8	108	338.4	57	
2	130.25.560	131.25.560	133.25.560	694	426		658	462				28		138	32			80	5	724	142	397	80
		132.25.560	134.25.560																6	724.8	118	398.4	67
3	130.25.630	131.25.630	133.25.630	764	496		728	532				28		138	32			80		6	806.4	98	459.2
		132.25.630	134.25.630																6	806.4	98	459.2	58
4	130.25.710	131.25.710	133.25.710	844	576		808	612				28		138	32			80		6	886.8	145	536.4
		132.25.710	134.25.710																8	886.4	108	539.2	68
5	130.32.800	131.32.800	133.32.800	964	636		920	680				36		172	40			120		8	1 006.4	123	595.2
		132.32.800	134.32.800																10	1 008	98	594	60
6	130.32.900	131.32.900	133.32.900	1 064	736		1 020	780				40		172	40			120		8	1 102.4	135	691.2
		132.32.900	134.32.900																10	1 108	108	694	70
7	130.32.1000	131.32.1000	133.32.1000	1 164	836		1 120	880				40		172	40			120		10	1 218	119	784
		132.32.1000	134.32.1000																12	1 221.6	99	784.8	66
8	130.32.1120	131.32.1120	133.32.1120	1 284	956		1 240	1 000				40		172	40			120		10	1 338	131	904
		132.32.1120	134.32.1120																12	1 341.6	109	904.8	76
9	130.40.1250	131.40.1250	133.40.1250	1 445	1 055		1 393	1 107				45		210	50			150		12	1 509.6	123	988.8
		132.40.1250	134.40.1250																14	1 509.2	105	985.6	71
10	130.40.1400	131.40.1400	133.40.1400	1 595	1 205	220	1 543	1 257	26	M24	48	45	210	50		150	12	1 665.6		136	1 144.8	96	
		132.40.1400	134.40.1400														14	1 663.2	116	1 139.6	82		



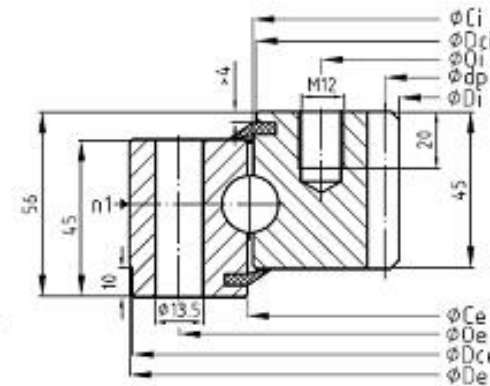
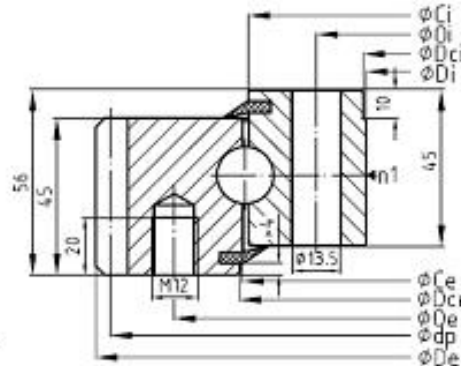
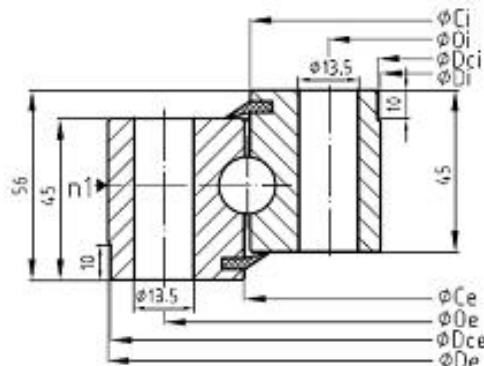
No.	Model			Dimension			Mounting Dimension						Structural dimension			Gear		Ext Gear		Int Gear	
	Without Gear	Ext Gear	Int Gear	D	d	H	D_1	D_2	d_{n1} d_{n2}	d_{n1} d_{n2}	L	n	n_1	H_i	h	b	m	d_a	z	d_a	z
				mm						mm						mm					
11	130.40.1600	131.40.1600	133.40.1600	1 795	1 405	220	1 743	1 457	26	M24	48	48	6	210	50	150	14	1 873.2	131	1 335.6	96
		132.40.1600	134.40.1600														16	1 868.8	114	1 334.4	84
12	130.40.1800	131.40.1800	133.40.1800	1 995	1 605	220	1 943	1 657	26	M24	48	48	6	210	50	150	14	2 069.2	145	1 531.6	110
		132.40.1800	134.40.1800														16	2 076.8	127	1 526.4	96
13	130.45.2000	131.45.2000	133.45.2000	2 221	1 779	231	2 155	1 845	33	M30	60	60	6	219	54	160		16	2 300.8	141	1 702.4
		132.45.2000	134.45.2000														18		2 300.4	125	1 699.2
14	130.45.2240	131.45.2240	133.45.2240	2 461	2 019	231	2 395	2 085	33	M30	60	60	6	219	54	160	16	2 556.8	157	1 926.4	121
		132.45.2240	134.45.2240															18	2 552.4	139	1 933.2
15	130.45.2500	131.45.2500	133.45.2500	2 721	2 279	231	2 655	2 345	33	M30	60	72	8	219	54	160	20		2 822.4	154	2 185.2
		132.45.2500	134.45.2500															18	2 816	138	2 188
16	130.45.2800	131.45.2800	133.45.2800	3 021	2 579	231	2 955	2 645	33	M30	60	72	8	219	54	160	18	3 110.4	170	2 491.2	139
		132.45.2800	134.45.2800															20	3 116	153	2 488
17	130.50.3150	131.50.3150	133.50.3150	3 432	2 868	270	3 342	2 958	45	M42	84	72	8	258	65	180	20		3 536	174	2 768
		132.50.3150	134.50.3150															22	3 537.6	158	2 758.8
18	130.50.3550	131.50.3550	133.50.3550	3 832	3 268	270	3 742	3 358	45	M42	84	72	8	258	65	180	20	3 936	194	3 168	159
		132.50.3550	134.50.3550															22	3 933.6	176	3 154.8
19	130.50.4000	131.50.4000	133.50.4000	4 282	3 718	270	4 192	3 808	45	M42	84	72	8	258	65	180	22		4 395.6	197	3 616.8
		132.50.4000	134.50.4000															25	4 395	173	3 610
20	130.50.4500	131.50.4500	133.50.4500	4 782	4 218	270	4 692	4 308	45	M42	84	72	8	258	65	180	22	4 901.6	220	4 122.8	188
		132.50.4500	134.50.4500															25	4 895	193	4 110

7. Light Type EU Standard Slewing Bearing

Thin Section

Light type profile EU standard slewing bearing has the same structure with general slewing bearing, It features in weight, swivel flexible. It is widely used in Food machinery, Filling machinery, Environment protection machine etc.

It is one series of single row ball slewing ring with compact structure and lighter weight, when met the same diameter requirement. The cost is lower, It is served as European standard product.





Light EU standard Slewing Bearing

Mode	Raceway Diameter (mm)	De Dce Di Dci (IT9) (IT9) (mm) (mm) (mm) (mm)	Oe Oi ne ni n1 (mm) (mm)	Ci Ce (mm) (mm)	dp m Z x (mm) (mm) (mm)	Weigh kg
QU20.414	414	486 484 342 344	460 368 24 24 4	412.5 415.5	· · · ·	29
QU20.544	544	616 614 472 474	590 498 32 32 4	542.5 545.5	· · · ·	37
QU20.644	644	716 714 572 574	690 598 36 36 4	642.5 645.5	· · · ·	44
QU20.744	744	816 814 672 674	790 698 40 40 4	742.5 745.5	· · · ·	52
QU20.844	844	916 914 772 774	890 798 40 40 4	842.5 845.5	· · · ·	60
QU20.944	944	1016 1014 872 874	990 898 44 44 4	942.5 945.5	· · · ·	67
QU20.1094	1094	1166 1164 1022 1024	1140 1048 48 48 4	1092.5 1095.5	· · · ·	77

Outer Gear

QW20.414	414	505 417 342 344	455 368 20 24 4	412.5 415.5	495 5 99 0	31
QW20.544	544	640 547 472 474	585 498 28 32 4	542.5 545.5	630 6 105 0	43
QW20.644	644	742 647 572 574	685 598 32 36 4	642.5 645.5	732 6 122 0	52
QW20.744	744	838 747 672 674	785 698 36 40 4	742.5 745.5	828 6 138 0	59
QW20.844	844	950 847 772 774	885 798 36 40 4	842.5 845.5	936 8 117 0	71
QW20.944	944	1046 947 872 874	985 898 40 44 4	942.5 945.5	1032 8 129 0	77
QW20.1094	1094	1198 1097 1022 1024	1135 1048 44 48 4	1092.5 1095.5	1184 8 148 0	91

Inner Gear

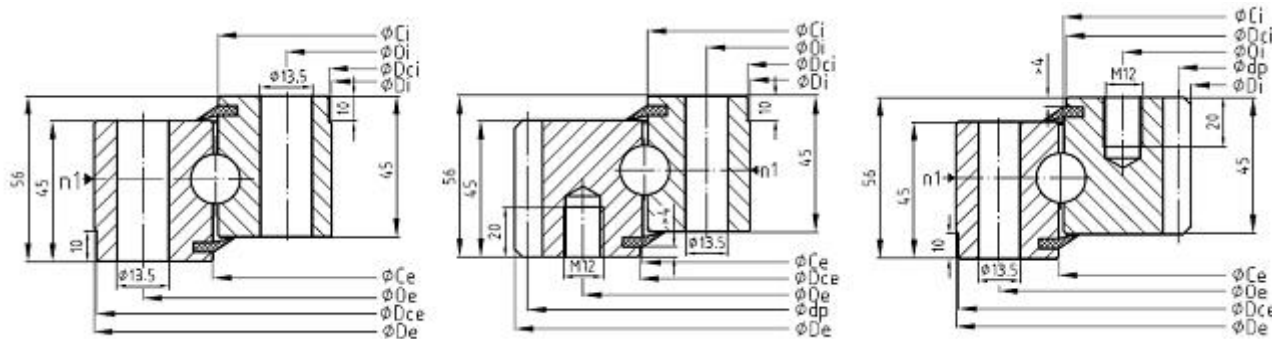
QN20.414	414	486 484 325 411	460 375 24 24 4	412.5 415.5	335 5 67 0	31
QN20.544	544	616 614 446 541	590 505 32 32 4	542.5 545.5	456 6 76 0	42
QN20.644	644	716 714 548 641	690 605 36 36 4	642.5 645.5	558 6 93 0	50
QN20.744	744	816 814 650 741	790 705 40 40 4	742.5 745.5	660 6 110 0	58
QN20.844	844	916 914 738 841	890 805 40 40 4	842.5 845.5	752 8 94 0	69
QN20.944	944	1016 1014 842 941	990 905 44 44 4	942.5 945.5	856 8 107 0	76
QN20.1094	1094	1166 1164 986 1091	1140 1055 48 48 4	1092.5 1095.5	1000 8 125 0	91

n1: M8×1

Light Slewing Bearing With Flange

Light type profile slewing bearing has the same structure with general slewing bearing, it features in weight, swivel flexible . It is widely used in food machinery , filling machinery , environment protection machine and so on .

Widely applied on larger diameter and limited heavy machinery, light bearing capacity, More for light machinery like small crane, Manual lift, Turntable ladder and so on.





Model	Raceway	De	Di	Oe	Oi	ne	ni	n1	Ci	Ce	Be	Bi	dp m Z x				Weigh
	Diameter	(mm)	(mm)	(mm) (mm)					(mm)	(mm)	(mm) (mm)		(mm) (mm) (mm)			kg	
	(mm)																
FU20.414	414	518	304	490	332	8	12	4	412,5	415,5	454	368	•	•	•	•	23
FU20.544	544	648	434	620	462	10	14	4	542.5	545.5	584	498	•	•	•	•	31
FU20.644	644	748	534	720	562	12	16	4	642.5	645.5	684	598	• • • •				37
	744	848	634	820	662	12	16	4	742.5	745.5	784	698	• • • •				
	844	948	734	920	762	14	18	4	842.5	845.5	884	798	• • • •				
FU20.944	944	1048	834	1020	862	16	20	4	942.5	945.5	984	898	• • • •				54
FU20.1094	1094	1198	984	1170	1012	16	20	4	1092.5	1095.5	1134	1048	• • • •				63
Outer Gear																	
FW20.414	414	505	304	455	332	10	12	4	412,5	415,5	•	368	495 5 99 0				30
FW20.544	544	640	434	585	462	14	14	4	542.5	545.5	•	498	630 6 105 0				42
FW20.644	644	742	534	685	562	16	16	4	642.5	645.5	•	598	732 6 122 0				49
FW20.744	744	838	634	785	662	18	16	4	742.5	745.5	•	698	828 6 138 0				55
FW20.844	844	950	734	885	762	18	18	4	842.5	845.5	•	798	936 8 117 0				66
FW20.944	944	1046	834	985	862	20	20	4	942.5	945.5	•	898	1032 8 129 0				72
FW20.1094	1094	1198	984	1135	1012	22	20	4	1092.5	1095.5	•	1048	1184 8 148 0				84
Inner Gear																	
FN20.414	414	518	325	490	375	8	12	4	412,5	415,5	454	•	335 5 67 0				28
FN20.544	544	648	446	620	505	10	16	4	542.5	545.5	584	•	456 6 76 0				38
FN20.644	644	748	548	720	605	12	18	4	642.5	645.5	684	•	558 6 96 0				45
FN20.744	744	848	650	820	705	12	20	4	742.5	745.5	784	•	660 6 110 0				52
FN20.844	844	948	738	920	805	14	20	4	842.5	845.5	884	•	752 8 94 0				62
FN20.944	944	1048	842	1020	905	16	22	4	942.5	945.5	984	•	856 8 107 0				68
FN20.1094	1094	1198	986	1170	1055	16	24	4	1092.5	1095.5	1134	•	1000 8 125 0				82
n1: M8×1																	

