



Slewing Bearing Catalog





Company Profile



Aerial view of the LYC facility in Luoyang

LYC is the largest bearing manufacturer in China. Its product range covers over 6,000 sizes in 9 categories and are available in every precision tolerance class. The products OD size range varies from 10mm up to a maximum 5.44 meters, bearing weights range from 25.4 grams up to 15 tons, the annual manufactured volume output is in excess of 70 million pieces.

LYC bearings have been, and continue to be successfully used in many and varied applications some of the following are but a few of the typical applications: Automotive, Mining Industry, Steel Industry, Petrochemicals, Power Generation Industry, Trucks, Agricultural Machinery, Textile Industry, Railways, Ships, Aviation and Space Flight.

LYC's Technology and Design Center have designed, developed and produced prototypes for every imaginable application. This center works closely with their customers' so as to ensure their demands in efficiency, performance, life expectancy, and cost effectiveness are all met.

LYC's reputation is based on the Quality and Competitiveness of its products. In order to be internationally recognized for their quality the Luoyang Bearing Corp (Group) have gained and continue to maintain their ISO 9001 status. Additionally LYC's 6 subsidiaries have attained the ISO 9002 status and the Automotive Division has also been awarded ISO 9000 (VDA6.1 & ISO/TS16949)

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INTRODUCTION TO SLEWING BEARINGS

The multiple-varied designs and use of specialty steels currently available today has allowed LYC to provide industry and commerce with the ability to increase loading capacities, reduce size and extend life expectancy beyond previously used Slewing Bearing designs. These bearing designs and their application must take into account a number of complex dynamic forces e.g.: Axial/Thrust Loads, High Radial Loads, and Moment Loads. Today's Slewing Bearings are used in some of the following industries and applications: Construction Industry, Excavation Industry, Wind Turbines, Medical Equipment, Radar, Military Applications, Rail/ Transit Industry and Oil industry to name but a few.

There are a number of basic designs that are best suited to individual applications, these can often be adapted by a mixture of categories to optimize performance, improve reliability and provide the most cost effective, efficient solution. The following are some categories available today: Four and Eight Point Contact Ball, Three Row Roller, Bi-angular Roller and Taper designs. Drives are provided by inner or outer gear-drive, or driven directly by the inner or outer-ring.





FOUR-POINT CONTACT BALL

Four-point contact ball bearings are suited to axial, radial, and moment loads. The four point contact is distributed between the balls and the two split raceways. The precision grinding and geometry of the ball and deep grove raceway allow for the application of increased thrust and moment capacity. Typical applications for these bearings are: Machine Tools, Radar, Medical Equipment and Construction Equipment. Sizes range from 260mm to 4850mm.

THREE ROLLER CONFIGURATION

These designs provide for the highest load rating of all designs. The three roller configurations allow for the two rollers in the vertical axis to take both axial and moment loads from the two adjacent raceways, whilst the third roller facilitates the radial load. Typical applications for these designs are in Construction, Opencast Mining and Marine applications.



DOUBLE-ROW ANGULAR CON-TACT THRUST BALL

The eight point contact bearing design in principal is the same as the four point contact bearing with an additional ball and raceway configuration placed adjacent in the vertical axis's, this allows for loading to be evenly distributed between the two raceway arrangements, this configuration will allow for an increase in loading capacity of between 75 - 80% as opposed to the four point contact bearing, with additional dynamic forces being made available of up to 50% (approximately).

SINGLE CROSSOVER (BI-ANGULAR) ROLLER CYLINDRICAL OR TAPER

The roller and raceway orientation are positioned at 45 degrees to the axis. The static loading capacities for these designs relative to the roller surface contact area are superior as opposed to the four and eight point contact bearings, additionally; the rigidity in this design allows for higher rotational speeds and will allow for a greater degree of misalignment in mounting. However, radial thrust limitations are less than that of the four and eight point contact bearing design.







SLEWING RING APPLICATION

Taking into account the complexity in slewing ring and table bearing applications the following should be given careful consideration: fixed static loads, speed, accuracy, friction torque, seals, lubrication, mounting, size limitations and variables in axial, radial, and moment loads. Additional technical consideration should be provided to gear drive and ratio, its location either inner or outer location (if required). LYC highly recommend that customers contact the LYC SR Division Technical Department to confirm any calculations they may have conducted themselves before selecting a LYC slewing ring. LYC have inserted a SR Application Dynamics Questionnaire (Page 20); this questionnaire will allow the LYC SR Div Technical Department to provide their customers with the "Best Fit Solution" for their application.







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PART NUMBER DESIGNATION

Due to the complexity and variation in design of slewing bearings LYC have adopted two differing representations in-order to provide meaning to their part numbers, detailed opposite in Representation 1 are the prefix's for the construction of the part number, these identify the bearings design, the numbers following this prefix identify the following information: number of rolling elements, raceway structure, form and gear mesh mode, rolling element diameter, rolling element center circle diameter, material, and roughcast form. These are further explained in Representation 2 below.



Bearings for wind energy generator



Split bearings



Slewing bearings



Insulated bearings



High precision bearings for rolling mill

REPRESENTATION 1:

TYPE AND CON- FIGURATION	TYPE WITHOUT GEAR	TYPE WITH OUTER GEAR	TYPE WITH INNER GEAR
Four-point contact ball slewing bearing	78000	178000	278000
Double row angular contact thrust ball slewing bearing	578000	678000	778000
Cross cylindrical roller slewing bearing	79000	179000	279000
Cross tapered roller slewing bearing	579000	679000	779000
Three row cylindrical roller combined slewing bearing	539000	639000	739000

REPRESENTATION 2:

The construction of the LYC slewing bearing part number is identified below; these part numbers are segmented into four numeric units, with the first segment containing three sub-sections.

×	\times	\times	× ×	\times \times \times \times	\times \times
1	2	3	4	5	6

1. Type of rolling element: 0—ball 1—roller

2. Raceway structure form:

- 1-four-point contact ball form or cross-cylindrical roller form
- 2—eight-point contact ball form or cross tapered roller form
- 3—three-row cylindrical roller form
- 3. Gear mesh form: 0—no gear; 1—external gear with small module; 2—external gear with large module;

- 3—internal gear with small module:
- 4—internal gear with large module;
- 4. Diameter of rolling element (mm)
- 5. Center circle diameter of rolling element (mm)
- 6. Material and provided state of roughcast

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RINGS AND ROLLING ELEMENT

Generally slewing bearing rings and their rolling elements are manufactured from through-hardening alloys (GCr15 or GCr15SiMn) these are equivalent to the AISI-SAE 52100 or E52100 family of alloys. LYC can provide additional material specifications, dependent on their customer's requests. Additional materials that can be used are 50Mn (equivalent to AISI C1050 OR SAE 1052), 42CrMo (equivalent to AISI-SAE 4140) or 5CrMnMo(equivalent to AISI-SAE V1G)

Table 3	Axial Cle	arance In .	Four-Poin	nt Contact	Ball Slew	ing Beari	ngs µm				
Dpw		Tolerand	Tolerance Classes								
		G		Ε		D					
mm		Axial Cl	Axial Clearance								
Over	Incl	Min	Max	Min	Max	Min	Max				
280	450	70	170	50	130	30	90				
450	710	100	220	70	170	40	120				
710	1120	120	280	100	220	50	150				
1120	1800	150	350	100	260	60	180				
1800	2800	200	440	150	350	80	240				
2800	4500	260	540	200	440	100	300				

Table 5	Crossed C	Sylindrical H	vlindrical Roller Slewing Bearings μm							
Dpw		Tolerance	e Classes							
		G		Ε		D				
mm		Axial Inte	Axial Internal Clearance							
Over	Incl	Min	Max	Min	Max	Min	Max			
280	450	50	130	30	90	25	70			
450	710	70	170	40	120	30	90			
710	1120	100	220	50	150	40	120			
1120	1800	100	260	60	180	40	140			
1800	2800	150	350	80	240	60	180			
2800	4500	200	440	100	300	80	240			

INTERNAL CLEARANCE

In order to ensure that Slewing Bearings operate smoothly they are set with an internal clearance, this clearance also accommodates for some degree of distortion within the mounting frame structures, these clearances vary depending on size, type, and grade classification of the bearing. These clearances are shown in the Tables below 3-6.

Dpw		Tolerance Classes								
	G		Ε		D					
mm		Axial In	nternal Cl	earance						
Over	Incl	Min	Max	Min	Max	Min	Max			
280	450	50	130	30	90	25	70			
450	710	70	170	40	120	30	90			
710	1120	100	220	50	150	40	120			
1120	1800	100	260	60	180	40	140			
1800	2800	150	350	80	240	60	180			
2800	4500	200	440	100	300	80	240			

Table 4Two-row Angular Contact Thrust Ball Slewing Bearings μm

Table 6 Three-row Cylindrical Roller Combination Slewing Bearings µm

5		Tolera	Tolerance Classes										
Dpw		G				Ε				D			
mm		Axial		Radial	!	Axial		Radia	!	Axial		Radia	!
Over	Incl	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
280	450	30	90	50	130	25	70	30	90	10	50	25	70
450	710	40	120	70	170	30	90	40	120	15	65	30	90
710	1120	50	150	100	220	40	120	50	150	20	80	40	120
1120	1800	60	180	100	260	40	140	60	180	20	100	40	140
1800	2800	80	240	150	350	60	180	80	240	30	130	60	180
2800	4500	100	300	200	440	80	240	100	300	40	160	80	240

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PACKING AND STORAGE

All LYC slewing bearings leave their factory with rust inhibitor lubricant coatings on both the inner and outer surfaces. Bearings are generally Kraft paper wrapped, with larger bearings have an additional Poly-wrap seal. Individual wooden packaging is manufactured for larger bearings, these packaging systems allow for easier transportation, handling and storage.

Bearings should be stored in a clean, dry and chemical free environment, (not outside). They should be well supported preferably on a flat surface in the horizontal position, if several bearings of equal size are to be stored they should be stacked, again, in the horizontal position with equal in size dividing blocks at a minimum 120 degrees around the top and bottom of the corresponding surfaces of each bearing. These bearings can be stored for up to 12 months from the date of manufacture without any additional maintenance. For bearings that remain in storage over 12 months these should have their grease and rust preventative coatings removed, once cleaned these surfaces should be re-coated and the bearing re-greased, LYC recommend that guidance should be sought from LYC in order to carry out this storage maintenance task, should it be required.

LUBRICATION AND SEALS

In order to ensure that bearings perform inline with specifications and customer requirements they are generally greased prior to delivery to the customer with one of the greases identified in Table 7, unless otherwise specified by the customer to be only lightly lubed. The choice of grease can also be a critical item in the design and performance criteria, consideration should be provided to the bearings working environment, some of these considerations are: speed, temperature, pressure and the possibility of contamination ingress. The most common greases used today for general applications are Calcium or Lithium soap based greases, with Aluminum based grease being used in higher temperature applications..

Seals play another important part in the bearings ability to perform correctly and aid in its reliability and longevity during its service life. The prime objective of these mechanisms is to ensure that contaminants e.g.: water or any type of dust particles are not allowed to enter the rolling elements or their corresponding raceways, and retain lubrication. Generally Nitrile seals are used; however, Labyrinth, Nylon, or Teflon configurations can be applied for even more effective sealing solutions. The selection of a particular sealing solution, in many respects, is focused on the bearings working environment.



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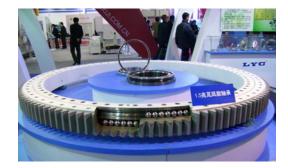


Table 7: Lubrication and seals

Structure and coole stula	W	orking	Lubrication	Lubrication Grease	
Structure and seals style	Со	ndition	Position	Description	Name
	low temperature ,				ZG3
Massively, segmented cage or plastic partition	normal	-40 ℃ +60 ℃	Raceway	calcium lubrication grease	ZG4
	temperature,	-40 0 +00 0			ZG5
Rubber seals	dampness;		Gear	blacklead calcium lubrication grease	ZGS
					ZL-1
			Raceway	lithium lubrication grease	ZL-2
Multilayer partitions		40 ℃ 140 ℃		MoS2 complex calcium lubrication grease	No.3
	high temperature,		Gear	No.4 high temperature lubrication grease	ZN6-4
	dampness		Raceway	MoS2 complex calcium lubrication grease	NO,2
		80 °C 180 °C	Gear	No.4 high temperature lubrication grease	ZN6-4
Labyrinth type seal		normal temperature,	Raceway	No.2 lithium lubrication grease	ZU-2
		corrosionproof 50 $^\circ\!$	Gear	No.2 lithium lubrication grease	ZU-2





INSTALLATION AND MAINTENANCE

LYC take great care in producing slewing bearings for their customers, these rings, balls & rollers are precision bearing components, it is important that the assembler take care to install these bearings inline with the manufacturer's instructions, in order to ensure efficient and effective operation of their customer's equipment. Prior to installation a close inspection should be performed so as to ensure that upper and lower mounting surfaces are flat level and parallel to each other (see Table & Graph opposite), these surfaces should be paint free, free from indentations, burrs or any other contaminant that could cause distortion or misalignment between the inner and outer ring when mounted to their corresponding surfaces. The surfaces themselves should have sufficient hardness and have such a structure so as to avoid distortion or deflection when the bearing is under load. Table 8 opposite provides clear indication as to the acceptance criteria for mounting surfaces for these types of bearings. The bearing should be brought into position by either firmly secured eyebolts or nylon strops, in both cases a minimum of three supports should be applied. The LYC slewing bearing has a soft zone marked with an "S" on the outerring; this location is in direct line with the load-hole plug, it is important that this area is located at 90 degrees to the major load zone. In order to ensure that the bearing is operating with minimum torque install the lock down bolts but do not tighten, measure this torque value over 360 degrees so as to ensure correct alignment for both inner and outer ring, also any pinion gear drive that may apply. Providing these resistances are acceptable then the lock down may begin in the transverse directional manner, prior to this lock down there should be enough pre-load applied to equal 70% of the field limit. Bolts should be torqued in accordance with their size, grade and bolt manufacturers specification, Table 9 shows an indication as to these recommended values, the use of any type of lock washer is prohibited from any slewing ring installations.

dian DI o	Center hole diameter DI or D2 mm		Flatness a			Deviation of inclination pitch with same direction on circle adjacent unit length (L= a row pitch)					ation pito ial width δ		Surfi	ice roug Ra	hness	
								PREC	ISION CL	ASS						
OVE.	'R TO	G	E	D	G	E	D	G	E	D	G	E	D	G	E	D
250	400	120	80	50							60	40	25	2.5	1.25	0.8
400	630	150	100	60							80	50	30	2.5	12.5	0.8
630	100	200	120	80	4	TS	31	4	72	3L	100	60	40	2.2	12.5	0.8
1000	1600	250	150	100	0002L	0.000131	180000 O	0.0002L	0.00013L	0.0008L	120	80	50	3.2	2.5	1.25
1600	2500	300	200	120	0.0	0.0	0.0	0.0	0.0	0.0	150	100	60	3.2	2.5	1.25
2500	400	400	250	150	1						200	120	80	3.2	2.5	1.25
4000	6300	500	300	200	1						250	150	100	3.2	2.5	1.25

Table 8Technical Specifications for Bearing Surface

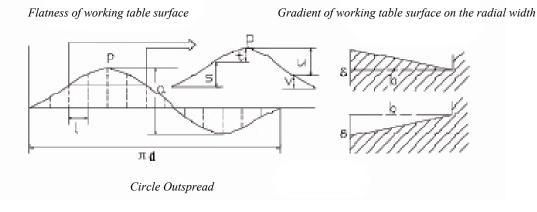




Table 9:

-	gth class o	of bolt	8.8			10.9			12.9 1100		
	SO898		M≤16 640			940			1100		
	of yielding	5	M<16 66	0							
N/n	nm2										
Dia.	Stress area	Section area	Pre- tightening force	Theoreti- cal fas- tener moment	torque NM	Pre- tightening force	Theoreti- cal fas- tener moment	torque NM	Pre- tightening force	Theoreti- cal fas- tener moment	torque NM
	mm2	mm2	FMN	MANm	M=0.9 MA	FMN	MANm	M=0.9 MA	FMN	MANm	M=0.9 MA
М5	14.2	12.7	6400	6.1	5.5	9300	8.9	8	10900		
<i>M6</i>	20.1	17.9	9000	10.4	9.3	13200	15.5	13.9	15400	10.4	9.3
<i>M8</i>	36.6	32.8	16500	25	22.5	24200	37	33	28500	18	16.2
<i>M10</i>	58	52.3	26000	51	45	38500	75	67	45000	43	38
<i>M12</i>	84.3	76.2	38500	87	78	56000	120	117	66000	87	78
<i>M14</i>	115	105	53000	140	126	77000	205	184	90000	150	135
<i>M16</i>	157	144	72000	215	193	106000	310	279	124000	240	216
<i>M18</i>	193	175	91000	300	270	129000	430	387	151000	370	333
M20	245	225	117000	430	387	166000	620	558	194000	510	459
M22	303	282	146000	580	522	208000	830	747	24300	720	648
M24	353	324	168000	740	666	239000	1060	954	280000	970	873
M27	459	427	221000	1100	990	315000	1550	1395	370000	1240	1116
M30	561	519	270000	1500	1350	385000	2100	1890	450000	1850	1665
M33	694	647	335000			480000			560000	2500	2250
M36	817	759	395000			560000			660000		
M39	976	913	475000			670000			790000		
M42	1120	1045	542000	need bolt	liquor	772000	need bolt	liquor	904000	need bolt	liquor
M45	1300	1224	635000	straining a	device	905000	straining	device	1059000	straining	device
M48	1470	1377	714000			1018000			1191000		
M52	1760	1652	857000			1221000			1429000		
M56	2030	1905	989000			1408000			1648000		
M60	2360	2227	1156000			1647000			1927000		

MAINTENANCE

In-order to ensure optimum performance and longevity of LYC slewing bearings in operation LYC recommend that after the first 100 hours of operation that the preload is checked and adjusted (if required) to the installation value. Relubrication should be applied preferably with the slow rotation of the bearing at the same time as injecting grease, in order to apply even distribution of the grease. Greasing should generally take place after 100 hours of operation, where the application is in fast turning equipment or in a continuous cycle operation then this re-greasing should take place after 8 hours of operation. If gears or pinion drives are integrated into these applications then this gearing should also be greased at these intervals. When these bearings are operating in extremely hostile conditions e.g.: extreme temperatures, excessively dusty environment or within a high moisture content environment then it is recommended that greasing intervals be closely reviewed, the **LYC** SR Technical Department will advise their customers on such issues as this. Automatic Greasing systems can be applied to these Bearings; however, this does not eliminate the visual inspections and bolt/mounting tension checks that are required periodically.

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CALCULATIONS FOR THE TYPE & SELECTION

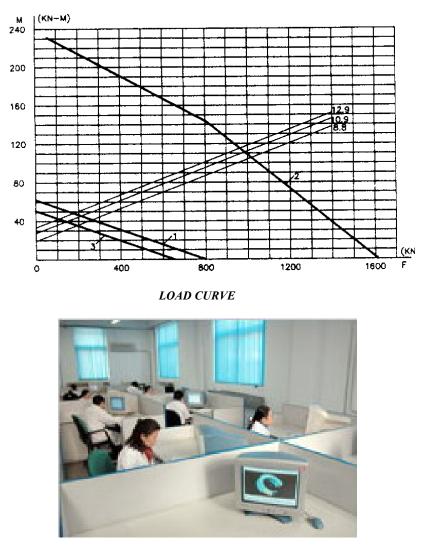
Unlike most other bearing applications slewing bearings are quiet often found to be working under extremely arduous conditions, typically misalignment (tilting), moment and impact loads are experienced regularly if not continually. Other factors to take into consideration are the physical constraints, circumferential forces that are incurred by any gear transmission. The previous and following sections in this catalog are only to serve as a guide towards a general understanding of the principals of slewing bearings. As mentioned previously LYC suggest that customers use the LYC SR Application Dynamics Questionnaire. Working with the content of these questionnaires and collaboration directly with the customer allows LYC to propose the most economical and "Best Fit Solution" for their customers.

LOAD CURVE CALCULATIONS

In order to understand the dynamics of applied forces and the bearings theoretical limitations during an operational mode LYC use well proven international formulas to show their bearings performance and limitations, much of this input data is initially extracted from the **SR** Application **Dynamics Questionnaire**. This input data can be used in a number of different models in order to find the "Best Fit Solution" The results of these load and service life curves etc provide a good understanding for the customer as to what they can expect from their bearing selection.

The load Curve Calculations shown opposite are for slewing bearings and are based on bearings being manufactured from 42CrMo, the allowance for the contact stress of these balls in this bearing are 3850Mpa, whilst that of the roller bearing is 2700Mpa. Curve 2 shows the carrying curve of the dynamic load rating with 90% reliability at 0.03×10^6 revolutions. Curve 3 shows the carrying curve of an allowed dead load when the slewing bearing is manufactured from 50Mn, the allowed contact stress for these balls within this bearing is 3400Mpa, whilst that of roller bearing would be 2100Mpa. The limiting load curve of a bolt is confirmed when the connected length is 4 times longer than the nominal diameter, and the pre-load is 70% of the yield limit of the bolt.

The load and bolt curve drawings shown in this catalog are only a small selection of the products currently available from LYC. If the part number you have selected does not have carrying curve drawing illustrated within this catalog then you should contact LYC SR Technical Department to obtain the carrying curve you require.



Technical center



TABLES & FORMULA FOR LOAD CALCULATIONS

The tables below show the style/type of bearing with the static and dynamic load condition formula applied to obtain the load profile.

Table 10		
Calculation Method Structure Type	<i>Equivalent static load according to static working condition</i>	Equivalent dynamic load of forecasting life according to dynamic condition
Four-point contact ball slewing bearing $(a=45^{\circ})$	When $Fr \leq 0.44 Fa$, $Fa'=(Fa+2.3Fr) \cdot fs$ when $Fr>0.44Fa$, Please contact LYC's relevant de- partment to obtain the calculation method of Fa' $M'=M \cdot fs$	When $Fr \ge 0.8Fa$, $Fa'=(0.59Fa+1.18Fr) \cdot fl$ when $Fr < 0.8Fa$, $Fa'=(Fa+0.66Fr) \cdot fl$ $M'=M \cdot fl$
Double row angular contact thrust ball slewing bearing	when $Fr \le 10\%Fa$, $Fa'=Fa \cdot fs$ when $Fr > 10\%Fa$, Please contact LYC's relevant de- partment to obtain the calculation method of Fa' $M'=M \cdot fs$	when $Fr \le 10\%$ Fa, $Fa' = Fa \cdot fl$ when $Fr > 10\%$ Fa, Please contact LYC's relevant department to obtain the calcu- lation method of Fa' $M'=M \cdot fl$
Slewing bearing with crossed cylindrical roller (a=45°)	when $Fr \le 0.44Fa$, $Fa'=(Fa+2.3Fr) \cdot fs$ when $Fr>0.44Fa$, Please contact LYC's relevant de- partment to obtain the calculation method of Fa' $M'=M \cdot fs$	when $Fr \ge 0.67Fa$, $Fa'=(0.67Fa+1.5Fr) \cdot fl$ when $Fr < 0.67Fa$, $Fa'=(Fa+Fr) \cdot fl$ $M'=M \cdot fl$
Three-row cylindrical roller	$Fa' = Fa \bullet Fs$ $M = M \bullet Fs$	$Fa' = Fa \bullet Fl$ M' = M•Fl
combined slewing bearing	Radial load Fr is carried by a line	of rollers beared radial load

Table 10



Extra-large wind energy bearing inspection

Where as:

Fa= general axial load carried by bearing (KN)
Fr= general radial load carried in the effective plane of moment by bearing (KN)
M= general tilting moment carried by bearing (KN-m)
Fa'= equivalent center axial load of bearing (KN)
M'= equivalent tilting moment of bearing (KN-m)
fs= safe index of static load
fl= load index of forecast life

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LOAD FACTOR & SERVICE LIFE FOR THE SELECTION OF BEAR-INGS

Similar to other bearing designs these slewing bearings are also provided with safety & load calculations, additionally there are calculated life expectancy values, understandably these life expectancy values are more often than not exceeded, as generally equipment is not fully loaded 100% of the time, where as the calculations include for a continual fully loaded state in the time element, these values are detailed opposite in Table 11



			Static load safety factor fs	Life load factor fl	Service life at full load revolution Lf (revolution)
ing platform	-	board crane, revolv- uired when running)	1.10	1.0	30000
	Fixed	<i>Mf≤0.5M</i>		1.0	30000
Tower crane for	on the	0.5M < Mf < 0.8M		1.15	45000
construction application	tower	<i>Mf≥0.8M</i>	1.25	1.25	60000
	Fixed	on the base		1.0	30000
Port frame cra	ine, ship cra	ine		1.15	45000
Metallurgical	works crane	?		1.5	100000
Truck crane (g Rotary type cru Wheel crane (g Bridge crane (Barge crane (g	ane (grab o grab or cup (grab or cup	ula) pula)	1.45	1.7	150000
Cordage grab Stacker declain Goods conveyo				2.15	300000
Railway crane			1.0		
Small transpor	rter		1.1		
Scraper			1.25	DI.	WAR ALVOT 1 . ID
Hydraulic deve point contact b		achine adopted four- bearing	1.25		ntact LYC Technical De- when selecting bearings
Adopt other ty capacity<1.51		g bearing, dipper	1.45]	
dipper capacit			1.75	1	
Ladle bogie			1.75		

Table 11

Note: Mf is free load tilting moment of minimum work-



METHOD OF CALCULATING SERVICE LIFE

LYC use the bearings load curve to forecast the service life of the bearing in relationship to the related load factor, this service-life can be calculated as per the load curve with the following formula:

$Lf=(fl)^{\varepsilon} \cdot 30000$ in the formula:

Lf= Service life of slewing bearing at full load (revolution). $\varepsilon = Life \ factor.$ $\varepsilon = 3(Ball \ bearing).$ $\varepsilon = 10/3(Roller \ bearing).$

fl=Fac/Fa'=Mc/M' in the formula:

Fac= Axial load of the cross point of the origin and the load point link line on the carrying curve KN. Mc= Tilting moment of the cross point of origin and load point link line on the carrying curve KN-m.

When slewing bearings are placed under fluctuating loads with variable cycle rates in their working time the calculation method that is applied is the average equivalent to the center axial load and the average equivalent of the tilting moment.

$Fa' = (n_1 \bullet Fa^{\varepsilon} + n_2 \bullet \cdots \bullet Fa^{\varepsilon}_2 + n_3 \bullet Fa^{\varepsilon}_3 + \dots + n_n \bullet Fa^{\varepsilon}_n)^{1/\varepsilon}$ $M' = (n_1 \bullet M^{\varepsilon}_1 + n_2 \bullet M^{\varepsilon}_2 + n_3 \bullet M^{\varepsilon}_3 + \dots + n_n \bullet M^{\varepsilon}_n)^{1/\varepsilon}$

Where as:

 $n_{1;}n_{2;}n_{3}...n_{n}$ = The percent of working time KN-m. $Fa_{1};Fa_{2};Fa_{3}....Fa_{n}$ = Axial dynamic load within the percent of working time KN.

 $M_1; M_2; M_3, \dots, M_n =$ Tilting moment within the percentage of working time of $n_1; n_2; n_3, \dots, n_n$ KN-m

Average life: $Lf = 1/(n_1/L_1 + n_2/L_2 + n_3/L_3 \dots n_n/L_n)$

In the formula: $L_1; L_2; L_3; L_n =$ Bearing life within the percentage of working time of $n_1; n_2; n_3, \dots, n_n$ (revolution)



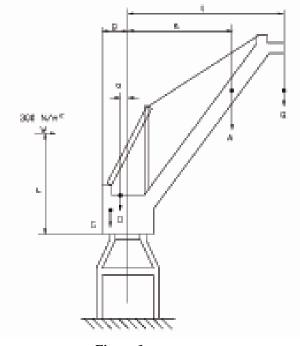




Selection Calculation and Example

Example1: A port frame crane is shown in figure 1 below, With a center of gyration is required to carry a load at 2.5m :

Q=196.2KN	$L_{max}=23m$
A=67KN	$a_{max}=11m$
<i>O</i> =450KN	o=0.75m
G=900KN	g=3m
W=27KN	<i>r</i> =6.5 <i>m</i>





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(1) The calculation below shows the result in the event the crane was overloaded by 25% Fa' = (Q * 1.25 + A + O + G + 2.3 + 2.3W) * fs = (196.2*1.25 + 67 + 450 + 900 + 2.3*27) * 1.25 = 2155.14KN $M' = (Q*1.25*Lmax + A*a_{max} + W*r - O*o - G*g) * 1.25$ = (196.2*1.25*23 + 67*11 + 27*6.5 - 450*0.75 - 900*3) * 1.25= 4394.7 KN-m

(2) If the circumferential force on the bearing gear was Ft=375KN, when the bearing is running then the calculation for the dynamic load would be as follows:

- $Fa' = Q + A + O + G + 0.66Ft^*tg20^\circ$ = 196.2+67+450+900+0.66*375tg20^° = 1703.3 KN
- $M' = Q*Lmax + A*a_{max} O*o G*g$
 - $= 196.2 \times 23 + 67 \times 11 450 \times 0.75 900 \times 3$

= 2212.1 KN-m

The calculation shows that a four-point contact ball slewing bearing with an internal gear 2789/2240 could be selected; this is identified below at the load curve points at curve 1 and curve 2 as shown in figure 2. Consequently the load requirement can be satisfied.

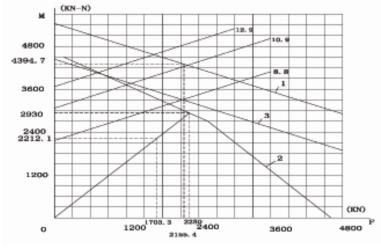


Figure 2 2789/2240 Slewing Bearing Load Curve

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The axial load at the point of the intersection of the line connected by the load curve at the point of origin of dynamic load point and load curve 2 is Fac= 2250KN; the tilting moment is Mc= 2930KN-m, the estimated bearing service life is:

fl=Fac/Fa'=2250/1703.3=1.32 fl=Mc/M'=2930/2212.1=1.32 $Lf=(1.32)^{3}*30000=69000(revolution)$ In accordance with the requirement of Table 12.

Table 12

Load point	Working time %	The load ca bearing	arried by	Load on the curve	e carrying
		Fa'KN	M' KN-m	Fac KN	Mc KN-m
1	10	1600	4400	1900	5200
2	25	2400	4000	2750	4580
3	60	3200	2800	3900	3420
4	5	3600	5200	3050	4350

Example 2:

The LY-Q005 four-point contact ball slewing bearing, for which the load curve is showed in Figure 3 and the load chart shown in Table 12.

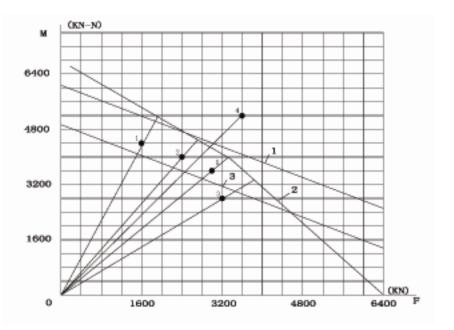


Figure 3 LY-Q005 Slewing Bearing Load Curve



Calculation Method 1:

Formula: $Lf = 1/(n_1/L_1 + n_2/L_2 + n_3/L_3 \dots n_n/L_n)$

Bearing life calculation working condition

Working hours 10% $fl_1 = Fac_1/Fa'_1 = 1900/1600 = 1.1875$ $fl_1 = Mc_1/M'_1 = 5200/4400 = 1.1818$ Choose minimum value $L_1 = (1.1818)^3 * 30000 \leq 49500$ (revolution)

Working hours 25% $fl_2 = Fac_2/Fa'_2 = 2750/2400 = 1.146$ $fl_2 = Mc_2/M'_2 = 4580/4000 = 1.145$ Choose minimum value $L_2(1.145)^3 * 30000 \cong 45000$ (revolution)

Working hours 60% $fl_3 = Fac_3/Fa'_3 = 3900/3200 = 1.219$ $fl_3 = Mc_3/M'_3 = 3420/2800 = 1.1221$ Choose minimum value $L_3 = (1.219)^3 * 30000 \cong 54000$ (revolution)

Working hours 5% $fl_4 = Fac_4/Fa'_4 = 3050/3600 = 0.847$ $fl_4 = Mc_4/M'_4 = 4350/5200 = 0.836$ Choose minimum value $L_4 = (0.836)^3 * 30000 \leq 17500$ (revolution)

Estimated service life Lf= 1/(0.10/49500+0.25/45000+0.60/54000+0.05/175000) *46400 (revolution)*

Calculation method 2

According to formula:

 $Fa' = (n_1 \circ Fa^{\varepsilon} + n_2 \circ \cdots \circ Fa^{\varepsilon}_2 + n_3 \circ Fa^{\varepsilon}_3 + \dots + n_n \circ Fa^{\varepsilon}_n)^{1/\varepsilon}$ $M' = (n_1 \circ M^{\varepsilon}_1 + n_2 \circ M^{\varepsilon}_2 + n_3 \circ M^{\varepsilon}_3 + \dots + n_n \circ M^{\varepsilon}_n)^{1/\varepsilon}$

Therefore: Fa'= $(0.1*1600^3 + 0.25*2400^3 + 0.6*3200^3 + 0.05*3600^3)^{1/3}$ = 2956.9 KN M' = $(0.1*4400^3 + 0.25*4000^3 + 0.6*2800^3 + 0.05*5200^3)^{1/3}$ = 3459.2 KN-m

The gain load at point 5 in Figure3 from the above calculation result shows, the cross point load linking the original point on the carrying curve is:

Fac= 3400KN; Mc= 4080KN-m fl= Fac/Fa'= 3400/2956.9= 1.149 fl= Mc/M'= 4080/3549.2= 1.149

Estimated service life: $Lf = (1.149)^3 x_{30000} \leq 45500$ (revolution),

These two calculation methods are very similar.



LYC SR APPLICATION DYNAMICS QUESTIONNAIRE

Company Name :					•••••								
Company Contact Name & Position	:												
Address :								Telephone No. :					
Country :								Fax No. :					
Reference Name or Project No. :								Email :					
Project : Existin	ıg □		New										
Description of Application & End Us	ser :												
Estimated Annual Consumption (EA	C) :												
Physical Boundary Limitation :	OD	mm	ID	mm	D	1	mm	Maximum Test Load :		%			
Orientation :	Vertical		Horizontal		Interchar	ıge		Special Sealing Requirements :			Yes		No
Predominant Loading :	Axial %		Radial %					Special Torque Resistant Values (if a	required)	:		Nm	
Moment Loads :	Yes		No					Special Grease Requirements :			Yes		No
Gear Drive :	Internal		External		None			Туре :					
RPM :	No. RPM		or Inter	mittent				Existing Drawing Supplied :		Yes		No	
Annual Service Time :	No. of Hrs.							Customer Calculations Supplied :		Yes		No	
Describe Environmental Operating C	Conditions (Tem	perature,	etc) :					Bearing Type Reference					

Specify the following :

	Max.	Min.	Unit	% of Service Time
Axial Load :			kN	
Radial Load :			kN	
Tangential Forces :			kN	
Maximum Test Load :			kN	
Moment Load :			kNm	

Please detail any other special requirement :

.....





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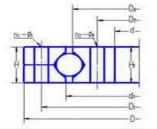
LYC DO BRAZIL IMP.& EXP. LTDA. Address: Rua Dr.Assis De Moura 44, Vila ariana, Cep.04120-150 Sao Paulo-Sp-Brasil Tel : 0055 11 55396642 Fax :0055 11 55722141 E-mail: lee@lyc.com.br

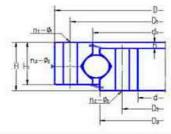


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FOUR-POINT CONTACT BALL SLEWING BEARING (UNGEARED)



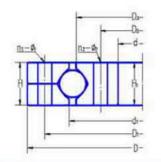


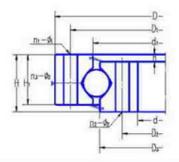
轴承型号 Designation	Bo	形 尺 unda iensio	ry		D1 D2		孔尺寸 diameter				Sti	结构 ructure				额定负荷 Basic load ratings	质量 Mass
s	D	d	н	D1	D2	n1	n2	φ1	φ2	D3	d1	H1	h	n3	φ3	Coa	
	1	mm		m	m		112	n	ım		m	m		11.5	mm	10^4 N	kg
116752	480	260	60	444	296	16	16	14	14	360	380	60			-	75.4	55
116752K	480	260	60				1-1-1		1. 1. S.	360	380	60				75.4	58.6
176792	590	460	45	570	488	8	12	M10	10	518	542	45				62.6	35.9
176792K	590	460	45	570	488	12	12	10	10	518	542	45		-	-	62.6	36
176792K2M	590	460	45	570	488	12	8	10	10	526	534	45				94.4	30.8
1167/530	780	530	60	740	560	20	20	17	13	645	665	35				112	103
1167/560	720	560	36	690	590	12	12	14	12	638.5	641.5	33	3			70.8	40.3
1167/560K	720	560	36	690	590	12	32	M12	16	634	646	36	3			70.8	39.2
1167/560M	720	560	36	690	590	12	12	14	12	638.5	641.5	36	3		-775	70.8	38.1
1168/560	780	560	60	-				-		645	668	60	3			224	103
11768/630	780	630	69							718	722	69				111	79.4
1167/700	900	700	36	860	740	12	12	M16	17	796	804	36	3 9	-		179	60
E787/760G2	950	760	80	915	795	24	24	18	M16	853.5	856.5	71	9	4	M10×1	203	138
3-640	1000	775	64	948	802	24	12/12	M12	13/M12	878	882	49	15	2	M8×1	196	112
3-640K	1000	775	64	948	802	24	12/12	M12	13/M12	878	882	49	15	2	MS	196	112
787/800G	1050	800	90	1012	838	30	30	20	20	923	927	76	16	3	M10×1	215	192
71769/850Y	1120	850	85	1074	924	12	12	M20	22	995	1010	85				151	248
1769/850G2K	1120	850	85	1074	924	12	12	17	22	999	1003	85				210	257
787/932G2	1200	932	120	1148	984	40	40	26	M24	1064	1068	100	20	4	G1/4in	349	328

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FOUR-POINT CONTACT BALL SLEWING BEARING (UNGEARED)

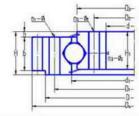


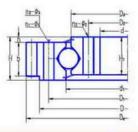


轴承型号 Designatio	Bo	形 尺 unda iensio	ry				し尺寸 diameter				St	结 构 ructure				额定负荷 Basic load ratings	质量 Mass
ns	D	d	н	D1	D2	n1	n2	φ1	φ2	D3	d1	H1	h	n3	ф3 mm	Coa 10 ⁴ N	kg
787/960G2	1165	mm	90	1125	1040	36	36	18	M16	1073	1077	m 78	14	6	M10×1	249	202
787/1000G2		1000			1040	12	12	18	M16	1123	1127	90	14	3	M10×1 M10×1	540	202
787/1260G2		1260	1000		1315		36	22	M20	1386	1389	70	14	2	ZG1/8in	378	274
	1820				1470	24	24	35	35	1608	1612	136		4	M10×1	611	1114
71169/1400Y1	1820	1400	136	1750	1470	24	24	35	35	1608	1612	136		4	M10×1	1070	1120
787/1440G2	1780	1440	100	1730	1494	48	48	22	M20	1618	1622	85	15	4	M12×1.25	503	533
787/1628G2	1927	1628	130	1875	1680	36	36	26	M24	1774	1778	115	15	6	G1/4in	692	732
787/1700KM	2000	1700	150	1950	1750	24	24	21	21	1842	1858	130	20	4	M10×1	684	826
KDL 900-6	1050	832	56	1020	862	12	12	18	18	942	946	45		4	M6	227	52.5
LY-Q007	485	275	55	453	307	16	16	18	M16	381	386	50	5	4	M10×1	87.2	43.7
LY-Q007K	485	275	55	453	307	16	16	18	18	381	386	50	5	4	M10×1	87.2	43.7
LY-Q020	440	240	55	400	280	18	18	M20-7H	22	340	342	50	5	3	M10×1	78.2	34.7



FOUR-POINT CONTACT BALL SLEWING BEARING (WITH EXTERNAL GEAR)



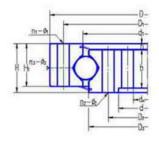


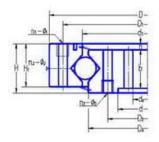
轴承型号 Designations	E	·形尺 Bounda	ry									吉 构 cture	尺 dime	寸 ensior	15		齿 Gear J	轮参 param			额定负荷 Basic load ratings	质量 Mas
Designations	D	d mm	н	D1 m	D2 m	n1	n2	φ1 mr	φ2 n	D3	d1 mn	HI	h	n3	ф3 mm	m	Da mm	Z	b mm	x	Coa 10 ⁴ N	kg
D178794	694	470	77	630	500	18	18	M16	18	567.5	564.5	64	13	6	M10×1	6	696	114	60	0	157	93.1
1787/600G	786	600	72	740	636	20	24	M18×2.5	19	689	691	60	7	4	ZG1/8in	6	789	131	50	0	107	94.
1787/674G2	853	674	70	825	709	34	23	20	M20	764	768	59	10	2	ZG1/8in	7	889	125	50	0	183	89
1787/674G2K	853	674	70	825	709	34	24	18	18	764	768	59	10	2	ZG1/8in	7	889	125	50	0	183	88.6
1787/710G2	894	710	67	845	744	8	8	M10	M10	798	806	58	9	3	M10×1	6	924	152	55	0	179	107
1787/710G2K	894	710	67	875	760	8	12	M10	M12	798	806	58	9	3	M10×1	6	924	152	55	0	179	107
1787/710G2K1	894	710	67	865	744	20	20	13	13	798	806	58	9	4	M10×1	6	924	152	55	0	179	107
1787/800G	1050	800	90	1012	838	30	30	20	20	923	927	76	16	3	M10×1	6	1092	180	60	0	215	217
1787/800GK	1050	800	90	1012	838	30	30	20	20	923	927	76	16	3	M10×1	6	1092	180	60	0	215	217
1788/1040G2		1040	80	1220	1080	30	30	M16	17.5	1153	1157	70	10	-		10	1314.1	125	70	0	297	251
1787/1060G	1335	1060	109	1295	1105	24	24	M20	22	1198	1202	100	9	4	M8×1	10	1388	138	80	-0.6	501	407
1787/1075	1365	1075	120	13 10	1130	36	36	26	26	1218	1222	105	15	4	M8×1	8	1424	176	90	0	463	463
1787/1075K	1365	1075	130	1310	1130	36	36	24	24	1218	1222	105	10	-		10	1420	140	120	0	463	550
1787/1075G2	1365	1075	120	1310	1130	36	36	24	24	1218	1222	105	15	4	M10×1	10	1424.9	138	90	+1.4	463	463
1787/1075G2K	1365	1075	120	1310	1130	36	36	M24	26	1218	1222	105	15	4	M8×1	8	1424	176	90	0	463	463
1787/1330G2	1475	1330	82.4	1510	1362	24	24	18.5	18.5	1439	1445	70	12.4	6	M10×1	9	1584	174	70	0	353	280
3-647G	1407	1352	100	1370	1404	18	13	M8	M10	1390	1394	63		8	6	4.5	1449	320	60	0	216	143
1788/1410G2	-	1410	85	1590	1454	36	36	M16	17.5	1525	1529	70	15	-		10	1676.4	160	70	0	395	312
1787/1640G	2050	1640	160	1990	1710	30	30	28	28	1844	1856	140	20	2	M14×1.5	10	2108	210	105	-0.6	1118	126
1787/1700	1945	1700	120	1900	1750	24	24	M18	21	1825	1845	110	10	4	M10×1	5	1970	392	35	0	405	516
1789/1700GM	2052	1700	100	1980	1780	24	24	20	M18	1878	1882	90	10	4	M14×1.5	5	2080	414	50	0	551	678
1787/2650G2	2885	2650	100	2850	2700	48	48	M20	M20	2777	2781	80	10	6	ZG1/4in	12	2949.6	244	80	0	913	75

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FOUR-POINT CONTACT BALL SLEWING BEARING (WITH INTERNAL GEAR)



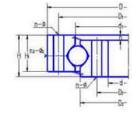


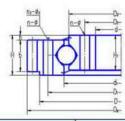
轴承型号 Designations	В	形尺 ⁻ oundar nension	у			安装子 Bolt hole			结 Struct	-	尺 imer	10.00	15		齿 Gear p	论参 Daran			额定负荷 Basic load ratings	质量 Mas		
	D	d mm	Н	D1 m	D2 m	n1	n2	φ1 m	ф2 m	D3	d1 mm	H1	h	n3	ф3 mm	m	da mm	Z	b mm	x	Coa 10" N	kg
2788/850K	976	850	80	-	-			-		916	919	80		-	-	2	916	456	20	0	174	117
3-646G2	1200	-	56	1170	1044	16	24	17.5	10.5	1088	1092	46	12	4	M8×1	6	985	166	44	0	210	84.1
2782/1000GK	1270	1000	100	1220	1050	24/2×2	24/2×2	17/M12	17/M12	1133	1137	85	15	2	M10×1	6	972.6	164	70	0	384	322
2787/1210G2	1530	1210	122	1480	1260	40	40	26	26	1368	1372	108	12	4	M10×1	10	1164	118	80	0	713	540
2787/1400GK	1715	1400	110	1660	1460	24	24	M20	M20	1558	1562	95	15	2	M12×1.25	6	1364.5	230	77	-0.35	365	545
2787/1400GK1	1715	1400	110	1660	1460	24	24	23	23	1558	1562	95	15	2	M10×1	6	1364.5	230	77	-0.35	365	545
2787/1440	1780	1440	100	1730	1494	48	48	22	M20	1618	1622	85	10	4	M12×1.25	8	1400	177	50	0	503	554
2787/1440G	1780	1440	100	1730	1494	48	48	22	M20	1618	1622	85	10	4	M12×1.25	8	1400	177	50	0	578	554
2768/1440G	1780	1440	104	1730	1494	48	48	22	M20	1613	1627	87	10	6	M12×1.25	8	1400	177	52	0	578	555
2787/1525G2	1875	1525	140	1815	1585	42	42	29	29	1698	1702	122	17	4	M12×1.25	16	1452.33	92	110	+0.35	873	1019
2788/1712	2050	1790	112	2006	1847	36	72	22	22	1925	1926	92	12	18	M10×1	16	1712	108	100	-0.5	604	663
2789/2230	2488	2230	160	2445	2275	48	48	M20	M22	2337.5	2342.5	135	5	8	ZG1/4in	18	21 44.25	121	145	0	1247	1114
2789/2240G2	2500	2240	140	2454	2280	56	56	M24	M24	2357.5	2362.5	115	5	8	M14×1.5	18	2145.6	121	125	0	856	1161
2789/2735	2990	2735	160	2954	2770	48	48	M20	M24	2835	2845	135	5	8	ZG1/4in	22	2624.62	121	144	0	1559	1457

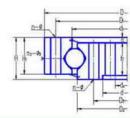
LUOYANG BEARING CORP.(GROUP)



FOUR-POINT CONTACT BALL SLEWING BEARING





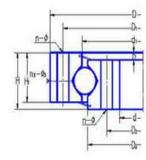


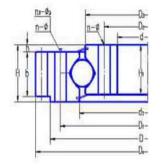
	轴承型号Designations		Bo	形 尺 undan	y	安 Bol	装 t hole		天 寸 meter	S	结 tructu		1000	寸 sio	05				轮 着 param				縦定负荷 Basic load ratings	质量 Mass
无齿式	外齿式	内齿式	D	d	H	D1	D2		φ	D3	d1	H1	h		ф3		Da	Z	da	Z	b		Coa	Adaa
non-gear type	external gear type	internal gear type						n	mm		Intel			n3	mm	m	mm	2	mm	L	mm	x	10 ⁴ N	kg
010-30-500-12	011:30:500.**	013-30-500-**	602	398	80	566	434	20	18	498, 5	501.5	70	10	4	M10×1	5	630	123	365	74	60	+0.5	129	75.8
CONTRACTOR STORE	012-30-500-**	014-30-500-**	602	398	80	566	434	20	18	498.5	501.5	70	10	4	M10×1	6	630	102	366	62	60	+0.5	129	75.8
010-30-560-**	011-30-560-**	013-30-560-**	662	458	80	626	494	20	18	558.5	561.5		10	4	M10×1	5	690	135	425	86	60	+0.5	144	94
122020000	012-30-560-**	014-30-560-12	662	458	80	626	494	20	18	558, 5	561.5	70	10	4	M10×1	6	690	112	426.5		60	+0.5	144	94
010-30-630-**	011-30-630-**	013-30-630-**	732	528	80	696	564	24	18	628, 5	631.5	70	10	4	M10×1	6	774	126	492	83	60	+0.5	187	110
accelerate on	012-30-630-**	014-30-630-**	732	528	80	696	564	24	18	628.5	631.5		10	4	M10×1	8	776	94	488	62	60	+0.5	187	110
010-30-710-**	011-30-710-**	013-30-710-**	812	608	80	776	644	24	18	708.5	711.5	70	10	4	M10×1	6	852	139	570	86	60	+0.5	212	120
1000 071100	012-30-710-**	014-30-710-**	812	608	80	776	644	24	18	708.5	711.5	70	10	4	M10×1	8	856	104	568	72	60	+0.5	212	120
010-30-955-11			1098	893	90	1060	845	48/47	22	956.5	953.5	71	19	6	M10×1		10000	1000					270	126
010-40-800-**	011-40-800-**	013-40-800-12	922	678	100	878	722	30	22	798.5	801.5	90	10	6	M10×1	8	968	118	632	80	80	+0.5	313	256
Contra Destantes	012-40-800-**	014-40-800-**	922	678	100	878	722	30	22	798.5	801.5	90	10	6	M10×1	10	970	94	630	64	80	+0.5	313	256
010-40-900-**	011-40-900-**	013-40-900-**	1022	778	100	978	822	30	22	898.5	901.5	90	10	6	M10×1	8	1064	130	736	93	80	+0.5	355	240
	012-40-900-**	014-40-900-**	1022	778	100	978	822	30	22	898.5	901.5	90	10	6	M10×1	10	1070	104	730	74	80	+0.5	355	240
010-40-1000-**	011-40-1000-12	013-40-1000-**	1122	878	100	1078	922	36	22	998.5	1001.5	90	10	6	M10×1	10	1190	116	820	83	80	+0.5	394	305
	012-40-1000-**	014-40-1000 **	1122	878	100	1078	922	36	22	998.5	1001.5	90	10	6	M10×1	12	1188	96	816	69	80	+0.5	394	305
010-40-1120-**	011-40-1120-**	013-40-1120***	1242	998	100	1198	1042	36	22	1118	1122	90	10	6	M10×1	10	1300	127	940	95	80	+0.5	443	300
	012-40-1120-**	014-40-1120-**	1242	998	100	1198	1042	36	22	1118	1122	90	10	6	M10×1	12	1308	106	936	79	80	+0.5	443	300
	011-40-1120-12K		1242	998	100	1198	1042	18	22/M20	1118.5	1121.5	90	10	6	M10×1	10	1300	127			80	+0.5	334	352
	012-40-1120-12K1	-	1242	998	100	1198	1042	36	22	1118	1121	90	10	6	M10×1	10	1298	127			80	+0.5	334	334
010-45-1250-**	011-45-1250-**	013-45-1250-**	1390	1110	110	1337	1163	40	26	1248	1252	100	10	6	M10×1	12	1452	118	1044	88	90	+0.5	554	420
	012-45-1250-**	014-45-1250-**	1390	1110	110	1337	1163	40	26	1248	1252	100	10	6	M10×1	14	1456	101	1036	75	90	+0.5	554	420
010-45-1400-**	011-45-1400**	013-45-1400**	1540	1260	110	1487	1313	40	26	1398	1402	100	10	6	M10×1	12	1608	131	1188	100	90	+0.5	617	480
	012-45-1400-**	014-45-1400-**	1540	1260	110	1487	1313	40	26	1398	1402	100	10	6	M10×1	14	1610	112	1190	86	90	+0.5	617	480
010-45-1600-**	011-45-1600-**	013-45-1600-**	1740	1460	110	1687	1513	45	26	1598	1602	100	10	8	M10×1	14	1820	127	1386	100	90	+0.5	702	550
And an a start of the	012-45-1600**	014-45-1600***	1740	1460	110	1687	1513	45	26	1598	1602	100	10	8	M10×1	16	1824	111	1376	87	90	+0.5	702	550
010-45-1800-**	011-45-1800-**	013-45-1800-**	1940	1660	110	1887	1713	45	26	1798	1802	100	10	8	M10×1	14	2016	141	1568	113	90	+0.5	793	610
	012-45-1800-**	014-45-1800-**	1940	1660	110	1887	1713	45	26	1798	1802	100	10	8	M10×1	16	2016	123	1568	99	90	+0.5	793	610
	011-45-1800-05	Charles and Constant and Constant		1660	110	1887	1713	45	26	1798	1802	100	10	5	M10×1	14	2016	141			100	+0.5	594	684
010-60-2000-**	011-60-2000-**	013-60-2000-**	2178	1825	144	2110	1891	48	33	1998	2002	132	12	8	M10×1	16	2272	139	1728	109	120	+0.5	1210	1100
	012-60-2000-12K					2160	1825	45	33	1998	2002	132	12	8	M10×1	16	2240	139			120	+0.5	1122	970
	012-60-2000-**	014-60-2000-**	2178	1825	144	2110	1891	48	33	1998	2002	132	12	8	M10×1	18	2268	123	1728	97	120	+0.5	1210	1100

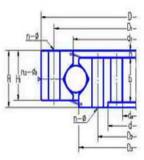
LUOYANG BEARING CORP.(GROUP)



FOUR-POINT CONTACT BALL SLEWING BEARING





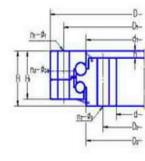


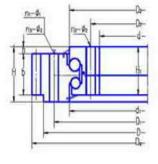
	轴承型号Designations		Bo	形尺 undar ensio	у	安 Bolt	装 子 hole	-		s	绪 tructu	A.F. 3	尺 imen		ns		100		轮 ਭ param				额定负荷 Basic load ratings	质量 Mass
无齿式	外齿式	内齿式	D	d	H	D1	D2	-	ф	D3	d1	H1	h		φ3		Da	Z	da	7	b		Coa	
non-gear type	external gear type	internal gear type		mm	-	I	m	n	-		mm			пэ	mm	m	-	L	mm	L		x	10 ⁴ N	kg
010-60-2240 **	011-60-2240-**	013-60-2240-**	2418	2065	144	2350	2131	48	33	2237.5	2242. 8	5 132	12	8	M10×1	16	2496	153	1984	125	120	+0.5	1350	1250
and the second s	012.60.2240.**	014-60-2240-**	2418	2065	144	2350	2131	48	33	2237.5	2242. 5	5 132	12	8	M10×1	18	2502	136	1980	111	120	+0.5	1350	1250
010-60-2500 **	011-60-2500-**	013-60-2500-**	2678	2325	144	2610	2391	56	33	2497.5	2502.8	5 132	12	8	M10×1	18	2772	151	2232	125	120	+0.5	1500	1400
Carrier and Service and Service and	012-60-2500-**	014-60-2500-**	2678	2325	144	2610	2391	56	33	2497.5	2502.8	5 132	12	8	M10×1	20	2780	136	2220	112	120	+0.5	1500	1400
	011-40-2500-12		2678	2325	144	2610	2391	56	33	2498	2502	132	12	8	M10×1	18	2769.7	151		-	120	+0.5	820	890
010-60-2800 **	011-60-2800-**	013.60.2800 **	2978	2625	144	2910	2691	56	33	2797.5	2802. 5	5 132	12	8	M10×1	18	3078	168	2520	141	120	+0.5	1680	1600
	012-60-2800-**	014-60-2800 **	2978	2625	144	2910	2691	56	33	2797.5	2802. 5	5 132	12	8	M10×1	20	3080	151	2520	127	120	+0.5	1680	1600
010-75-3150-**	011-75-3150-**	013-75-3150 **	3376	2922	174	3286	3014	56	45	3147.5	3152.8	5 162	12	8	M10×1	20	3480	171	2820	142	150	+0.5	2380	2800
and the second	012-75-3150-**	014-75-3150 **	3376	2922	174	3286	3014	56	45	3147.5	3152.8	5 162	12	8	M10×1	22	3476	115	2816	129	150	+0.5	2380	2800
010-75-3550 **	011-75-3550-**	013-75-3550-**	3776	3322	174	3686	3414	56	45	3547.5	3552. 8	5 162	12	8	M10×1	20	3880	191	3220	162	150	+0.5	2690	3200
	012.75.3550.**	014-75-3550-**	3776	3322	174	3686	3414	56	45	3547.5	3552.8	5 162	12	8	M10×1	22	3894	174	3212	147	150	+0.5	2690	3200
010-75-4000 **	011-75-4000-**	013-75-4000-**	4226	3772	174	4136	3864	60	45	3997.5	4002. 5	5 162	12	10	M10×1	22	4334	194	3652	167	150	+0.5	3020	3600
in a start of the start of the start of the	012.75.4000.**	014-75-4000 **	4226	3772	174	4136	3864	60	45	3997.5	4002.8	5 162	12	10	M10×1	25	4350	171	3650	147	150	+0.5	3020	3600
010-75-4500 **	011-75-4500-**	013-75-4500-**	4726	4272	174	4636	4364	60	45	4497.5	4502. 5	5 162	12	10	M10×1	22	4840	271	4158	190	150	+0.5	3410	4000
Support Street and Street	012-75-4500-**	014-75-4500-**	4726	4272	174	4636	4364	60	45	4497.5	4502. 8	5 162	12	10	M10×1	25	4850	191	4150	167	150	+0.5	3410	4000

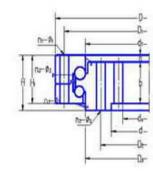
LUOYANG BEARING CORP.(GROUP)



DOUBLE-ROW ANGULAR CONTACT THRUST BALL SLEWING BEARINGS





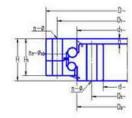


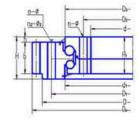
轴承型号 Designations	Bo	形尺 oundation	ry	安装孔尺寸 Bolt hole diameter								告 构 cture			ns			轮参 param			额定负荷 Basic load ratings	质量 Mass
Designations	D	d mm	Н	D1 m	D2	nl	n2	ф1 т	ф2 m	D3	d1 mn	H1	h	n3	фЗ mm	m	da mm	Z	b mm	x	Coa 10 ⁴ N	kg
								no	o gear			25.1	_			-		_				
5787/1916G2	2320	1916	150	2245	1980	42	42	34	34	2146	2150	135	20	12	M12						1096	1251
6787/820G	1150	820	125	1100	880	14/4	8	extern	al gear	1020	1040	130	5	2×2	M10×1	12	1206	99	75	-0.25	297	508
6787/820G 6787/1600G	1150 2000	820 1600	125 175	1920	1675			25/22 38	32 38	1020 1840	1040 1865	130 190	5 15	4×2	M10×1	12 14	2066.4	146	75 120	-0.25 -0.2	705	1531
	Contraction of the			1920 1920	1.	10 24	20 24	25/22 38 32	32 38 32	1111111	1865 1865		5.0		10 CH 10 CH 12		2066.4 2154.6		1.5.89			$\begin{array}{c}1531\\1576\end{array}$
6787/1600G	2000	1600	175	1920	1675			25/22 38	32 38	1840	1865	190	15	4×2	M10×1	14	2066.4	146	120	-0.2	705	1531
6787/1600G 6788/1600G	2000 2000	1600 1600	175 175	1920 1920	1675 1675	10 24	20 24	25/22 38 32	32 38 32 35	1840 1840	1865 1865	190 190	15 15	4×2 4×2	M10×1 M10×1	14 6	2066.4 2154.6	146 358	120 140	-0.2 -0.45	705 705	$\begin{array}{c}1531\\1576\end{array}$
6787/1600G 6788/1600G	2000 2000	1600 1600	175 175	1920 1920	1675 1675	10 24	20 24	25/22 38 32 35	32 38 32 35	1840 1840	1865 1865	190 190	15 15	4×2 4×2	M10×1 M10×1	14 6	2066.4 2154.6	146 358	120 140	-0.2 -0.45	705 705	$\begin{array}{c}1531\\1576\end{array}$

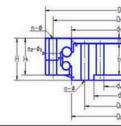
LUOYANG BEARING CORP.(GROUP)



DOUBLE-ROW ANGULAR CONTACT THRUST BALL SLEWING BEARINGS





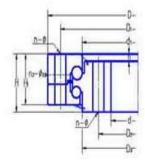


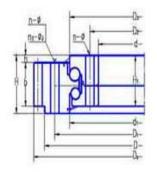
	轴承型号Designations		Bo	形 尺 oundar mensio	CY.	安 Bol		孔 尺 diame		1	结 Structu		t 寸 mensi	ons					轮 参 parame	数 ters			額定负荷 Basic load ratings	质量 Mass
无齿式	外齿式	内齿式	D	d	Н	D1	D2		¢	D3	d1	H1	h	13	\$3		Da	z	da	z	b	x	Coa	
non-gear type	external gear type	internal gear type		mm			am	n	mm	(D3')	(d1')		1		mm	-	mm	-	tum	4	m	~	10 ⁴ N	kg
020-25-500-**	021-25-500.**	023-25-500-**	616	384	106	580	420	20	18	523	517	96	26	4 M	110×1	5	645	126	355	72	60	+0.5	121	100
	022-25-500-**	024-25-500-**	616	384	106	580	420	20	18	(483)	(477)	96	26	4 M	110×1	6	648	105	348	59	60	+0.5	121	100
020-25-560-**	021-25-560-**	023-25-560-**	676	444	106	640	480	20	18	583	577	96	26	4 M	110×1	5	705	138	415	84	60	+0.5	134	115
	022-25-560-**	024-25-560-**	676	444	106	640	480	20	18	(543)	(537)	96	26	4 M	410×1	6	708	115	408	69	60	+0.5	134	115
020-25-630-**	021-25-630.**	023-25-630-**	746	514	106	710	550	24	18	653	647	96	26	4 M	110×1	6	792	129	480	81	60	+0.5	153	130
	022-25-630-**	024-25-630-**	746	514	106	710	550	24	18	(613)	(607)	96	26	4 M	110×1	8	792	96	472	60	60	+0.5	153	130
020-25-710-**	021-25-710-**	023-25-710-**	826	594	106	790	630	24	18	733	727	96	26	4 M	410×1	6	864	141	558	94	60	+0.5	173	140
	022-25-710-**	024-25-710-**	826	594	106	790	630	24	18	(693)	(687)	96	26	4 M	110×1	8	864	105	552	70	60	+0.5	173	140
020-30-800-**	021-30-800-**	023-30-800-**	942	658	124	898	702	30	22	828	822	114	29	6 M	110×1	8	984	120	616	78	80	+0.5	230	200
	022-30-800-**	024-30-800-**	942	658	124	898	702	30	22	(778)	(771)	114	29	6 M	110×1	10	990	96	610	62	80	+0.5	230	200
020-30-900-**	021-30-900-**	023-30-900-**	1042	758	124	998	802	30	22	928	922	114	29	6 M	410×1	8	1088	133	712	90	80	+0.5	258	250
	022-30-900-**	024-30-900-**	1042	758	124	998	802	30	22	(878)	(871)	114	29	6 M	110×1	10	1090	106	710	72	80	+0.5	258	250
020-30-1000-**	021-30-1000-**	023-30-1000-**	1142	858	124	1098	902	36	22	1028	1022	114	29	6 M	410×1	10	1200	117	810	82	80	+0.5	286	30
	022-30-1000-**	024-30-1000-**	1142	858	124	1098	902	36	22	(978)	(971)	114	29	6 M	110×1	12	1200	97	792	67	80	+0.5	286	30
020-30-1120-**	021-30-1120-**	023-30-1120-**	1262	978	124	1218	1022	36	22	1148	1142	114	29	6 M	110×1	10	1320	129	920	93	80	+0.5	321	340
	022-30-1120-**	024-30-1120-**	1262	978	124	1218	1022	36	22	(1098)	(1091)	114	29	6 M	410×1	12	1320	107	912	77	80	+0.5	321	34
020-40-1250-**	021-40-1250 **	023-40-1250-**	1426	1074	160	1374	1126	40	26	1286	1282	150	39	6 M	110×1	12	1500	122	1008	85	90	+0.5	482	58
	022-40-1250-**	024-40-1250-**	1426	1074	160	1374	1126	40	26	(1218)	(1214)	150	39	6 M	110×1	14	1498	104	1008	73	90	+0.5	482	58
020-40-1400-**	021-40-1400 **	023-40-1400-**	1576	1224	160	1524	1272	40	26	1436	1432	150	39	6 M	110×1	12	1644	134	1152	97	90	+0.5	543	65
	022-40-1400-**	024-40-1400-**	1576	1224	160	1524	1272	40	26	(1368)	(1364)	150	39	6 M	110×1	14	1652	115	1148	83	90	+0.5	543	65
020-40-1600-**	021-40-1600-**	023-40-1600-**	1776	1424	160	1724	1476	45	26	1636	1632	150	39	8 M	110×1	14	1848	129	1344	97	90	+0.5	620	75
	022-40-1600-**	024-40-1600-**	1776	1424	160	1724	1476	45	26	(1568)	(1564)	150	39	8 M	110×1	16	1856	113	1344	85	90	+0.5	620	75
020-40-1800-**	021-40-1800-**	023-40-1800-**	1976	1624	160	1924	1676	45	26	1836	1832	150	39	8 M	110×1	14	2058	144	1540	111	90	+0.5	692	82
	022-40-1800-**	024-40-1800-**	1976	1624	160	1924	1676	45	26	(1768)	(1764)	150	39	8 M	110×1	16	2064	126	1536	97	90	+0.5	692	82
020-50-2000-**	021-50-2000-**	023-50-2000-**	2215	1785	190	2149	1851	48	33	2038	2032	178	47	8 M	110×1	16	2304	141	1696	107	120	+0.5	987	118
	022-50-2000-**	024-50-2000-**	2215	1785	190	2149	1851	48	33	(1968)	(1962)	178	47	8 M	110×1	18	2304	125	1692	95	120	+0.5	987	115
020-50-2240-**	021-50-2240-**	023-50-2240-**	2455	2025	190	2389	2091	48	33	2278	2272	178	47	8 M	110×1	16	2544	156	1936	122	120	+0.5	1110	150
	022-50-2240***	024-50-2240-**	2455	2025	190	2389	2091	48	33	(2208)	(2202)	178	47	8 M	110×1	18	2556	139	1926	108	120	+0.5	1110	150

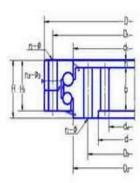
LUOYANG BEARING CORP.(GROUP)



DOUBLE-ROW ANGULAR CONTACT THRUST BALL SLEWING BEARINGS



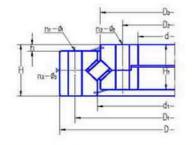


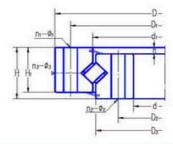


	轴承型号Designations		B	形 尺 oundar	y	安 Bol		孔 尺 diame	ন ter	5	结 itructu	构 万 re dia	S					齿 射 Gear p	2 🌮	1000			額定负荷 Basic load ratings	质量 Mass
无齿式	外齿式	内齿式	D	d	H	D1	D2	n	ф ш	D3 (D3')	d1 (d1')	H1	h	n3	¢3		Da	z	da	z	b	x	Coa 10 ⁴ N	
020-50-2500 **	external gear type 021.50.2500 **	023-50-2500**	2715	2285	190	2649	2351	56	33	2538	2532	78	47	8	M10×1	18	2804	153	2196	123	_	+0.5	10 N 1110	kg 1500
02000 2000	022-50-2500**	024-50-2500-**	2715	2285		2649	2351	56	33	(2468)	(2462)	78	47		M10×1	20	2820	138	2180	110	1.5.5	+0.5	1110	1500
	021-50-2500-12	100 B 1, 100 B 100 C 100	2715	2285	190	2649	2351	56	33	2550	2538	178	47	122	M10×1	18	2804.4	153			1.556	+0.5	1117	2031
020-50-2800-**	021-50-2800 **	023-50-2800**	3015	2585		2949	2651	56	33	2838	2832	178	47		M10×1	18	3114	170	2484	139	1000	+0.5	1390	1900
	022-50-2800-**	024-50-2800 **	3015	2585		2949	2651	56	33	(2768)	(2762)	178	47		M10×1	20	3120	153	2480	125	1200	+0.5	1390	1900
020-60-3150-**	021-60-3150 **	023-60-3150**	3428	2872	226	3338	2962	56	45	3198	3192	214	56	100	M10×1	20	3540	174	2760	139		1.0	1870	3300
	022-60-3150-**	024-60-3150-**	3428	2872	226	3338	2962	56	45	(3108)	(3102)	214	56	8	M10×1	22	3542	158	2750	126	150	+0.5	1870	3300
020-60-3550 **	021-60-3550 **	023-60-3550 **	3828	3272	226	3738	3362	56	45	3598	3592	214	56	8	M10×1	20	3940	194	3160	159	150	+0.5	2110	3700
	022-60-3550 **	024-60-3550 **	3828	3272	226	3738	3362	56	45	(3508)	(3502)	214	56	8	M10×1	22	3938	176	3168	145	150	+0.5	2110	3700
020-60-4000 **	021-60-4000 **	023-60-4000**	4278	3722	226	4188	3812	60	45	4048	4042	214	56	10	M10×1	22	4400	197	3608	165	150	+0.5	2370	4200
	022-60-4000 **	024-60-4000 **	4278	3722	226	4188	3812	60	45	(3958)	(3952)	214	56	10	M10×1	25	4400	173	3600	145	150	+0.5	2370	4200
020-60-4500 **	021-60-4500 **	023-60-4500**	4778	4222	226	4688	4312	60	45	4548	4542	214	56	10	M10×1	22	4884	219	4114	188	150	+0.5	2670	4700
	022-60-4500 **	024-60-4500 **	4778	4222	226	4688	4312	60	45	(4458)	(4452)	214	56	10	M10×1	25	4900	193	4100	165	150	+0.5	2670	4700



CROSS CYLINDRICAL ROLLER SLEWING BEARING (UNGEARED)



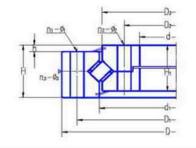


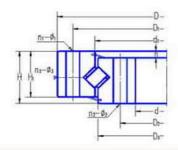
轴承型号 Designation	Be	形尺, oundar; nensior	y		安 Bol	装 孑 t hole	七 尺 diam					结 林 Structur	构尺 r e dimen			额定负荷 Basic load ratings	质量 Mass
s	D	d mm	Н	D1 m	D2 m	n1	n2	φ1 m	ф2 т	D3	d1 n	H1 1m	h	n3	ф3 mm	Coa 10 [*] N	kg
79764	550	320	85	515	365	12	8	17	18	438	442	75	10			88.2	85.6
797/600G2	900	600	125	848	690	30	29	26	M24	750	754	105	15	3	M10×1	280	246
797/670	907	670	85	870	730	12	8	M16	18	808	812	75	10			165	170
797/700G	1000	700	140	940	770	24	24	M20	22	879	882	130	20	4	M10×1	254	370
797/845G2	1150	845	130	1100	895	24	24	22	22	1024	1030	105	10	6	M6	401	393
797/870G	1180	870	115	1125	920	18	18	28	28	1023	1027	100	15	2	$M8 \times 1$	292	355
797/870K	1180	870	115	1125	920	18	18	28	28	1023	1027	100	15	2	M10×1	232	355
797/870G2K1	1180	870	115	1125	920	18	18	28	28	1023	1027	100	15	2	M10×1	320	356
797/962G2	1200	962	90						-	1088	1092	76	10			254	224
792/1000G2	1270	1000	100	1220	1050	36	36	19	19	1132	1138	85	15	4	M10×1	333	303
792/1000G2K	1270	1000	100	1220	1050	36	36	19	19	1132	1138	85	15	3	9	333	303
792/1000G2K1	1270	1000	100	1220	1050	36	36	19	19	1132	1138	85	15	-		333	303
792/1000G2K2	1270	1000	100	1220	1050	36	36	19	19	1132	1138	85	15			333	303
797/1060G2	1400	1060	120						-	1248	1252	120				429	596
797/1200G2	1520	1200	90		-			-	-	1356	1364	90		-	-	409	504
792/1250G2	1700	1250	155	1650	1330	24	24	26	26	1446	1450	140	10	6	M10×1	602	1103

LUOYANG BEARING CORP.(GROUP)



CROSS CYLINDRICAL ROLLER SLEWING BEARING (UNGEARED)



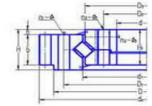


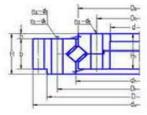
轴承型号 Designation	B	形尺、 oundary nensior	y		安 Bol		七尺 diam	寸 eter			;	结 柊 Structur		† sions		额定负荷 Basic load ratings	质量 Mass
s	D	d mm	Н	D1 m	D2	n1	n2	φ1	ф2 m	D3	d1	H1 1m	h	n3	φ3 mm	Coa 10* N	kg
797/1250G2	1608	1250	148	1512	1297	16	16	25	25	1403	1407	128	26	4	M10×1	595	743
797/1250G2K	1608	1250	148	1512	1297	16	16	25	25	1403	1407	128	26	4	M10×1	595	717
797/1278G2K	1660	1278	120	1535	1335	18	18	26	26	1428	1432	105	15	4	M10×1	427	589
797/1320G2	1715	1320	134							1503	1509					607	958
797/1370G	1840	1370	160	1770	1430	30	24	28	28	1598	1602	140	10	4	M10×1	997	1213
797/1380G2	1700	1380	145	1650	1440	24	24	27	27	1568	1574	140	5	6	M10×1	461	746
3-944G2	1680	1412	170		1460		24		18	1544	1548	120	25	2	M10×1	617	725
3-944G2K	1680	1412	170		1460		24		18	1544	1548	120	25	2	M10×1	576	723
3-944G2K1	1680	1412	185		1460		24		18	1544	1548	120	25	2	M12×1.25	576	759
797/1600G	2140	1600	145	1940	1710	48	48	26	26	1828	1832	135	10	4	M10×1	896	1357
797/1776G2	2210	1776	150	2105	1840	36	36	26	26	1968	1972	135	15	4	M10×1	1113	1244
797/1860G2	2320	1860	151	2245	1980	42	42	33	33	2113	2117	150	10	6	M10×1	890	1772
797/1916G2	2320	1916	150	2245	1980	42	42	34	34	2113	2117	130	20	3	M10×1	1195	1214
797/2190G	2860	2190	300	2800	2270	36	36	32	32	2530	2550	260	40	12	8	3035	4797
797/2500G2	2980	2500	180	2910	2590	48	48	33	33	2739	2743	170	10	6	M16×1.5	1760	2913
792/2800G	3310	2800	190	3220	2890	60	60	39	39	3050	3060	165	25	2	M10×1	2117	2864

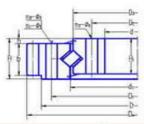
LUOYANG BEARING CORP.(GROUP)



CROSS CYLINDRICAL ROLLER SLEWING BEARING (WITH EXTERNAL GEAR)



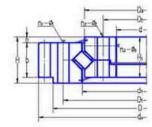


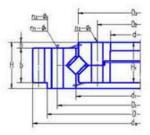


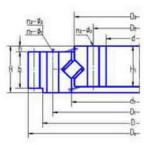
轴承型号 Designations	Bo	形 尺 unda	гу			安装子 Bolt hole	and the second se					结构 icture	尺 ¬ dimen		s			轮 参 paran			額定负荷 Basic load ratings	质量 Mass
	D	d mm	н	D1 m	D2 m	n1	n2	ф1 п	ф2 1m	D3	d1 mi	H1 m	h	n3	ф3 mm	m	Da mm	Z	b mm	x	Coa 10" N	kg
1792/885	1056	885	83	1032	925	16	16	M16	17.5	986	988	75	12.5			8	1096	135	62.5	0	176	172
E1792/885	1056	885	83	1032	925	16	16	MIG	17.5	986	988	75	12.5			8	1096	135	62.5	0	176	172
E1792/885K	1056	885	83	1032	925	16	16	M16	17.5	986	988	75	12.5	3	M10×1	8	1096	135	62.5	0	176	172
1797/885G	1150	885	115	1115	935	16	16	18	18	1023	1027	100	15	4	M8×1	5	1180	234	80	0	292	330
1797/1100G	1415	1100	115	1345	1160	24	18	21	21	1253	1255	100	15	4	M12×1.25	6	1452	240	84	0	270	497
1798/1100G2	1400	1100	140	1352	1160	26	26	24	26	1260	1264	126	21	4	M10×1	14	1477.28	104	90	-0.24	430	642
1798/1100G2K	1400	1100	145	1352	1160	26	26	24	26	1260	1264	131	26	4	M10×1	14	1477.28	104	90	-0.24	430	644
1797/1250G2	1548	1250	148	1512	1297	16	16	25	25	1403	1407	122	20	4	M10×1	12	1608	132	100	0	539	661
1797/1278G2	1595	1278	120	1535	1335	36	36	26	26	1428	1432	105	15	4	M10×1	12	1655.46	134	90	+1.15	485	597
1797/1300G2	1705	1300	165	1644	1360	24	24	32	32	1504	1508	134	31	4	M10×1	14	1783.6	126	85	-0.3	578	1023
1792/1400G	1715	1400	110	1660	1460	42	42	26	26	1558	1562	95	17	4	M12×1.25	12	1780.8	147	78	-0.3	597	579
1792/1400G2	1715	1400	110	1660	1460	42	42	26	26	1558	1562	95	17	4	M12×1.25	12	1780.8	147	78	-0.3	597	579
1792/1400G2K	1715	1400	110	1660	1460	42	42	26	26	1558	1562	95	15	4	M12×1.25	12	1780.8	147	78	-0.3	597	579
1797/1460G2	1800	1460	125	1735	1525	32	36	26	26	1633	1637	110	10	-4	M10×1	14	1881.6	133	95	-0.3	627	828
1797/1460G2K	-	1460	125	1735	1525	32	36	26	26	1633	1637	110	10	4	M10×1	10	1880	186	115	0	627	845
1797/1916G2	-	1916	150	2245	1980	42	42	34	34	2113	2117	130	15	3	M10×1	18	2415.6	133	135	-0.4	1150	1597
1797/2100G2	2600	2100	180	2540	2200	48	48	32	32	2368	2372	158	22	8	M10×1	18	2700	148	130	0	1100	2395
1797/2100G2K	2600	2100	180	2540	2200	48	48	32	32	2368	2372	158	22	8	M10×1	18	2700	148	130	0	1100	2392
1797/2460G2	-	2460	220	2930	2560	30	30	33	34	2745	2747	185	20	30	M12×1.25	14	3108	220	200	0	1386	4091
1797/2460G2U	-	2460	220	2930	2560	30	30	33	34	2745	2747	185	20	30	M12×1.25	14	3108	220	200	0	1386	4091
1797/2460G2K	3108	2460	220	2930	2560	30	30	33	34	2745	2747	200	35	15	ZG1/4in	14	3108	220	200	0	1386	4091
797/2460G2K1	3108	2460	220	2930	2560	30	30	33	34	2745	2747	200	35	30	ZG1/4in	14	3108	220	200	0	1386	4091



CROSS CYLINDRICAL ROLLER SLEWING BEARING (WITH EXTERNAL GEAR)





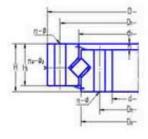


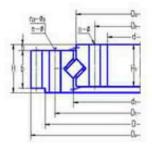
轴承型号 Designations	Bo	形尺 unda	ry			Contraction of the second second	孔尺寸 diameter					结构 icture	100	寸 ision:	5		1000	轮参 paran			额定负荷 Basic load ratings	质量 Mass
	D	d mm	н	D1 m	D2 m	n1	n2	φ1 m	ф2 1m	D3	d1 mi	H1 m	h	n3	φ3 mm	m	Da mm	Z	b mm	x	Coa 10" N	kg
1797/2500G2	-	2500	210	2990	2630	36	36	37	37	2818	2822	200	10	12	M14×1.5	25	3250	128	200	0	1996	4597
1797/2500K	2920	2500	260	3060	2622	36	36	40	40	2949	2916	240	60	36	ZG1/4in	18	3258	179	190	0	1996	5407
1797/2500G2K1	2920	2500	260	3060	2622	36	36	40	40	2949	2916	240	60	36	ZG1/4in	18	3258	179	190	0	1996	5407
1797/2600G		2600	200	3050	2700	60	60	35	35	2868	2872	180	20	6	M12×1.25	20	3232.8	160	180	-0.18	2030	3936
1797/2600G2	-	2600	200	3050	2700	60	60	35	35	2868	2872	180	20	18	ZG1/4in	20	3232.8	160	180	-0.18	2030	3936
1797/2600G2K	-	2600	200	3050	2700	60	60	35	35	2868	2872	180	20	4	14	20	3232.8	160	180	-0.18	2030	3936
1797/2600G2K1		2600	200	3050	2700	60	60	35	35	2868	2872	180	20	8	M10×1	20	3232.8	160	180	-0.18	2320	3558
1797/2635G	3332	2635	270	3240	2755	36	36	42	42	2998	3002	240	45	6	M12×1.25	20	3440	170	200	0	2950	5973
1797/2635G2	3332	2635	270	3240	2755	36	36	42	42	2998	3002	225	30	12	ZG1/4in	20	3440	170	200	0	2950	5973
1797/3230G	3970	3230	240	3820	3350	52	54	37	37	3578	3582	220	20	9	M12×1.25	25	4100	162	200	0	3520	7612
1797/3230GY	3970	3230	240	3820	3380	52	36	37	37	3578	3582	220	20	4	M12×1.25	25	4100	162	200	0	3520	7612
1797/3230G2	3970	3230	240	3820	3350	52	54	37	37	3578	3582	220	20	9	M12×1.25	25	4100	162	200	0	3520	7613
1797/3230G2K	3970	3230	240	3820	3350	52	54	37	37	3578	3582	220	20	8	14	25	4100	162	200	0	3520	7613
1797/3230GK5	3970	3230	240	3820	3350	52	54	37	37	3578	3582	220	20	4	M12×1.25	25	4100	162	200	0	3520	7613
1797/3230G2Y3K		3230	240	3820	3380	52	36	37	37	3578	3582	220	20	4	M12×1.25	25	4100	162	220	0	3520	7686
1797/3760G	4220	3760	240	4160	3840	48	48	32	32	3996	4004	210	55	4	M14×1.5	14	4326	307	135	0	3210	4396
1797/4250G	4940	4250	250	4840	4350	72	72	48	48	4598	4602	225	25	9	M16×1.5	30	5082	168	200	-0.3	4520	8954

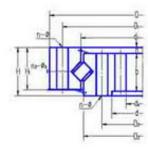
LUOYANG BEARING CORP.(GROUP)



CROSS CYLINDRICAL ROLLER SLEWING BEARING







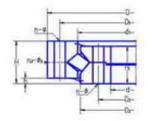
	轴承型号 Designations		B	形尺 oundar mensio	y	1000	装 孔 It hole (结 Structo	CT E0 (C) 1	」 mensi						轮 参 param				额定负荷 Basic load ratings	质量 Mass
无齿式 non-gear type	外齿式 external gear type	内齿式 internal gear type	D	d mm	н	D1	D2 Im	n	ф mm	D3	d1 mm	H1	h	n3	ф3 mm	m	Da mm	z	da mm	z	b mm	x	Coa 10 ⁴ N	kg
110-40-2000-**	111-40-2000-**	113-40-2000-**	2178	1825	112	2110	1891	48	33	1998	2002	100	12	8	M10×1	16	2272	139	1728	109	90	0.5	686	900
	112-40-2000-**	114-40-2000-**	2178	1825	112	2110	1891	48	33	1998	2002	100	12	8	M10×1	18	2268	123	1728	97	90	0.5	686	900
110-40-2000-12			2178	1825	1.12	2110	1891	48	33	1991	1995	100	12	8	M10×1	-		-			-	-	635	767
110-40-2240-**	111-40-2240-**	113-40-2240-**	2418	2065	112	2350	2131	48	33	2237.5	2242.5	100	12	8	M10×1	16	2496	153	1984	125	90	0.5	764	1000
	112-40-2240-**	114-40-2240-**	2418	2065	112	2350	2131	48	33	2237.5	2242.5	100	12	8	M10×1	18	2502	136	1980	111	90	0.5	764	1000
110-40-2500-***	111-40-2500-**	113-40-2500-**	2678	2325	112	2610	2391	56	33	2497.5	2502.5	100	12	8	M10×1	18	2772	151	2232	125	90	0.5	797	876
and the second second	112-40-2500-**	114-40-2500-**	2678	2325	112	2610	2391	56	33	2497.5	2502.5	100	12	8	M10×1	20	2780	136	2220	112	90	0.5	797	876
	112-40-2500-12K	and a succession	2678	2325	112	2610	2391	56	33	2498.5	2501.5	100	112	8	M16×1.5	-	-	-		-		-	1000	876
110-40-2800-**	111-40-2800-**	113-40-2800-**	2978	2625	112	2910	2691	56	33	2797.5	2802.5	100	12	8	M10×1	18	3078	168	2520	141	90	0.5	960	1250
	112-40-2800-**	114-40-2800-**	2978	2625	112	2910	2691	56	33	2797.5	2802.5	100	12	8	M10×1	20	3080	151	2520	127	90	0.5	960	1250
110-50-3150-**	111.50.3150-**	113-50-3150-**	3376	2922	134	3286	3014	56	45	3147.5	3152.5	122	12	8	M10×1	20	3480	171	2820	142	110	0.5	1380	2150
	112.50.3150-**	114-50-3150-**	3376	2922	134	3286	3014	56	45	3147.5	3152.5	122	12	8	M10×1	22	3476	155	2816	129	110	0.5	1380	2150
110-50-3550-**	111.50.3550.**	113-50-3550-**	3776	3322	134	3686	3414	56	45	3547.5	3552.5	122	12	8	M10×1	20	3880	191	3220	162	110	0.5	1570	2470
	112.50.3550-**	114.50.3550.**	3776	3322	134	3686	3414	56	45	3547.5	3552.5	122	12	8	M10×1	22	3894	174	3212	147	110	0.5	1570	2470
	111.52.3550.12		3776	3322	134	3686	3414	56	45	3548	3552	122	12	8	M10×1	20	3880	191		-	110	0.5	1475	2464
110-50-4000-***	111.50.4000.**	113-50-4000-**	4226	3772	134	4136	3864	60	45	3997.5	4002.5	122	12	10	M10×1	22	4334	194	3652	167	110	0.5	1760	2800
	112.50.4000.**	114-50-4000-**	4226	3772	134	4136	3864	60	45	3997.5	4002.5	122	12	10	MI0×1	25	4350	171	3650	147	110	0.5	1760	2800
110-50-4500-**	111-50-4500-**	113-50-4500-**	4726	4272	134	4636	4364	60	45	4497.5	4502.5	122	12	10	M10×1	22	4940	217	4158	190	110	0.5	1980	3100
	112.50.4500.**	114.50.4500.**	4726	4272	134	4636	4364	60	45	4497.5	4502.5	122	12	10	M10×1	25	4850	191	4150	167	110	0.5	1980	3100

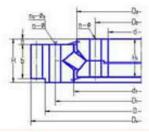
LUOYANG BEARING CORP.(GROUP)

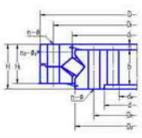


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CROSS TAPERED ROLLER SLEWING BEARING





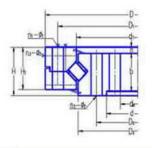


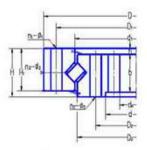
	釉承型号 Designations		Be	形尺 oundar nensio	y	1000	装 子 It hole		. र्च leter		结 Struct		尺 「 imen						首轮参 ar paran	数 neters			额定负荷 Basic load ratings	质加 Ma:
无齿式 Non-gear type	外齿式 external gear type	内齿式 internal sear type	D	d mm	н	D1	D2 m	п	ф mm	D3	d1 mm	H1	h	n3	¢3 mm	m	Da mm	z	da mm	z	b mm	x	Coa 10 ⁴ N	kg
5792/900	external gen ope	internar gear type	1150	900	90	1105	950	24	19	1021	1025	78	12	6	M8×1		-	-					165	227
0100000		3-935G	940		90	900	752	24	19 17	823	827	78	12	6	M8×1	4	2	2	672	170	78	0	133	180
		7797/1660G	2150	1660	245	2100	1735	30	32	1909	1921	220	25	3	M10×1	16	-	-	1581.12	100	190	+0.35	996	219
120-25-500-**	121-25 500**	123-25-500-**	602	398	75	566	434	20	18	498.5	501.5	65	10	4	M10×1	5	630	123	365	74	60	+0.5	104	80
	122-25-500**	124-25-500-**	602	398	75	566	434	20	18	498.5	501.5	65	10	4	M10×1	6	630	102	366	62	60	+0.5	104	80
120-25-560-**	121-25-560**	123 25 560 **	662	458	75	626	494	20	18	558.5	561.5	65	10	4	M10×1	5	690	135	425	86	60	+0.5	116	90
And the second	122.25.560**	124-25-560-**	662	458	75	626	494	20	18	558.5	561.5	65	10	4	M10×1	6	690	112	426	72	60	+0.5	116	90
120-25-630 **	121-25-630**	123-25-630 **	732	528	75	696	564	24	18	628.5	631.5	65	10	4	M10×1	6	774	126	492	83	60	+0.5	130	10
0263404500656	122.25 630 **	124-25-630 **	732	528	75	696	564	24	18	628.5	631.5	65	10	4	M10×1	8	776	94	488	62	60	+0.5	130	10
120-25-710-**	121-25-710**	123-25-710.**	812	608	75	776	644	24	18	708.5	712.5	65	10	4	M10×1	6	852	139	570	96	60	+0.5	149	11
Second Cold States	122 25 710 **	124-25-710**	812	608	75	776	644	24	18	708.5	712.5	65	10	4	M10×1	8	856	104	568	72	60	+0.5	149	11
120-28-800-**	121-28-800**	123-28-800-**	922	678	82	878	722	30	22	798.5	801.5	72	10	6	M10×1	8	968	118	632	80	65	+0.5	185	17
	122-28-800**	124-28-800-**	922	678	82	878	722	30	22	798.5	801.5	72	10	6	M10×1	10	970	94	630	64	65	+0.5	185	17
120-28-900 **	121-28-900**	123-28-900-**	1022	778	82	978	822	30	22	898.5	901.5	72	10	6	M10×1	8	1064	130	736	93	65	+0.5	209	19
	122 28 900 **	124 28 900 **	1022	778	82	978	822	30	22	898.5	901.5	72	10	6	M10×1	10	1070	104	730	74	65	+0.5	209	19
120-28-1000**	121-28-1000**	123-28-1000**	1122	878	82	1078	922	36	22	998.5	1001.5	72	10	6	M10×1	10	1190	116	820	83	65	+0.5	233	21
	122-28 1000 **	124-28-1000**	1122	878	82	1078	922	36	22	998.5	1001.5	72	10	6	M10×1	12	1188	96	816	69	65	+0.5	233	21
120-28-1120**	121-28-1120**	123-28-1120**	1242	998	82	1198	1042	36	22	1118	1122	72	10	6	M10×1	10	1300	127	940	95	65	+0.5	262	23
	122-28-1122-**	124-28-1120**	1242	998	82	1198	1042	36	22	1118	1122	72	10	6	M10×1	12	1308	106	936	79	65	+0.5	262	23
120-32-1250 **	121-32-1250-**	123-32-1250**	1390	1110	91	1337	1163	40	26	1248	1252	81	10	6	M10×1	12	1452	118	1044	88	75	+0.5	321	35
Second Second Second	122-32-1250 **	124-32-1250**	1390	1110	91	1337	1163	40	26	1248	1252	81	10	6	M10×1	14	1456	101	1036	75	75	+0.5	321	35
120-32-1400 **	121-32-1400**	123-32-1400**	1540	1260	91	1487	1313	40	26	1398	1402	81	10	6	M10×1	12	1608	131	1188	100	75	+0.5	358	40
	122.32.1400 **	124-32-1400**	1540	1260	91	1487	1313	40	26	1398	1402	81	10	6	M10×1	14	1610	112	1190	86	75	+0.5	358	40

LUOYANG BEARING CORP.(GROUP)



CROSS CYLINDRICAL ROLLER SLEWING BEARING (WITH INTERNAL GEAR)



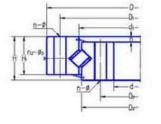


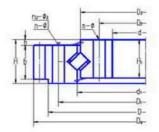
轴承型号 Designation	В	· 形 尺 oundar mensio	y				孔尺寸 e diameter					吉构 cture c	尺 ¬ limen				齿 转 Gear p		数 ters		额定负荷 Basic load ratings	质量 Mass
s	D	d mm	н	D1 m	D2 m	n1	n2	φ1 m	ф2 m	D3	d1 mn	H1	h	n3	φ3 mm	m	da mm	Z	b mm	x	Coa 10" N	kg
2797/695G2	920	695	90	870	735	30	30	18	18	800	804	76	4	3	10	7	658	96	65	0	161	175
2797/760G2	1000	760	95	956	800	24	24	20	20	878	882	82	15	4	M10×1	8	718.18	91	70	0.35	237	206
2797/870G2	1180	870	115	1125	920	18	18	26	26	1023	1027	100	15	2	M8×1	8	828.8	105	90	0.3	292	374
2797/875G2	1170	875	95	1120	930	24	24	22	22	1018	1022	82	15	4	M10×1	8	830.1	105	70	0.35	276	297
2797/955G	1200	95	90	1160	1000	36	18	18	18	1088	1092	76	10	4	M8×1	8	908.8	115	72	0.3	254	245
2797/955G2	1200	95	90	1160	1000	36	18	18	18	1088	1092	76	10	4	M8×1	8	908.8	115	72	0.3	254	245
2797/1010G2	1200	1010	90	1160	1041	36	20	22	M20	1088	1092	76	10	2	M8×1	10	962	97	72	0.6	254	199
2797/1010GK	1200	1010	90	1160	1041	36	20	22	M20	1088	1092	76	10	2	M8×1	10	962	97	72	0.6	254	199
2797/1278G2	1595	1278	120	1535	1335	36	36	26	26	1428	1432	106	14	6	M10×1	12	1221.14	103	90	0.35	398	585
2792/1400G2K	1715	1400	110	1660	1460	40	40	26	M24	1558	1562	95	15	4	M10×1	10	1330	135	90	0	597	587
2792/2000G2	2420	2000	160	2350	2070	48	48	33	M30	2207	2213	140	20	6	M10×1	14	1913.5	138	120	0.3	1084	1607
2792/2240G	2670	2240	160	2600	2320	54	54	35	M36	2457	2463	140	20	6	M12×1.25	16	2154.5	136	120	0.3	1441	1798
3-940G	2800	2300	208	2710	2390	42	48	38	M36	2535	2545	180	18	6	M10×1	20	2162.75	110	175	0	1743	2756
2797/2680G	3325	2680	300	3242	2754	32	32	33	33	2996	3000	270	30	4	M16×1.5	16	2592	164	180	0	3587	6320
2797/2680GY	3325	2680	300	3242	2754	48	48	33	33	2996	3000	270	30	4	M16×1.5	16	2592	164	180	0	3587	6320
2797/2680GK	3325	2680	300	3242	2754	32	32	33	33	2996	3000	270	30	4	M16×1.5	16	2592	164	180	0	3035	6641
3-943G2	3850	3322	200	3720	3420	60	60	45	45	3568	3572	180	20	12	Z1/4in	22	3206.368	147	158	0.35	1806	4520

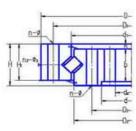
LUOYANG BEARING CORP.(GROUP)



CROSS CYLINDRICAL ROLLER SLEWING BEARING







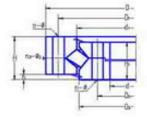
	轴承型号 Designations		B	形尺 ounda mensio	ry		装 孔 It hole		寸 ter		结 Struct		え 寸 mensi	ons					轮 参 param				额定负荷 Basic load ratings	质量 Mas
无齿式	外齿式	内齿式	D	d	н	D1	D2		φ	D3	d1	H1	h	- 2	φ3		Da	7	da		b		Coa	
non-gear type	external gear type	internal gear type		mm		n	ım	n	mm		mm			n3	mm	m	mm	Z	mm	Z	mm	x	10 ⁴ N	kg
110-25-500-**	111-25-500-**	113-25-500 **	602	398	75	566	434	20	18	499	501	65	10	4	M10×1	5	630	123	365	74	60	0.5	104	80
and the second se	112-25-500 **	114-25-500 **	602	398	75	566	434	20	18	499	501	65	10	4	M10×1	6	630	120	360	62	60	0.5	104	80
110-25-560-**	111-25-560 **	113-25-560.**	662	458	75	626	494	20	18	558.5	561.5	65	10	4	M10×1	5	690	135	425	86	60	0.5	116	90
	112-25-560 **	114-25-560-**	662	458	75	626	494	20	18	558.5	561.5	65	10	4	M10×1	6	690	112	426	112	60	0.5	116	90
110-25-630**	111-25-630-**	113 25 630 **	732	528	75	696	564	24	18	628.5	631.5	65	10	4	M10×1	6	774	126	492	83	60	0.5	130	100
Constraint Sector	112.25.630.**	114-25-630**	732	528	75	696	564	24	18	628.5	631.5	65	10	4	M10×1	8	776	94	488	62	60	0.5	130	100
110-25-710-**	111-25-710-**	113-25-710***	812	608	75	776	644	24	18	708.5	711.5	65	10	4	M10×1	6	852	139	570	96	60	0.5	149	110
	112-25-710-**	114-25-710-**	812	608	75	776	644	24	18	708.5	711.5	65	10	4	M10×1	8	856	104	568	72	60	0.5	149	110
110-28-800-**	111-28-800-**	113-28-800-**	922	678	82	878	722	30	22	798.5	801.5	72	10	6	M10×1	8	968	118	632	80	65	0.5	185	170
	112-28-800-**	114-28-800-**	922	678	82	878	722	30	22	798.5	801.5	72	10	6	M10×1	10	970	94	630	64	65	0.5	185	170
110-28-900-**	111-28-900-**	113-28-900-**	1022	778	82	978	822	30	22	898.5	901.5	72	10	6	M10×1	8	1064	130	736	93	65	0.5	209	190
	112-28-900-**	114-28-900.**	1022	778	82	978	822	30	22	898.5	901.5	72	10	6	M10×1	10	1070	104	730	74	65	0.5	209	190
110-28-1000-**	111-28-1000-**	113-28-1000-**	1122	878	82	1078	922	36	22	998.5	1001.5	72	10	6	M10×1	10	1190	116	820	83	65	0.5	233	210
	112-28-1000-**	114-28-1000-**	1122	878	82	1078	922	36	22	998.5	1001.5	72	10	6	M10×1	12	1188	96	816	69	65	0.5	233	210
110-28-1120-**	111-28-1120-**	113-28-1120-**	1242	998	82	1198	1042	36	22	1118	1122	72	10	6	M10×1	10	1300	127	940	95	65	0.5	262	230
	112-28-1120-**	114-28-1120-**	1242	998	82	1198	1042	36	22	1118	1122	72	10	6	M10×1	12	1308	106	936	79	65	0.5	262	230
110-32-1250-**	111-32-1250**	113-32-1250-**	1390	1110	91	1337	1163	40	26	1248	1252	81	10	6	M10×1	12	1452	118	1044	88	75	0.5	321	350
	112-32-1250***	114-32-1250-**	1390	1110	91	1337	1163	40	26	1248	1252	81	10	6	M10×1	14	1456	101	1036	75	75	0.5	321	350
110-32-1400***	111-32-1400-**	113-32-1400-**	1540	1260	91	1487	1313	40	26	1398	1402	81	10	6	M10×1	12	1608	131	1188	100	75	0.5	358	400
	112-32-1400**	114-32-1400-**	1540	1260	91	1487	1313	40	26	1398	1402	81	10	6	M10×1	14	1610	112	1190	86	75	0.5	358	400
110.32.1600.**	111-32-1600-**	113-32-1600-**	1740	1460	91	1687	1513	45	26	1598	1602	81	10	8	M10×1	14	1820	127	1386	100	75	0.5	412	440
	112.32.1600.**	114-32-1600-**	1740	1460	91	1687	1513	45	26	1598	1602	81	10	8	M10×1	16	1824	111	1376	87	75	0.5	412	440
110-32-1800-**	111-32-1800-**	113-32-1800-**	1940	1660	91	1887	1713	45	26	1798	1802	81	10	8	M10×1	14	2016	141	1568	113	75	0.5	460	500
	112-32-1800-**	114-32-1800-**	1940	1660	91	1887	1713	45	26	1798	1802	81	10	8	M10×1	16	2016	123	1568	99	75	0.5	460	500
	A Constant of the second se	113-45-1830-11	2002	1665	156	1940	1720	54	30	1827	1833	128	28	6	M10×1	12			1610	135	100	0.5	571	912

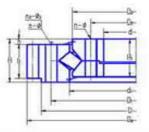
LUOYANG BEARING CORP.(GROUP)

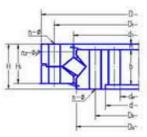


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CROSS TAPERED ROLLER SLEWING BEARING



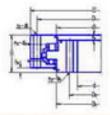


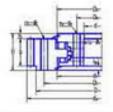


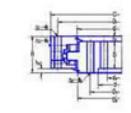
	轴承型号 Designations		B	形尺 oundar nensio	y		装 引 It hole		-		结 Struc		尺 -		s				齿轮参 ar parar				額定負荷 Basic load ratings	质量 Mas
无齿式	外齿式	内齿式	D	d	H	D1	D2	п	ф	D3	d1	Н1	h	п3	φ3	m	Da	z	da	z	b	x	Coa	
non-gear type	external gear type			mm			m	1996	mm		mm			-	mm	100	mm	1200	mm	22.17	mm	1000	10 ⁴ N	kg
120-32-1600-**	121.32.1600.**	123-32-1600-**	1740		91	1687		45	26	1598	1602	81	10	8	M10×1	14	1820	127	1386	100	75	+0.5	412	440
	122.32.1600.**	124-32-1600-**	1740		91	1687	1513	45	26	1598	1602	81	10	8	M10×1	16	1824	111	1376	87	75	+0.5	412	440
120-32-1600-03K		and the second second second	1740	1460	100	0.253	1513	48	26	1598	1602	90	10	8	M10×1		-	-			-		469	429
120-32-1800-**	121.32.1800.**	123-32-1800-**	1940	1660	91	1887	1713	45	26	1798	1802	81	10	8	M10×1	14	2016	141	1568	113	75	+0.5	460	500
	122-32-1800-**	124-32-1800-**	1940	1660	91	1887	1713	45	26	1798	1802	81	10	8	M10×1	16	2016	123	1568	99	75	+0.5	460	500
120-40-2000-**	121-40-2000-**	123-40-2000-**	2178	1825	112	2110	1891	48	33	1998	2002	100	12	8	M10×1	16	2272	139	1728	109	90	+0.5	686	900
	122-40-2200-**	124-40-2000-**	2178	1825	112	2110	1891	48	33	1998	2002	100	12	8	M10×1	18	2268	123	1728	97	90	+0.5	686	900
120-40-2240-**	121-40-2240-**	123-40-2240-**	2418	2065	112	2350	2131	48	33	2237.5	2242.5	100	12	8	M10×1	16	2496	153	1984	125	90	+0.5	764	1000
	122-40-2240-**	124-40-2240-**	2418	2065	112	2350	2131	48	33	2237.5	2242.5	100	12	8	M10×1	18	2502	136	1980	111	90	+0.5	764	1000
120-40-2500-**	121-40-2500-**	123-40-2500-**	2678	2325	112	2610	2391	56	33	2497.5	2502.5	100	12	8	M10×1	18	2772	151	2232	125	90	+0.5	852	1100
	122-40-2500-**	124-40-2500-**	2678	2325	112	2610	2391	56	33	2497.5	2502.5	100	12	8	M10×1	20	2780	136	2220	112	90	+0.5	852	1100
120-40-2800-**	121-40-2800-**	123-40-2800-**	2978	2625	112	2910	2691	56	33	2797.5	2802.5	100	12	8	M10×1	18	3078	168	2520	141	90	+0.5	960	1250
	122-40-2800-**	124-40-2800-**	2978	2625	112	2910	2691	56	33	2797.5	2802.5	100	12	8	M10×1	20	3080	151	2520	127	90	+0.5	960	1250
120-50-3150-**	121-50-3150-**	123-50-3150-**	3376	2922	134	3286	3014	56	45	3147.5	3152.5	122	12	8	M10×1	20	3480	171	2820	142	110	+0.5	1380	2150
	122-50-3150-**	124-50-3150-**	3376	2922	134	3286	3014	56	45	3147.5	3152.5	122	12	8	M10×1	22	3476	155	2816	129	110	+0.5	1380	2150
120-50-3550-**	121-50-3550-**	123-50-3550-**	3776	3322	134	3686	3414	56	45	3547.5	3552.5	122	12	8	M10×1	20	3880	191	3220	162	110	+0.5	1570	2470
	122-50-3550-**	124-50-3550-**	3776	3322	134	3686	3414	56	45	3547.5	3552.5	122	12	8	M10×1	22	3894	174	3212	147	110	+0.5	1570	2470
120-50-4000-**	121-50-4000-**	123-50-4000-**	4226	3772	134	10000000	3864	60	45	3997.5	4002.5	122	12	10	M10×1	22	4334	194	3652	167	110	+0.5	1760	2800
	122-50-4000-**	124-50-4000-**	4226	3772	134	4136	3864	60	45	3997.5	4002.5	122	12	10	M10×1	25	4350	171	3650	147	110	+0.5	1760	2800
120-50-4500-**	121-50-4500-**	123-50-4500-**	4726	4272	134	4636	4364	60	45	1. 1. 1. 1. A.	4502.5		12	10	M10×1	22	3840	217	4158	190	110	+0.5	1980	3100
	122-50-4500-**	124-50-4500-**	4726	4272	134	4636	4364	60	45	4497.5	4502.5	122	12	10	M10×1	25	4850	191	4150	167	110	+0.5	1980	3100

LUOYANG BEARING CORP.(GROUP)





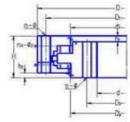


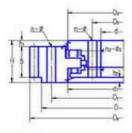


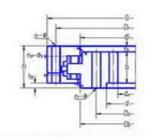
输承型号 Designations		外形尺、 lary dime					孔尺寸 diamete					Struc	结构 ture o			ns					参 敷 amete	rs	Basi	E负荷 c load ings	辰 Mas
Designations	D	d mm	н	D1	D2	n1	n2	- 1	¢2 mm	D3	d1 m	D3"	d1'	h1	h2	n3	∳3 mm	m	da mm	z	b	x	Coa 10	Cor	kg
-						-			UNGEARE	D					-	-		-		-					
3-931G	4300	3650	355	4210	3750	90	90	48	48	-		3850	3860			18	M16×1.5	-	-	-	-	-	6570	1330	950
								WITH	EXTERNA	L GEAR	2														
6397/1605G2K	1984	1805	.250	1932	1657	36	.48	26	26	1850	1858	-		50	33	6×3	MI4x15	16	2054	127	170	0	1525	208	18
3-9476	2465	1850	258	2390	2020	60	60	39	39	2261	2247			40	20	6×2	M10x1	18	2554	139	180	+0.5	2253	320	35
3-9346	2850	2240	180	2588	2300	54	54	34	34	2487	2482			30	15	6×3	M14×15	18	2854	150	132	+0.5	1680	205	18
6397/2590	3006	2590	200	2930	2670	60	60	39	39	2845	2860	-	-	21	20	10x3	MIDEL	16	3086	190	95	+0.4375	2192	318	27
6397/2590K	3006	2590	314	2930	2670	60	60	39	3.9	2860	2864	-	-	19	24	10x3	M10×1	18	3065	190	134	+0.4375	2700	316	4
6397/2800G	3260	2800	220	3190	2870	60	60	39	39	3082	3068	2	1	30	18	6×3	M14×15	20	3360	165	169	0	2700	330	32
6397/2800GH	3255	2800	240	3185	2870	48	64	39	39	3082	3068	-	-	30	38	8x3	M14×1.5	18	3348	184	160	0	2700	330	34
6397/2800GK1	3255	2800	240	3185	2870	64	64	39	M36	3082	3068	-	4	30	38	8×3	M14×1.5	18	3348	184	180	0	2700	330	34
6397/2800GK2	3255	2800	240	3185	2870	48	64	39	M38×3	3082	3068	-	-	30	32	8×3	MI4x15	18	3348	184	160	0	2700	330	34
6392/2910G	3400	2910	220	3315	2990	56	58	39	39	3200	3187	-	-	50	10	8×2	M14×1.5	22	3520	158	160	0	2670	458	37
8397/3340	3888	3340	212	3735	3441	1.08	108	33	33	3642	3612	-	-	42	22	24	Z1/4m	24	3888	161	170	+0.5	3900	410	36
								WITH	INTERNA	L GEAR															
7397/2210K	2650	2216	220	2590	2276	56	40	M30	33	1 -	-	2380	2392	27	23	8×3	MI0xt	16	2130	135	140	0	2050	302	24
7397/2700G2	3150	2700	255	3070	2750	40	70	32	32	-	-	2558	2852	-40	30	4×2	M14×1.5	20	2609	132	180	0	2920	423	35
7397/2700G2K	3150	2700	255	3070	2750	72	72	32	32		-	2856	2852		30	6×2	ZG 1/4im	20	2604	132	180	0	2920	423	35
7397/2700GK1	3150	2780	255	3070	2755	76	80	38	38	-	-	2856	2852	40	30	4×2	M14×1.5	20	2009	132	180	0	2920	423	33
7397/2700G2K2	3150	2700	255	2070	2750	72.	72	33	33	-	-	2862	2852	40	30	6×2	ZG1/4m	20	2604	132	180	0	2920	423	35
1397/2700G2K3	3150	2700	255	3070	2750	8	2	32	M30	-	-	2858	2852	-40	30	4×2	M14×1.5	20	2609	132	180	0	2920	423	36
3-94502	5000	4190	430	4880	4310	66	72	44	44	-	-	4482	4410	49	30	12.2	M10×1	25	4058	164	240	+0.35	10506	1116	14;

LUOYANG BEARING CORP.(GROUP)





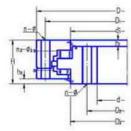


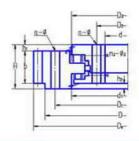


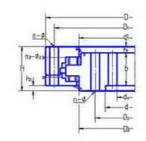
	轴承型号 Designations		B	形 尺 ounda mensi	ry	B	表孔. holt h	ole			结 Structu		尺 line	寸 nsion	IS				e s	-			Basi	:负荷 c load ings	质量 Nas:
无齿式	外齿式	内齿式	D	d	H	D1	D2	n	ф	D3	d1	h1	h2	n3	Φ3		Da	z	da	7	b	x	Coa	Cor	
non-gear type	external gear type	internal gear type	-	-					-	(D3')	(d1')				-	<u> </u>	-	~	-	~	mm	-	10	N N	kg
130-25-500-**	131-25-500-**	133-25-500-**	634	366	148	598	402	24	18	537	526	32	10	4×2	M10×1	5	665	130	335	68	80	+0.5	275	35.5	224
	132-25-500-**	134-25-500-**	634	366	148	598	402	24	18	474	463	32	10	4×2	M10×1	6	666	108	336	57	80	+0.5	275	35.5	224
130-25-560-**	131-25-560-**	133-25-560-**	694	426	148	658	462	24	18	597	586	32	10	4×2	M10×1	Б	725	142	395	80	80	+0.5	308	39.9	240
	132-25-560-**	134-25-560-**	694	426	148	658	462	24	18	534	523	32	10	4×2	M10×1	б	726	118	396	67	80	+0.5	308	39.9	240
130-25-630-**	131-25-630-**	133-25-630-**	764	496	148	728	532	28	18	667	656	32	10	4×2	M10×1	6	810	132	456	77	80	+0.5	345	45.1	270
	132-25-630-**	134-25-630-**	754	496	148	728	532	28	18	(604)	(593)	32	10	4×2	M10×1	8	808	98	456	58	60	+0.5	345	45.1	270
130-25-710-**	131-25-710-**	133-25-710-**	844	576	148	808	612	28	18	747	736	32	10	4×2	M10×1	6	888	145	534	90	80	+0.5	388	51.7	300
	132-25-710-**	134-25-710-**	844	576	148	808	612	28	18	(684)	(673)	32	10	4×2	M10×1	8	888	108	536	68	80	+0.5	388	51.7	300
130-32-800-**	131-32-800-**	133-32-800-**	964	636	182	920	680	36	22	841	830	40	10	4×2	M10×1	8	1008	123	592	75	120	+0.5	549	71.2	500
	132-32-800-**	134-32-800-**	964	636	182	920	680	36	22	(770)	759	40	10	4×2	M10×1	10	1010	98	590	60	120	+0.5	549	71.2	500
130-32-900-**	131-32-900-**	133-32-900-**	1064	736	182	1020	780	36	22	941	930	40	10	4×2	M10×1	8	1104	135	688	87	120	+0.5	619	80.8	600
	132-32-900-**	134-32-900-**	1064	736	182	1020	780	36	22	(870)	(859)	40	10	4×2	M10×1	10	1110	108	690	70	120	+0.5	619	80.8	600
130-32-1000-**	131.32.1000-**	133-32-1000-**	1164	836	182	1120	880	40	22	1041	1030	40	10	5×2	M10×1	10	1220	119	780	79	120	+0.5	689	90.3	680
	132-32-1000-**	134-32-1000-**	1164	836	182	1120	880	40	22	(970)	(959)	40	10	5×2	M10×1	12	1224	99	780	66	120	+0.5	689	90.3	680
130-32-1120-**	131-32-1120-**	133-32-1120-**	1284	956	182	1240	1000	40	22	1161	1150	40	10	5×2	M10×1	10	1340	131	900	91	120	+0.5	768	102	820
	132-32-1120-**	134-32-1120-**	1284	956	182	1240	1000	40	22	(1090)	(1079)	40	10	5×2	M10×1	12	1344	109	900	76	120	+0.5	768	102	820
130-40-1250-**	131-40-1250-**	133-40-1250-**	1445	1055	220	1393	1107	45	26	1300	1290	50	10	5×2	M10×1	12	1512	123	984	83	150	+0.5	1110	146	1200
	132-40-1250-**	134-40-1250-**	1445	1055	220	1393	1107	45	26	(1210)	(1200)	50	10	5×2	M10×1	14	1512	105	980	71	150	+0.5	1110	146	1200

LUOYANG BEARING CORP.(GROUP)





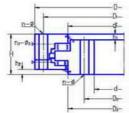


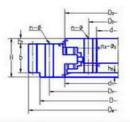


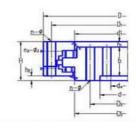
轴承型号 Designations			外形尺寸 Boundary dimensions			安装孔尺寸 Bolt hole diameter					尺 寸 dimensions			齿轮参数 Gear parameters							額定负荷 Basic load ratings		d 质量 Mas		
无齿式	外齿式	内齿式	D	d	Н	D1	DZ	n	ф	D3	d1	hl	h2	n3	φ3		Da	z	da	Z	ь	x	Coa	Cor	
non-gear type	external gear type	internal gear type		-		π	m	"	mm	(D3')	(d1')			15	mm	-	mm	-	mm	-	mm	^	10	* N	kg
130-40-1400 **	131-40 1400 **	133 40 1400 **	1595	1205	220	1543	1257	45	26	1450	1440	50	10	5×2	M10×1	12	1668	136	1140	96	150	+0.5	1240	165	1300
	132 40 1400 **	134 40 1400 **	1595	1205	220	1543	1257	45	26	(1360)	(1350)	50	10	5×2	M10×1	14	1666	116	1134	80	150	+0.5	1240	165	1300
130 40 1600 **	131 40 1600 **	133-40 1600 **	1795	1405	220	1743	1457	48	26	1650	1640	50	10	6×2	M10×1	14	1876	131	1330	.96	150	+0.5	1420	190	1520
	132.40 1600 **	134-40 1600 **	1795	1405	220	1743	1457	48	26	(1560)	(1550)	50	10	6×2	M10×1	16	1872	114	13.28	84	150	+0.5	1420	190	1520
130-40-1800 **	131 40 1800 **	133.40 1800 **	1995	1605	220	1943	1657	48	26	1850	1840	50	10	6×2	M10×1	14	2072	145	1526	110	150	+0.5	1590	215	1750
	132 40 1800 **	134 40 1800 **	1995	1605	220	1943	1657	48	26	(1780)	(1750)	50	10	6×2	M10×1	16	2080	127	1520	96	150	+0.5	1590	215	1750
130 45 2000 **	131-25-2000-03		2195	1816	150	2127	1885	60	33		2041	33	13	3×5	ZG1/4in	16	2267	13.8	-	-	105	+0.9	1690	66.3	1120
	131 45 2000 04		2221	1779	231	2155	1845	60	33	2059	2055	54	12	6×3	M10×1	16	2304	14.1	1696	107	160	+0.5	2050	239	2230
	131 45-2000 **	133-45-2000 **	2221	1779	231	2155	1845	60	33	2055	2033	54	12	6×2	M10×1	16	2304	141	1696	107	160	+0.5	2050	239	2400
	132-45-2000 **	134 45 2000 **	2221	1779	231	2155	1845	60	33	(1967)	(1945)	54	12	6×2	M10×1	18	2304	125	1692	95	160	+0.5	2050	239	2400
130 45 2240 **	131 45 2240 **	133 45 2240 **	2461	2019	231	2395	2085	60	33	2295	2273	54	12	6×2	M10×1	16	2560	157	1920	121	160	+0.5	2310	268	27,00
	132 45 2240 **	134 45 2240 **	2461	2019	231	2395	2085	60	33	(2207)	(2185)	54	12	6×2	M10×1	18	2556	139	1926	108	160	+0.5	2310	268	2700
	131 45 2500 04		2721	2279	231	2655	2345	72	33	2555	2561	54	12	8×3	M10×1	18	2826	154	-	-	160	+0.5	2580	302	2834
130 45 2500 **	131 45 2500 **	133-45 2500 **	2721	2279	231	2655	2345	72	33	2555	2533	54	12	8×2	M10×1	18	2826	154	2178	122	160	+0.5	2580	302	3000
	132 45 2500 **	134 45 2500 **	2721	2279	231	2655	2345	72	33	(2467)	(2445)	54	12	8×2	M10×1	20	2820	138	2180	110	160	+0.5	2580	302	3000
130 45 2800 **	131 45 2800 **	133.45 2800 **	3021	2579	231	2955	2645	72	33	2855	2833	54	12	8×2	M10×1	18	3114	170	2484	139	160	+0.5	2880	339	3400
	132-45-2800 **	134 45 2800 **	3021	2579	231	2955	2645	72	33	(2767)	(2745)	54	12	8×2	M10×1	20	3120	153	2480	125	160	+0.5	2880	339	3400
	132-45-2800-03		3021	2579	231	2955	2645	72	33	2855	2833	54	12	8×3	M10×1	20	3120	153			160	+0.5	2896	323	3031
	132-45-2800-12		3021	2579	231	2955	2645	72	33	2855	2833	54	12	8×3	M10×1	18	3114	170		\sim	160	+0.5	2896	323	3010
130-50-3150.**	131-50-3150 **	133 50 3 150 **	3432	2868	270	3342	2958	72	45	3213	3196	65	12	8X2	M10×1	.20	3540	174	2760	139	180	0.5	3590	381	5000

LUOYANG BEARING CORP.(GROUP)









轴承型号 Designations			外形 Bound dimens	安装孔尺寸 Bolt hole diameter			结构 尺 寸 Structure dimensions					齿 轮 参 数 Gear parameters						额定负荷 Basic load ratings		质量 Mass			
无齿式	外齿式	内齿式	D d	H	D1	D2	n	\$	D3	d1	h1 h2	n3	φ3		Da	z	da	z	b	x	Coa	Cor	
non-gear type	external gear type	internal gear type	110			100	"	mm	(D3')	(d1')		110	him	-	mm	-	mm	"	mm	^	10	N N	kg
130-50-3150-**	132-50-3150-**	134-50-3150-**	3432 286	8 270	3342	2958	72	45	(3104)	(3087)	65 12	8×2	M10×1	22	3542	158	2750	126	180	+0.5	3590	381	5000
130-50-3150-12K			3432 286	3 270	3342	2958	72	45	3103	3086	50 12	8×2	M10×1								3735	502	4900
	131·30·3150·12K		3376 292	2 182	3286	3014	56	45	3190	3180	40 10	8×3	M10×1	20	3476	171			120	+0.5	2050	202	2308
	131·50·3150·12K		3432 286	8 270	3342	2958	72	45	3214	3197	50 12	8×2	ZG1/4in	20	3540	174			180	+0.5	3735	474	5404
	132•50•3150•12K		3432 286	8 270	3342	2958	72	45	3214	3197	50 12	8×2	ZG1/4in	22	3542	158			180	+0.5	3735	474	5409
	132-50-3150-12K1		3432 286	3 270	3342	2958	72	45	3214	3197	50 12	8×3	M10×1	20	3536	174			195	+0.5	3735	474	5385
		133-50-3150-11K	3432 286	3 270	3342	2958	60	39	3103	3086	50 12	8×2	M10×1	20			2761	139	180	+0.5	3575	501	5174
		133-50-3150-12K	3432 286	3 270	3342	2958	60	39	3103	3086	50 12	8×2	M10×1	20			2761	139	180	+0.5	3575	501	5174
		133-50-3150-12K1	3432 286	3 270	3342	2958	60	39	3103	3086	50 12	8×2	M10×1	18			2754	154	180	+0.5	3575	501	5174
		134-50-3150-11K	3432 286	8 270	3342	2958	72	45	3103	3086	50 12	6×2	ZG1/4in	22			2759	126	180	+0.5	3575	501	5104
130-50-3550 **	131-50-3550-**	133-50-3550-**	3832 326	3 270	3742	3358	72	45	3613	3596	65 12	8×2	M10×1	20	3940	194	3160	159	180	+0.5	4040	431	5600
	132.50.3550.**	134-50-3550-**	3832 326	8 270	3742	3358	72	45	(3504)	(3487)	65 12	8×2	M10×1	22	3938	176	3146	144	180	+0.5	4040	431	5600
	132-50-3550-03K		3832 326	3 270	3742	3358	72	45	3613	3596	65 12	8×3	M10×1	22	3934	176			180	+0.5	4105	401	4960
	132-50-3550-12		3832 326	8 270	3742	3358	72	45	3613	3596	65 12	8×3	M10×1	22	3938	176			180	+0.5	4105	401	5318
130-50-4000-**	131.50.4000.**	133-50-4000-**	4282 371	3 270	4192	3808	80	45	4063	4046	65 12	8×2	M10×1	22	4400	197	3608	165	180	+0.5	4560	487	6400
	132-50-4000-**	134-50-4000-**	4282 371	8 270	4192	3808	80	45	3954	3937	65 12	8×2	M10×1	25	4400	173	3600	145	180	+0.5	4560	487	6400
	131-50-4000-04K		4282 371	3 270	4192	3808	80	45	4063	4046	65 12	8×2	M10×1	22	4400	197			180	+0.5	4502	450	6377
	132-50-4000-12		4282 371	8 270	4192	3908	80	45	4063	4046	65 12	8×3	M10×1	25	4400	173			180	+0.5	4502	450	6377
130-50-4500-40	131-50-4500-**	133-50-4500-**	4782 421	3 270	4692	4308	80	45	4563	4546	65 12	8×2	M10×1	22	4906	220	4114	188	185	+0.5	5445	580	6942
	132.50.4500.**	134-50-4500 **	4782 421	8 270	4692	4308	80	45	(4454)	(4437)	65 12	8×2	M10×1	25	4906	193	4100	165	185	+0.5	5445	580	
	131-50-4500-04		4782 421	8 270	4692	4308	80	45	4565	4546	60 12	8×3	M10×1	20	4880	242			185	+0.5	4900	507	7250
	132-50-4500-04		4782 421	8 270	4692	4308	80	45	4565	4546	60 12	10×2	M14×1.5	25	4895	193			185	+0.5	4900	506	7333
	131-60-5000-04		5320 467	320	5220	4766	100	45	5082	5062	65 18	10×3	M10×1	20	5440	270			220	+0.5	6834	955	11752

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