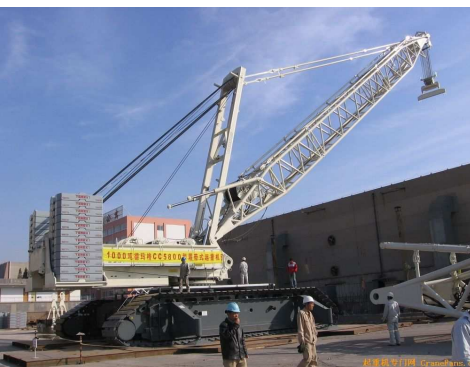


RTR Bearing Company



***Slewing Ring***

***Turntable Bearing***

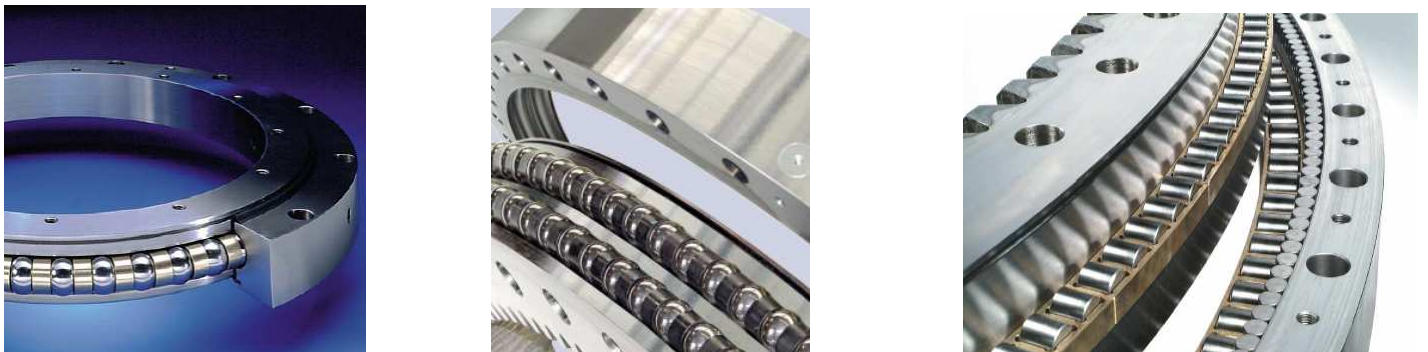


***Product Catalogue***

## Differnet type



## Defferent design



## Professional making





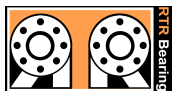
## Slewing ring bearing

RTR is a manufacturer of slewing bearing (including ball and roller bearing slewing rings). We manufacture slewing bearings up to 5,000 mm diameter as monobloc systems and segmental bearing in larger dimensions. Our factory is located in Luoyang, which has the most strong bearing technology in China. Our engineers are from Luoyang Bearing Research Institute, we have strong research and design capability. Many of our product export to Europe, USA and other countries.

Total commitment to quality is common to Both, our domestic and foreign production facilities. All service and areas from applications consulting to design and manufacturing, including comprehensive customer service, are based on the international DIN/ISO 9001/2000 quality standard series.

### Examples for applications:

- Equipment
- Aerial Hydraulic Platforms
- Bogie Bearings for Vehicles
- Excavators
- Harbour and Shipyard Cranes
- Machine Tools
- Mechanical Engineering
- Mobile Cranes
- Offshore Technology
- Packaging and Filling Machines
- Rail Vehicles
- Ship Deck Cranes
- Stackers and Reclaimers
- Steelmill Equipment
- Tower Cranes
- Tunnelling Machines
- Water Treatment Equipment
- Wind and Solar Energy Plants



## Contents

### Technical Information

<b>Function</b> —construction and function of a slewing ring-----	P3
<b>Load</b> —Load distribution, static load capacity of raceway-----	P3--P4
<b>Material</b> —Material of ring, rolling element, cage and seals-----	P4
<b>Clearance</b> ---Axial and radial clearance for different types-----	P4--P6
<b>Heat treatment</b> —parts needed hardened and the hardness-----	P6
<b>Lubrication</b> —For which parts needed-----	P7
<b>Sealing</b> —How our seals design-----	P7
<b>Operating temperature</b> ---Normal standard-----	P7
<b>Service life</b> —what factors effect on-----	P7
<b>Transport, handling and storage</b> ---What must be noted-----	P8
<b>Installation</b> —How to install coorrectly on your machine-----	P8

### Product catalogue

#### Single-row four point contact ball slewing ring

010(no gear) 011,012(external gear) 013,014 (internal gear)-----	P9-P14
HSB( no gear) HSN (external gear) HSW(internal gear)-----	P24-P26
QN(no gear) QU(extrnal gear) QW(internal gear)-----	P27-P29
<b>Single-row four point contact ball slewing ring load graphs</b> -----	<b>P14-P23</b>

#### Cross roller bearing

110(no gear) 111,112(external gear) 113,114(internal gear)-----	P30-P32
HJN(no gear) HJB(external gear) HJW(internal gear)-----	P36-P37
<b>Cross roller bearing load graphs</b> -----	<b>P32-P35</b>

#### Double-row ball slewing ring

020(no gear) 021,022(external gear) 023,024(internal gear)-----	P38-P40
<b>Double-row ball slewing ring load graphs</b> -----	<b>P40-P43</b>

#### Three-row roller slewing ring

130(no gear) 131,132(external gear) 133,134(internal gear)-----	P44-P46
<b>Three-row roller slewing ring load graphs</b> -----	<b>P46-52</b>



## Technical informaton

Slewing ring bearings are large-sized bearings with compositive larege loads carrying capability, which can accommodate asxial load, radial load and tilting torque simultaneously. These bearings normally have mounting holes, internal gears or external gears, lubricating holes and sealing installations. They are featured by compact configuration, light weight, good rigidity, smoothly running, high precision and reliable safety. Applications of the bearings are found in the industries such as engineering/project, metallurgy, mining, oil, chemistry, light industry, aviation, harbor/quay, vessels, military industry, instruments and meters etc.

Our slewing bearing according different requirement has different configuration: single-row four point contact ball slewing ring bearing, double-row angular contact thrust ball slewing ring beairng, cross cylindrical roller bearings, cross tapered roller bearings and three-row cylindrical combination slewing ring bearing. These bearings also can be divided according to whether have gear and distribution of the gear: no gear, external gear and internal gear.

## 1, Function

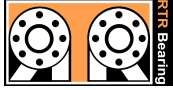
Construction and function of a Slewing Ring

Slewing Rings consist of an internal and external ring and with an integrated raceway system and optional internal or external toothing . A functional seal protects the raceway system on the upper and lower sides. Slewing Rings and designed for grease lubrication which is carried out grease inpples In Slewing Rings, the rolling elements carry the loads between the inner and outer ring. The load capacity of the raceway system is determined predominantly by the raceway design, the hardening depth, and the number and size of the rolling elements and minimise friction and wear. The rolling elements are inserted during manufacture through the filling plug hole retained by the filling plug which is then secured by a pin The force is transmitted to the mounting structure by bolts. Through holes or threaded holes can be provided in the inner and outer rings for these bolts.

## 2, Load distribution

Depending on external load, the load distribution and the contact angle around the rolling elements will vary.

- In the case of axial load, all rolling elements are loaded in the same direction
- In the case of radial load, a segment of the rolling elements carries the load.
- In the case of tilting moment load, a segment on one side and a segment on the opposite side of the raceway carry the load.
- Mostly, a combination of axial, radial and tilting moment loads occur.



Static load capacity of raceway

Static load capacity of the Slewing Ring is determined by:

- Hardening depth of the raceway
  - Number and size of the rolling elements
- Slewing Ring design
- Raceway geometry

## 3, Material

Proper design and choosing material is important to ensure high technical capability and reliability.

### Ring and Rolling element

Normally the roller element for the slewing ring bearing is the whole hardened chrome steel, China number is GCr15 or GCr15SiMn. Ring for the slewing ring bearing is case hardened steel, when no special requirement, we may choose Steel 50Mn. When have special application, or required by customers, we may choose other steel, like 42CrMo, 5CrMnMo, etc.

### Cage

Cage for the slewing ring have integral cage, subsectional cage or isolation block cage. For most cages we use 20# Steel or aluminium alloy which adopt polyamide 1010 resin, cast aluminum alloy ZL102 or aluminum bronze QA110-3-1.5 manufacturing. And also with developing of material industry, Nylon GRPA66.25 also applied much now.

### Seals

Material of slewing ring bearing seals are made by oil resistant Buna-N rubber.

## 4, Clearance

Clearance of slewing ring primarily compensate the error between bearing supporting accessories and related assembling parts, and the mounting error to ensure normal using of the bearings.

Normally exact data of the clearance of the bearing according to the dimension of the bearings. We also can adjust the data according to the requirement of the customers, preload bearings also can be done with the bearings.



Single-row four point contact ball slewing ring bearing  $\mu\text{m}$

Dpm mm		Tolerance class					
		G		E		D	
		Axial Clearance					
min	man	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

Double-row ball slewing ring bearing  $\mu\text{m}$

Dpm mm		Tolerance class					
		G		E		D	
		Axial Clearance					
min	man	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

Cross roller bearing  $\mu\text{m}$

Dpm mm		Tolerance class					
		G		E		D	
		Axial Clearance					
min	man	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



Three-row cylindrical roller slewing ring bearing  $\mu\text{m}$

Dpm mm		Tolerance class											
		G				E				D			
		Axial Clearance		Radial Clearance		Axial Clearance		Radial Clearance		Axial Clearance		Radial Clearance	
min	max	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

## 5, Heat treatment

Inner and outer ring

Case hardened should to reach HRC55-62, depth should be follow the below table.

Ring and Race available hardened depth mm

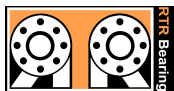
Dw	$\leq 30$	$>30 \sim 40$	$>40 \sim 50$	$>50$
Ds	$\geq 3.0$	$\geq 3.5$	$\geq 4.0$	$\geq 5.0$

PS: Ds is the case depth when hardness reach 48 HRC and above.

Gear available hardened depth mm

m		$\leq 6$	$>6 \sim 12$	$>12 \sim 18$	$>18 \sim 25$
DS	Gear face	$\geq 1.2$	$\geq 2.2$	$\geq 3.2$	$\geq 4.0$
	Gear root	$\geq 0.6$	$\geq 1.2$	$\geq 1.5$	$\geq 2.0$





## 6, Lubrication

To ensure flawless operation and long usable life, adequate and regular lubrication is necessary. The grease fulfills the following functions:

### **For the raceway:**

Reduction of friction and wear in the rolling contacts

Corrosion protection

Lubrication of seals

Additional sealing effect of grease collar

Low friction torque

### **For the gears:**

Smoother running

Lower wear

Reduced operating noise

Longer useful life

Lower heat development

### **Initial greasing**

RTR Slewing rings are supplied pre-lubricated. High-quality lithium-complex grease.

## 7, Sealing

Polymer seals protect the Slewing Rings from normal dirt penetration, dust and light sprayed water. For very dirty and wet environments, the seals shall be protected by pre-mounted labyrinth or additional seals on the mounting structure. Performance and service life of the Slewing Ring depends strongly on preventing ingress of contaminants into the Slewing Ring.

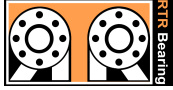
## 8, Operating temperature

Standard RTR Slewing Ring can be used in ambient temperatures from -25 to up +70°C, please contact us in the case of higher or lower operating temperatures.

## 9, Service Life

The service life of the gear depends on the operating conditions. The following factors are key:

- Torque
- Output speed
- Duty factor
- Ambient temperature
- Lubrication etc.



## 10, Transport, handling and storage

Transport only in horizontal position. Impact shall be avoided.

Wear work gloves when handling the slewing rings.

Slewing rings are generally provided with threaded holes in which eye bolts can be fixed. This enables safe handling on a hoisting device. Please observe the relevant legal regulations when doing this.

Slewing ring must be transported with the hoisting device connected to three uniformly distributed lifting points around the perimeter. Internal factory transport and installation shall only take place in a horizontal position. Transport crosses must be left in the slewing ring until it is properly installed.

Store only in horizontal position in closed rooms, if stacked there must be a stable intermediate layer. The corrosion protection coating has a shelf-life of approx. 3 months in closed packaging. Longer storage periods require special protective measures.

## 11, Installation

- 1, Cleaning the slewing ring and the mounting structure.
- 2, Determining permissible deviations and deformations of mounting structure
- 3, Lubricating of slewing ring.
- 4, Choice of mounting bolts.
- 5, Choice of tightening torques.
- 6, Tightening the bolts with a hydraulic tightening device.
- 7, Positioning the slewing ring.
- 8, Securing the slewing ring with bolts.
- 9, Determining the existing tilting clearance.
- 10, Setting the backlash
- 11, Operating test.

## ***PRODUCT CATALOGUE***

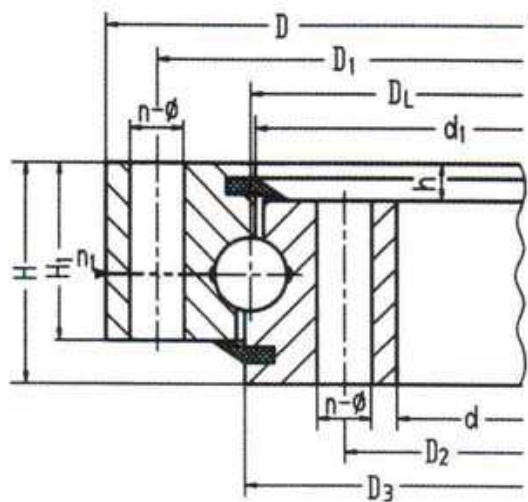
Below we have the exact bearing number in different type and size.

**NOTE:** For the one you don't find in our catalogue, please contact with us to see if we can supply.

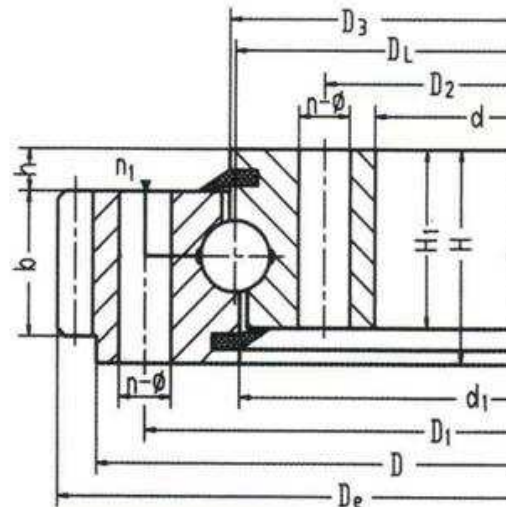
## Single-row four point contact ball slewing ring bearing

The single-row four point contact ball slewing ring is composed of 2 seat-rings. It features compact in design, and light in weight. The balls contact with the circular race at four points, via which the axial force, radial force and resultant moment may be born simultaneously.

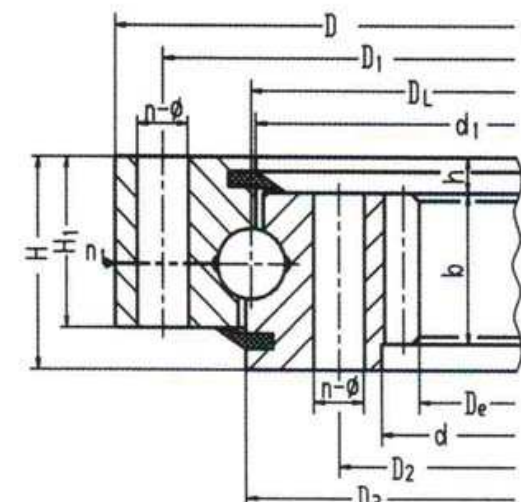
It may be used for slewing conveyers, welding arm and positioner, light, medium duty cranes, excavators and other engineering



010



011,012



013,014

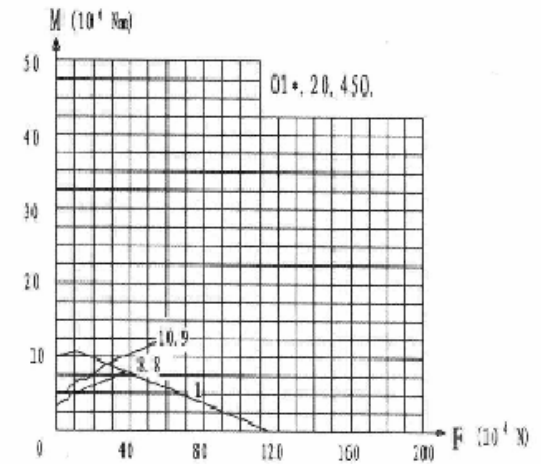
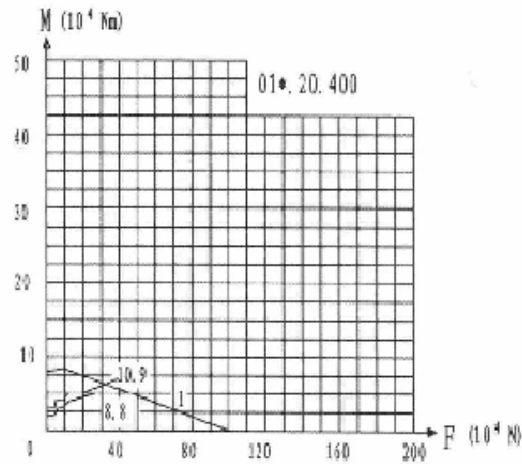
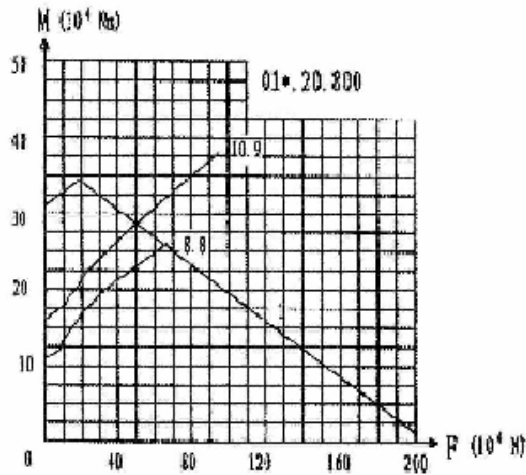
No.	Basic type			Configuration size			Mounting				Structural size				Gear Data			Ext Gear		Int Gear		Tangential Tooth load		Weight (kg)	
	Toothless D <sub>L</sub> mm	Ext Toothling D <sub>L</sub> mm	Int Toothling D <sub>L</sub> mm	D mm	d mm	H mm	D <sub>1</sub> mm	D <sub>2</sub> mm	n	Φ mm	n1	D <sub>3</sub> mm	d <sub>1</sub> mm	H <sub>1</sub> mm	h	b mm	x	m mm	D <sub>e</sub> mm	Z	D <sub>e</sub> mm	Z	Norm -aliz -ing Z 10 <sup>4</sup> N		temp -eri -ng T 10 <sup>4</sup> N
1	010.20.200	011.20.200	—	280	120	60	248	152	12	16	2	201	199	50	10	40	0	3	300	98	—	—	—	—	—
2	010.20.224	011.20.224	—	304	144	60	272	176	12	16	2	225	223	50	10	40	0	3	312	105	—	—	—	—	—
3	010.20.250	011.20.250	—	330	170	60	298	202	18	16	2	251	249	50	10	40	0	4	352	86	—	—	—	—	—
4	010.20.280	011.20.280	—	360	200	60	328	232	18	16	2	281	279	50	10	40	0	4	384	94	—	—	—	—	—
5	010.25.315	011.25.315	013.25.315	408	222	70	372	258	20	18	2	316	314	60	10	50	0	5	435	85	190	40	—	—	—
6	010.25.355	011.25.355	013.25.355	448	262	70	412	298	20	18	2	356	354	60	10	50	0	5	475	93	235	49	—	—	—
7	010.25.400	011.25.400	013.25.400	493	307	70	457	343	24	18	2	401	399	60	10	50	0	6	528	86	276	48	—	—	—
8	010.25.450	011.25.450	013.25.450	543	357	70	507	393	24	18	2	451	449	100	10	50	0	6	576	94	324	56	—	—	—
9	010.30.500	011.30.500	013.30.500	602	398	80	566	434	20	18	4	501	498	70	10	60	+0.5	5	629	123	367	74	3.7	5.2	85
		6	628.8															102	368.4	62	4.5	6.2			
9'	010.25.500	011.25.500	013.25.500	602	398	80	566	434	20	18	4	501	499	70	10	60	+0.5	5	629	123	367	74	3.7	5.2	85
		6	628.8															102	368.4	62	4.5	6.2			
10	010.30.560	011.30.560	013.30.560	662	458	80	626	494	20	18	4	561	558	70	10	60	+0.5	5	689	135	427	86	3.7	5.2	95
		6	688.8															112	428.4	72	4.5	6.2			
10'	010.25.560	011.25.560	013.25.560	662	458	80	626	494	20	18	4	561	559	70	10	60	+0.5	5	689	135	427	86	3.7	5.2	95
		6	688.8															112	428.4	72	4.5	6.2			
11	010.30.630	011.30.630	013.30.630	732	528	80	696	564	24	18	4	631	628	70	10	60	+0.5	6	772.8	126	494	83	4.5	6.2	110
		8	774															94	491	62	6.0	8.3			

No.	Basic type			Configuration size			Mounting					Structural size				Gear Data			Ext Gear		Int Gear		Tangential Tooth load		Weight (kg)
	Toothless D <sub>L</sub> mm	Ext Toothling D <sub>L</sub> mm	Int Toothling D <sub>L</sub> mm	D mm	d mm	H mm	D <sub>1</sub> mm	D <sub>2</sub> mm	n	Φ mm	n1	D <sub>3</sub> mm	d <sub>1</sub> mm	H <sub>1</sub> mm	h	b mm	x	m mm	D <sub>e</sub> mm	Z	D <sub>e</sub> mm	Z	Norm -aliz -ing Z 10 <sup>4</sup> N	temp -eri -ng T 10 <sup>4</sup> N	
11'	010.25.630	011.25.630	013.25.630	732	528	80	696	564	24	18	4	631	629	70	10	60	+0.5	6	772 .8	126	494 .4	83	4.5	6.2	110
		8	774 .4															94	491 .2	62	6.0	8.3			
12	010.30.710	011.30.710	013.30.710	812	608	80	776	644	24	18	4	711	708	70	10	60	+0.5	6	850 .8	139	572 .4	96	4.5	6.2	120
		8	854 .4															104	571 .2	72	6.0	8.3			
12'	010.25.710	011.25.710	013.25.710	812	608	80	776	644	24	18	4	711	709	70	10	60	+0.5	6	850 .8	139	572 .4	96	4.5	6.2	120
		8	854 .4															104	571 .2	72	6.0	8.9			
13	010.40.800	011.40.800	013.40.800	922	678	100	878	722	30	22	6	801	798	90	10	80	+0.5	8	966 .4	118	635 .2	80	8.0	11. 1	220
		10	968															94	634	64	10. 0	14. 0			
13'	010.30.800	011.30.800	013.30.800	922	678	100	878	722	30	22	6	801	798	90	10	80	+0.5	8	966 .4	118	635 .2	80	8.0	11. 1	220
		10	968															94	634	64	10.0	14. 0			

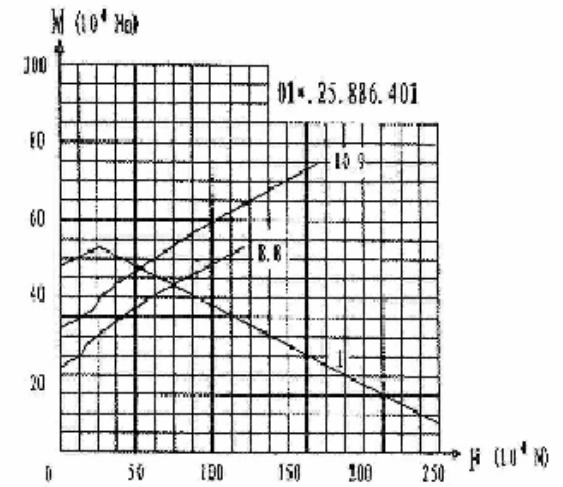
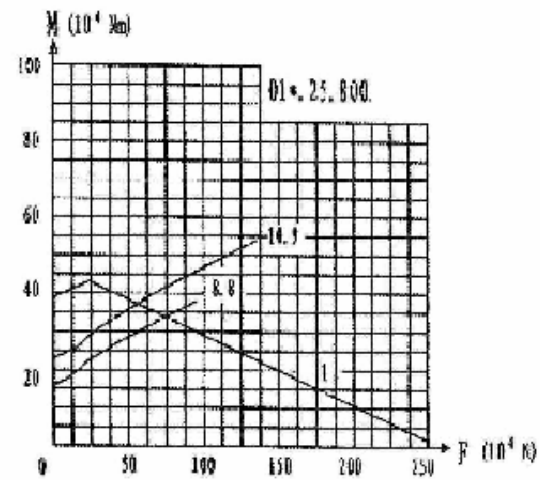
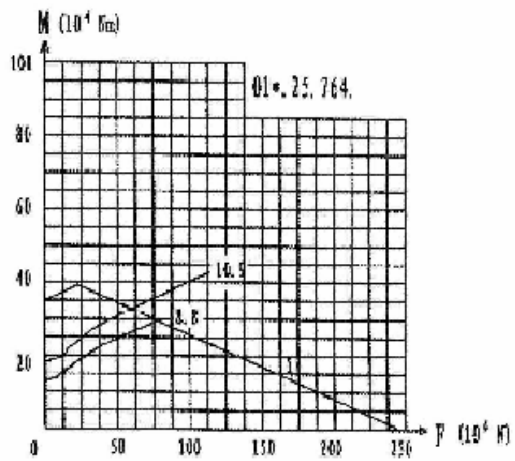
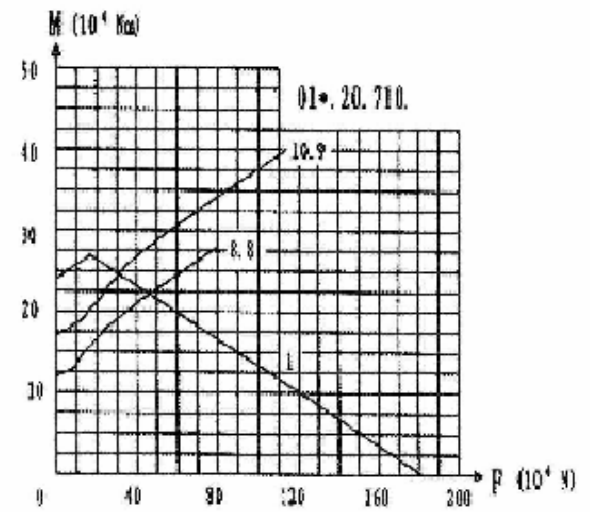
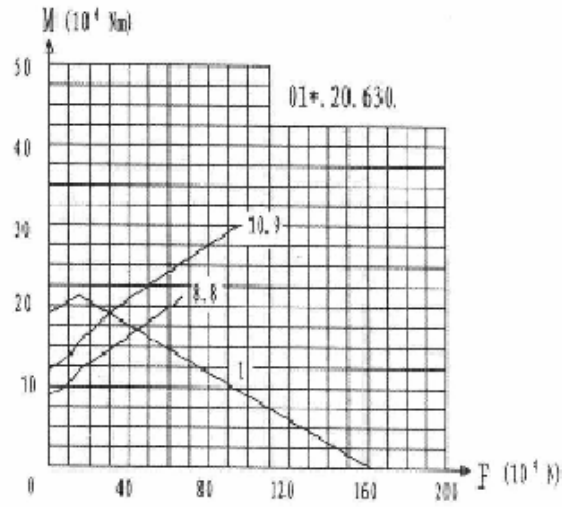
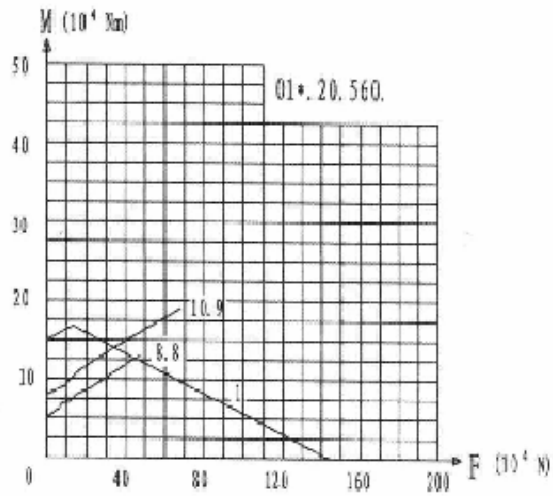
No.	Basic type			Configuration size			Mounting					Structural size				Gear Data			Ext Gear		Int Gear		Tangential Tooth load		Weight (kg)
	Toothless D <sub>L</sub> mm	Ext Toothling D <sub>L</sub> mm	Int Toothling D <sub>L</sub> mm	D mm	d mm	H mm	D <sub>1</sub> mm	D <sub>2</sub> mm	n	Φ mm	n1	D <sub>3</sub> mm	d <sub>1</sub> mm	H <sub>1</sub> mm	h	b mm	x	m mm	D <sub>e</sub> mm	Z	D <sub>e</sub> mm	Z	Norm -aliz -ing Z 10 <sup>4</sup> N	temp -eri -ng T 10 <sup>4</sup> N	
14	010.40.900	011.40.900	013.40.900	1022	778	100	978	822	30	22	6	901	898	90	10	80	+0.5	8	1062.4	130	739.2	93	8.0	11.1	240
		10	1068															104	734	74	10.0	14.0			
14'	010.30.900	011.30.900	013.30.900	1022	778	100	978	822	30	22	6	901	898	90	10	80	+0.5	8	1062.4	130	739.2	93	8.0	11.1	240
		10	1068															104	734	74	10.0	14.0			
15	010.40.1000	011.40.1000	013.40.1000	1122	878	100	1078	922	36	22	6	1001	998	90	10	80	+0.5	10	1188	116	824	83	10.0	14.0	270
		12	1185.6															96	820.8	69	12.0	16.7			
15'	010.30.1000	011.30.1000	013.30.1000	1122	878	100	1078	922	36	22	6	1001	998	90	10	80	+0.5	10	1188	116	824	83	10.0	14.0	270
		12	1185.6															96	820.8	69	12.0	16.7			
16	010.40.1120	011.40.1120	013.40.1120	1242	998	100	1198	1042	36	22	6	1121	1118	90	10	80	+0.5	10	1298	127	944	95	10.0	14.0	300
		12	1305.6															106	940.8	79	12.0	16.7			
16'	010.30.1120	011.30.1120	013.30.1120	1242	998	100	1198	1042	36	22	6	1121	1118	90	10	80	+0.5	10	1298	127	944	95	10.0	14.0	300
		12	1305.6															106	940.8	79	12.0	16.7			
17	010.45.1250	011.45.1250	013.45.1250	1390	1110	110	1337	1163	40	26	5	1252	1248	100	10	90	+0.5	12	1449.6	118	1048.8	88	13.5	18.8	420
		14	1453.2															101	1041.6	75	15.8	21.9			
17'	010.35.1250	011.35.1250	013.35.1250	1390	1110	110	1337	1163	40	26	5	1251	1248	100	10	90	+0.5	12	1449.6	118	1048.8	88	13.5	18.8	420
		14	1453.2															101	1041.6	75	15.8	21.9			
18	010.45.1400	011.45.1400	013.45.1400	1540	1260	110	1487	1313	40	26	5	1402	1398	100	10	90	+0.5	12	1605.6	131	1192.8	100	13.5	18.8	480
		14	1607.2															112	1195.6	86	15.5	21.9			

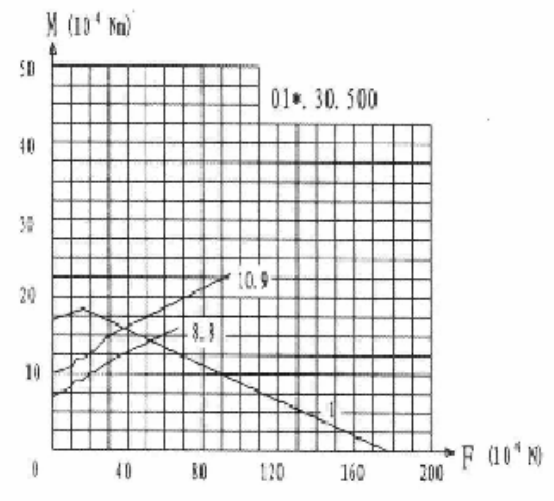
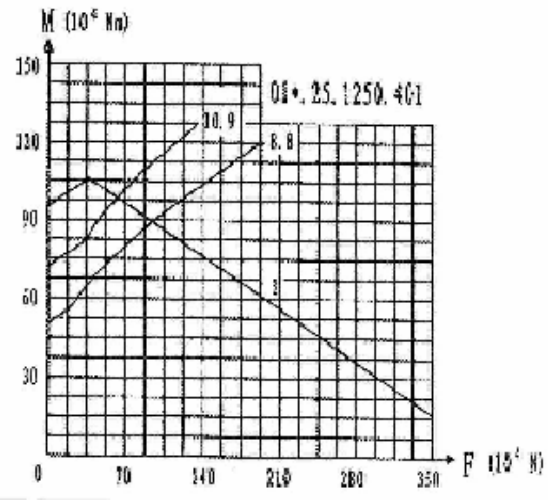
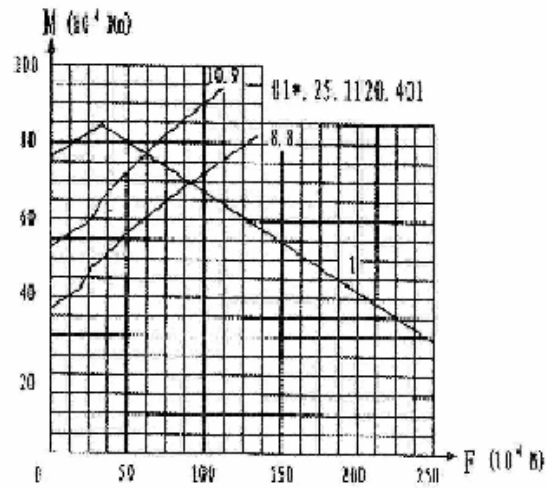
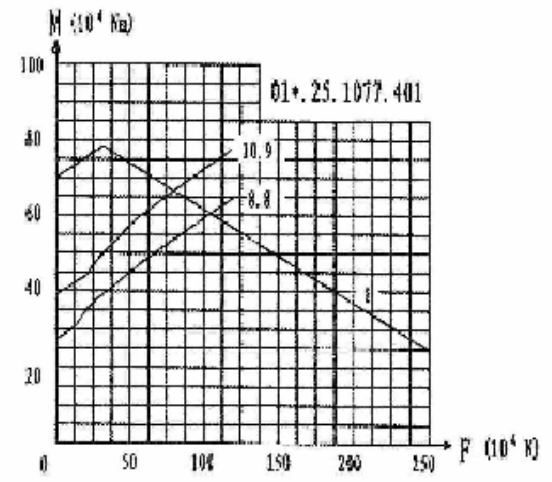
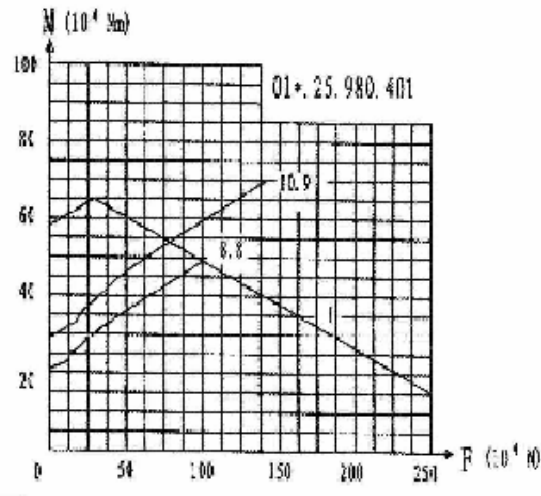
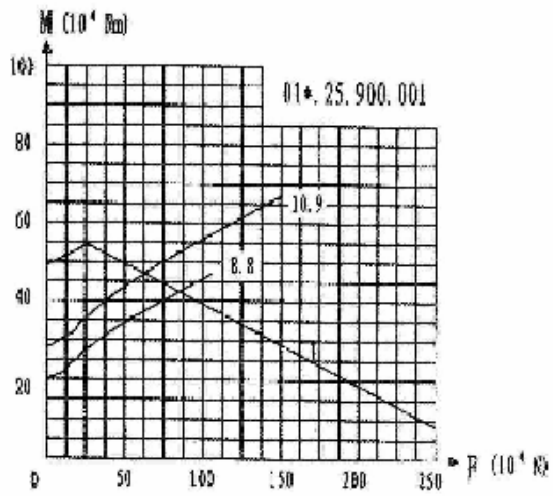
No.	Basic type			Configuration size			Mounting					Structural size				Gear Data			Ext Gear		Int Gear		Tangential Tooth load		Weight (kg)
	Toothless D <sub>L</sub> mm	Ext Toothling D <sub>L</sub> mm	Int Toothling D <sub>L</sub> mm	D mm	d mm	H mm	D <sub>1</sub> mm	D <sub>2</sub> mm	n	Φ mm	n1	D <sub>3</sub> mm	d <sub>1</sub> mm	H <sub>1</sub> mm	h	b mm	x	m mm	D <sub>e</sub> mm	Z	D <sub>e</sub> mm	Z	Norm -aliz -ing Z 10 <sup>4</sup> N	temp -eri -ng T 10 <sup>4</sup> N	
18'	010.35.1400	011.35.1400	013.35.1400	1540	1260	110	1487	1313	40	26	5	1401	1398	100	10	90	+0.5	12	1605.6	131	1192.8	100	13.5	18.8	480
		012.35.1400	014.35.1400															14	1607.2	112	1195.6	86	15.8	21.9	
19	010.45.1600	011.45.1600	013.45.1600	1740	1460	110	1687	1513	45	26	5	1602	1598	100	10	90	+0.5	14	1817.2	127	1391.6	100	15.8	21.9	550
		012.45.1600	014.45.1600															16	1820.8	111	1382.4	87	18.1	25.0	
19'	010.35.1600	011.35.1600	013.35.1600	1740	1460	110	1687	1513	45	26	5	1601	1598	100	10	90	+0.5	14	1817.2	127	1391.6	100	15.8	21.9	550
		012.35.1600	014.35.1600															16	1820.8	111	1382.4	87	18.1	25.0	
20	010.45.1800	011.45.1800	013.45.1800	1940	1660	110	1887	1713	45	26	5	1802	1798	100	10	90	+0.5	14	2013.2	141	1573.6	113	15.8	21.9	610
		012.45.1800	014.45.1800															16	2012.8	123	1574.4	99	18.1	25.0	
20'	010.35.1800	011.35.1800	013.35.1800	1940	1660	110	1887	1713	45	26	5	1801	1798	100	10	90	+0.5	14	2013.2	141	1573.6	113	15.8	21.	610
		012.35.1800	014.35.1800															16	2012.8	123	1574.4	99	18.1	25.0	
21	010.60.2000	011.60.2000	013.60.2000	2178	1825	144	2110	1891	48	33	8	2002	1998	132	12	120	+0.5	16	2268.8	139	1734.4	109	24.1	33.3	1100
		012.60.2000	014.60.2000															18	2264.4	123	1735.2	97	27.1	37.5	
21'	010.40.2000	011.40.2000	013.40.2000	2178	1825	144	2110	1891	48	33	8	2001	1998	132	12	120	+0.5	16	2268.8	139	1734.4	109	24.1	33.3	1100
		012.40.2000	014.40.2000															18	2264.4	123	1735.2	97	27.1	37.5	
22	010.60.2240	011.60.2240	013.60.2240	2418	2065	144	2350	2131	48	33	8	2242	2238	132	12	120	+0.5	16	2492.8	153	1990.4	125	24.1	33.3	1250
		012.60.2240	014.60.2240															18	2498.4	136	1987.2	111	27.1	37.5	
22'	010.40.2240	011.40.2240	013.40.2240	2418	2065	144	2350	2131	48	33	8	2241	2238	132	12	120	+0.5	16	2492.8	153	1990.4	125	24.1	33.3	1250
		012.40.2240	014.40.2240															18	2498.4	136	1987.2	111	27.1	37.5	
23	010.60.2500	011.60.2500	013.60.2500	2678	2325	144	2610	2391	56	33	8	2502	2498	132	12	120	+0.5	18	2768.4	151	2239.2	125	27.1	37.5	1400
		012.60.2500	014.60.2500															20	2776	136	2228	112	30.1	41.8	

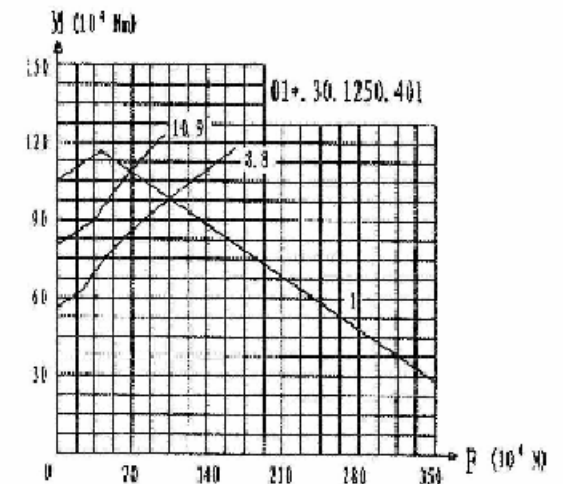
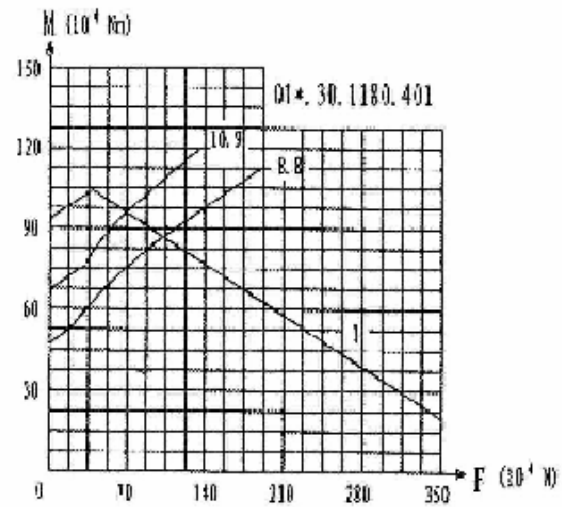
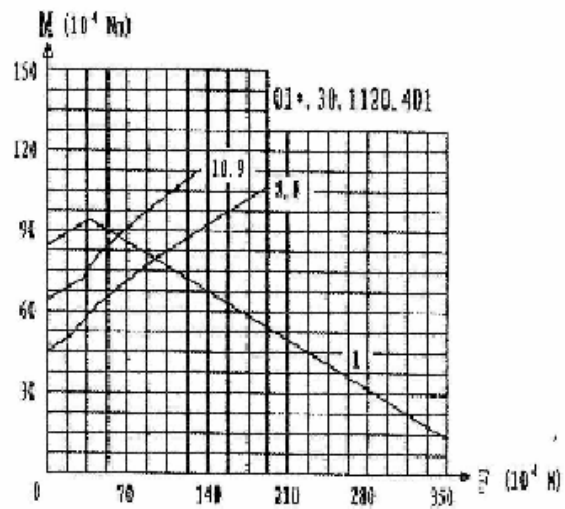
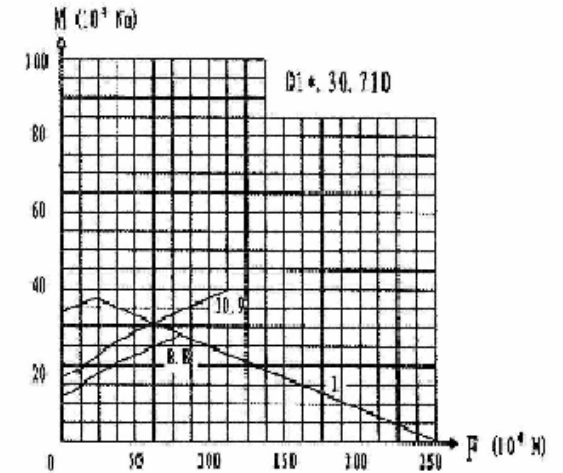
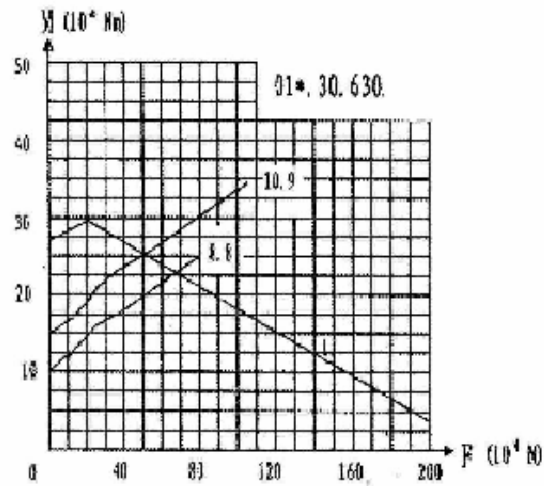
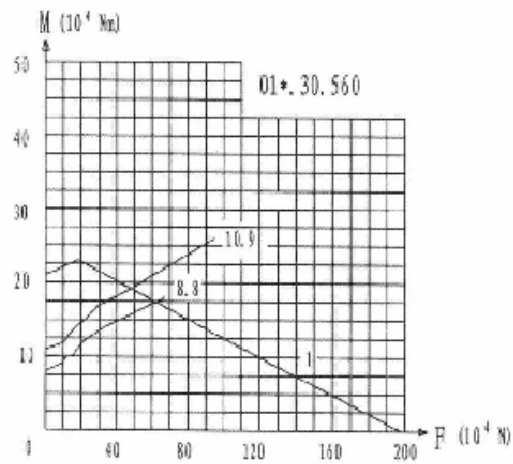
No.	Basic type			Configuration			Mounting				Structural size				Gear Data			Ext Gear		Int Gear		Tangential		Weight (kg)	
				size																		Tooth load			
	Toothless	Ext Toothling	Int Toothling	D	d	H	D <sub>1</sub>	D <sub>2</sub>	n	Φ	n1	D <sub>3</sub>	d <sub>1</sub>	H <sub>1</sub>	h	b	x	m	D <sub>e</sub>	Z	D <sub>e</sub>	Z	Norm	temp	
	D <sub>L</sub>	D <sub>L</sub>	D <sub>L</sub>	mm	mm	mm	mm	mm		m		mm	mm	mm									mm	mm	
mm	mm	mm																					-ing	-ng	
23'	010.40.2500	011.40.2500	013.40.2500	2678	2325	144	2610	2391	56	33	8	2501	2498	132	12	120	+0.5	18	2768.4	151	2239.2	125	27.1	37.5	1400
		012.40.2500	014.40.2500															20	2776	136	2228	112	30.1	41.8	
24	010.60.2800	011.60.2800	013.60.2800	2978	2625	144	2910	2691	56	33	8	2802	2798	132	12	120	+0.5	18	3074.4	168	2527.2	141	27.1	37.5	1600
		012.60.2800	014.60.2800															20	3076	151	2528	127	30.1	41.8	
24'	010.40.2800	011.40.2800	013.40.2800	2978	2625	144	2910	2691	56	33	8	2802	2798	132	12	120	+0.5	18	3074.4	168	2527.2	141	27.1	37.5	1600
		012.40.2800	014.40.2800															20	3076	151	2528	127	30.1	41.8	

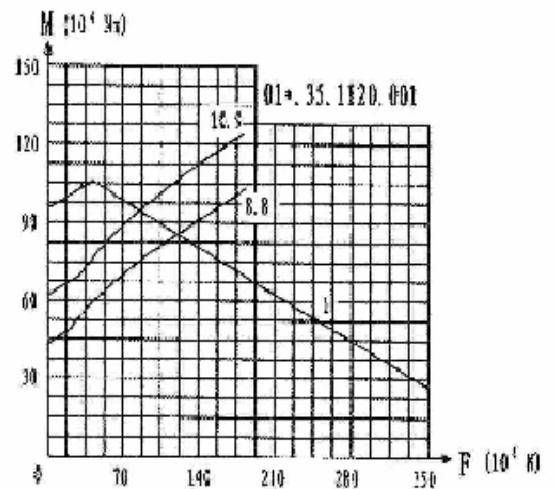
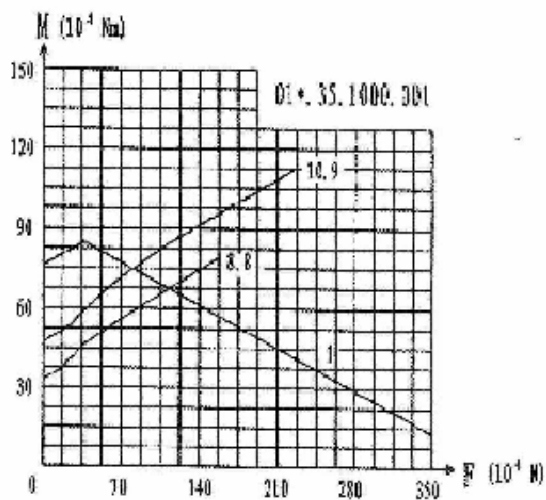
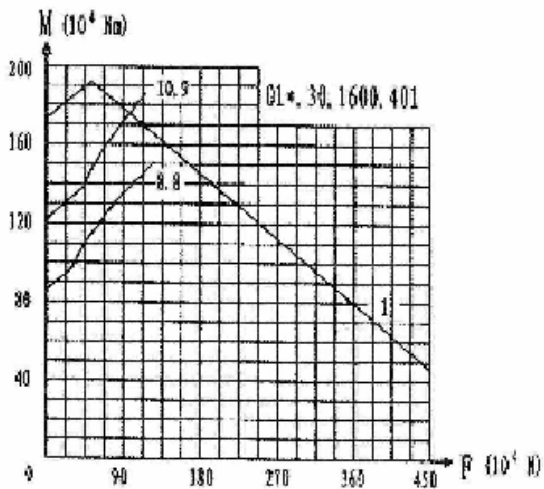
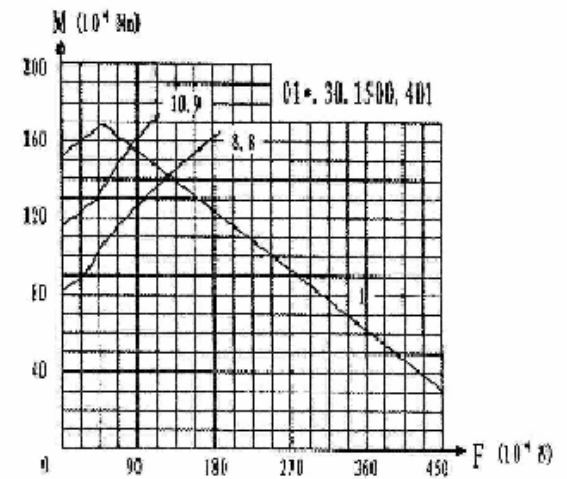
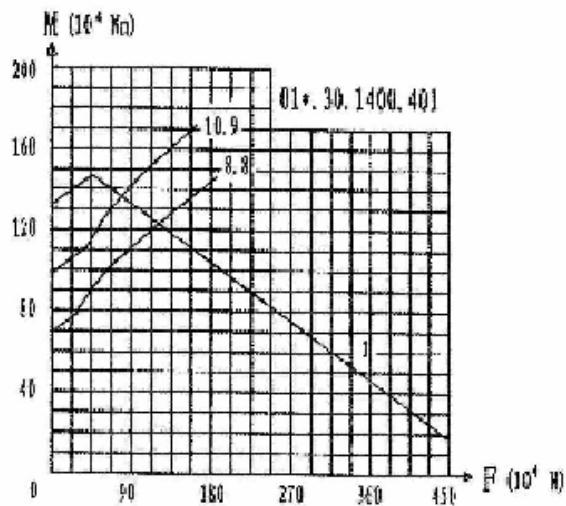
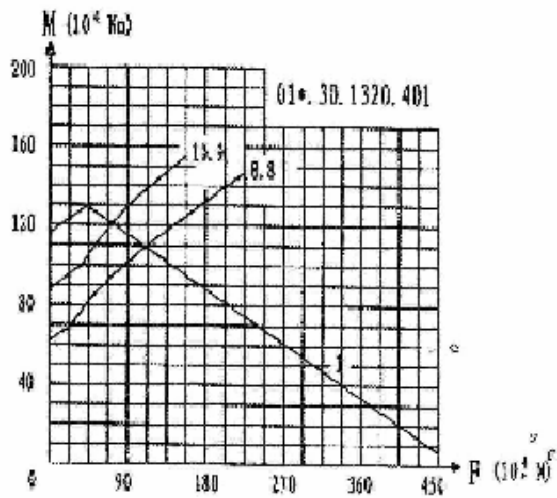


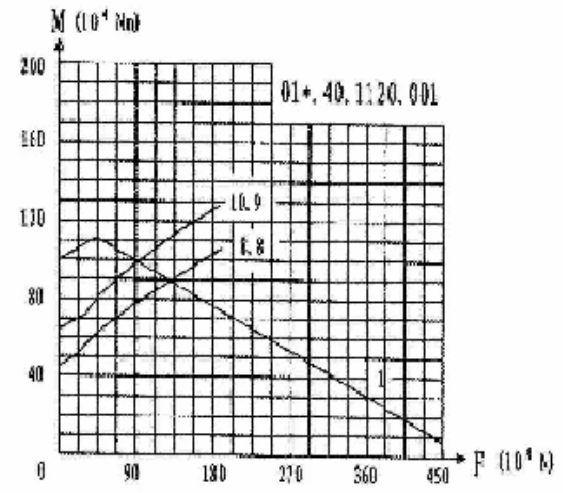
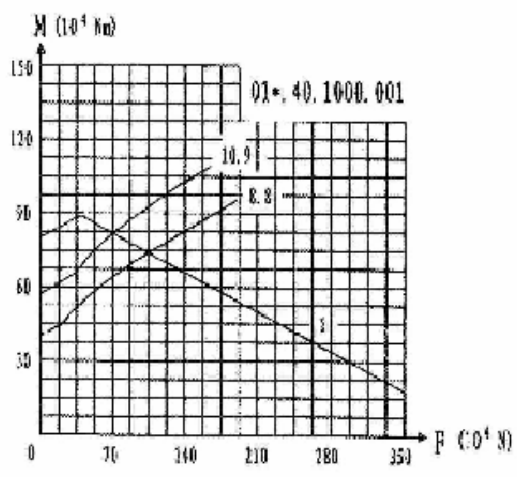
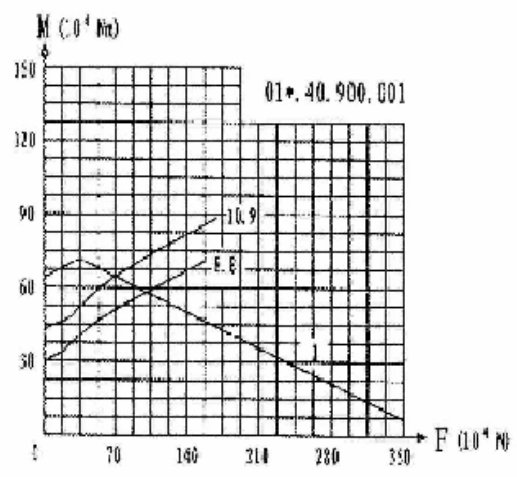
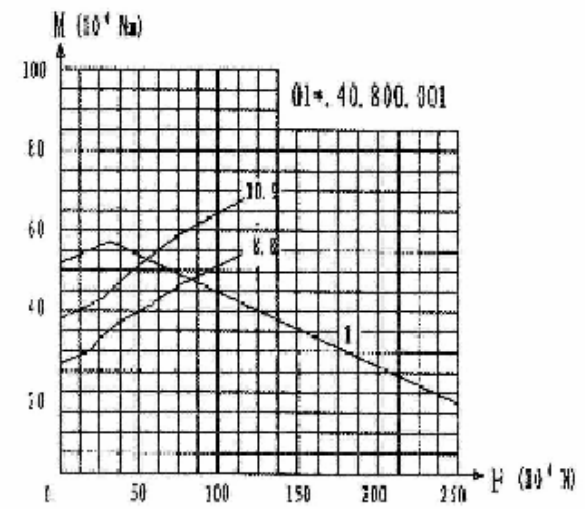
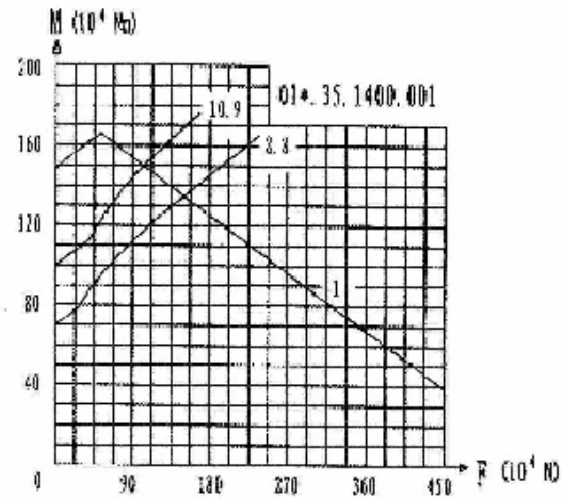
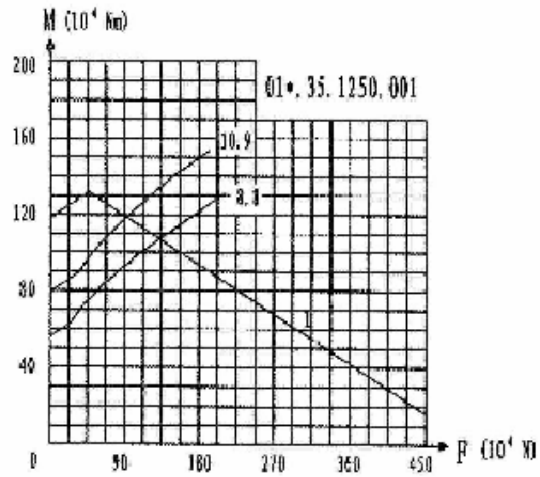


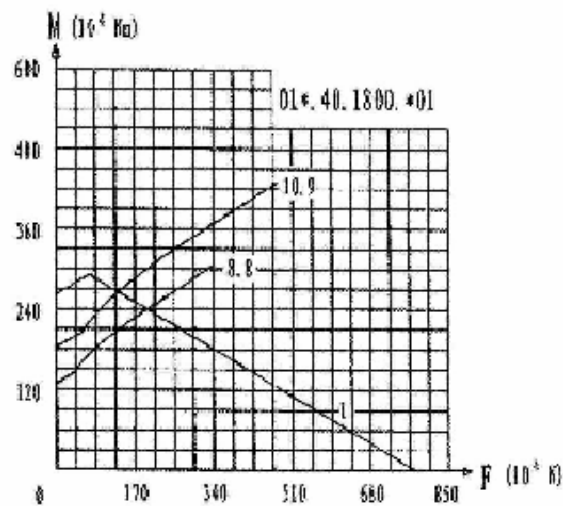
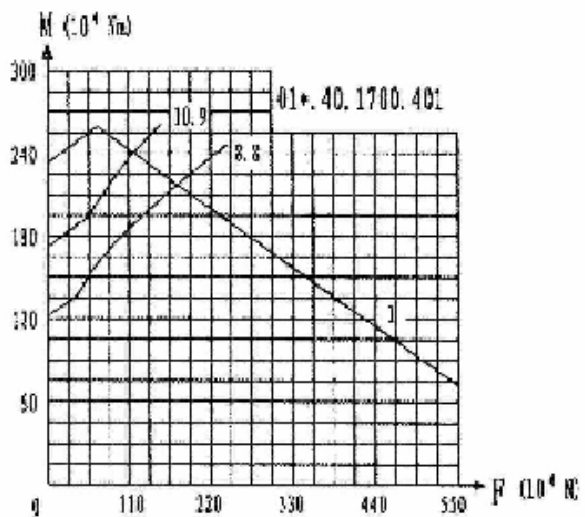
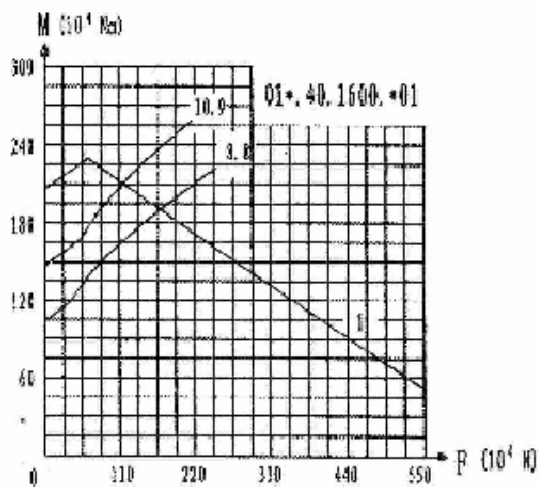
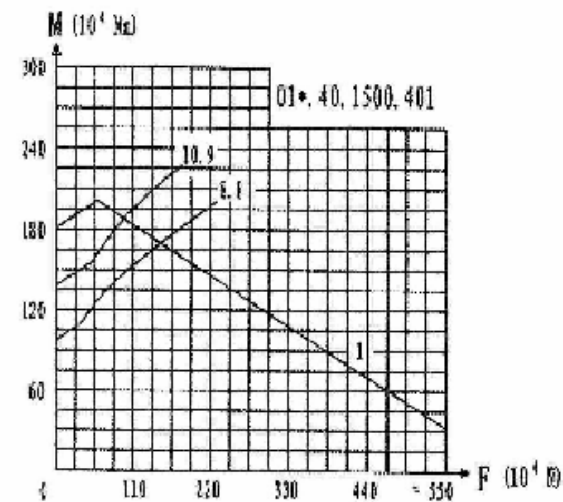
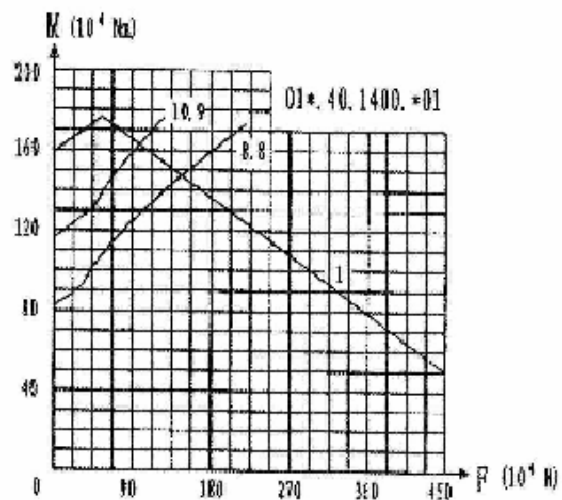
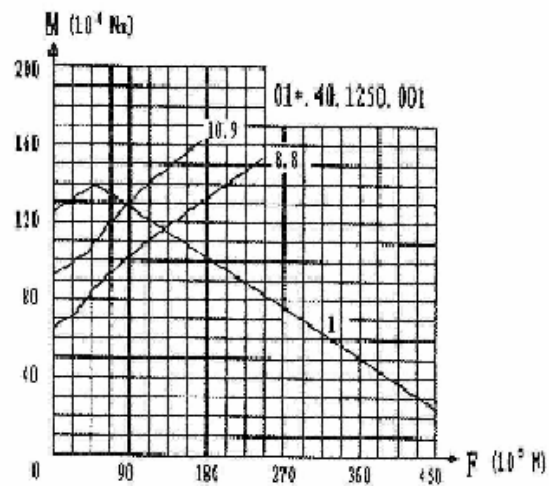


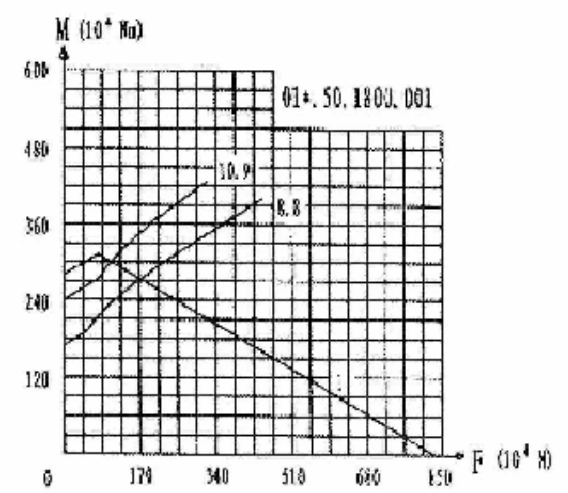
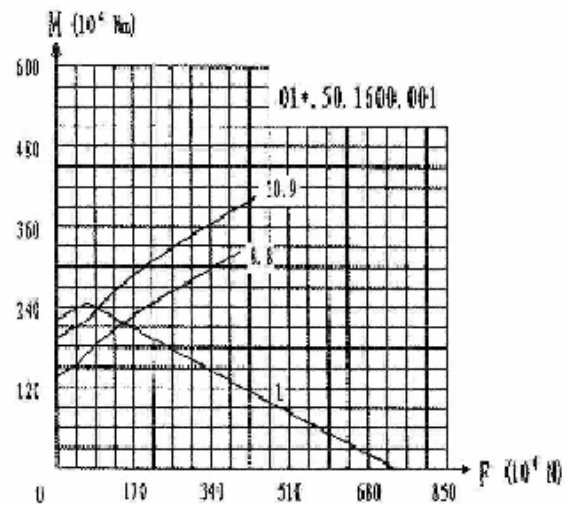
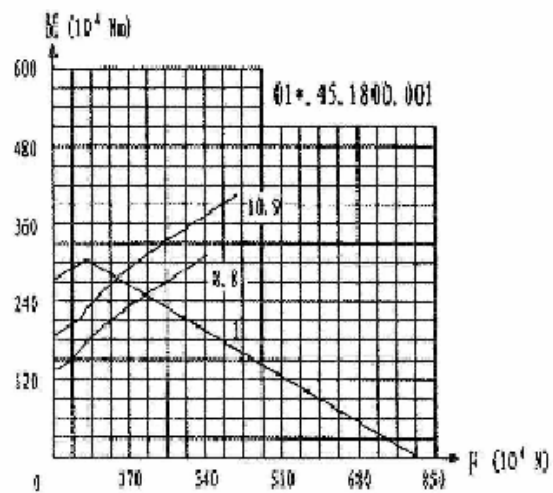
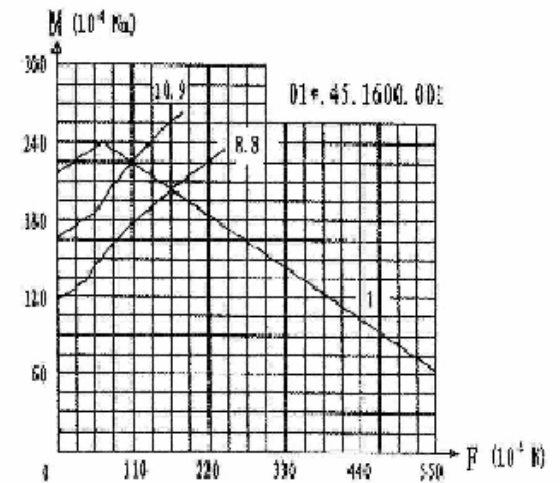
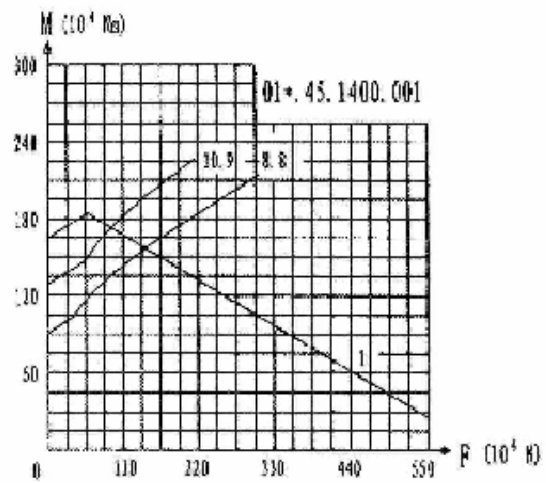
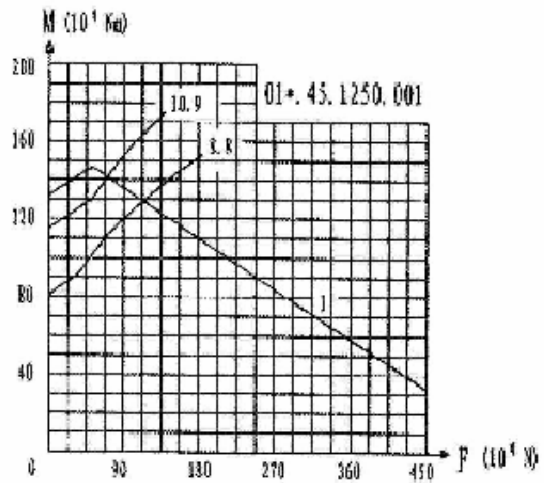


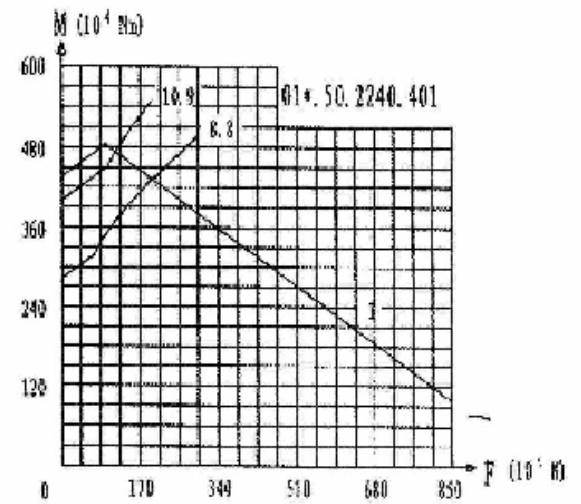
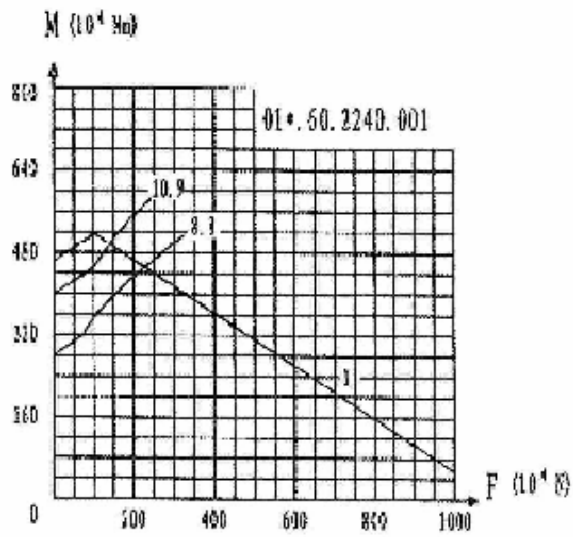
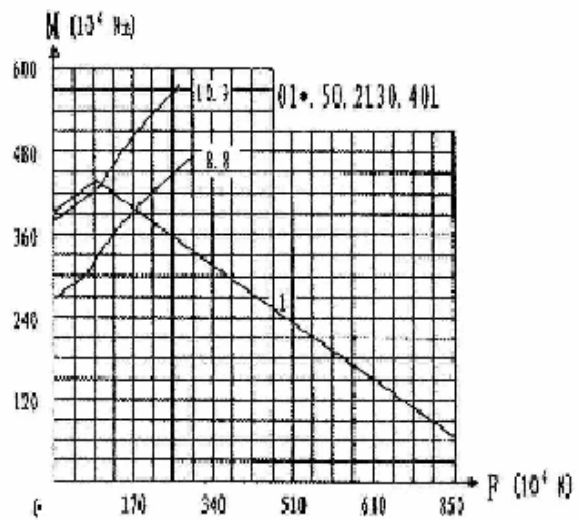
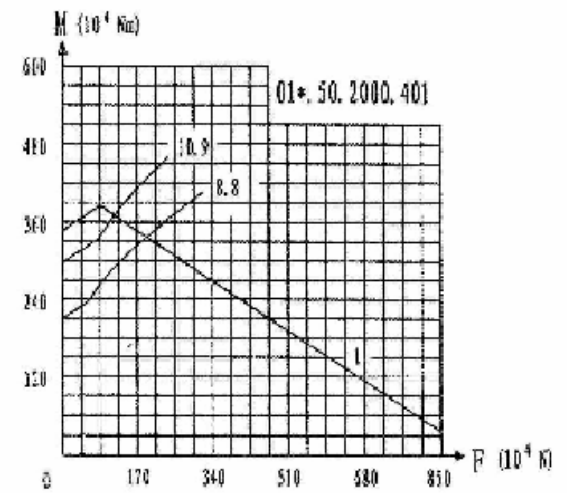
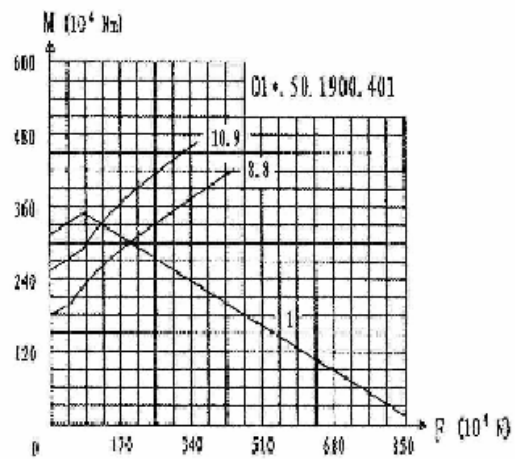
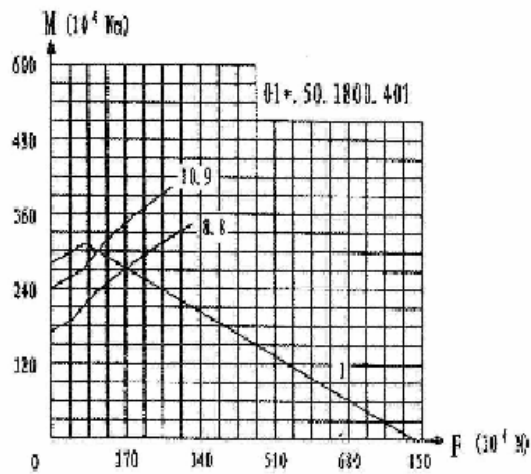




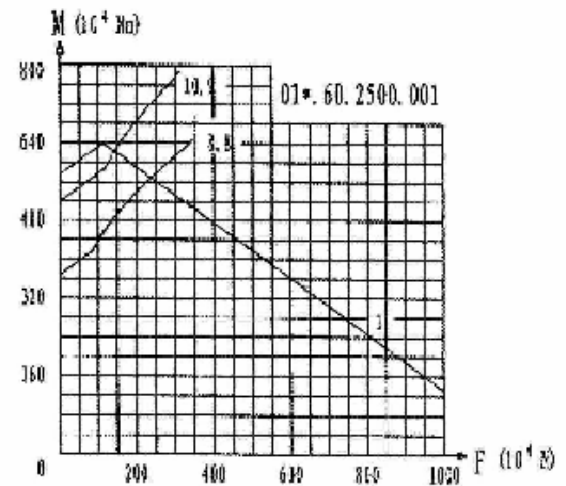
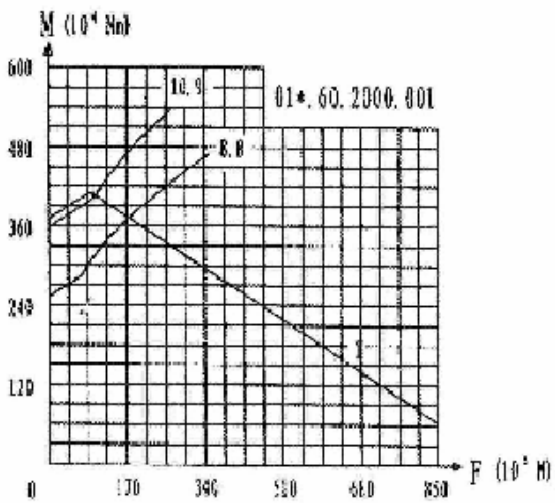
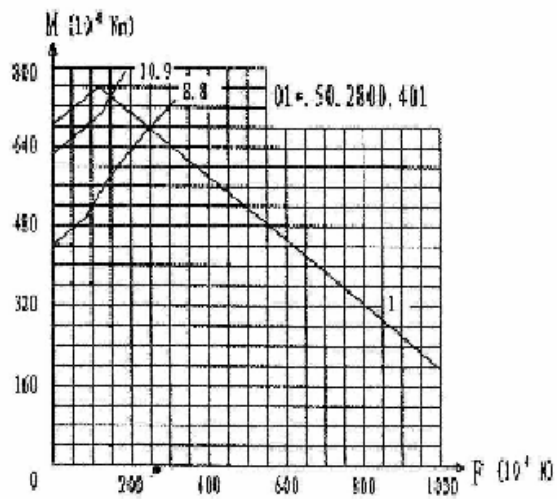
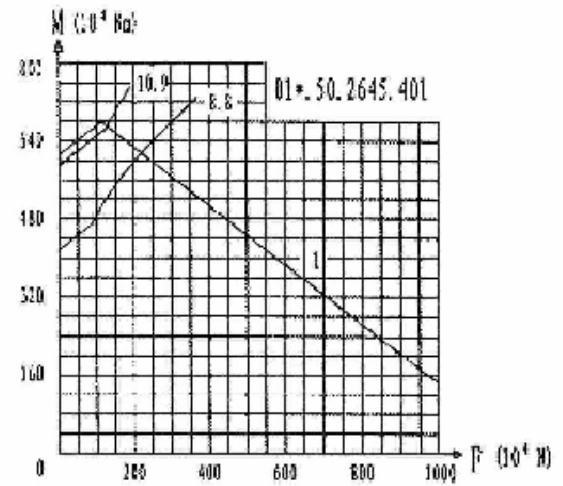
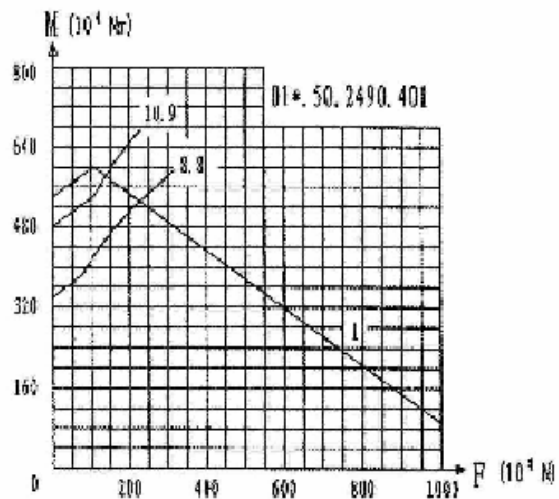
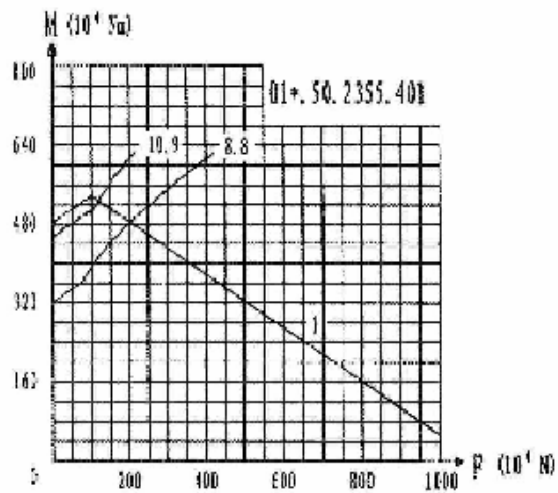








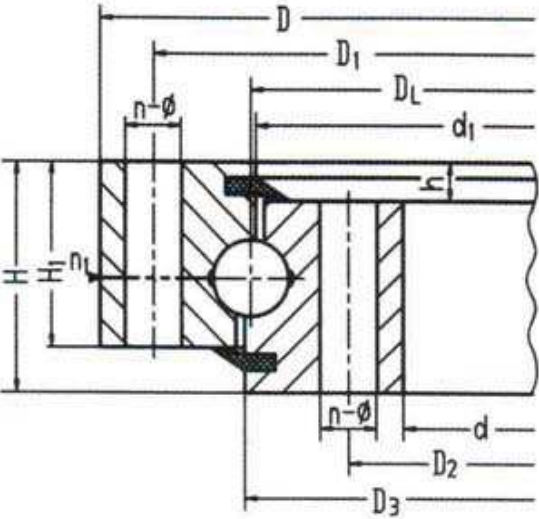




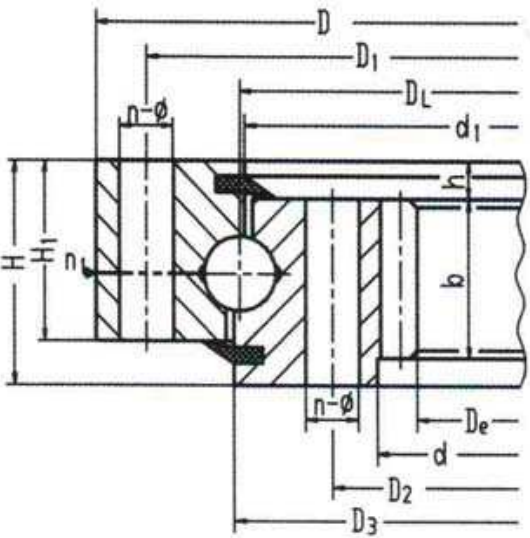
### Single-row four point contact ball slewing ring bearing

The single-row four point contact ball slewing ring is composed of 2 seat-rings. It features compact in design, and light in weight. The balls contact with the circular race at four points, via which the axial force, radial force and resultant moment may be born simultaneously.

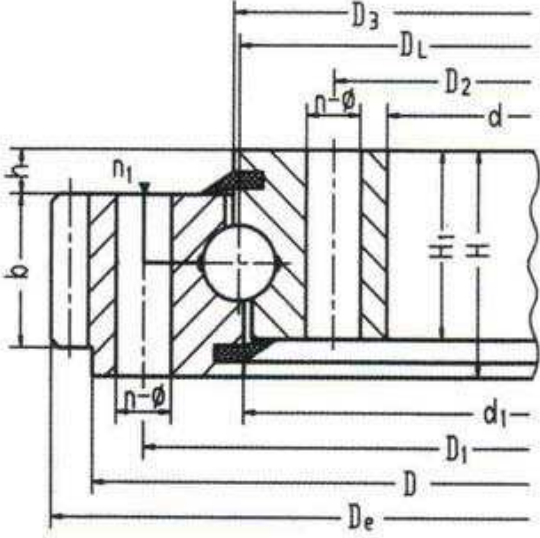
It may be used for slewing conveyers, welding arm and positioner, light, medium duty cranes, excavators and other engineering machines.



HSB



HSN



HSW

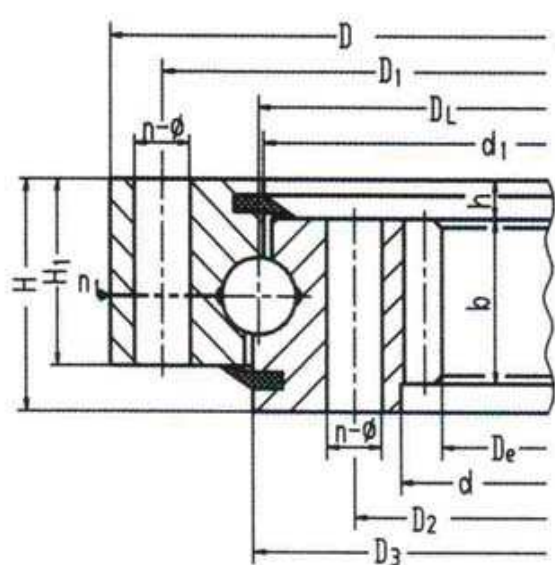
No.	Basic type			Mounting Size							sturctural			Ext		Int Gear			Int Gear			Weigh tkg
											Configuration			size								
	Toothless	Ext Toothless	Int Toothless	D	d	H	D1	D2	n	φ	n1	H1	h	b	m	x	De	Z	x	De	Z	
1	HSB.25.625	HSW.25.625	HSN.25.625	725	525	80	685	565	18	18	3	68	12	60	5	+1.4	751.9	146	+0.35	498.8	101	170
		HSW.25.625A	HSN.25.625A												6	+1.15	755.5	122	+0.35	496.7	84	
2	HSB.25.720	HSW.25.720	HSN.25.720	820	620	80	780	660	18	18	3	68	12	60	6	+1.4	860.3	139	+0.35	586.6	99	190
		HSW.25.720A	HSN.25.720A												8	+1.0	861.1	104	+0.35	582.3	74	
3	HSB.30.820	HSW.30.820	HSN.30.820	940	705	95	893	749	24	20	4	83	12	70	6	+1.4	980.6	159	+0.35	664.5	112	220
		HSW.30.820A	HSN.30.820A												10	+1.0	986.2	95	+0.35	658.0	67	
4	HSB.30.(32)880	HSW.30.(32)880	HSN.30.(32)880	1000	760	95	956	800	24	20	4	83	12	70	8	+1.15	1047.5	127	+0.35	718.2	91	230
		HSW.30.(32)880A	HSN.30.(32)880A												10	+1.0	1046.3	101	+0.35	707.9	72	
5	HSB.30.(32)1020	HSW.30.(32)1020	HSN.30.(32)1020	1170	875	95	1120	930	24	22	4	80	15	70	8	+1.4	1219.3	148	+0.35	830.1	105	310
		HSW.30.(32)1020A	HSN.30.(32)1020A												10	+1.15	1219.2	118	+0.35	827.8	84	
6	HSB.30.(40)1220	HSW.30.(40)1220	HSN.30.(40)1220	1365	1075	120	1310	1130	36	24	6	105	15	90	10	+1.4	1424.9	138	+0.35	1027.8	104	460
		HSW.30.(40)1220A	HSN.30.(40)1220A												12	+1.0	1435.9	116	+0.35	1017.3	86	
7	HSB.35.(40)1250	HSW.35.(40)1250	HSN.35.(40)1250	1400	1090	120	1350	1150	36	26	6	105	15	90	10	-0.35	1443	143	+0.35	1037	105	480
		HSW.35.(40)1250A	HSN.35.(40)1250A												12	+1.0	1449.6	117	+0.35	1036.8	86	
8	HSB.35.(40)1435	HSW.35.(40)1435	HSN.35.(40)1435	1595	1278	120	1535	1335	36	26	6	105	15	90	12	+1.15	1655.5	134	+0.35	1221.2	103	570
		HSW.35.(40)1435A	HSN.35.(40)1435A												14	+1.0	1661.2	115	+0.35	1214.8	88	
9	HSB.35.(50)1540	HSW.35.(50)1540	HSN.35.(50)1540	1720	1360	140	1660	1420	42	26	6	122	18	110	12	+1.4	1780.8	144	+0.35	1293.1	109	860
		HSW.35.(50)1540A	HSN.35.(50)1540A												14	+1.15	1791.1	124	+0.35	1284.8	93	
10	HSB.35.(50)1700	HSW.35.(50)1700	HSN.35.(50)1700	1875	1525	140	1815	1585	42	29	6	122	18	110	14	+1.15	1945.4	135	+0.35	1452.7	105	880
		HSW.35.(50)1700A	HSN.35.(50)1700A												16	+1.15	1950.8	118	+0.35	1452.3	92	
11	HSB.40.(50)1880	HSW.40.(50)1880	HSN.40.(50)1880	2100	1665	160	2030	1740	48	32	6	140	20	115	14	+1.4	2189.8	152	+0.35	1592.6	115	1290
		HSW.40.(50)1880A	HSN.40.(50)1880A												18	+1.15	2194.6	118	+0.35	1579.9	89	
12	HSB.40.(50)2115	HSW.40.(50)2115	HSN.40.(50)2115	2325	1900	160	2245	1980	48	32	6	140	20	115	16	+1.4	2406.5	146	+0.35	1804.1	114	1430
		HSW.40.(50)2115A	HSN.40.(50)2115A												20	+1.15	2418.4	117	+0.35	1795.4	91	

No.	Basic type			Mounting Size							sturctural			Ext		Int Gear			Int Gear			Weigh tkg
											Configuration			size								
	Toothless	Ext Toothless	Int Toothless	D	d	H	D1	D2	n	$\phi$	n1	H1	h	b	m	x	De	Z	x	De	Z	
13	HSB.40.(60)2370	HSW.40.(60)2370	HSN.40.(60)2370	2600	2146	180	2520	2220	48	32	6	158	22	130	18	+1.4	2707.3	146	+0.35	2065.6	116	1950
		HSW.40.(60)2370A	HSN.40.(60)2370A												22	+1.15	2704.4	119	+0.35	2040.9	94	
14	HSB.40.(60)2600	HSW.40.(60)2600	HSN.40.(60)2600	2835	2365	180	2750	2450	54	36	6	158	22	130	18	+1.4	2941.7	159	+0.35	2263.5	127	2180
		HSW.40.(60)2600A	HSN.40.(60)2600A												22	+1.15	2946.9	130	+0.35	2260.8	104	
15	HSB.50.(60)2820	HSW.50.(60)2820	HSN.50.(60)2820	3085	2555	200	3000	2640	54	36	6	178	22	150	20	+1.4	3188.4	155	+0.35	2455	124	2520
		HSW.50.(60)2820A	HSN.50.(60)2820A												25	+1.15	3198.4	124	+0.35	2444.1	99	
16		HSW.40.1250		1415	1084	110	1350	1150	1252	24.28	6	89	21	77	10	+0.86	1476	144				510
17		HSW.40.1390		1551	1206	130	1500	1280	1241	24.26	6	107	23	85	10	+0.75	1604	157				630
18			HSN.50.1830	2002	1665	150	1940	1940	1832	54	6	125	25	100	12	+1.00				1610	135	920

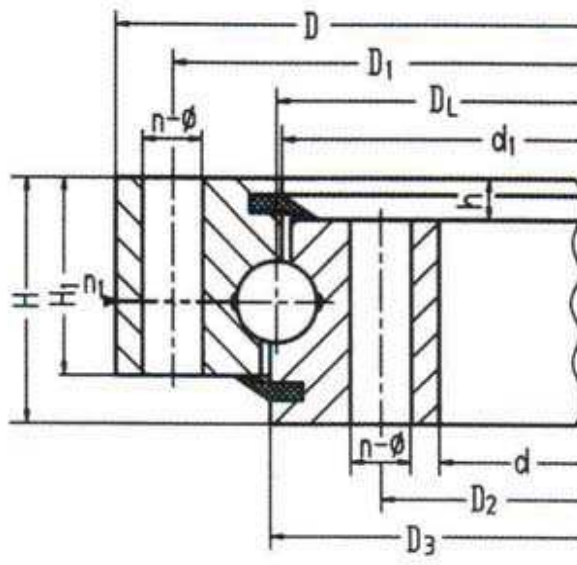
The load graphs please refer to the 01 series. Specially ones please contact with us.

## Single-row four point contact ball slewing ring bearing

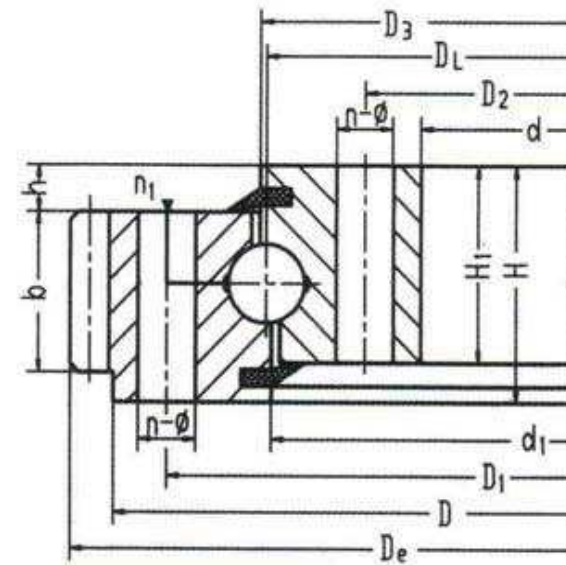
The single-row four point contact ball slewing ring is composed of 2 seat-rings. It features compact in design, and light in weight. The balls contact with the circular race at four points, via which the axial force, radial force and resultant moment may be born simultaneously. It may be used for slewing conveyers, welding arm and positioner, light, medium duty cranes, excavators and other engineering machines.



QN



QU



QW

NO.	Basic Type	Configuration				Mouning Size						Styuctural Size				Gear Data						Weight (kg)																																	
		QU.QW.QN	Ext Toothing		Int Toothing		H	D <sub>1</sub>	D <sub>2</sub>	n	φ	M		n <sub>1</sub>	D3	d1	H <sub>1</sub>	h	b	m	Ext		Int		Ext	Int																													
			D	d	D	d					A	B.C.D									X=-0.5	X=+0.5																																	
			φ	φ	T	D <sub>e</sub>					Z	D <sub>e</sub>	Z																																										
1	500.20 500.20A	590	407	593	410	60	555	445	14	17	M16	24	501	499	50	10	40	5	615	122	385	78	56	55																															
2	560.20 560.20A	654	464	656	468	70	618	502	14			30							561	599	60	50	40	5	4	680	169	440	111	78	76																								
	5											685													136	435	88	79	77																										
3	630.20 630.20A	724	534	726	538	70	688	572	16			30							631	629	60				50	40	5	4	748	186	512	129	86	84																					
	5											755																150	505	102	88	86																							
4	710.20 710.20A	804	614	806	618	70	768	652	18			30							711	709	60							50	40	5	5	835	166	585	118	99	97																		
	6											840																			139	582	98	101	97																				
5	800.20 800.20A	894	704	896	708	70	858	742	20			30							801	799	60										50	40	6	6	930	154	672	113	114	110															
	8											936																						116	664	84	114	111																	
6	800.25 800.25A	904	692	908	694	78	864	736	18			22							M20	36	801													799	68	10	58	6	942	156	654	110	143	142											
	8																			952																			118	648	82	147	142												
7	900.25 900.25A	1004	792	1008	794	78	964	836	20	22	M20		36	901	899	68	10	58		8																			1048	130	744	94	162	163											
	10												1060									105	740	75															168	162															
8	1000.25 1000.25A	1104	892	1108	894	78	1064	936	24				22									M20	36	1001															999	68	10	58	8	1152	143	848	107	182	178						
	10																						1160		115	840	85																	185	179										
9	1000.32 1000.32A	1120	876	1124	880	90	1074	926	24														24		M22	40	1001																	999	80	70	8	1160	144	832	105	227	230		
	10																											1170	116	830																		84	232	227					
10	1120.32 1120.32A	1240	996	1244	1000	90	1194	1046	28																			24	M22	40																		1121	1199	80	70	10	1300	129	940
	12																														1308	108	936																				79	275	262
11	1250.32 1250.32A	1370	1126	1374	1130	90	1324	1176	32																						24	M22	40																				1251	1249	80
	12											1440							119		1068													90	309	290																			
12	1400.32 1400.32A	1520	1276	1524	1280	90	1474	1326	36			24							M22		40													1401	1399	80	70	12																	
	14									1596	113			1204	87	347	336																																						

NO.	Basic Type	Configuration				Mouning Size					Styuctural Size				Gear Data				Weight (kg)																																									
		Ext Toothing		Int Toothing		H	D <sub>1</sub>	D <sub>2</sub>	n	φ	M		n <sub>1</sub>	D3	d1	H <sub>1</sub>	h	b	m	Ext		Int		Ext	Int																																			
		D	d	D	d					A	B.C.D									X=-0.5	X=+0.5																																							
		φ	φ	T	D <sub>e</sub>					Z	D <sub>e</sub>	Z																																																
13	1250.40	1390	1108	1394	1110	102	1336	1164	32	26	M24	45	4	90	12	80	10	1450	144	1050	106	396	388																																					
1250.40A	12																	1452	120	1044	88	392	388																																					
14	1400.40	1540	1258	1544	1260	102	1486	1314	36									30	M27	50	6	112	100	16	1608	133	1188	100	448	444																														
1400.40A	12																								1608	133	1188	100	448	444																														
15	1600.40	1740	1458	1744	1460	102	1686	1514	40																30	M27	50	6	112	100	16	1812	150	1392	117	528	509																							
1600.40A	14																															1812	150	1392	117	528	509																							
16	1800.40	1940	1658	1944	1660	102	1886	1714	44																							30	M27	50	6	112	100	16	1820	129	1386	100	534	511																
1800.40A	14																																						1820	129	1386	100	534	511																
17	1600.50	1762	1434	1766	1438	124	1704	1496	40																														30	M27	50	6	112	100	16	2016	143	1582	114	583	576									
1600.50A	12																																													1824	151	1368	115	714	714									
18	1800.50	1964	1634	1966	1638	124	1904	1696	44																																					30	M27	50	6	112	100	16	2044	145	1568	113	845	794		
1800.50A	14																																																				2044	145	1568	113	845	794		
19	2000.50	2162	1834	2166	1842	124	2104	1896	48	30	M27	50	6	112	100	16	2048																																				127	1552	98	843	818			
2000.50A	16																2048																																				127	1552	98	843	818			
20	2240.50	2402	2074	2406	2078	124	2344	2136	54								30	M27	50	6	112	100	16	2240																													139	1760	111	912	891			
2240.50A	18																							2250																													124	1746	98	927	913			
21	2500.50	2662	2334	2666	2342	124	2604	2396	60															30	M27	50	6	112	100	16	2480																						154	1984	125	1020	1044			
2500.50A	18																														2502																						138	1980	111	1078	1041			
22	2500.60	2696	2304	2696	2308	150	2626	2374	60																						33	M30	56	6	136	14	122	18															2754	152	2250	126	1171	1132		
2500.60A	20																																																				2760	137	2240	113	1175	1148		
23	2800.60	2992	2604	2996	2608	150	2926	2674	66																														66	M30	56	6	136	14	122								18	2790	154	2214	124	1677	1621	
2800.60A	20																																																					2800	139	2200	111	1701	1654	

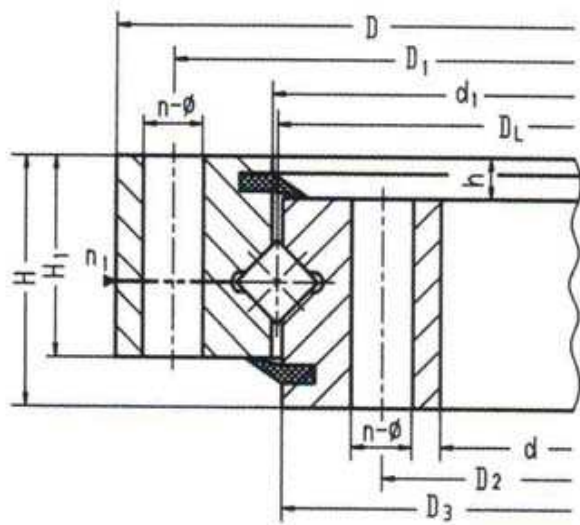
The load graphs please refer to the 01 series. Specially ones please contact with us.

## Cross roller bearing

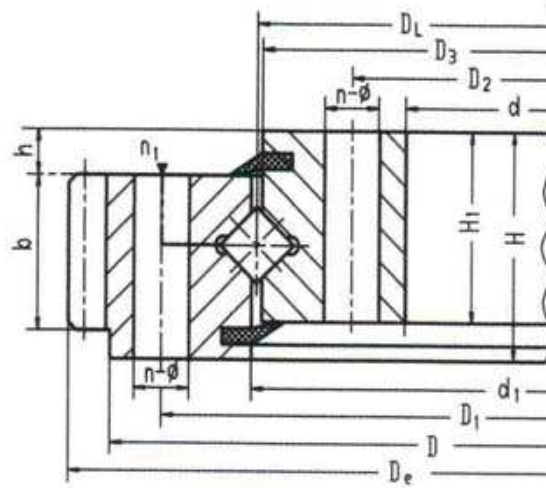
The single-row crossed roller slewing ring is composed of two seat-rings. It features compact in design, light in weight, high precision and small fitting clearance.

As the rollers are 1:1 cross arranged, it is suitable for high precision mounting and capable to bear axial force, resultant moment and considerable large radial force.

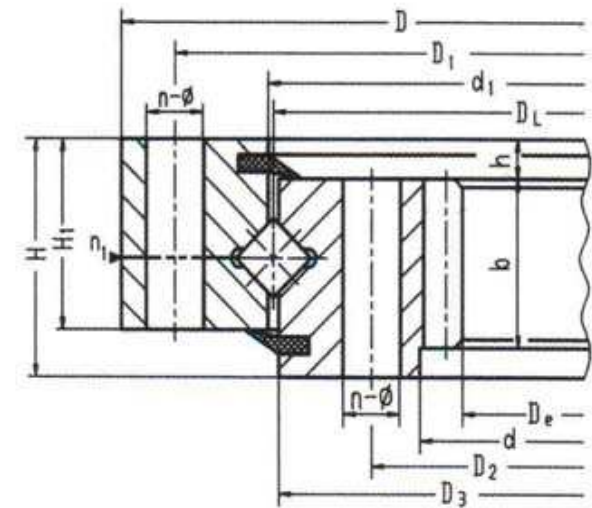
The single-row crossed roller slewing rings are widely used for hoisting, transporting, engineering machines as well as for military products.



110



111,112

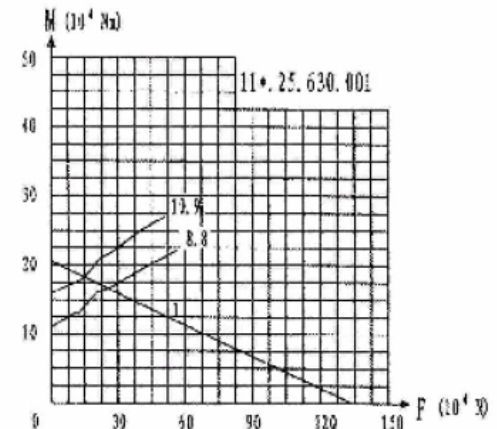
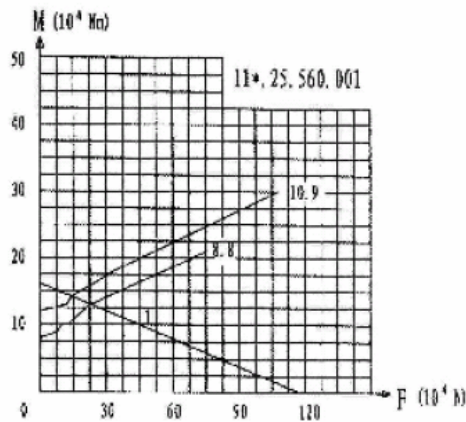
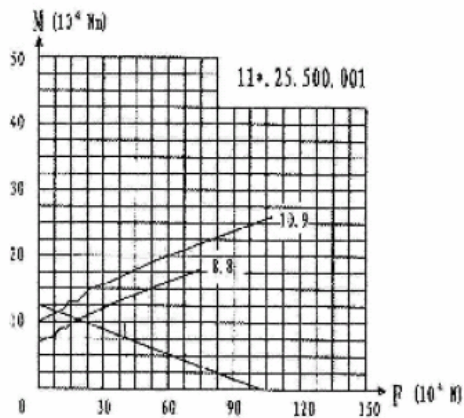


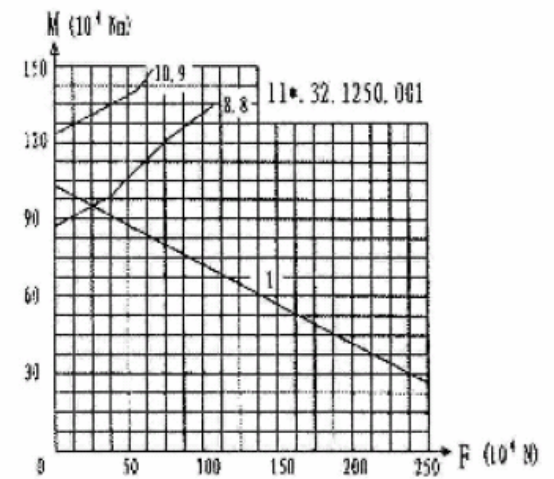
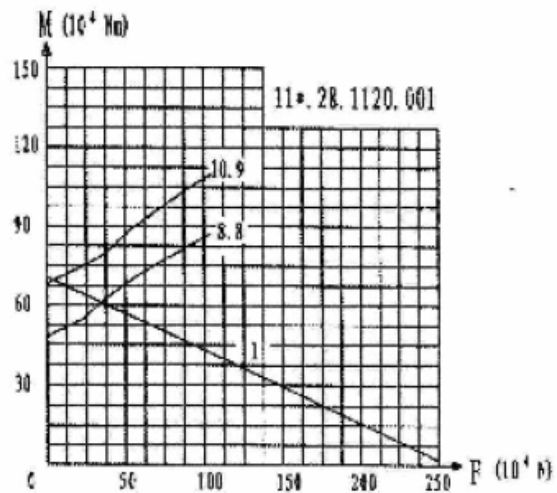
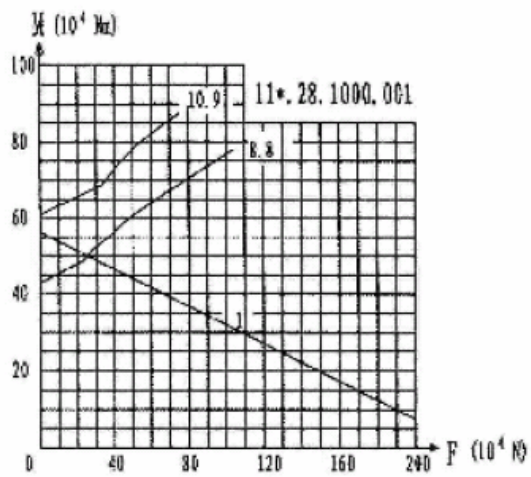
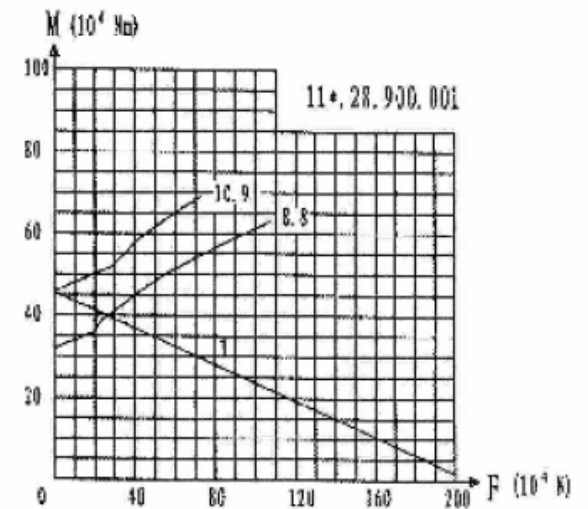
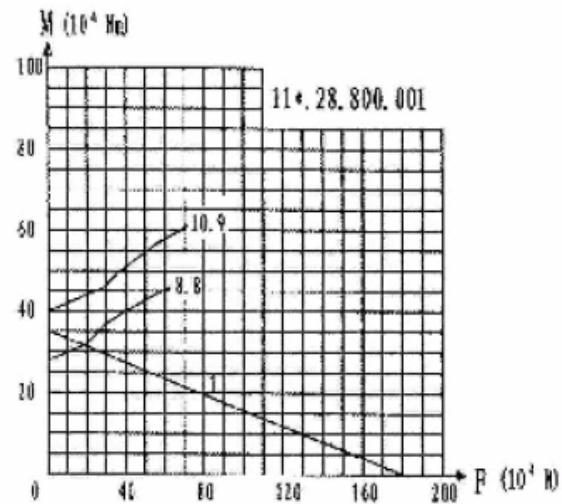
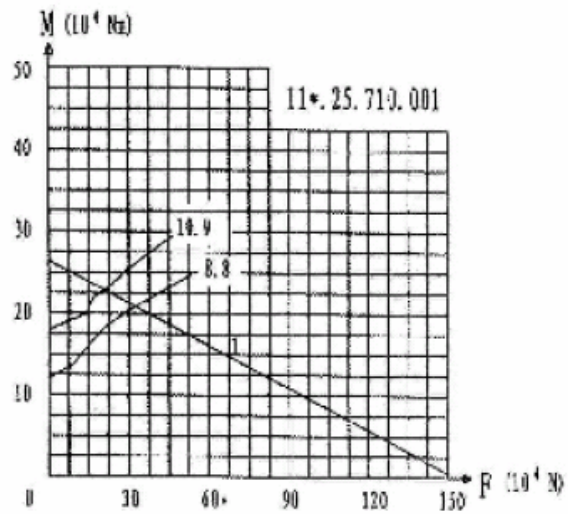
113,114

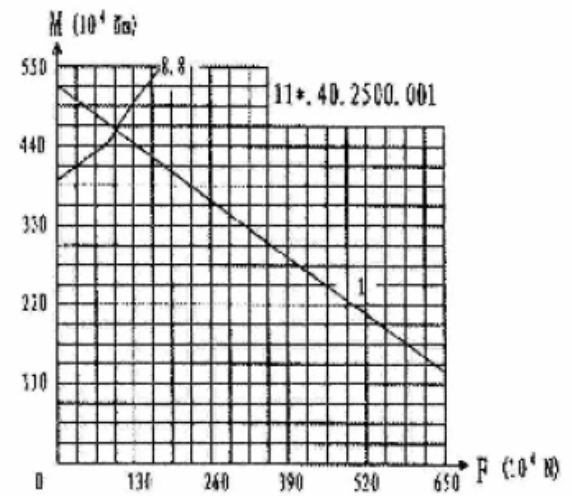
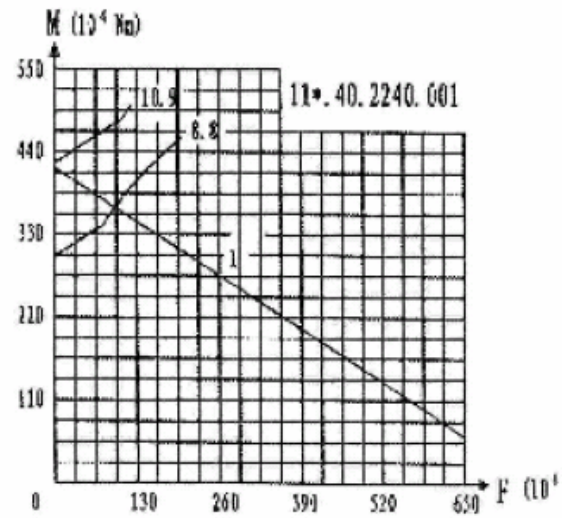
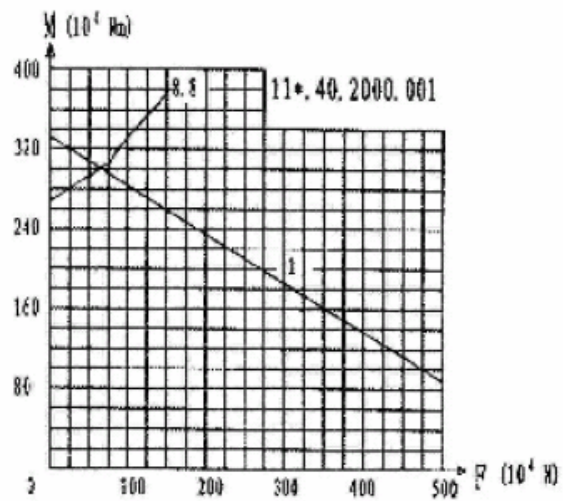
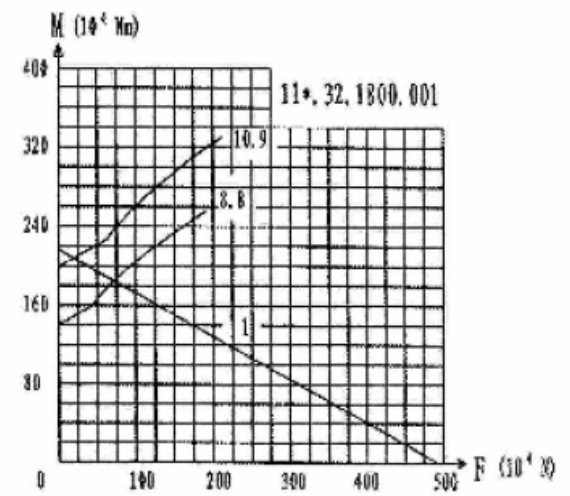
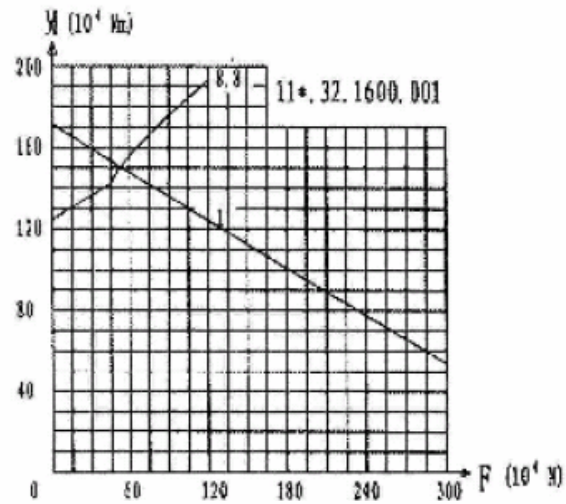
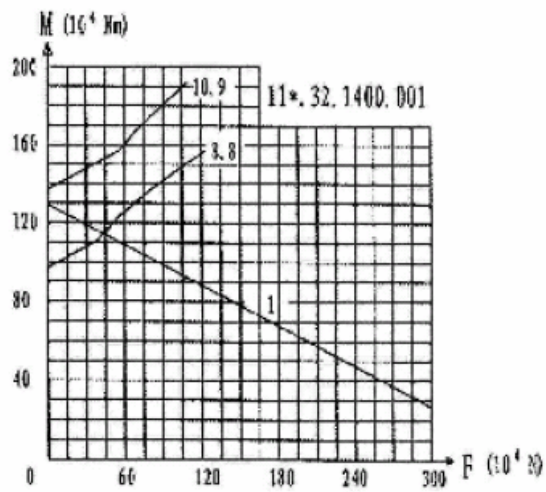


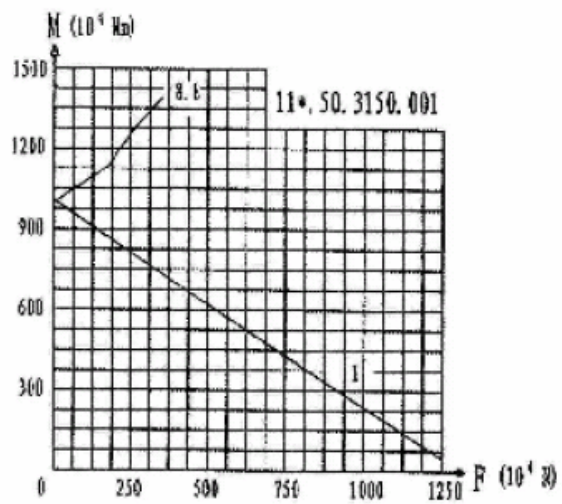
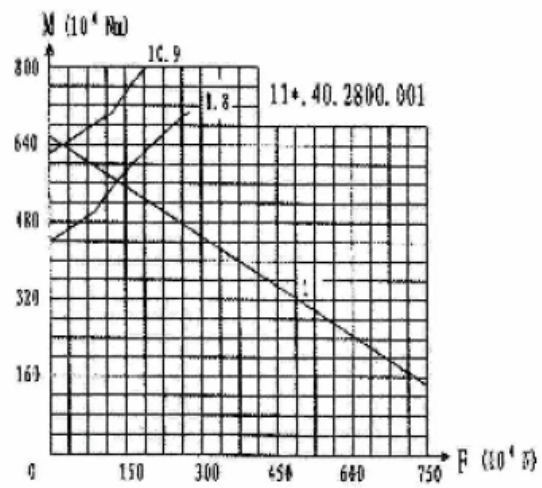
No.	Basic Type			Configuration			Mounting Size				structural size				Gear Date			Ext Gear		Int gear		Tangentia	weight (kg)																									
	Toothless	Ext Toothless	Int Toothless	D	d	H	D <sub>1</sub>	D <sub>2</sub>	n	Φ	n1	D <sub>3</sub>	d <sub>1</sub>	H <sub>1</sub>	h	b	x	m	D <sub>e</sub>	Z	D <sub>e</sub>	Z		Noma lizh ing	Temp erin g																							
																										D <sub>L</sub>	D <sub>L</sub>	D <sub>L</sub>	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
																										mm	mm	mm																				10 <sup>4</sup> N
1	110.25.500	111.25.500	113.25.500	602	398	75	566	434	20	18	4	498	502	65	10	60	+0.5	5	629	123	367	74	3.7	5.2																								
		112.25.500	114.25.500															6	628.8	102	368.4	62	4.5	6.2	80																							
2	110.25.560	111.25.560	113.25.560	662	458	75	626	494	20	18	4	558	562	65	10	60	+0.5	5	689	135	427	86	3.7	5.2																								
		112.25.560	114.25.560															6	688.8	112	428.4	72	4.5	6.2	90																							
3	110.25.630	111.25.630	113.25.630	732	528	75	696	564	24	18	4	628	632	65	10	60	+0.5	6	772.8	126	494.4	83	4.5	6.2																								
		112.25.630	114.25.630															8	774.4	94	491.2	62	6.0	8.3	100																							
4	110.25.710	111.25.710	113.25.710	812	608	75	776	644	24	18	4	708	712	65	10	60	+0.5	6	850.8	139	572.4	96	4.5	6.2																								
		112.25.710	114.25.710															8	854.4	104	571.2	72	6.0	8.3	110																							
5	110.28.800	111.28.800	113.28.800	922	678	82	878	722	30	22	6	798	802	72	10	65	+0.5	8	966.4	118	635.2	80	6.5	9.1																								
		112.28.800	114.28.800															10	968	94	634	64	8.1	11.4	170																							
6	110.28.900	111.28.900	113.28.900	1022	778	82	978	822	30	22	6	898	902	72	10	65	+0.5	8	1062.4	130	739.2	93	6.5	9.1																								
		112.28.900	114.28.900															10	1068	104	734	74	8.1	11.4	190																							
7	110.28.1000	111.28.1000	113.28.1000	1122	878	82	1078	922	36	22	6	998	1002	72	10	65	+0.5	10	1118	116	824	83	8.1	11.4																								
		112.28.1000	114.28.1000															12	1185.6	96	820.8	69	9.7	13.6	210																							
8	110.28.1120	111.28.1120	113.28.1120	1242	988	82	1198	1042	36	22	6	1118	1122	72	10	65	+0.5	10	1298	127	944	95	8.1	11.4																								
		112.28.1120	114.28.1120															12	1305.6	106	940.8	79	9.7	13.6	230																							
9	110.32.1250	111.32.1250	113.32.1250	1390	1110	91	1337	1163	40	26	5	1248	1252	81	10	75	+0.5	12	1449.6	118	1048.8	88	11.3	15.7																								
		112.32.1250	114.32.1250															14	1453.2	101	1041.6	75	13.2	18.2	350																							
10	110.32.1400	111.32.1400	113.32.1400	1540	1260	91	1487	1313	40	26	5	1398	1402	81	10	75	+0.5	12	1605.6	131	1192.8	100	11.3	15.7																								
		112.32.1400	114.32.1400															14	1607.2	112	1195.6	86	13.2	18.2	400																							
11	110.32.1600	111.32.1600	113.32.1600	1740	1460	91	1678	1513	45	26	5	1598	1602	81	10	75	+0.5	14	1817.2	127	1391.6	100	13.2	18.2																								
		112.32.1600	114.32.1600															16	1820.8	111	1382.4	87	15.1	22.4	440																							

No	Basic Type			Configuration			Mounting Size				Structural size				Gear Data			Ext Gear		Int gear		Tangential load	Weight		
	Toothless	Ext Toothless	Int Toothless	D	d	H	D <sub>1</sub>	D <sub>2</sub>	n	Φ	n1	D <sub>3</sub>	d <sub>1</sub>	H <sub>1</sub>	h	b	x	m	D <sub>e</sub>	Z	D <sub>e</sub>	Z	Nominalizing	Temp ering	(kg)
	D <sub>L</sub>	D <sub>L</sub>	D <sub>L</sub>	mm	mm	mm	mm	mm		mm		mm	mm	mm		mm			mm		mm				
	mm	mm	mm																				10 <sup>4</sup> N	10 <sup>4</sup> N	
12	110.32.1800	111.32.1800	113.32.1800	1940	1660	91	188	1713	45	26	5	1798	1802	81	10	75	+0.5	14	2013.2	141	1573.6	113	13.2	18.2	500
		112.32.1800	114.32.1800				17	2012.8										123	1574.4	99	15.1	22.4			
13	110.40.2000	111.40.2000	113.40.2000	2178	1825	112	211	1891	48	33	8	1997	2003	100	12	90	+0.5	16	2268.8	139	1734.4	109	18.1	25.0	900
		112.40.2000	114.40.2000				18	2264.4										123	1735.2	97	20.3	28.1			
14	110.40.2240	111.40.2240	113.40.2240	2418	2065	112	235	2131	48	33	8	2237	2243	100	12	90	+0.5	16	2492.8	153	1990.4	125	18.1	25.0	1000
		112.40.2240	114.40.2240				18	2498.4										136	1987.2	111	20.3	28.1			
15	110.40.2500	111.40.2500	113.40.2500	2678	2325	112	261	2391	56	33	8	2497	2503	100	12	90	+0.5	18	2768.4	151	2239.2	125	20.3	28.1	1100
		112.40.2500	114.40.2500				20	2776										136	2228	112	22.6	31.3			
16	110.40.2800	111.40.2800	113.40.2800	2978	2625	112	291	2691	56	33	8	2797	2803	100	12	90	+0.5	18	3074.4	168	2527.2	141	20.3	28.1	1250
		112.40.2800	114.40.2800				20	3076										151	2528	127	22.6	31.3			







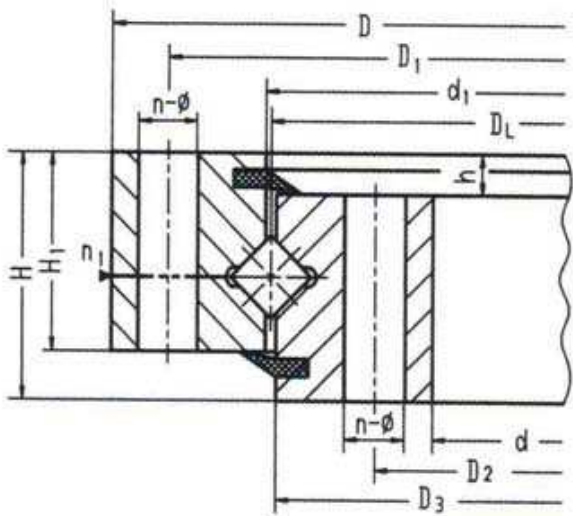


## Cross roller bearing

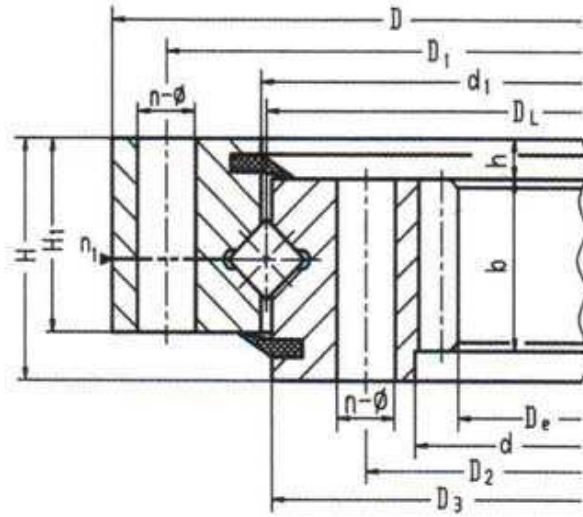
The single-row crossed roller slewing ring is composed of two seat-rings. It features compact in design, light in weight, high precision and small fitting clearance.

As the rollers are 1:1 cross arranged, it is suitable for high precision mounting and capable to bear axial force, resultant moment and considerable large radial force.

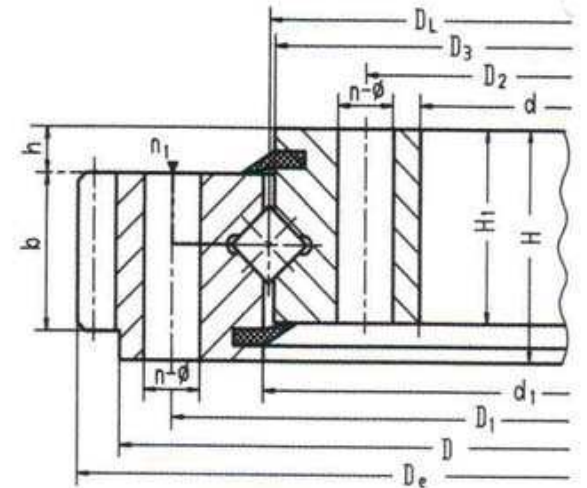
The single-row crossed roller slewing rings are widely used for hoisting, transporting, engineering machines as well as for military products.



HJB



HJN



HJW

No.	Basic type			Configuration			Mounting Size					sturctural size				Gear Date			Ext Gear		Int Gear		Tangential Tooth load		weight (kg)
	Toothless DL mm	Ext Toothless D <sub>L</sub> mm	Int Toothless D <sub>L</sub> mm	D mm	d mm	H mm	D <sub>1</sub> mm	D <sub>2</sub> mm	n	Φ mm	n1	d <sub>1</sub> mm	D <sub>3</sub> mm	H <sub>1</sub> mm	h	b mm	x mm	m mm	D <sub>e</sub> mm	Z	D <sub>e</sub> mm	Z	No mali zing 10 <sup>4</sup> N	Tempe ring 10 <sup>4</sup> N	
1	HJB.20.625	HJW.20.625	HJN.20.625	725	525	80	685	565	18	18	3	627	623	68	12	60	+1.4	5	751.9	146	498.8	101		5.2	100
		HJW.20.625A	HJN.20.625A														+1.15	6	755.5	122	496.7	84		6.2	
2	HJB.20.720	HJW.20.720	HJN.20.720	820	620	80	780	660	18	18	3	722	718	68	12	60	+1.4	6	860.3	139	586.6	99		6.2	120
		HJW.20.720A	HJN.20.720A														+1.0	8	861.1	104	582.3	74		8.3	
3	HJB.30.820	HJW.30.820	HJN.30.820	940	705	95	893	749	24	20	4	822	818	83	12	70	+1.4	6	980.6	159	664.5	112		7.2	210
		HJW.30.820A	HJN.30.820A														+1.0	10	986.2	95	658.0	67		12.2	
4	HJB.30.880	HJW.30.880	HJN.30.880	1000	760	95	956	800	24	20	4	882	878	83	12	70	+1.15	8	1047.5	127	718.2	91		9.7	230
		HJW.30.880A	HJN.30.880A														+1.0	10	1046.3	101	707.9	72		12.2	
5	HJB.30.1020	HJW.30.1020	HJN.30.1020	1170	875	95	1120	930	24	22	4	1022	1018	80	15	70	+1.4	8	1219.3	148	830.1	105		9.7	300
		HJW.30.1020A	HJN.30.1020A														+1.15	10	1219.2	118	827.8	84		12.2	
6	HJB.36.1220	HJW.36.1220	HJN.36.1220	1365	1075	120	1310	1130	36	24	6	1222	1218	105	15	90	+1.4	10	1424.9	138	1027.8	104		15.7	450
		HJW.36.1220A	HJN.36.1220A														+1.0	12	1435.9	116	1017.3	86		18.8	
7	HJB.36.1250	HJW.36.1250	HJN.36.1250	1400	1090	120	1350	1150	36	26	6	1252	1248	105	15	90	-0.35	10	1443	143	1037	105		15.7	520
		HJW.36.1250A	HJN.36.1250A														+1.0	12	1449.6	117	1036.8	86		18.8	
8	HJB.36.1435	HJW.36.1435	HJN.36.1435	1595	1278	120	1535	1335	36	26	6	1437	1433	105	15	90	+1.15	12	1655.5	134	1221.2	103		18.8	610
		HJW.36.1435A	HJN.36.1435A														+1.0	14	1661.2	115	1214.8	83		21.9	
9	HJB.45.1540	HJW.45.1540	HJN.45.1540	1720	1360	140	1660	1420	42	26	6	1543	1537	122	18	110	+1.4	12	1780.8	144	1293.1	109		23.0	732
		HJW.45.1540A	HJN.45.1540A														+1.15	14	1791.1	124	1284.8	93		26.8	
10	HJB.45.1700	HJW.45.1700	HJN.45.1700	1875	1525	140	1815	1585	42	29	6	1703	1679	122	18	110	+1.15	14	1945.4	135	1452.7	105		26.8	844
		HJW.45.1700A	HJN.45.1700A														+1.15	16	1950.8	118	1452.3	92		30.5	

The load graphs please refer to the 11 series.Specially ones please contact with us.

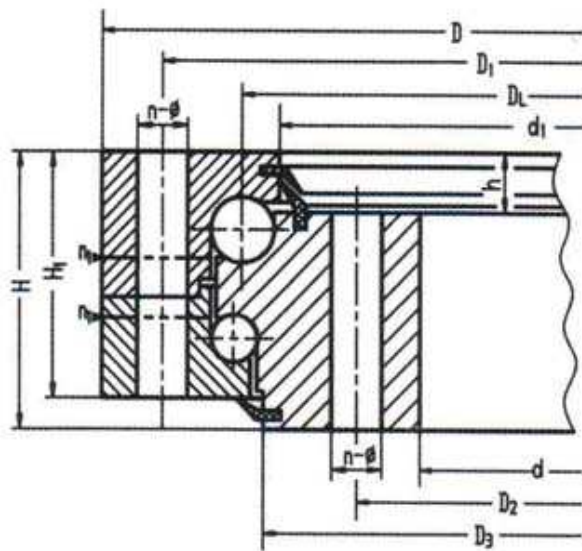
## Double-row ball slewing ring type

The double-row Ball slewing bearing has three seat-rings. The steel balls and the spacers may be directly arranged into the upper and lower races. Two rows of steel balls with different diameters are fitted according to the force form.

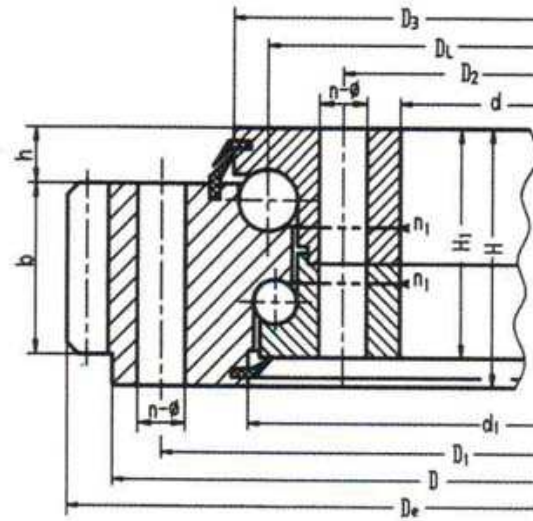
Such open mode fitting features extraordinary convenience. The load angles of both upper and lower races are  $90^\circ$ , which enable the bearing to bear large axial force and the tipping moment.

When the radial force is larger than  $1/10$  of the axial force the races should be newly designed.

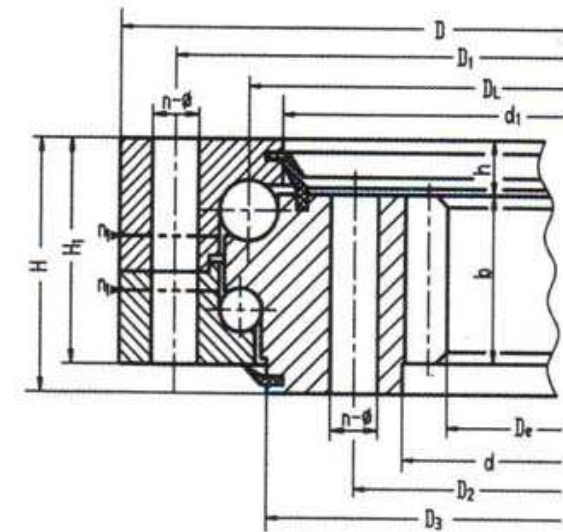
As the axle and the dimension of the double-row ball slewing bearing are rather large, the bearing construction is sturdy, hence it is especially suitable for tower cranes which require working radius over medium range, mobile cranes and loading and unloading



020



021, 022

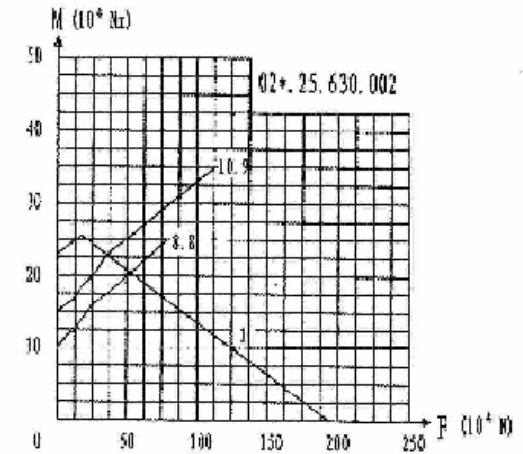
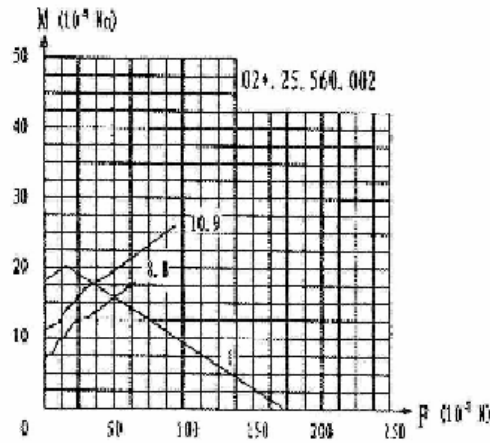
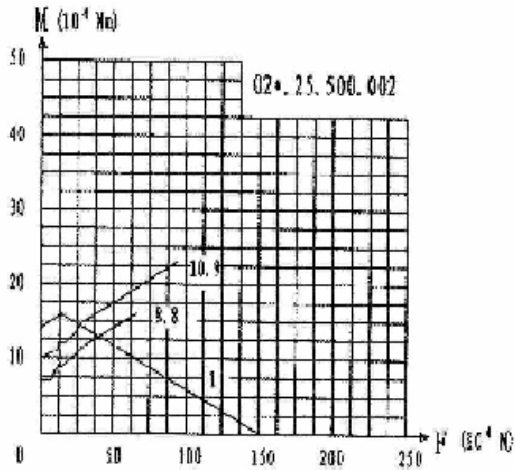


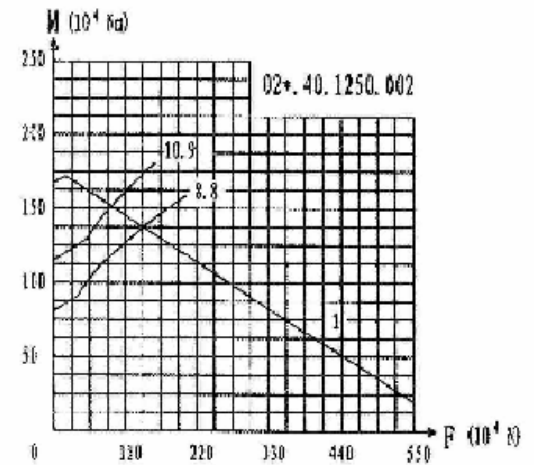
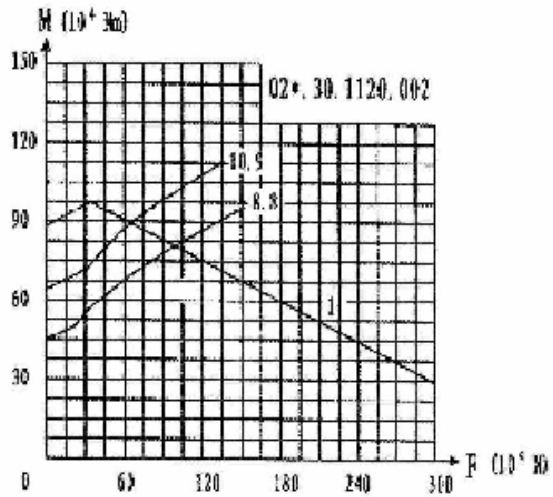
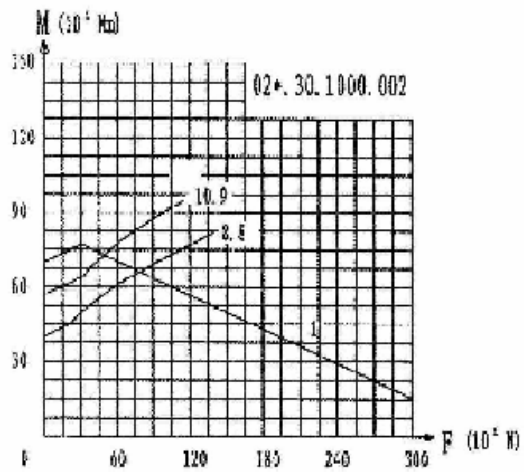
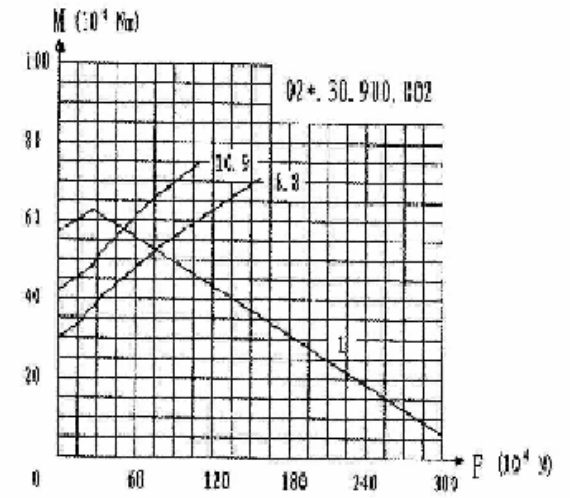
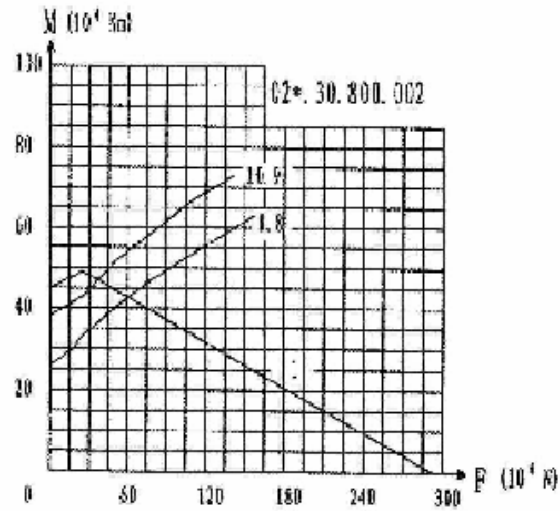
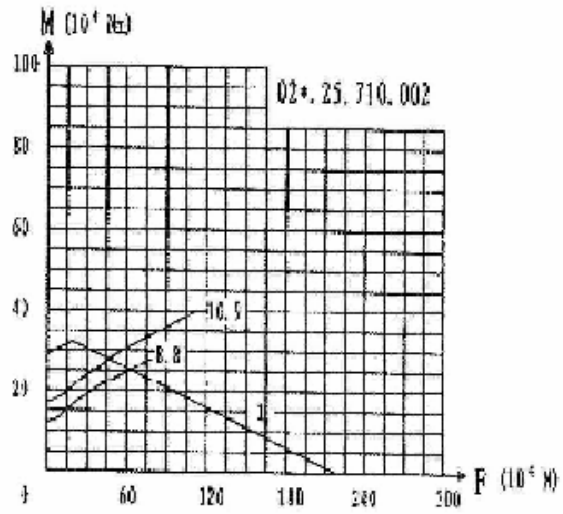
023, 024

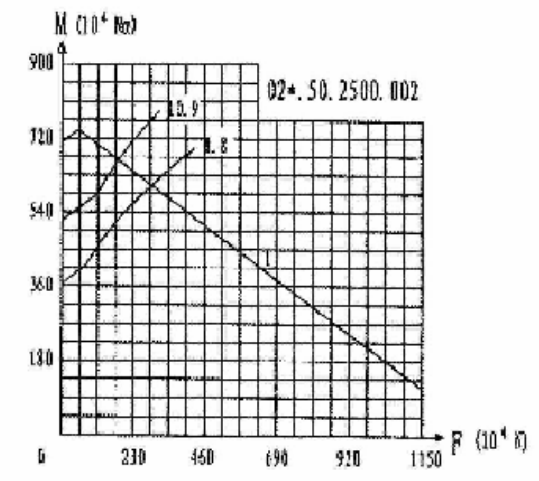
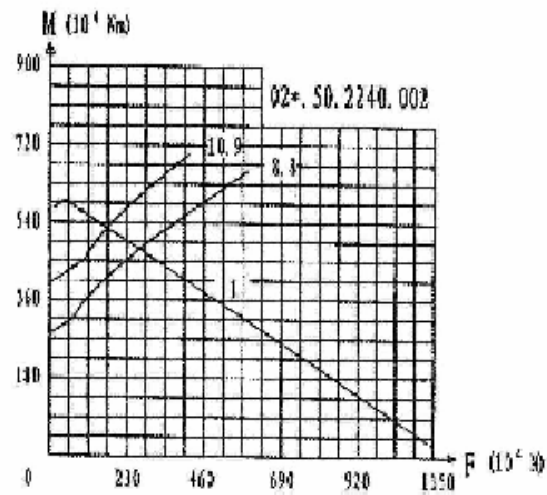
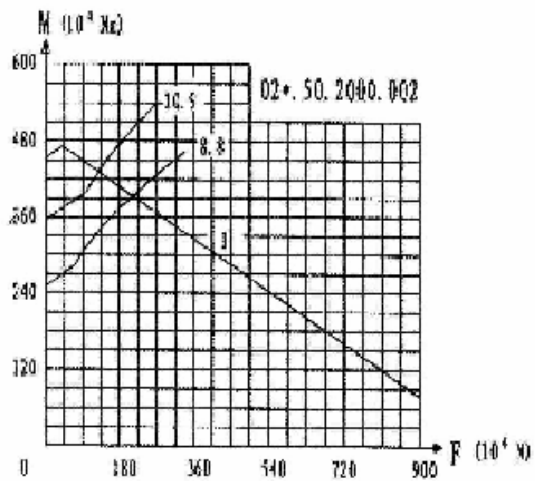
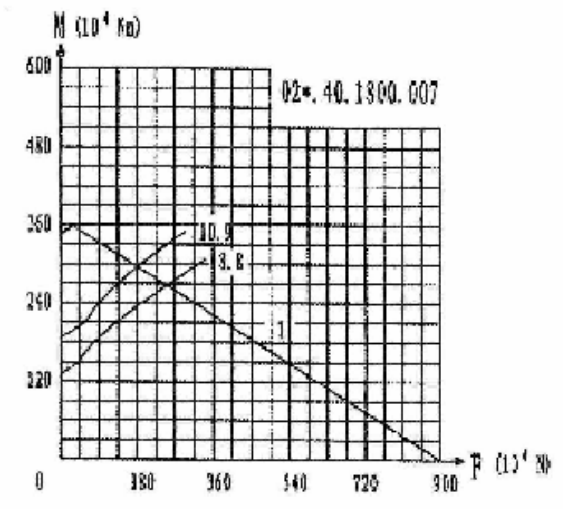
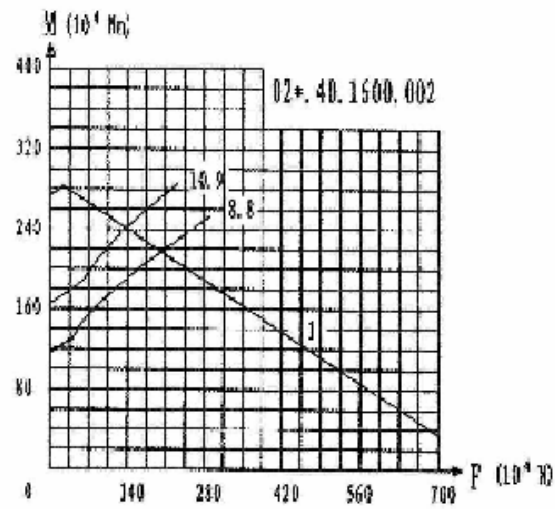
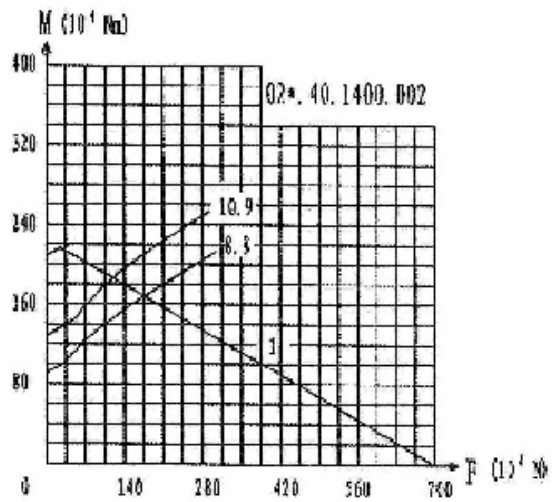


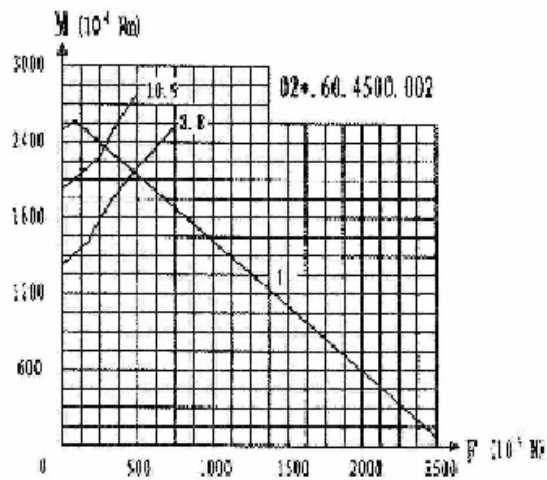
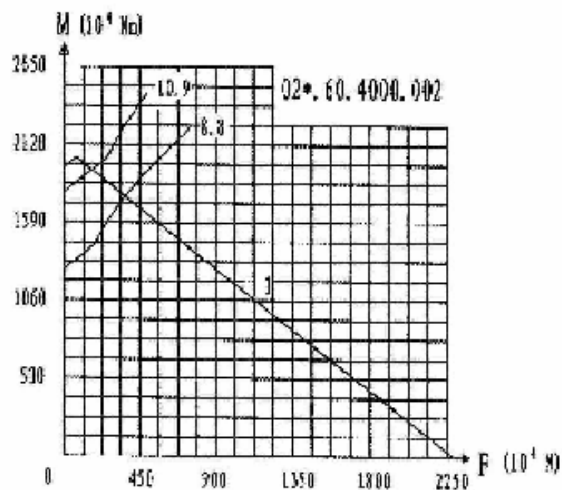
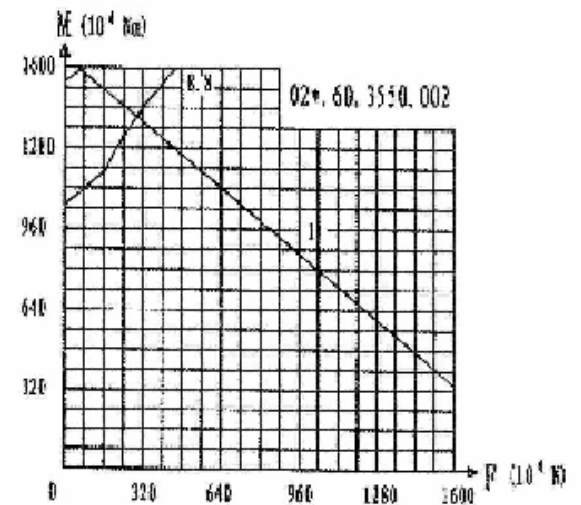
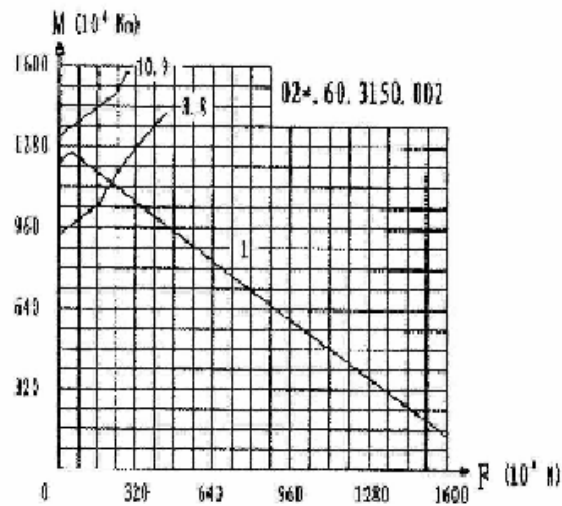
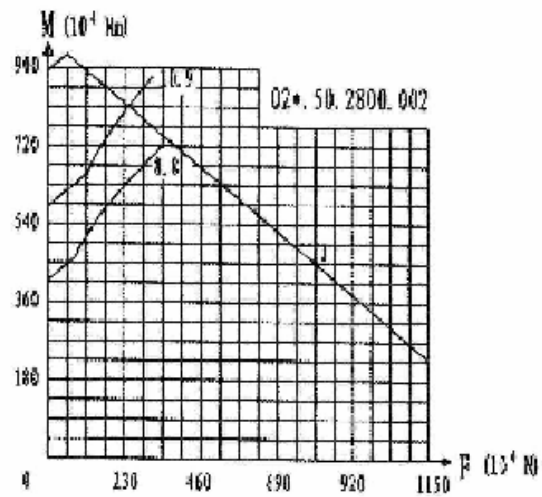
No.	Basic Type			Configuration			Mounting size					sturctural				Gear		Ext Gear		Int Gear		weigh t kg
	Toothless	Ext Toothless	INt Toothless	D	d	H	D <sub>1</sub>	D <sub>2</sub>	d <sub>n1</sub>	d <sub>m1</sub>	L	n	n <sub>1</sub>	H <sub>1</sub>	h	date		d <sub>a</sub>	Z	d <sub>a</sub>	Z	
							mm	mm	mm	mm	mm					mm	mm					
				size																		
1	020.25.500	021.25.500	023.25.500	616	384	106	580	420	18	M16		20	4	96	26	60	5	644	126	357	72	100
		022.25.500	024.25.500				6	646.8									105	350.4	59			
2	020.25.560	021.25.560	023.25.560	676	444	106	640	480	18	M16		20	4	96	26	60	5	704	138	417	84	115
		022.25.560	024.25.560				6	706.8									115	410.4	69			
3	020.25.630	021.25.630	023.25.630	746	514	106	710	550	18	M16		24	4	96	26	60	6	790.8	129	482.4	81	130
		022.25.630	024.25.630				8	790.4									96	475.2	60			
4	020.25.710	021.25.710	023.25.710	826	594	106	790	630	18	M16		24	4	96	26	60	6	862.8	141	560.4	94	140
		022.25.710	024.25.710				8	862.4									105	555.2	70			
5	020.30.800	021.30.800	023.30.800	942	658	124	898	702	22	M20		30	6	114	29	80	8	982.4	120	619.2	78	200
		022.30.800	024.30.800				10	988									96	614	62			
6	020.30.900	021.30.900	023.30.900	1042	758	124	998	802	22	M20		30	6	114	29	80	8	1086.4	133	715.2	90	250
		022.30.900	024.30.900				10	1088									106	714	72			
7	020.30.1000	021.30.1000	023.30.1000	1142	858	124	1098	902	22	M20		36	6	114	29	80	10	1198	117	814	82	300
		022.30.1000	024.30.1000				12	1197.6									97	796.8	67			
8	020.30.1120	021.30.1120	023.30.1120	1262	978	124	1218	1022	22	M20		36	6	114	29	80	10	1318	129	924	93	340
		022.30.1120	024.30.1120				12	1317.6									107	916.8	77			
9	020.40.1250	021.40.1250	023.40.1250	1426	1074	160	1374	1126	26	M24		40	5	150	39	90	12	1497.6	122	1012.8	85	580
		022.40.1250	024.40.1250				14	1495.2									104	1013.6	73			
10	020.40.1400	021.40.1400	023.40.1400	1576	1224	160	1524	1272	26	M24		40	5	150	39	90	12	1641.6	134	1156.8	97	650
		022.40.1400	024.40.1400				14	1649.2									115	1153.6	83			
11	020.40.1600	021.40.1600	023.40.1600	1776	1424	160	1724	1476	26	M24		45	5	150	39	90	14	1845.2	129	1349.6	97	750
		022.40.1600	024.40.1600				16	1852.8									113	1350.4	85			
12	020.40.1800	021.40.1800	023.40.1800	1976	1624	160	1924	1676	26	M24		45	5	150	39	90	14	2055.2	144	1545.6	111	820
		022.40.1800	024.40.1800				16	2060.8									126	1542.4	97			

No.	Basic Type			Configuration			Mounting size					sturctural				weigh t						
	Toothless			size								Gear		Ext Gear		Int Gear		kg				
	date																					
	Toothless	Ext Toothless	INt Toothless	D	d	H	D <sub>1</sub>	D <sub>2</sub>	d <sub>n1</sub>	d <sub>m1</sub>	L	n	n <sub>1</sub>	H <sub>1</sub>	h	b	m	d <sub>a</sub>	Z	d <sub>a</sub>	Z	
	D <sub>L</sub>	D <sub>L</sub>	D <sub>L</sub>				mm	mm	mm	mm	mm					mm	mm	mm		mm		
mm	mm	mm						mm	mm													
13	020.50.2000	021.50.2000	023.50.2000	2215	1785	190	2149	1851	33	M30		48	8	178	47	120	16	2300.8	141	1702.4	107	1150
		022.50.2000	024.50.2000				18	2300.4									125	1699.2	95			
14	020.50.2240	021.50.2240	023.50.2240	2455	2025	190	2389	2091	33	M30		56	8	178	47	120	16	2540.8	156	1942.4	122	1500
		022.50.2240	024.50.2240				18	2552.4									139	1933.2	108			
15	020.50.2500	021.50.2500	023.50.2500	2715	2285	190	2649	2351	33	M30		56	8	178	47	120	18	2804.4	153	2203.2	123	1700
		022.50.2500	024.50.2500				20	2816									138	2188	110			
16	020.50.2800	021.50.2800	023.50.2800	3015	2585	190	2949	2651	33	M30		56	8	178	47	120	18	3110.4	170	2491.2	139	1900
		022.50.2800	024.50.2800				20	3116									153	2488	125			





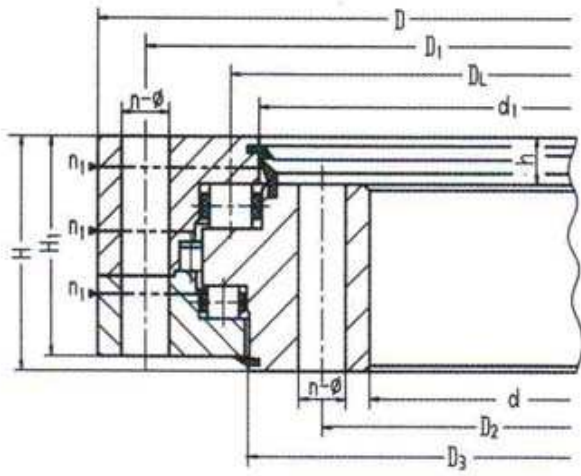




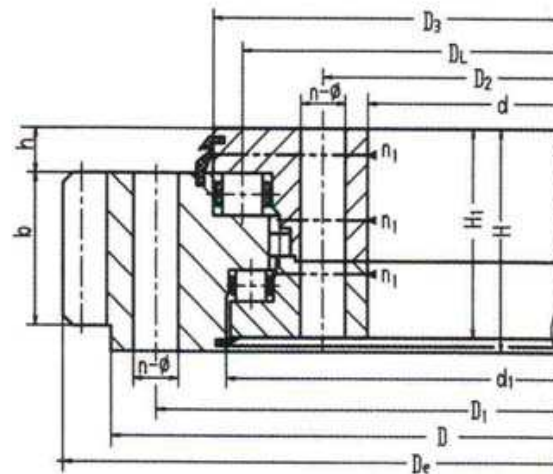
## Three-row roller slewing ring type

Three-row roller slewing bearing has three seat-rings, which separate the upper, lower and radial races, via which the load of each row of the rollers may be specified. It may bear different loads simultaneously and its load capacity is the largest one among the four models.

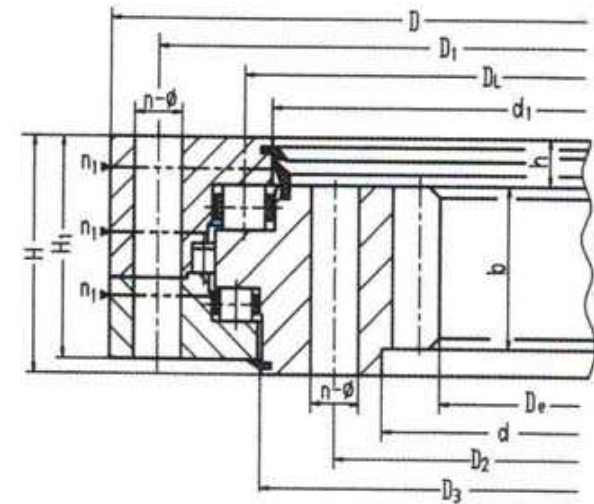
Thanks to the large size of its axle and radius, it is sturdy and especially suitable for heavy-duty machines which require large working radius, such as bucket-wheel excavators, wheeled cranes, ship cranes, ladle turret, heavy-duty mobile cranes etc



130



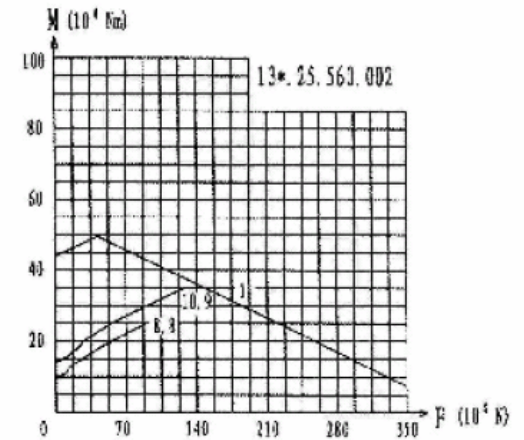
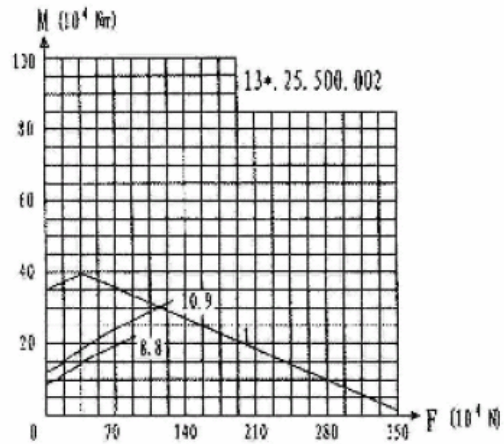
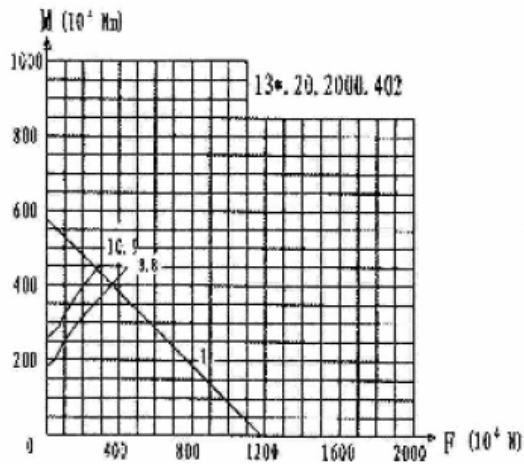
131, 132



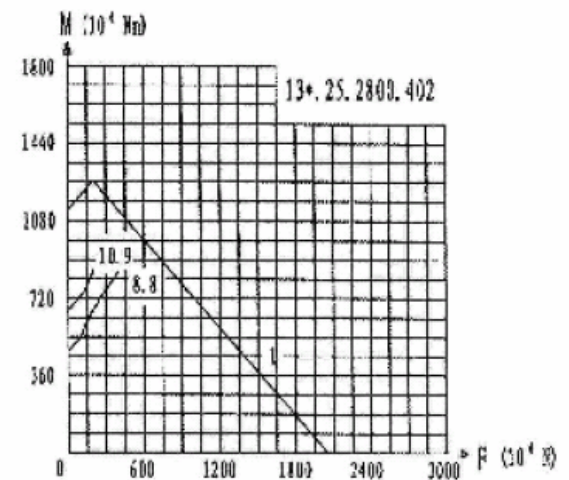
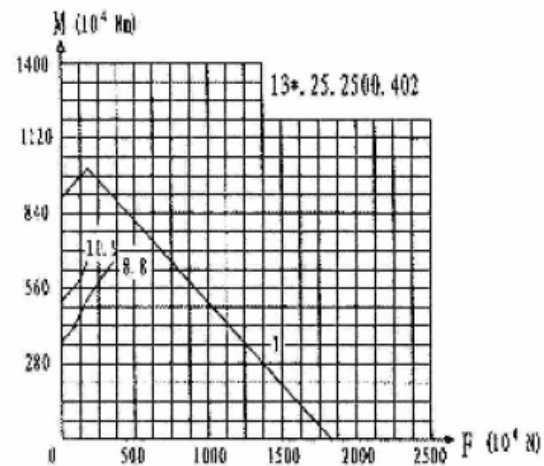
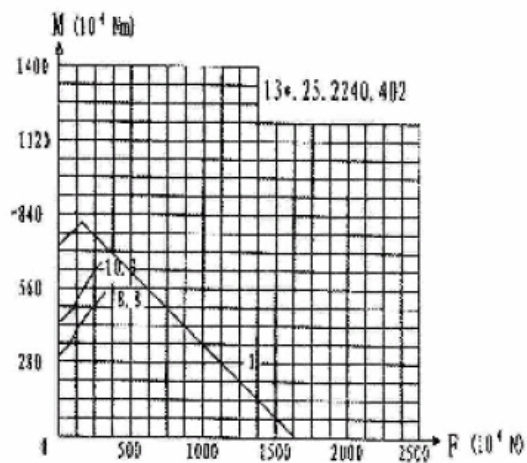
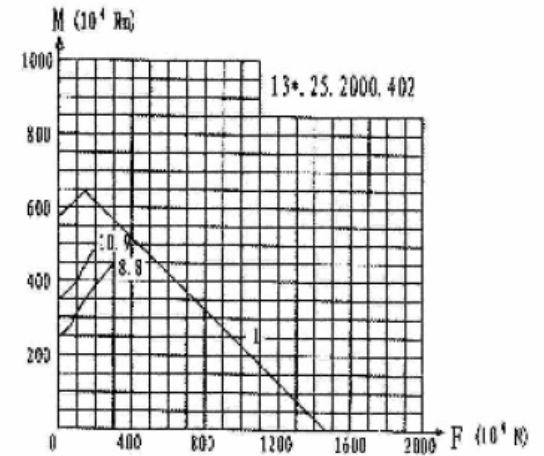
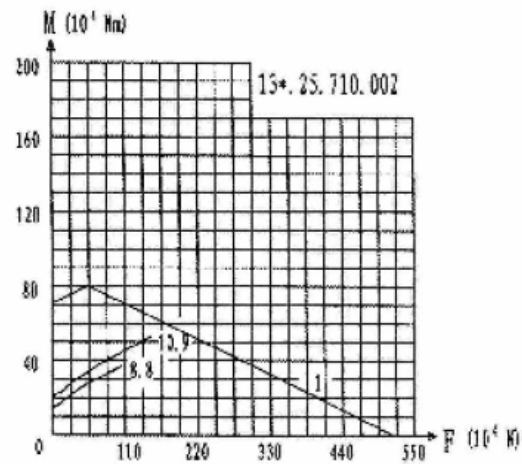
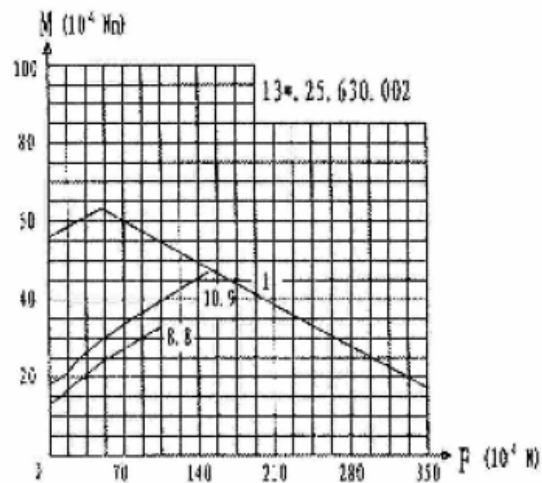
133, 134

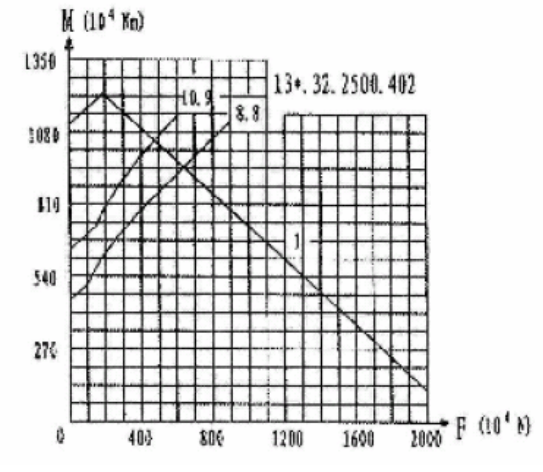
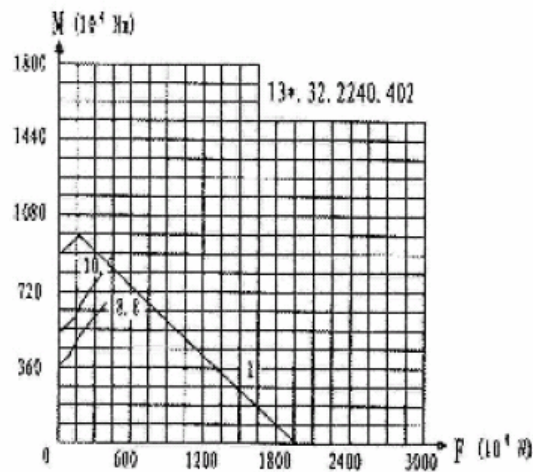
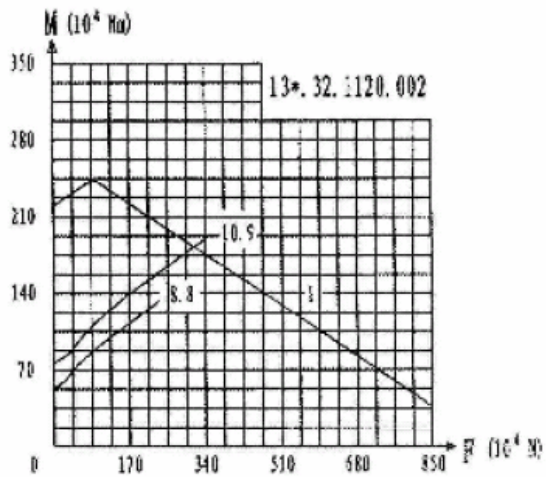
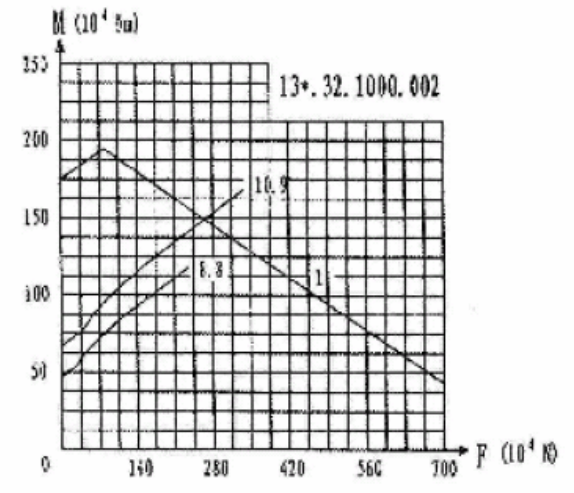
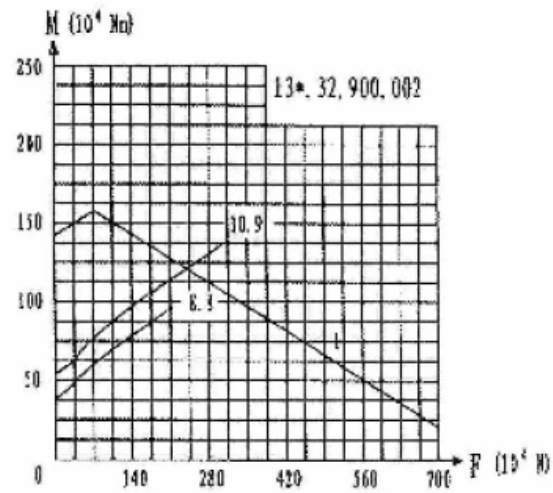
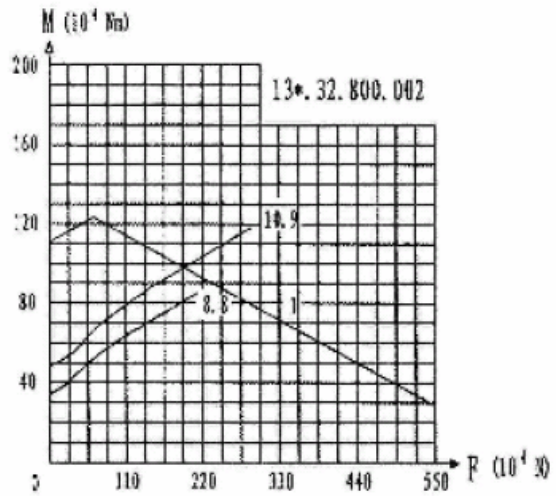
No	Basic Type			Configuration			Mounting Size						sturctural size			Gear Date			Ext Gear		Int Gear		Wei ght  kg
	Toothless	Ext Toothless	Int Toothless	D	d	H	D1	D2	n	$\phi$	M		n1	H1	h	b	x	m	De	Z	De	Z	
										0	1,2,3												
										$\phi$	$\phi$	T											
1	130.25.500	131.25.500	133.25.500	634	366	148	598	402	24	18	M16	32	4	138	32	80	+0.5	5	664	130	337	68	224
		132.25.500	134.25.500															6	664.8	108	338.4	57	
2	130.25.560	131.25.560	133.25.560	694	426	148	658	462	24	18	M16	32	4	138	32	80	+0.5	5	724	142	397	80	240
		132.25.560	134.25.560															6	724.8	118	398.4	67	
3	130.25.630	131.25.630	133.25.630	764	496	148	728	532	28	18	M16	32	4	138	32	80	+0.5	6	808.8	132	458.4	77	270
		132.25.630	134.25.630															8	806.4	98	459.2	58	
4	130.25.710	131.25.710	133.25.710	844	576	148	808	612	28	18	M16	32	4	138	32	80	+0.5	6	886.8	145	536.4	90	300
		132.25.710	134.25.710															8	886.4	108	539.2	68	
5	130.32.800	131.32.800	133.32.800	964	636	182	920	680	36	22	M20	40	4	172	40	120	+0.5	8	1006.4	123	595.2	75	500
		132.32.800	134.32.800															10	1008	98	594	60	
6	130.32.900	131.32.900	133.32.900	1064	736	182	1020	780	36	22	M20	40	4	172	40	120	+0.5	8	1102.4	135	691.2	87	600
		132.32.900	134.32.900															10	1108	108	694	70	
7	130.32.1000	131.32.1000	133.32.1000	1164	836	182	1120	880	40	22	M20	40	5	172	40	120	+0.5	10	1218	119	784	79	680
		132.32.1000	134.32.1000															12	1221.6	99	784.8	66	
8	130.32.1120	131.32.1120	133.32.1120	1284	956	182	1240	1000	40	22	M20	40	5	172	40	120	+0.5	10	1338	131	904	91	820
		132.32.1120	134.32.1120															12	1341.6	109	904.8	76	
9	130.40.1250	131.40.1250	133.40.1250	1445	1055	220	1393	1107	45	26	M24	48	5	210	50	150	+0.5	12	1509.6	123	988.8	83	1200
		132.40.1250	134.40.1250															14	1509.2	105	985.6	71	
10	130.40.1400	131.40.1400	133.40.1400	1595	1205	220	1543	1257	45	26	M24	48	5	210	50	150	+0.5	12	1665.6	136	1144.8	96	1300
		132.40.1400	134.40.1400															14	1663.2	116	1139.6	82	
11	130.40.1600	131.40.1600	133.40.1600	1795	1405	220	1743	1457	48	26	M24	48	6	210	50	150	+0.5	14	1873.2	131	1335.6	96	1520
		132.40.1600	134.40.1600															16	1868.8	114	1334.4	84	
12	130.40.1800	131.40.1800	133.40.1800	1995	1605	220	1943	1657	48	26	M24	48	6	210	50	150	+0.5	14	2069.2	145	1531.6	110	1750
		132.40.1800	134.40.1800															16	2076.8	127	1526.4	96	

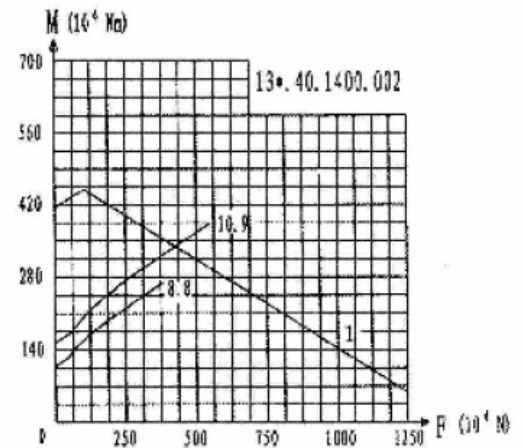
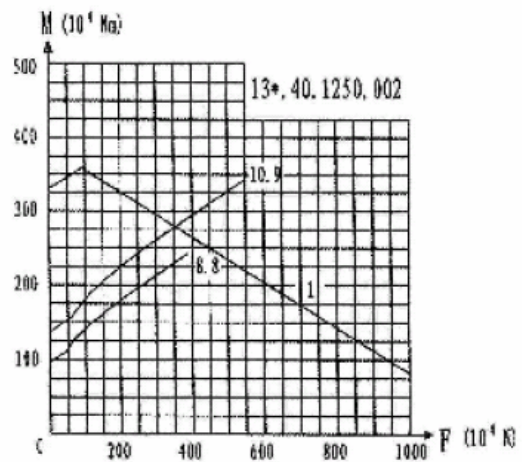
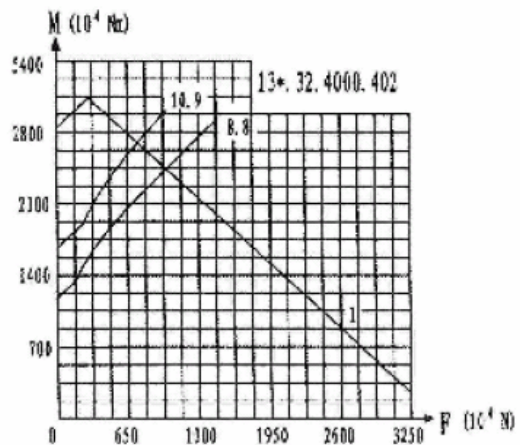
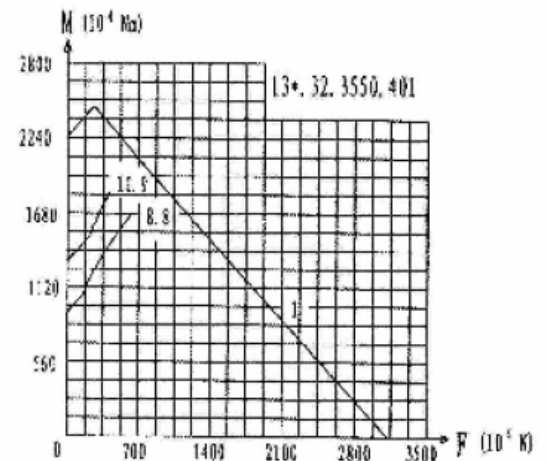
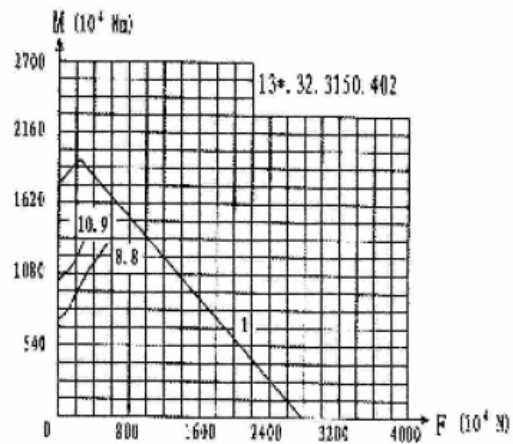
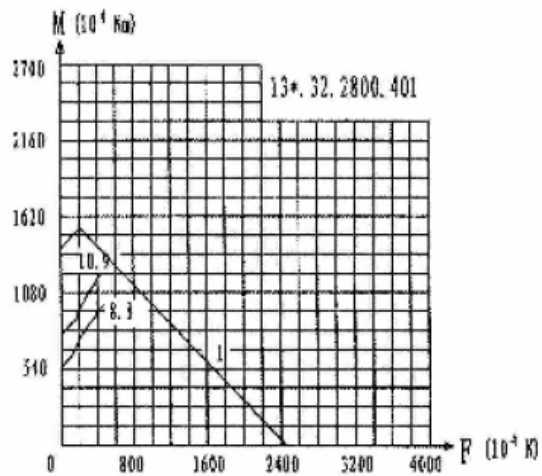
No	Basic Type			Configuration			Mounting Size					sturctural size			Gear Date			Ext Gear		Int Gear		Wei ght kg	
	Toothless	Ext Toothless	Int Toothless	D	d	H	D1	D2	n	$\phi$	M		n1	H1	h	b	x	m	De	Z	De		Z
										0	1,2,3												
										$\phi$	$\phi$	T											
13	130.45.2000	131.45.2000	133.45.2000	2221	1779	231	2155	1845	60	33	M30	60	6	219	54	160	+0.5	16	2300.8	141	1702.4	107	
		132.45.2000	134.45.2000															18	2300.4	125	1699.2	95	
14	130.45.2240	131.45.2240	133.45.2240	2461	2019	231	2395	2085	60	33	M30	60	6	219	54	160	+0.5	16	2556.8	157	1926.4	121	
		132.45.2240	134.45.2240															18	2552.4	139	1933.2	108	
15	130.45.2500	131.45.2500	133.45.2500	2721	2279	231	2655	2345	72	33	M30	60	8	219	54	160	+0.5	18	2822.4	154	2185.2	122	
		132.45.2500	134.45.2500															20	2816	138	2188	110	
16	130.45.2800	131.45.2800	133.45.2800	3021	2579	231	2955	2645	72	33	M30	60	8	219	54	160	+0.5	18	3110.4	170	2491.2	139	
		132.45.2800	134.45.2800															20	3116	153	2488	125	

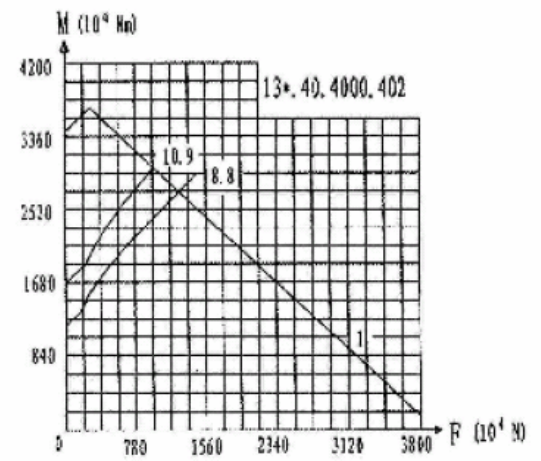
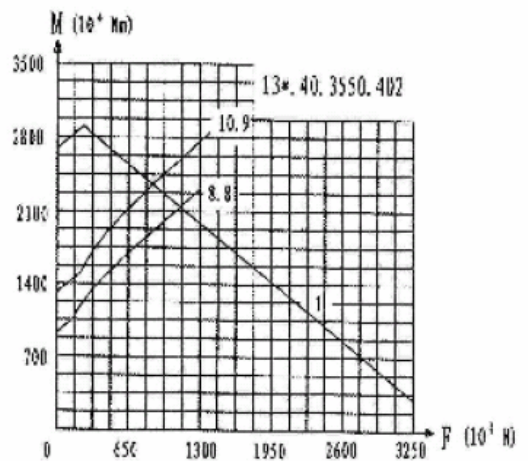
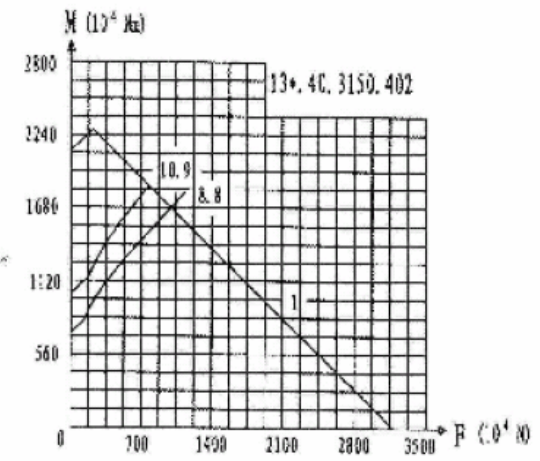
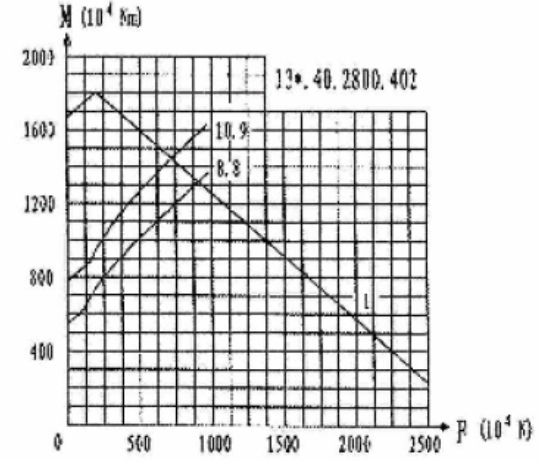
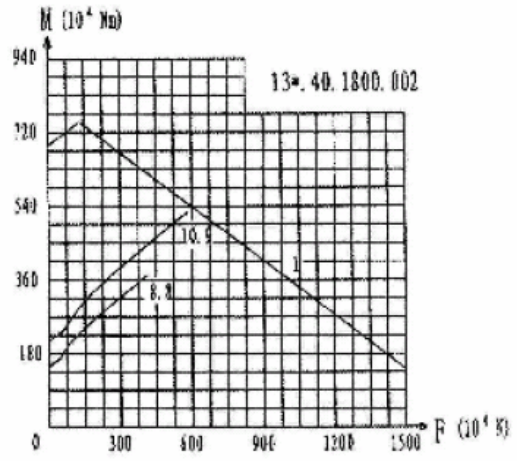
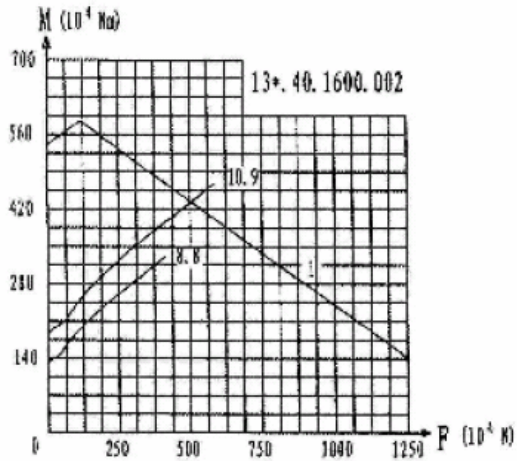


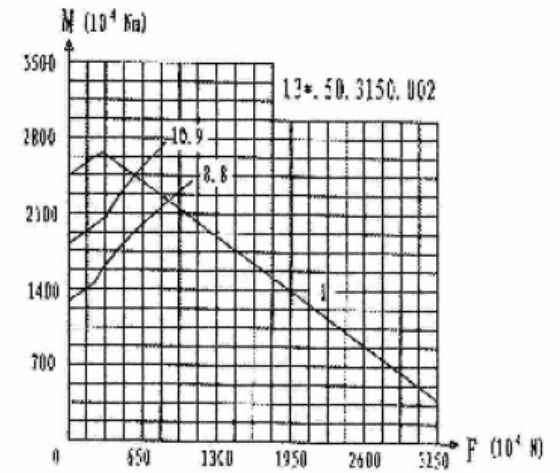
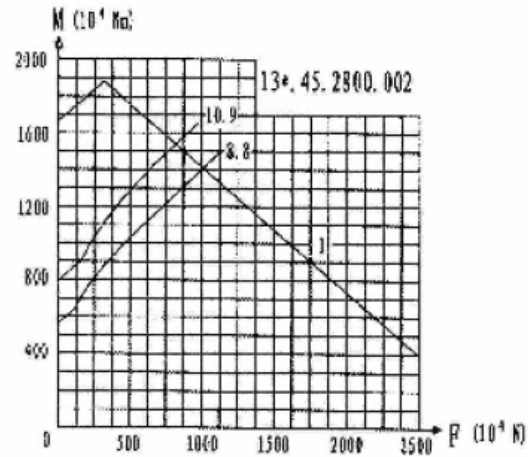
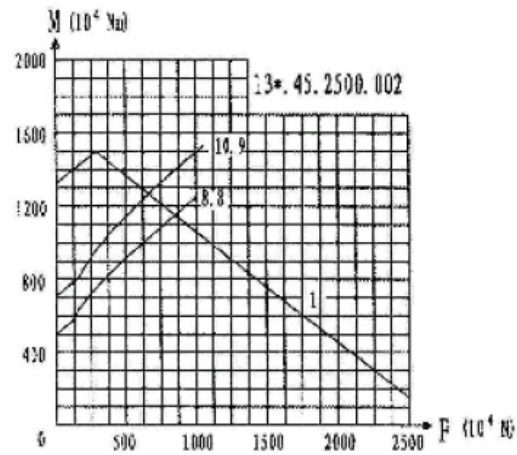
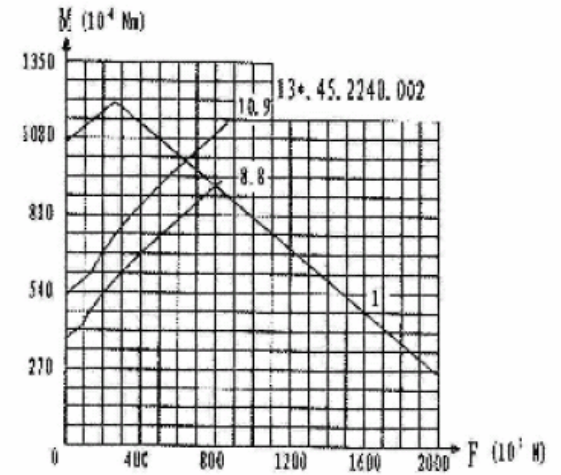
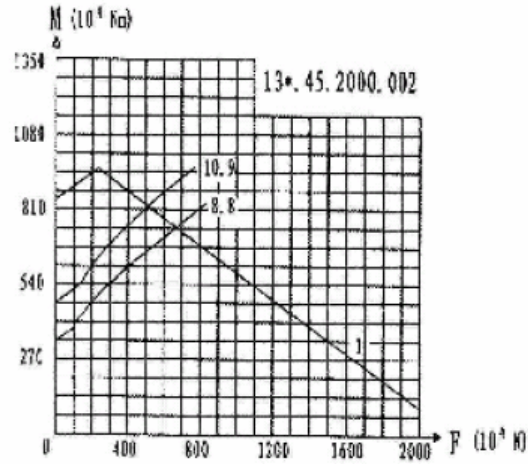
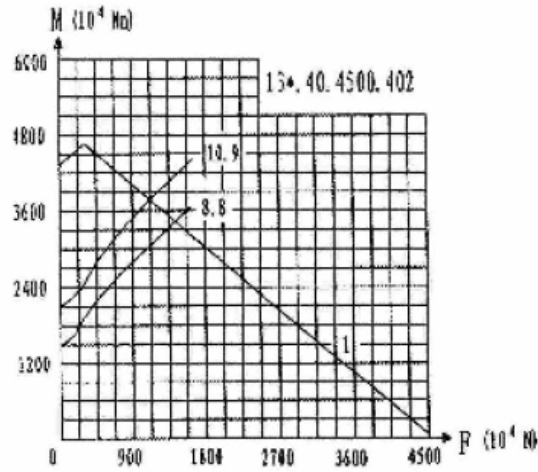


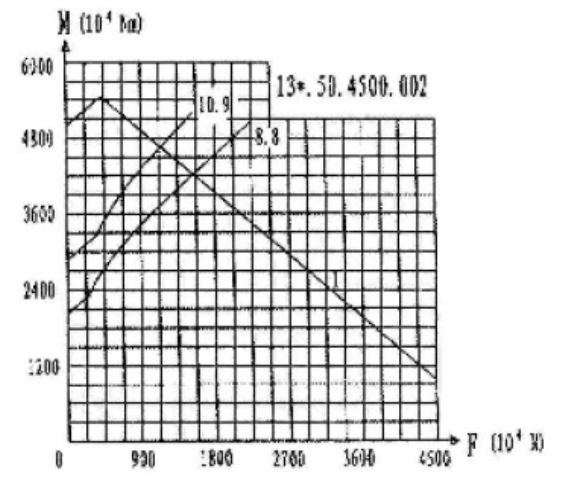
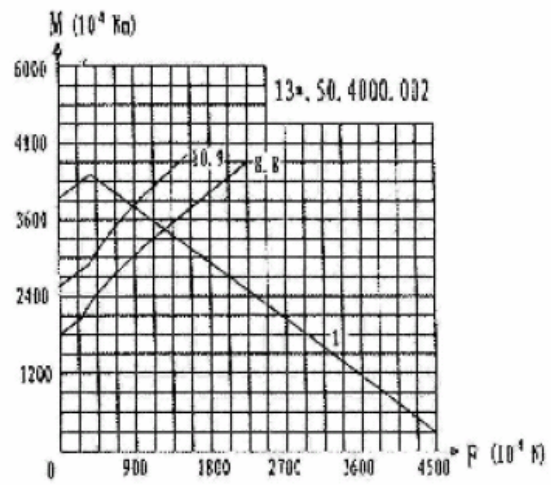
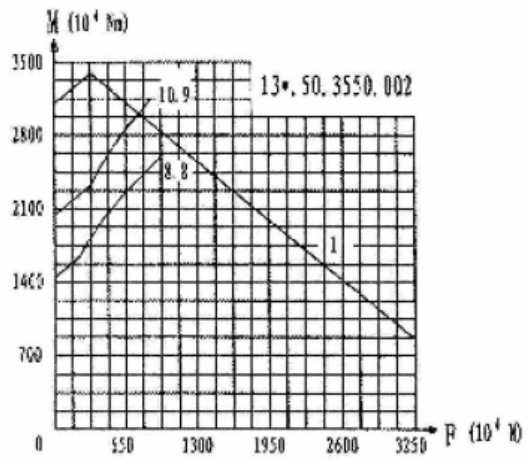












# Network of **RTR** Bearing

With the developing of the internet, we devote so much on the network management. We have perfect enquiry—quotation system, and strong technical supporting. Fast action, precise information, best service is the most important requirement to ourselves. If you have any enquiry or special requirement, please send emails to our email address, we may give you reply in 24 hours.

For the latest detailed information on RTR Bearing, please refer to our website at

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Best supplier in China

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four row roller bearing  
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Thrust ball bearing

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Thrust roller bearing  
Cylindrical roller bearing  
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Needle roller bearing  
Spherical roller bearing

**Mounted bearing**  
Mounted bearing unit  
Insert-bearing  
Housing  
Split housing

**Plain and rod end bearing**  
Rod end bearing  
Ball joint  
Universal joint

**Company Profiles**

China RTR bearing Manufacturer is a professional manufacturer and exporter of kinds of bearings. From opened in 1998, we always supply excellent product and service for every users. Moreover, we have gained ISO9001 certificate for our control of quality.

More...

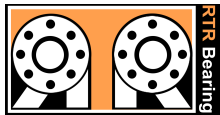
**Recommended Products**

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four row roller bearing

large bore inch tapered roller bearing

Slewing Ring Bearing/Turnable bearing



**RTR Bearing**

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