SRG

Rolling Mill Bearings

SRG BEARINGS

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About us 公司简介

SRG Bearings is an internationally renowned bearing brand belonging to SRG GROUP LIMITED. It is a bearing factory that integrates bearing production, research and development, and export. We mainly provide roller and ball bearings.

SRG Bearing Factory was established in 1997 and is located in Liaocheng City, Shandong Province. It is a long-standing bearing production enterprise. We have 120 CNC machine tools, 6 bearing processing production lines, and can independently complete bearing production, assembly, precision grinding, heat treatment, and other processes. The inner bore size range is from 3mm to 6.5m, and the weight range is from 10.5g to 2.6 tons.

Our main products include:

Miniature and medium-sized deep groove ball bearings
Double row self-aligning roller bearings
Four-row heavy-duty cylindrical roller bearings
Self-aligning roller bearings
Thrust ball bearings, thrust ball and roller bearings
Single and double row tapered roller bearings
Needle roller bearings
High-precision spindle bearings
Pillow block bearings, shaft sleeves, steel balls
Technical support
Maintenance and repair
Product training

SRG bearings are widely used in railways, mines, machinery, automobiles, ships, metallurgy, petroleum, electricity, agriculture, textile, and aviation industries.

SRG products have been sold to Europe, Asia, America, and Southeast Asia, which are our most important markets. We have spent a lot of time developing new products while also producing high-quality products. We are popular both domestically and internationally.

We welcome your inquiries and look forward to future cooperation.

Product display

Product use

Product introduction

1 Four-rowCylindrical Roller Bearing for Rollers

1.1Characteristics

This type bearing can carry heavy radial load, whereas can not bear axial force. It has small radial dimension and higher limit rotation speed. This bearing can be installed separately with IR and OR components due to its no- rib structure of OR.

The bearing is applicable for all rolling mills which rollers are changed frequently. Its advantages of heavier radial loading, higher rotation precision and easy to disassembly, which makes it the first choice as rolling mill roller bearing.

1.2Structure Type

FC Type: One inner ring and two outer ring assembly composed by two outer rings with ribs, rollers and cages; See chart1

FCD Type: Double inner ring and two outer ring assembly composed by two outer rings with ribs, rollers and cages;See chart2

FCDP Type: Component composed by double outer rings with ribs, rollers and cages, double inner rings and 3 flat ribs; See chart 3

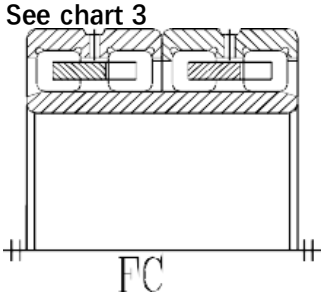


chart1

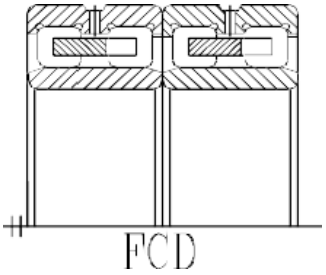


chart2

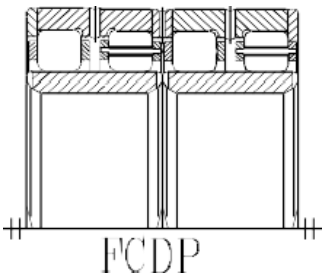


chart3

1.3Collocation of bearing with roller neck and inner house of bearing house

According to the operating requirements of hot-rolling mill and cold-rolling mill, the collocation is recommended as below:

Chart 1 The collocation of bearing ID and roller neck

Bearing ID	Roller Dimension	Roller Geometric Accuracy		Fitting surface	Notes
d（mm）	Tolerance	Roundness	Cylindricity	Roughness （μm）	Increase the tolerance value from n6 p6 r6 accroding to the incre- asing carrying load form small to large
d＜200	n6	Half of the dimensional tolerance range value		Ra1 .6	
d=200-500	p6				
d＞500	r6			Ra3 .2	

Chart 2 The collocation of bearing OD and inner hole of bearing house

Bearing OD	Bearing block bore size	Geometric tolerance of bearing block bore		Fitting surface
d（mm）		Roundness	Cylindricity	Roughness （μm）
D＜500	H7	half of the dimensional tolerance range value		3 .2 a
D＞500	F7(G7)			

1.4Selection of Bearing Radial Clearance

As the radial support bearing for rollers, its operating environment is badly tough. The actual clearance is related with loads, rotation speed, lubrication, temperature raise, structure, roughness of working surface and the interference of the bearing's ID. So the comprehensive actual operating environment need to be considered when select bearing type.

C3 clearance is recommended for cold-rolling mill bearings or bearings whose interference on inner ring is small. C4 clearance is recommended for hot-rolling mill bearings or bearings whose interference of ID and rollers is large. See detail information in below chart.

3 Chart 3 Radial Clearances of 4-row Cylindrical Roller Bearing

Nominal ID d mm		Group0		Group3		Group4		Group5	
from	to	min	max	min	max	min	max	min	max
80	100	50	85	75	110	105	140	155	190
100	120	50	90	85	125	125	165	180	220
120	140	60	105	100	145	145	190	200	245
140	160	70	120	115	165	165	215	225	275
160	180	75	125	120	170	170	220	250	300
180	200	90	145	140	195	195	250	275	330
200	225	105	165	160	220	220	280	305	365
225	250	110	175	170	235	235	300	330	395
250	280	125	195	190	260	260	330	370	440
280	315	130	205	200	275	275	350	410	485
315	355	145	255	255	305	305	385	455	535
355	400	190	280	280	370	370	460	510	600
400	450	210	310	310	410	410	510	565	665
450	500	220	330	330	440	440	550	625	735
500	560	240	360	360	480	480	600	–	–
560	630	260	380	380	500	500	620	–	–
630	710	285	425	425	565	565	705	–	–
710	800	310	470	470	630	630	790	–	–
800	900	350	520	520	690	690	860	–	–
900	1000	390	580	580	770	770	960	–	–
1000	1120	430	640	640	850	850	1060	–	–
1120	1250	470	710	710	950	950	1190	–	–

1250	1400	530	790	790	1050	1050	1310	–	–

2 Tapered Roller Bearing

2.1Characteristics

Taper roller bearing's inner raceway and outer raceway are tapered with taper rollers in between. If extend the tapered surfaces of outer raceway, inner raceway and taper rollers, they will finally gather onto one point, which enables peripheral speeds of any point on raceways are the same. During operating, the rolling elements moves only as rolling.

Taper roller bearing mainly carry the combined loads from radial and axial directions. Bearing's axial loading capacity is determined by contact angle. The bigger the contact angle, the bigger loading capacity. Bearing with bigger taper angle can bear axial load by itself.

Taper roller bearing is separable. Cones composed by rollers, cage and inner ring can be separate from outer ring.

2.2Structure Type

2.2.1Double-row Tapered Roller Bearing

350000 type: This bearing adopts a double-raceway outer ring and 2 inner rings. There is a spacer between 2 inner rings.Bearing clearance can be adjusted by changing spacer's thickness. Bearing can carry axial loads from double directions when carry radial load. It can bear axial load by itself. See chart 4 and chart 5. Detail information for selecting bearings refers to data and structures in catalogue.

370000 type: This bearing adopts a double raceway inner ring and two separate outer rings with single raceway. One spacer in between the 2 outer rings. Bearing's axial clearance can be adjusted by changing spacer's thickness. It can bear axial loads from double directions when carry radial load. It can carry axial load by itself. The structures are shown in chart 6 and chart 7. Type selecting refers to detail data and structure in catalogue.

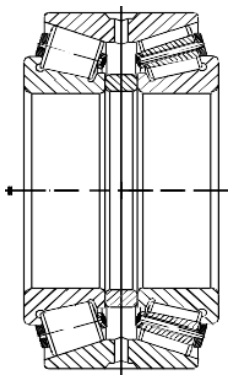


Chart 4

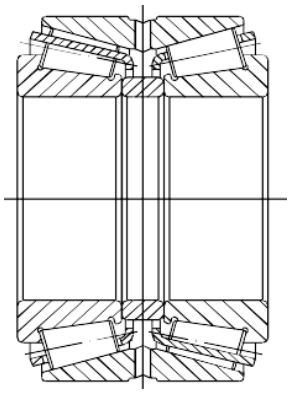


Chart 5

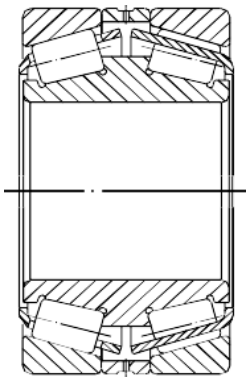


Chart 6

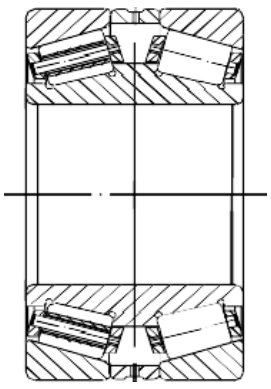


Chart 7

2.2.2Four-row Tapered Roller Bearing

380000 type： This bearing adopts 2 inner rings with double raceway, one outer ring with double raceway and 2 outer rings with single raceway. Between inner rings and outer rings, there are spacers which can adjust bearing clearance. The bearing can carry heavy radial load and certain axial load, whereas its limit rotation speed is low. It mainly is used onto back-up roller, middle roller and work roller. The structures are shown as chart 8, chart 9 and chart 10.

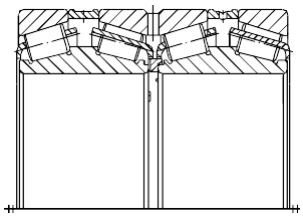


Chart 8

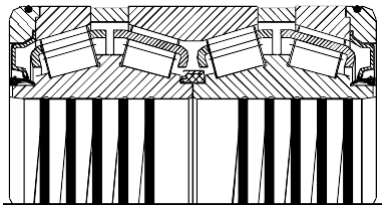


Chart 9

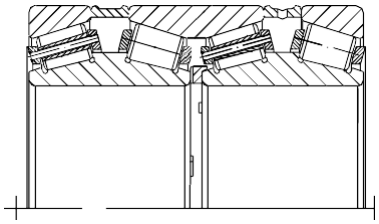


Chart 10

2.3Collocation of bearing with roller neck and inner hole of bearing house

According to the operating requirements of hot rolling mill and cold rolling mill, the collocation of bearing and roller neck and bearing house is recommended to be:

The collocation of bearing ID and roller neck is through clearance. This collocation enables bearing inner ring can slightly moving along roller neck's circle, and make the disassembly of roller easy.

The collocation of bearing OD and bore of bearing house is related to bearing OD size. When D≤500mm, H7 tolerance is recommended for bearing house inner hole; When D>500mm, G7 tolerance is recommended.

2.4Selection of bearing radial clearance

As taper roller bearing carries mainly radial load and combined load from axial and radial directions, its working environment is extremely bad. The actual clearance during operation is related to loads, rotate speed, lubrication, temperature raise, structure and the contact surface roughness. The proper clearance should be determined after careful analysis based on the rolling condition of the rolling mill.

Nominal ID d mm		Group1		Group2		Group0		Group3		Group4		Group5	
from	to	min	max	min	max	min	max	min	max	min	max	min	max
80	100	0	20	20	45	45	70	70	100	100	130	130	170
100	120	0	25	25	50	50	80	80	110	110	150	150	200
120	140	0	30	30	60	60	90	90	120	120	170	170	230
140	160	0	30	30	65	65	100	100	140	140	190	190	260
160	180	0	35	35	70	70	110	110	150	150	210	210	280

180	200	0	40	40	80	80	120	120	170	170	320	230	310
200	225	0	40	40	90	90	140	140	190	190	260	260	340
225	250	0	50	50	100	100	150	150	210	210	290	290	380
250	280	0	50	50	110	110	170	170	230	230	320	320	420
280	315	0	60	60	120	120	180	180	250	250	350	350	460
315	355	0	70	70	140	140	210	210	280	280	390	390	510
355	400	0	70	70	150	150	230	230	310	310	440	440	580
400	450	0	80	80	170	170	260	260	350	350	490	490	650
450	500	0	90	90	190	190	290	290	390	390	540	540	720
500	560	0	100	100	210	210	320	320	430	430	590	590	790
560	630	0	110	110	230	230	350	350	480	480	660	660	880
630	710	0	130	130	260	260	400	400	540	540	740	740	910
710	800	0	140	140	290	290	450	450	610	610	830	830	1100
800	900	0	160	160	330	330	500	500	670	670	920	920	1240
900	1000	0	180	180	360	360	540	540	720	720	980	980	1300
1000	1120	0	200	200	400	400	600	600	820				
1120	1250	0	220	220	450	450	670	670	900				
1250	1400	0	250	250	500	500	750	750	980				

2.5Clearance of Double-row & Four-row Tapered roller bearings and the adjustment method. Formula1 is for calculation of bearing axial clearance:

Ga=1.5Gr/e---------- (1)

Note: Gr refers to bearing radial clearance; See chart 4; please refers to product catalogue for e value

The adjustment of bearing axial clearance is by adjusting its inner ring and outer ring spacer (except 350000D1)

2.5.1Preparation for Adjustment

Wash and clean bearing components after examination.

Adjust the clearance on work table, flat-plate or 3-4 blocks. The height difference of the 3-4 blocks should be 50% smaller than the parallel difference of inner ring's two end-faces.

2.5.2Adjustment Requirements

Before measurement, the orientation end-face of IR's lower side should be parallel.

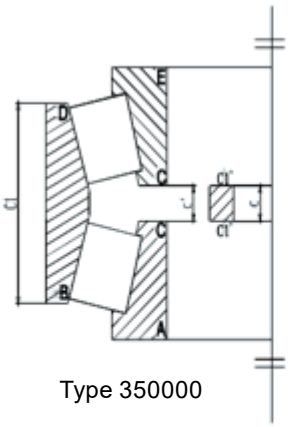
During the measurement, put a loading block on outer ring, which ensures uniform contact of rolling elements and raceways.

Rotate each roller and ring before measurement to ensure all components are in proper positions.

Equidistance measure 4 points along circle. Choose the mean value as the actual measure dimension. When

bearing OD ≤ 440mmm, the difference of the 4 values should be ≤ 0.08mm; When OD>440mm, the four point measured value difference should be ≤0.15mm. If the four point measured value difference surpass above limit, re- rotate each roller and ring to make them in proper position.

2.5.3Adjustment of bearing clearance Bearing type 350000 (see chart 11)



Type 350000

Chart 11

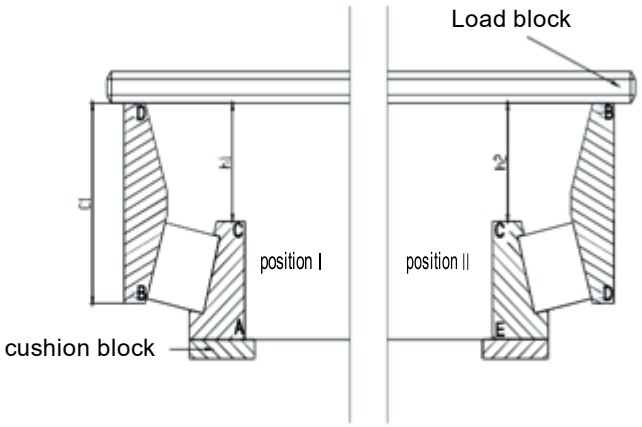


Chart 12

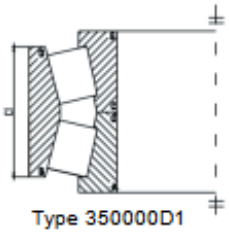
Measure h1 on position I and h2 on position II shown in chart 12. Calculate distance c' of the 2 end-faces CC as formula (2)

c'=h1+h2-C1 ----------(2)

If Ga is the required axial clearance, inner ring spacer width "c" is calculate as formula

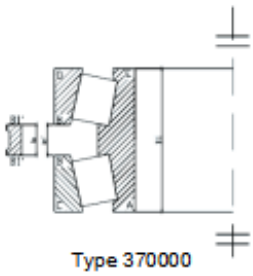
c=c'+Ga ----------(3)

Bearing type 350000D1 (see chart 13)



Type 350000D1

Chart 13



Type 370000

Chart 14

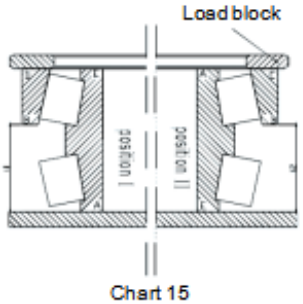
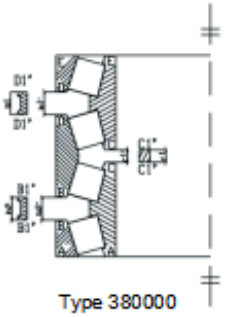


Chart 15



Type 380000

Chart 16

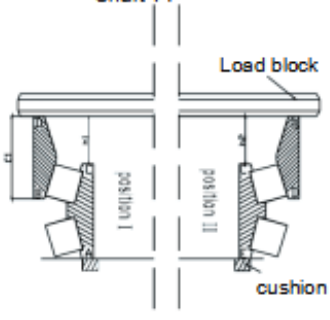


Chart 17

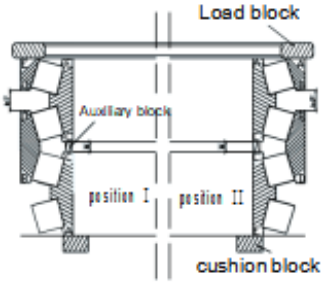


Chart 18

Measurements of h1 and h2 same as 5.3.1. Bearing actual axial clearance is calculated as formula (4):

Ga=C1-（h1+h2)----------(4)

If bearing actual axial clearance value is different with the one from formula (1), modify rings or change components is needed.

Bearing Type 370000

Measure 11 on position I and 12 on position II as shown in chart 15. Calculate distance b' between the 2 end-faces BB

b'=l1+l2-B1----------(5)

If Ga is the required axial clearance, calculate width b of outer spacer as formula (6)

b=b'+Ga----------(6)

Bearing Type 380000 （see chart 16） Inner ring spacer width "c"

Measure h1 on position I as shown in chart 17, and h2 on position II. Calculate distance c' between the 2 end- faces CC

c'=h1+h2-C1---------- (7)

If Ga is the required axial clearance, calculate width c of inner ring spacer as formula (8)

c=c'+Ga---------- (8)

Outer ring spacer width b1 and b2

Equally space 3 supporting blocks between 2 inner rings along the peripheral direction. The height M≥c'+（5~10） (mm)

Difference of the block heights M should be smaller than 50% parallel difference of the measured bearing inner spacer.

Measure b1'on position I and b2'on position II as shown in chart 18. Calculate the width of upper and down side spacers as formula (9) and (10):

b1=b1'-(M-c')+Ga ----------(9)

b2=b2'-(M-c')+Ga---------- (10)

3.Self-aligning Roller Bearing for segment 3.1 Characteristics

Sometimes shaft and bearing box are misalignment or the shaft will be bending. But this kind of bearing with self-aligning will not be influenced by misalignment. And it can adjust roundness error made by them. Except radial road， these bearings also can carry combined axial and radial load in double direction. They have heavier load carrying capacity , shock resistant ,impact resistant.

3.2Types of bearings

3.2.1Single row Spherical Roller Bearing

SDB0000 type: This kind of bearing have single row rollers, self-aligning capacity. And can move in axial direction. These bearings usually used on machines for steel manufacture. The major structure as shown in figure 19 and 20.The type should be chosen based on detail dates and structures in capacity.

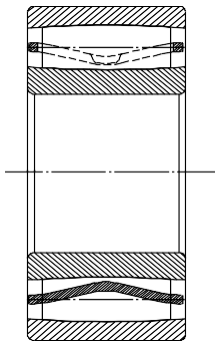


Chart 19

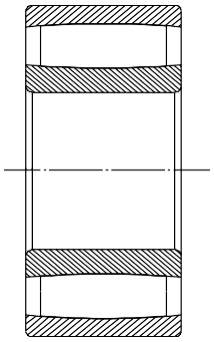


Chart20

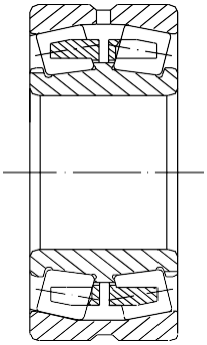


Chart21

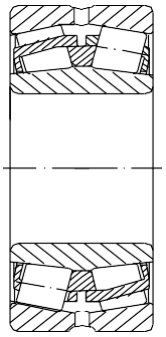


Chart22

3.2.2Double row self-aligning Roller Bearing

This kind of bearing with bipartite pressed steel cage or bipartite brass entity cage, will be used in segment of metallurgy. Because of self-aligning capacity and bipartite cage, these bearings can steady rotating under high temperature. Add heavier load carrying capacity, these bearings can well done in segment produce. Type of

structures as figure 21,22.

3.3The choice of radial clearance

As main product used in segment, the bearing must do better in every performance because of high-temperature working environment. We set dedicated clearance standard for SDB bearings. So that these bearings

can steady turning under this environment. As shown in table .

Notice: Double row self-aligning roller bearing mentioned in 3.2.2 are not suitable for this standard. The

radial clearance should be chosen from table 6.

Nominal ID d mm		Group3		Group4	
Over	Up to	min	max	min	max
18	24	39	51	51	65
24	30	46	60	60	76
30	40	55	73	73	93
40	50	65	85	85	109
50	65	79	104	104	139
65	80	96	124	124	164
80	100	120	158	158	206
100	120	144	186	186	244
120	140	166	215	215	280
140	160	195	252	252	321
160	180	217	280	280	361
180	200	238	307	307	394
200	225	262	337	337	434
225	250	282	368	368	478
250	280	307	407	407	519
280	315	330	434	434	570
315	355	360	483	483	620
355	400	395	528	528	675
400	450	435	577	577	745
450	500	475	633	633	811
500	560	518	688	688	890
560	630	567	751	751	975

4 Self-aligning Roller Bearing for converter

4.1Characteristics

This kind of bearing have self-aligning capacity. Self-aligning Roller Bearing can adjust misalignment cased by bending of shaft. And these bearings can carry double direction axial load, the load combined with radial and axial road. They have heavier load carrying capacity,shock resistant , impact resistant . Besides, because of long assemble period of converter bearings, split Self-aligning Roller Bearing was designed out.

4.2Types of Bearings

4.2.1Common Type of Self-aligning Roller Bearing

This kind of bearing have small ribs on two ends of the inner ring, There is no rib in the middle. Cage is whole with double row claws. Or the cage with rib on middle is bipartite made of brass or carbon steel. This version is mostly used on large size and extra large size bearings.As shown in chart 23,

4.2.2Split Type of Self-aligning Roller Bearing

This kind of bearing mostly used in position which is hard for integral bearing assembled on and demount from. For example, the middle of macroaxis. Otherwise it will take more time, manpower to maintain and incur extremely expensive fees for machine halt. These bearings have split type of inner ring and outer ring. Wide inner ring with double collars. As shown in Chart 24,25 and 26.

4.3The choice of radial clearance

The radial clearance of cylindrical bores and split types of Self-aligning roller bearing should be chosen base on table .But the radial clearance chosen must consider working condition.

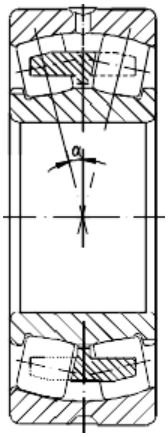


Chart 23

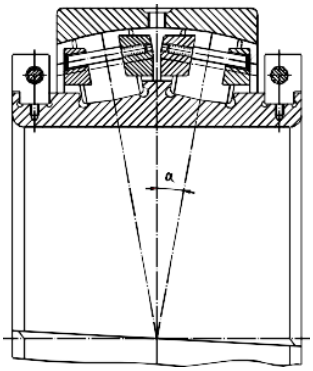


Chart24

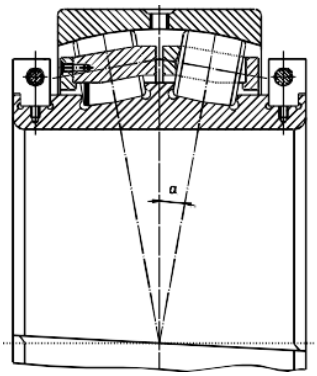


Chart25

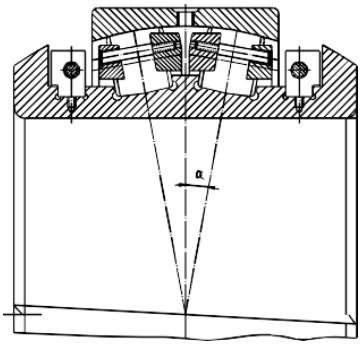


Chart26

Nominal ID d mm		Group3		Group4		Group5	
Over	Up to	min	max	min	max	min	max
14	18	35	45	45	60	60	75
18	24	35	45	45	60	60	75
24	30	40	55	55	75	75	95
30	40	45	60	60	80	80	100
40	50	55	75	75	100	100	125
50	65	65	90	90	120	120	150
65	80	80	110	110	145	145	180
80	100	100	135	135	180	180	225
100	120	120	160	160	210	210	260
120	140	145	190	190	240	240	300
140	160	170	220	220	280	280	350
160	180	180	240	240	310	310	390
180	200	200	260	260	340	340	430
200	225	220	290	290	380	380	470
225	250	240	320	320	420	420	520
250	280	260	350	350	460	460	570
280	315	280	370	370	500	500	630
315	355	310	410	410	550	550	690
355	400	340	450	450	600	600	750
400	450	370	500	500	660	660	820
450	500	410	550	550	720	720	900
500	560	440	600	600	780	780	1000
560	630	480	650	650	850	850	1100
630	710	530	700	700	920	920	1190
710	800	580	770	770	1010	1010	1300
800	900	650	860	860	1120	1120	1440
900	1000	710	930	930	1220	1220	1570

5.Sendzimir mill rolling bearing

5.1Characteristics

As the rolling equipments keep developing, the precision of steel rolling products are asked to increase. So sendzimir mill rolling bearings were designed. The outside of these bearings straightly touch to intermediate roll. And they can carry rolling component. The outer ring have good wear resistance, inner have enough long rolling fatigue life. Outer ring can be regrinded. And the bearing will still rotate as usual after regrinding. The bearing have high impact resistant because of soft inner part. Deep enough surface hardened. Except high rigid, can increase frequent of outer diameter repair. The bearing have high fatigue resistant because of good material. The difference in size of all bearings section height of the same shaft ≤ 0.005mm,The difference between the installed wall thickness of the adjacent bearing ≤0.002mm.

5.2Types of bearings

According to working condition, installing space and the type of bearing assemble, the structure types as shown in figure 27，28，29

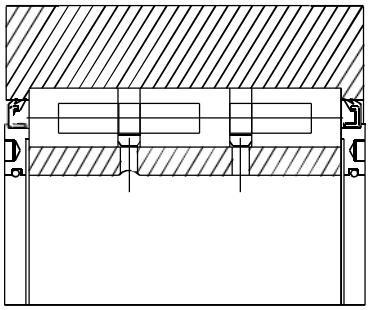


Chart 27

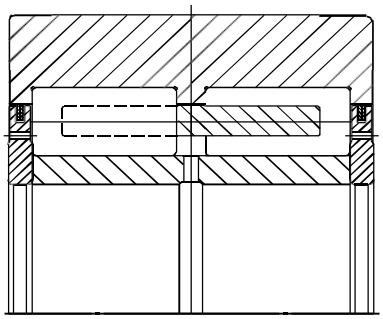


Chart28

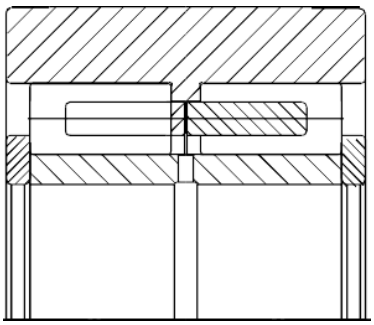


Chart29

The material chosen of rolling mill bearing

Generally，bearing parts are made of high-carbon chromium steel. The parts are martensite quenched when they carry less or no impact load. Bainite quenching should be used when parts carry high impact load. The parts are not only made of carburizing steel but also according carburzation and carbonitridion if they will carry high impact load.

Table Examples of application for typical steel

Class	Steel NO.	Examples of application
High Carbon Chromium Bearing Steel	GCr15	The small and medium-size bearings carry less or no impact load
	GCr15SiMn	large size bearing on mill rolling, no impact load.
	GCr18Mo	According bainite quenching,the bearing used in mill rolling can carry certain impact load and sustain high temperature.
	ZWZ11	Used in large size rolling bearin g. Accordin g salt b ath i sothe rmally-quen chin g, the bearing can carry certain impact load and su stain hig h temperature.
	ZWZ12	These bearings are used in heavy machine like mill rolling.Effective thickness less than 45 mm.After salt bath isothermally- quenching,the bearing can carry certain impact load and sustain high temperature.
Carburizing Bearing Steel	G20CrMo G20CrNiMo	The small and medium-size bearings carry impact load
	G20CrNi2Mo G10CrNi3Mo	Medium and large size bearing carry high impact load
	G20Cr2Ni4	Extra large size bearing carry high impact load.

Roller bearings are classified by its dimension tolerance and geometric tolerance. Tolerance grade of radial bearing (taped roller bearing excepted) are divided into 5 grades: grade 0, grade 6, grade 5, grade 4, and grade 2, the accuracy is increases in sequence. Tapered roller bearing are divided into 4 grades: grade 0, grade 6X, grade 5 and grade 4, the accuracy is increases in sequence. Thrust bearing are divided into 4 grades: grade 0, grade 6, grade 5, and grade 4, the accuracy is increases in sequence. For the specific size tolerance and geometric tolerance, see related standards.

The accuracy grade of industrial standard refer to table

Standard	Application standard	Precision					Bearing type
International standard	ISO492	Standard level Grade 6X	Grade6	Grade5	Grade4	Grade2	Radial bearing
	ISO199	Standard level	Grade6	Grade5		-	Thrust ball bearing
	ISO578	Grade4	-	Grade3	Grade0	Grade0	Tapered roller bearing(inch)
Germany Standard(DIN)	DIN620	P0	P6	P5	P4	P2	All types
American standard	ANSI/ARMA std.20	ABEC-1	ABEC-3	ABEC-5			
		RBEC-1	RBEC-3	RBEC-5	ABEC-7	ABEC-9	Radial bearing(except tapered roller bearing)
SKF		P0	P6	P5	P4	P2	
Japanese standard	JIS B 1514	Grade 0.6	Grade6	Grade5	Grade4	Grade2	All types

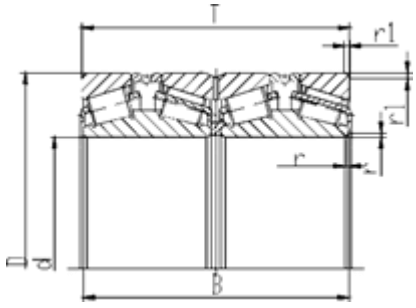


Figure1

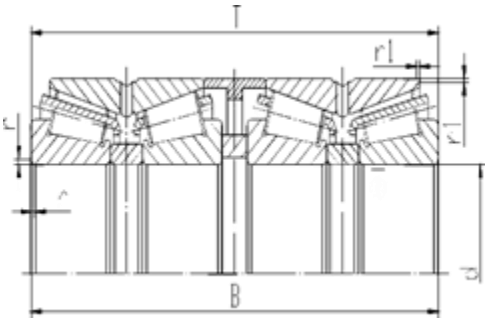


Figure2

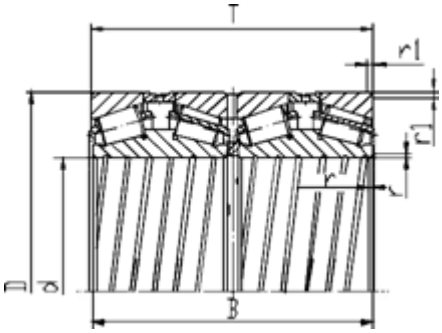


Figure3

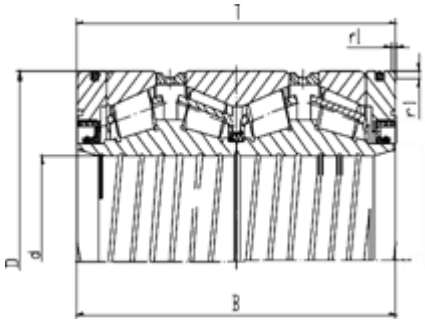


Figure4

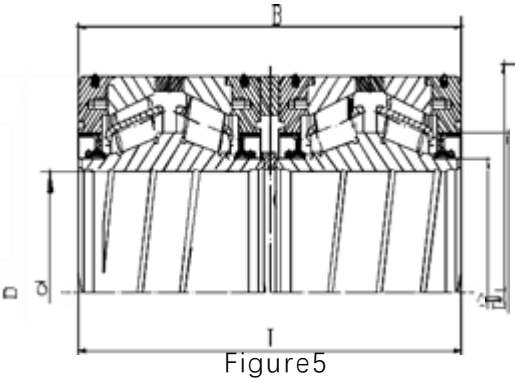


Figure5

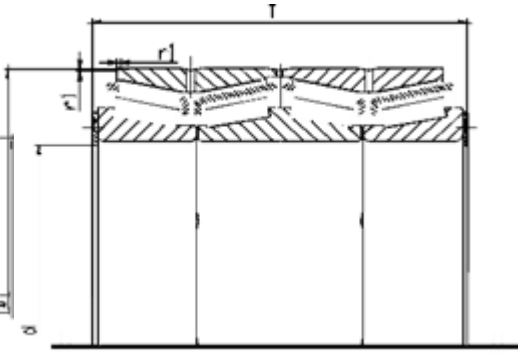


Figure6

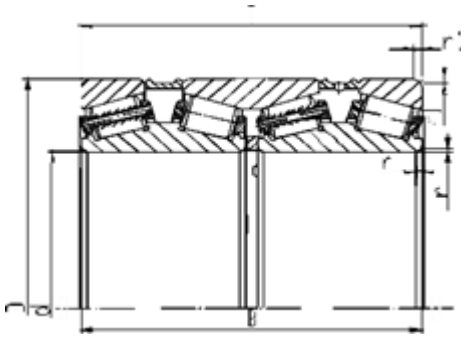


Figure7

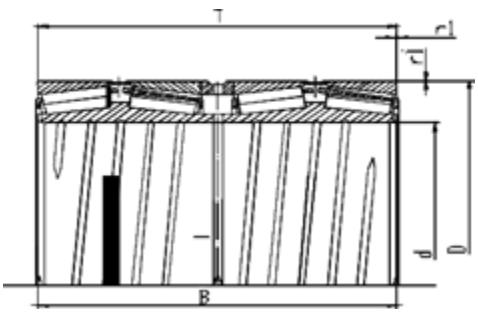


Figure8

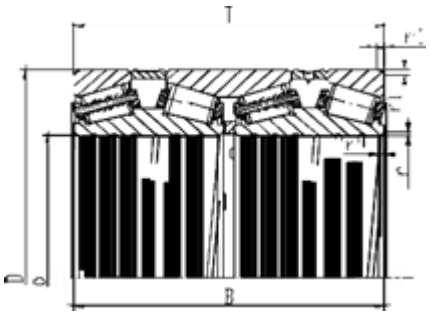


Figure9

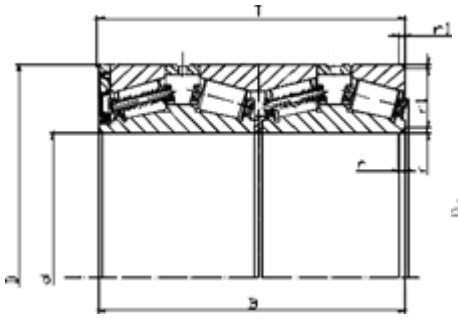
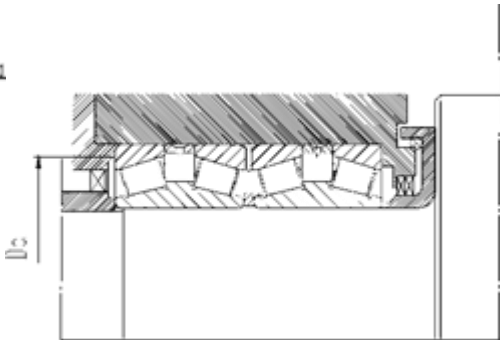
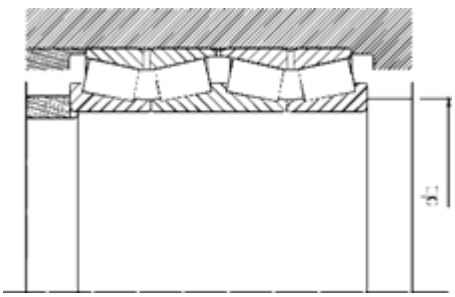


Figure10



Mounted



Mounted

Designations	working position	Basic Dimensions(mm)				
		d	D	B	T	r1min
380632/HC	Working Roll	160	226	165	165	2.5
352936X2/DF-1	Working Roll	180	250	207	207	0.7
382936X3-1		180	260	200	200	2
380636	Working Roll	180	280	180	180	2.5
382938X2-1/HCC9	Working Roll	190	260	200	200	2
380640/HCC9/W283	Working Roll	200	280	206	206	3
382040X2-1	Working Roll	200	310	200	200	2.5
382040	Working Roll	200	310	275	275	2.5
380641	Working Roll	205	320	205	205	3
380642-XRS/HCC9	Working Roll	210	288 .925	262	262	3
380644/W283	Working Roll	220	295	315	315	3
380644-XRS/HCYAB	Working Roll	220	295	315	315	
380644-2RS/HCEC9	Working Roll	220	295	315	315	
382944X2/HCEP5	Working Roll	220	300	230	230	2.5
380644X2/HCC2 H/W283	Working Roll	220	310	226	226	2.5
380644/HC/W283	Intermediate Roll	220	330	260	260	3
382044	Working Roll	220	340	305	305	3
382044/HC	Working Roll	220	340	305	305	3
382948X2-1/HCC9/W283	Intermediate Roll	240	320	250	250	2.5
382948X2-XRS/HC	Working Roll	240	320	294	294	4
380648/HCC9	Working Roll	240	338	248	248	4
380648/C9-3	Working Roll	240	338	248	248	2.5
380648X2-XRS/HCP59YAB	Intermediate Roll	240	338	340	340	3
380648/HCEC9-1	Intermediate Roll	240	338	248	248	4
380648/HCC3-2	Working Roll	240	350	230	230	2
382048X2	Working Roll	240	360	310	310	3
380650X1-XRS/HCP59	Working Roll	250	365	270	270	3
380650/HC	Working Roll	250	460	270	270	4
382952/HC	Working Ro ll	260	360	265	265	2.5
382952X2/HCR	Intermediate Roll	260	360	272	272	2.5
382952X2/HCC2HY A23/W283	Intermediate Roll	260	360	272	272	2.5
380652-XRS/HCC9Y B2/W281	Working Ro ll	260	365	340	340	3.5
380652X3/HC-FM	Intermediate Roll	260	380	280	280	7.5
380652/HC	Intermediate Roll	260	400	255	255	7.5
380652/HC-1	Intermediate Roll	260	400	255	255	7.5
380652/HG2	Intermediate Roll	260	400	255	255	4
382052	Intermediate Roll	260	400	345	345	4
382152X2/HCYA6	Intermediate Roll	260	440	300	300	5

Mounting Dimensions(mm)		Basic Load Ratings(kN)		Calculation Coefficient				Weight (kg)	Patterns
Da	da	Cr	Cor	e	Y1	Y2	Yo		
214	167.5	1070	2290	0.29	2.33	3.46	2.27	20.7	Figure1
246	198	790	2100	0.367	1.84	2.74	1.8	29	Figure2
245	189.5	1110	2700	0.35	1.93	2.87	1.89	33.2	Figure3
260.5	189.5	835	2540	0.499	1.5	2.24	1.47	39.6	Figure1
246	196.5	1040	2780	0.36	1.87	2.79	1.83	29.6	Figure1
263.5	208.5	1600	3410	0.36	1.87	2.79	1.83	38.9	Figure3
292	210.5	1970	5520	0.337	2	2.98	1.96	55.6	Figure1
287	210	1350	4200	0.393	1.72	2.56	1.68	75.1	Figure1
300.5	215	1060	2850	0.4634	1.46	2.17	1.42	55.4	Figure1
274.5	282.5	1510	4050	0.264	2.55	3.8	2.5	49.3	Figure4
278	225	1470	4350	0.333	2.03	3.02	1.98	57.2	Figure3
283.5	227.5	1270	3780	0.402	1.68	2.5	1.64	56.6	Figure5
279	227.5	1580	3950	0.365	1.85	2.76	1.81	56.4	Figure4
279	228	1570	4000	0.401	1.69	2.51	1.65	47.9	Figure1
281.5	229.5	1900	4400	0.353	1.91	2.85	1.87	53.1	Figure3
305	229.5	2200	5300	0.546	1.24	1.84	1.21	77.9	Figure1
317	229	2800	5950	0.346	1.95	2.9	1.91	99.5	Figure1
317	229	2550	5950	0.346	1.95	2.9	1.91	99.5	Figure1
300.5	246.5	2100	5350	0.374	1.8	2.69	1.77	56.5	Figure3
300.5	246	1550	5000	0.335	2.01	3	1.97	61.6	Figure4
169	120	1850	5400					69	Figure3
319	249	2050	5650	0.39	1.73	2.58	1.69	69.2	Figure1
368.5	250	1900	5160	0.421	1.6	2.39	1.57	78.8	Figure5
319	249	2210	5950	0.39	1.73	2.58	1.69	69	Figure3
329	252	2050	4700	0.42	1.61	2.39	1.57	72.2	Figure1
335.5	250	3630	2210	0.314	2.15	3.2	2.1	90.5	Figure1
337.5	262	1950	4600	0.4	1.69	2.51	1.65	90.4	Figure4
427.5	276	2250	6400	0.317	2.13	3.17	2.08	192	Figure1
340	270	1730	5050	0.407	1.66	2.47	1.62	77.8	Figure1
338.5	269	2200	6500	0.411	1.64	2.44	1.6	83.1	Figure1
338.5	269	2200	6500	0.411	1.64	2.44	1.6	83.1	Figure3
343	269	2500	6650	0.402	1.68	2.5	1.64	107	Figure4
355.5	272	2400	6400	0.43	1.57	2.34	1.53	108	Figure1
374	272.5	2050	4800	0.393	1.72	2.56	1.68	117	Figure1
374	272.5	2050	4800	0.393	1.72	2.56	1.68	117	Figure1
374	272.5	1910	4900	0.393	1.72	2.56	1.68	117	Figure3
372	273	2850	7700	0.435	1.55	2.31	1.52	161	Figure1
402.5	282	2670	5850	0.699	0.965	1.44	0.947	182	Figure1

Designations	working position	Basic Dimensions(mm)				
		d	D	B	T	r1min
382956X3/C9YAD	Intermediate Roll	280	395	288	288	7
380656-XRS/HC-1	Working Ro ll	280	395	290	290	4
380656	Working Ro ll	280	420	250	250	5
381156	Working Ro ll	280	460	324	324	4
382960/C9	Working Ro ll	300	420	300	300	3
382960X2/HCC9YA3	Working Ro ll	300	420	310	310	3
382160/HC	Working Ro ll	300	460	390	390	4
380660/HCC9	Working Ro ll	300	500	350	350	4
380662/HCC9	Intermediate Roll	310	430	310	310	4
380662-XRS/HCEC9-1/W281	Intermediate Roll	310	430	350	350	4
382064X2/HC	Intermediate Roll	320	480	380	380	4
382968X2/HC	Working Ro ll&In termediate Ro ll	340	460	310	310	4
382968X2/HCC9	Working Ro ll&In termediate Ro ll	340	460	310	310	4
381068	Working Ro ll&In termediate Ro ll	340	520	325	325	4
381168	Working Ro ll&In termediate Ro ll	340	580	425	425	4
382972X2/HCYA3	Working Ro ll	360	480	375	375	4
381172/HCYA6	Working Ro ll	360	600	420	420	4.7
380676/HC-1	Working Ro ll	380	550	330	350	5
380676/HC	Working Roll	380	620	388	388	6
381176/HC	Working Roll	380	620	420	420	4
381176/HCC9	Working Roll	380	620	420	420	4
381176/HCYA2-1	Working Roll	380	620	420	420	4
381176/HCYA2	Working Roll	380	620	420	420	4
380680/HCEP59YAD	Vertical Roll	390	540		339.96	1.5
380679X2/HC	Roller	395	545	268.7	288.7	7.5
380679X2/HCYA7	Roller	395	545	268.7	288.7	7.5
380679X2/HCC9	Roller	395	545	268.7	288.7	7.5
380679/HCYA3	Roller	395	545	268	288.9	10
380680/HC-1	Back-up Roll	400	540	280	280	7.5
380680/HC	Back-up Roll	400	540	400	400	5
380680/HCEC9YA6-1	Back-up Roll	400	540	280	280	7.5
380680/HCC9	Working Roll	400	540	400	400	5
351080X2-2/C9	Gear Box	400	600	185	185	2.5
381080/HC	Back-up Roll	400	600	356	356	4
380684/HC	Working Roll&Back-up Roll	420	560	437	437	5
380684-XRS/HCP69	Working Roll&Back-up Roll	420	560	437	437	6

381084	Working Roll&Back-up Roll	420	620	356	356	4
381184X2J/HC	Working Roll&Back-up Roll	420	700	480	480	5

Mounting Dimensions(mm)		Basic Load Ratings(kN)		Calculation Coefficient				Weight (kg)	Patterns
Da	da	Cr	Cor	e	Y1	Y2	Yo		
371.5	293	2510	7060	0.402	1.68	2.5	1.64	110	Figure1
372	291.5	2830	6550	0.459	1.47	2.19	1.44	109	Figure4
394	294	1540	5300	0.416	1.62	2.42	1.59	119	Figure1
429.5	303.5	3350	8350	0.333	2.03	3.02	1.98	219	Figure3
397	314	2500	7500	0.395	1.71	2.54	1.67	125	Figure1
397.5	311	2020	8100	0.278	1.43	3.61	2.37	134	Figure1
429	313	3850	10200	0.365	1.85	2.76	1.81	222	Figure1
465	319.5	2730	8900	0.319	2.12	3.15	2.07	280	Figure1
408	324.5	3050	7900	0.32	2.11	3.14	2.06	135	Figure1
404	320.5	3700	9450	0.459	1.47	2.19	1.44	154	Figure4
447.5	336.5	3000	11500	0.459	1.47	2.19	1.44	252	Figure1
438	352	3000	8950	0.302	2.21	3.29	2.16	147	Figure1
438	352	3000	8950	0.305	2.21	3.29	2.16	146	Figure1
489	364	3540	8200	0.287	2.35	3.5	2.3	247	Figure1
535.5	370.5	5050	12300	0.423	1.6	2.38	1.56	468	Figure1
454.5	369	2550	11800	0.333	2.03	3.02	1.98	197	Figure1
555.5	382	3950	13500	0.442	1.53	2.27	1.49	423	Figure1
514	394	2490	9450	0.444	1.52	2.26	1.49	273	Figure1
577.5	403.5	3800	11600	0.43	1.57	2.34	1.53	443	Figure1
575	400	5550	12600	0.459	1.47	2.19	1.44	485	Figure1
575	400	5550	12600	0.459	1.47	2.19	1.44	485	Figure1
575	400	5550	12600	0.459	1.47	2.19	1.44	484	Figure1
575	400	5550	12600	0.459	1.47	2.19	1.44	484	Figure1
270	195	4650	11700	0.311	2.17	3.24	2.12	214	Figure6
516	410	2340	6500	0.445	1.52	2.26	1.48	194	Figure1
516	410	2340	6500	0.445	1.52	2.26	1.48	194	Figure1
516	410	2340	6500	0.445	1.52	2.26	1.48	194	Figure1
512.5	410	2130	6500	0.445	1.52	2.26	1.48	194	Figure3
511.5	412.5	2690	6500	0.445	1.52	2.26	1.48	187	Figure1
514.5	418.5	6980	13300	0.297	2.28	3.39	2.23	262	Figure1
511.5	412.5	2450	6500	0.445	1.52	2.26	1.48	187	Figure1
514.5	418.5	6350	13300	0.297	2.28	3.39	2.23	262	Figure1
581	445	2700	5850	0.37	1.83	2.72	1.78	168	Figure1
565	418	3740	12400	0.38	1.78	2.65	1.74	345	Figure1

532.5	435 .5	7900	16300	0.309	2. 18	3.25	2.13	298	Figure1
532.5	430	4800	15200	0.31	2. 18	3.25	2.13	292	Figure4
583.5	446	4560	11700	0.411	1. 64	2.44	1.6	369	Figure1
652.5	451 .5	5610	18200	0.319	2. 12	3.15	2.07	749	Figure1

Designations	working position	Basic Dimensions(mm)				
		d	D	B	T	r1min
381184	Working Roll&Back-up Roll	420	700	480	480	5
381188X1-XRS-HC-1	Vertical Roll	440	590	480	480	
380688/HCC9	Roller	440	620	454	454	6
380688/HC-1	Working Roll	440	620	454	454	6
380688/HCC9YA8	Working Roll	440	620	454	454	6
380688-XRS/HCC9	Working Roll	440	620	454	454	7.5
380688	Working Roll	440	650	355	355	5
380688/HC	Working Roll	440	650	355	355	5
380688/HCYA7	Working Roll	440	650	355	355	6
381088X2/HG	Working Roll	440	650	355	355	5
380690-XRS/HC	Working Roll	450	595	368	368	5
380690/HC	Vertical Roll	450	595	390	390	1.5
370690X2/HCC9DB/W281	Working Roll	450	595	415	415	6
380692/HCEP59YAD	Working Roll&Back- up Roll	460	590	360	360	
381992X3/YA	Working Roll&Back- up Roll	460	610	360	360	6
381992/HC	Working Roll&Back- up Roll	460	620	310	310	4
381992/HCC9	Working Roll&Back- up Roll	460	620	310	310	4
380692/HCC9 -1	Working Roll&Back- up Roll	460	650	474	474	6
381192X3/HC	Working Roll&Back- up Roll	460	730	440	440	7.5
381192X3/HCC9	Working Roll&Back- up Roll	460	730	440	440	7.5
381096	Working Roll&Back- up Roll	480	700	420	420	5
381096/HCYA2	Working Roll&Back- up Roll	480	700	420	420	5
380698/HC	Working Roll	490	625	385	385	4
380698/HCYA2	Working Roll	490	625	385	385	4
3806/510/HCC9	Working Roll	510	655	377	379	6.4
3810/530	Working Roll	530	780	450	450	5

3806/540J/HC	Working Roll	540	690	400	400	5
3819/560/HC	Working Roll	560	750	368	368	4
3806/600/HC	Working Roll&Back- up Roll	600	800	365	365	5
3806/600/HCYA8	Working Roll&Back- up Roll	600	800	365	365	5
3819/600/HC	Working Roll&Back- up Roll	600	800	380	380	4
3810/600/HC	Working Roll&Back- up Roll	600	870	480	480	6
3811/600/HC	Working Roll&Back- up Roll	600	980	650	650	7.5
3806/625/HC	Working Roll	625	815	480	480	6.5
3819/630/HC	Backup Roll	630	850	418	418	6
3806/630-XRS/HCC9	Backup Roll	630	860	615	615	5
3810/630/HC	Backup Roll	630	920	515	515	7.5
3811/630/HC	Backup Roll	630	1030	670	670	6

1

Mounting Dimensions(mm)		Basic Load Ratings(kN)		Calculation Coefficient				Weight (kg)	Patterns
Da	da	Cr	Cor	e	Y1	Y2	Yo		
651.5	452 .5	10500	11900	0.319	2. 12	3.15	2.07	755	Figure1
561	451 .5	8000	19000	0.278	2. 43	3.61	2.37	359	Figure4
571	455	6650	18800	0.418	1. 61	2.4	1.58	432	Figure1
586	455	6050	18800	0.418	1. 61	2.4	1.58	432	Figure1
582	452	6500	20200	0.402	1. 68	2.5	1.64	422	Figure1
588.5	455	6750	16700	0.333	2. 03	3.02	1.98	408	Figure4
611	457 .5	4900	12000	0.463	1. 46	2.17	1.42	385	Figure1
611	457 .5	3680	12100	0.463	1. 46	2.17	1.42	385	Figure1
611	458	3680	12100	0.463	1. 46	2.17	1.42	385	Figure1
611	457 .5	5000	12300	0.463	1. 46	2.17	1.42	402	Figure7
569.5	464	5250	13400	0.33	2. 05	3.05	2	268	Figure4
583.5	486 .5	5350	14700	0.333	2. 03	3.02	1.98	285	Figure6
566.5	467 .5	4900	16700	0.31	2. 18	3.24	2.13	305	Figure8
567.5	476 .5	5100	14400	0.275	2. 45	3.65	2.4	241	Figure1
582.5	476	6100	16400	0.339	1. 99	2.96	1.94	291	Figure3
592	474 .5	6160	3450	0.402	1. 68	2.5	1.64	260	Figure1
592	474 .5	6160	3450	0.402	0. 68	2.5	1.64	260	Figure1
613	478	4950	20000	0.338	2	2.97	1.95	506	Figure1
674.5	491 .5	6160	14800	0.748	0. 903	1.34	0.882	663	Figure1
674.5	491 .5	6160	14800	0.748	0. 903	1.34	0.882	663	Figure1

658	500 .5	4730	16900	0.408	1. 66	2.47	1.62	582	Figure1
658	498 .5	5880	15500	0.408	1. 66	2.47	1.62	535	Figure3
559.5	505	5390	16500	0.319	2. 12	3.15	2.07	278	Figure1
559.5	505	4900	16500	0.319	2. 12	3.15	2.07	278	Figure3
626.5	525 .5	5500	16200	0.333	2. 03	3.02	1.98	316	Figure3
735.5	555	7200	18200	0.38	1. 78	2.65	1.74	745	Figure9
661	555 .5	6270	11400	0.333	2. 03	3.02	1.98	375	Figure3
715.5	583	7850	15800	0.43	1. 57	2.34	1.53	447	Figure9
766.5	623	4000	18100	0.33	2. 05	3.05	2	489	Figure1
766.5	623	5110	17200	0.33	2. 05	3.05	2	522	Figure9
765.5	622 .5	4000	18100	0.33	2. 05	3.05	2	497	Figure1
812	622 .5	8900	27500	0.414	1. 63	2.43	1.6	990	Figure9
917.5	639	9650	37500	0.319	2. 12	3.15	2.07	1950	Figure9
779	498 .5	9720	28900	0.333	2. 03	3.02	1.98	658	Figure1
810.5	650 .5	6700	22200	0.4	1. 69	2.52	1.65	683	Figure9
816.5	653	13300	37000	0.346	1. 95	2.9	1.91	1034	Figure4
866.5	657	6550	27500	0.425	1. 59	2.36	1.55	1190	Figure1
960.5	681.5	15000	42000	0.387	1.75	2.6	1.71	2200	Figure9

Designations	working position	Basic Dimensions(mm)				
		d	D	B	T	r1min
3806/650/HCYA7	Backup Roll	650	1030	560	560	12
3806/650/HCYAD	Backup Roll	650	1030	560	560	12
3806/650/HC	Backup Roll	650	1030	560	560	12
3806/650/HCC9	Backup Roll	650	1030	560	560	12
3806/650/HCC9-1	Backup Roll	650	1030	560	560	12
3806/650/HCEC91YA3	Backup Roll	650	1030	560	560	12
3819/670/HC	Backup Roll	670	900	412	412	6
3806/685.8-XRS/HCC9	Backup Roll	685.8	876.3	352.425	355.6	6.4
3806/710/HCYA2	Backup Roll	710	900	410	410	6
3811/750	Backup Roll	750	1220	840	840	9.5
3811/750-RS/HCC9	Backup Roll	750	1220	840	840	9.5
3806/750/HCC9	Backup Roll	750	1220	840	840	13

Mounting Dimensions(mm)		Basic Load Ratings(kN)		Calculation Coefficient				Weight (kg)	Patterns
Da	da	Cr	Cor	e	Y1	Y2	Yo		
970	687	16000	39300	0.317	2.15	3.2	2.1	1770	Figure9
970	691.5	17600	39300	0.314	2.15	3.2	2.1	1735	Figure9
970	697.5	17600	39300	0.314	2.15	3.2	2.1	1720	Figure9
970	697.5	17600	39300	0.314	2.15	3.2	2.1	1723	Figure9
970	697.5	17600	39300	0.314	2.15	3.2	2.1	1712	Figure9

970	697.5	16000	39000	0.314	2.15	3.2	2.1	1720	Figure7
857	691	5770	24600	0.437	1.55	2.3	1.51	773	Figure1
844	704.5	5800	14500	0.417	1.62	2.41	1.58	490	Figure4
865.5	728	5880	27500	0.353	1.91	2.85	1.87	650	Figure9
1141	792.5	17700	68500	0.323	2.09	3.11	2.04	3985	Figure7
1143	805	24600	64500	0.323	2.09	3.11	2.04	3880	Figure 10
1050.5	768	21100	70500	0.37	1.83	2.72	1.78	3810	Figure7

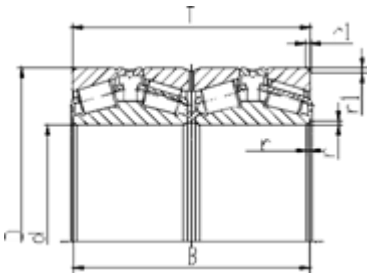


Figure1

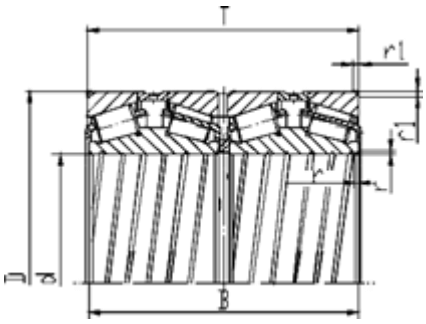


Figure2

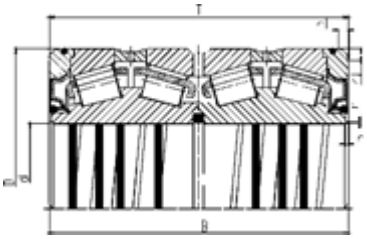


Figure2

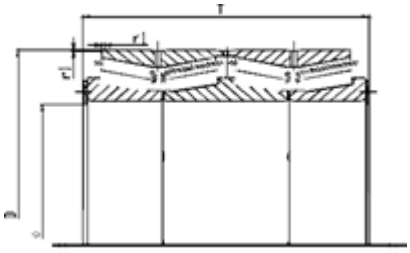


Figure1

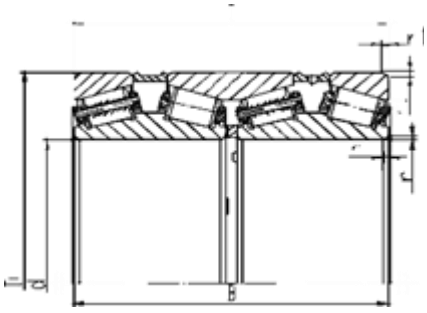


Figure2

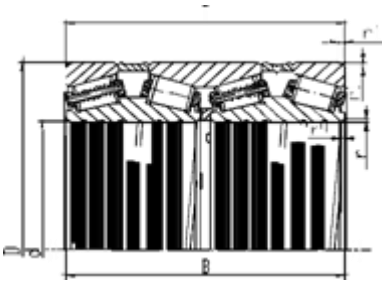
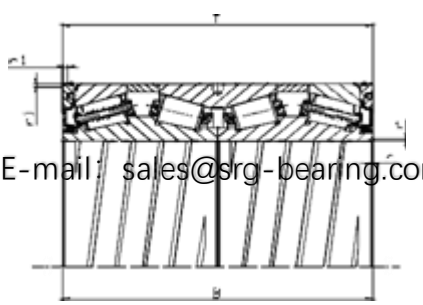


Figure2



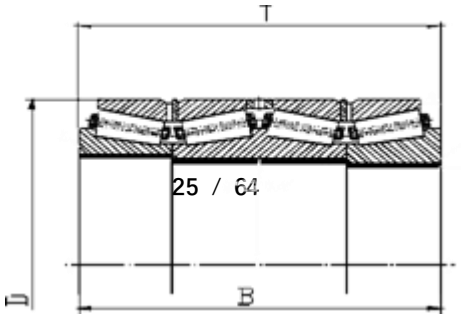
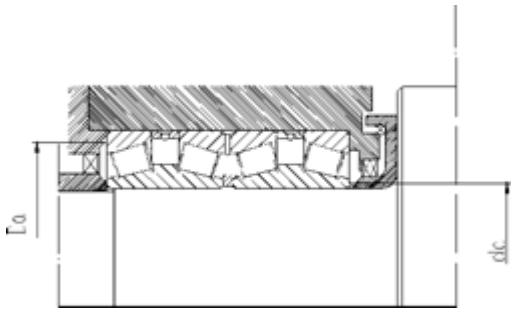
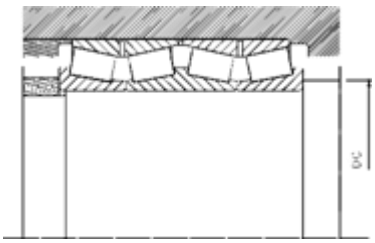


Figure1



Mounted

Figure2



Mounted

Designations	working position	Basic Dimensions(mm)					
		d	D	B	T	Da	da
K67390D/K67322-K67322D	Working Roll	133 .35	196 .85	193 .675	193 .675	184	140
3806/139.7/HCP59	Backup Roll	139 .7	200 .025	157 .162	160 .338	187.5	145
67791DGW/67720-67721D	Working Roll	177 .8	247 .65	192 .088	192 .088	231	186
KM238849D/KM238810-KM238810D	Working Roll	187 .325	269 .875	211 .138	211 .138	254.5	193.5
M240648DW/M240611-M240611D	Working Roll	198 .438	284 .162	225 .425	225 .425	267	208
67986D/67920-67921D-3	Working Roll	206 .375	282 .575	190 .5	190 .5	264.5	211
KM244249D/KM244210-KM244210D	Working Roll	220 .662	314 .325	239 .712	239 .712	296	232.5
M244249DGW/M244210-M244210D-XRS	Working Roll	220 .662	314 .325	239 .712	239 .712	297.5	229.5
M244249D/M244210-M244210D-2/C9	Working Roll	220 .662	314 .325	239 .712	239 .712	296	232.5
M244249DGW/M244210-M244210CD/C9	Working Roll	220 .662	314 .325	239 .712	239 .712	296	232.5
LM245149DGW/LM245110-LM245110D	In termediate Roll	228 .6	311 .15	200 .025	200 .025	294.5	238
8576DW/8520-8520D-3	Working Roll	234 .95	327 .025	196 .85	196 .85	308.5	246.5
KEE127097D/K127135-K127136D	Working Roll	241 .478	349 .148	228 .6	228 .6	328	255.5
KLM247748DW/KLM247710-KLM247710D	Working Roll	244 .475	327 .025	193 .675	193 .675	312	254.5
LM247748DW/LM247710-LM247710D	Working Roll	244 .475	327 .025	193 .675	193 .675	312	254.5
KLM247748DGW/KLM247710-KLM247710D/HG2-3	Working Roll	244 .475	327 .025	193 .675	193 .675	312	254.5
M249748D/M249710-M249710D	Working Roll	254	358 .775	269 .875	269 .875	339	267
M249748DW/M249710-M249710D	Working Roll	254	358 .775	269 .875	269 .875	339	267
K3M249748DW/K3M249710-K3M249710D-3	Working Roll	254	358 .775	269 .875	269 .875	339	267
EE134102D/134143-134144CD-3	Working Roll	260 .35	365 .125	228 .6	228 .6	344.5	273
KLM451349DW/KLM451310-KLM451310D	Working Roll	266 .7	355 .6	230 .188	228 .6	338	273
LM451349DW/LM451310-LM451310D	Working Roll	266 .7	355 .6	230 .188	228 .6	338	273

M252349DW/M252310-M252310D	In termediate Roll	269 .875	381	282 .575	282 .575	359.5	283
M252349DW/M252310-M252310D-3	Intermediate Roll	269 .875	381	282 .575	282 .575	359.5	283
KEE135111DW/K135155-K135156D	Intermediate Roll	279 .4	393 .7	269 .875	269 .875	370.5	293
EE135111D/135155-135156D	Intermediate Roll	279 .4	393 .7	269 .875	269 .875	370.5	293
EE135111DW/135155-135156DW/HEC9	Intermediate Roll	279 .4	393 .7	269 .875	269 .875	370.5	293
3806/279.4-XRS/HC	Working Roll	297 .4	393 .7	320	320	370	295.5
M255449DW/M255410-M255410D	Working Roll	288 .925	406 .4	298 .45	298 .45	383	302
M255449D/M255410-M255410D	Working Roll	288 .925	406 .4	298 .45	298 .45	383	302
M257248DW/M257210-M257210D	Working Roll	304 .902	412 .648	266 .7	266 .7	393	318
LM761648D/LM761610-LM761610D-3	Working Roll	341 .312	457 .098	254	254	434.5	355
LM761648D/LM761610-LM761610D	Working Roll	341 .312	457 .098	254	254	434.5	355
KEE971355DW/K972100-K972103D/HG2	Working Roll&Intermediate Roll	342 .9	533 .4	301 .625	307 .975	502	368.5
LM761649DW/LM761610-LM761610D	Working Roll&Intermediate Roll	343 .052	457 .098	254	254	434.5	351.5
LM761649D/LM761610-LM761610D-3	Working Roll&Intermediate Roll	343 .052	457 .098	254	254	434.5	351.5

Chamfer Dimensions				Calculation Coefficient				Basic Load Ratings (kN)		Weigh (kg)	Patterns
rmin (Axial Direction)	rmin (Radial Direction)	r1min (Axial Direction)	r1min (Radial Direction)	e	Y1	Y2	Yo	Cr	Cor		
1.5	1.5	3.3	3.3	0.344	1. 96	2. 92	0. 192	970	2370	20.2	Figure1
1.1	1.1	1.8	1.8	0.289	2. 33	3. 47	2. 28	695	1870	16.2	Figure1
1.5	1.5	3.3	3.3	0.44	1. 54	2. 29	1.5	1070	3000	28.6	Figure2
1.5	1.5	3.3	3.3	0.331	2. 04	3. 03	1. 99	1570	3430	41.5	Figure1
1.5	1.5	3.3	3.3	0.333	2. 03	3. 02	1. 98	1880	4200	46.6	Figure1
0.8	0.8	3.3	3.3	0.509	1. 33	1. 97	1.3	1030	2830	34.4	Figure1
1.5	1.5	3.3	3.3	0.333	2. 03	3. 02	1. 98	2090	4900	60.2	Figure1
3.8	1.5	3.3	3.3	0.333	2. 03	3. 02	1. 98	1750	4150	57.4	Figure3
1.5	1.5	3.3	3.3	0.333	2. 03	3. 02	1. 98	1790	4900	58.8	Figure1
1.5	1.5	3.3	3.3	0.333	2. 03	3. 02	1. 98	2000	4500	58.8	Figure2
1.5	1.5	3.3	3.3	0.33	2. 05	3. 05	2	1560	3650	43.9	Figure2
1.5	1.5	3.3	3.3	0.407	1. 66	2. 47	1. 62	1660	3830	50	Figure1
1.5	1.5	3.3	3.3	0.353	1. 91	2. 85	1. 87	2050	4350	71.9	Figure1
3.3	1.5	3.3	3.3	0.326	2. 07	3. 08	2. 02	1740	3930	42.7	Figure1
3.3	1.5	3.3	3.3	0.326	2. 07	3. 08	2. 02	1740	4050	42.7	Figure1
1.5	1.5	3.3	3.3	0.326	2. 07	3. 08	2. 02	1450	4050	44	Figure2
3.3	3.3	3.3	3.3	0.333	2. 03	3. 02	1. 98	2720	6050	88.9	Figure1
3.3	3.3	3.3	3.3	0.333	2. 03	3. 02	1. 98	2720	6050	88.9	Figure2

3.3	3.3	3.3	3.3	0.333	2. 03	3. 02	1. 98	2720	6050	88.9	Figure2
3.3	3.3	6.4	6.4	0.374	1.8	1. 69	1. 76	1900	4580	71.8	Figure1
3.3	1.5	3.3	3.3	0.36	1. 87	2. 79	1. 83	1950	5560	65.3	Figure1
3.3	1.5	3.3	3.3	0.36	1. 87	2. 79	1. 83	1950	5800	63.9	Figure1
3.3	3.3	3.3	3.3	0.333	2. 03	3. 02	1. 98	2930	7550	105	Figure1
3.3	3.3	3.3	3.3	0.333	2. 03	3. 02	1. 98	2340	7550	105	Fig urel
2	1.5	6.4	6.4	0.38	1. 77	2. 64	1. 73	2880	6200	103	Fig urel
1.5	1.5	6.4	6.4	0.38	1. 77	2. 64	1. 73	2880	6200	103	Fig urel
1.5	1.5	6.4	6.4	0.38	1. 77	2. 64	1. 73	2040	6200	103	Fig urel
		3.2	3.2	0.4	1. 69	2. 51	1. 65	2500	7200	120	Fig ure3
3.3	3.3	3.3	3.3	0.338	2	2. 97	1. 95	3400	8150	125	Fig urel
3.3	3.3	3.3	3.3	0.338	2	2. 97	1. 95	3400	8150	125	Fig urel
3.3	3.3	3.3	3.3	0.319	2. 12	3. 15	2. 07	2930	7000	102	Fig urel
2	1.5	3.3	3.3	0.47	1. 43	2. 14	1.4	2490	7050	112	Fig urel
2	1.5	3.3	3.3	0.47	1. 43	2. 14	1.4	2490	7050	112	Fig urel
3.3	3.3	3.3	3.3	0.333	2. 03	3. 02	1. 98	3660	8460	246	Fig urel
2	1.5	3.3	3.3	0.471	1. 43	2. 14	1.4	2670	7350	110	Fig urel
2	1.5	3.3	3.3	0.471	1. 43	2. 14	1.4	2260	7000	110	Fig urel

Designations	working position	Basic Dimensions(mm)					
		d	D	B	T	Da	da
LM761649DWSH/LM761610SH-LM761610DSH-3	Intermediate Roll	343 .052	457 .098	254	254	433.5	355.5
3806/368.3/HCEP59YAD	Vertical Roll	368 .3	523 .875	419 .96	419 .96	511	385.5
EE231475D/231975-231976D	Working Roll&Intermediate Roll	374 .65	501 .65	250 .825	260 .35	476.5	388
HM266449DW/HM266410-HM266410CD	Working Roll&Intermediate Roll	384 .175	546 .1	400 .05	400 .05	514.5	397
M667947DGW/M667911-M667911D/ZP-1	Working Roll	409 .575	546 .1	334 .962	334 .962	519	425
1-7016	Working Roll	409 .575	546 .1	334 .962	334 .962	519.5	425
M272647D/M272610-M272610D-3/C9	Back-up Roll	482 .6	647 .7	417 .512	417 .512	615.5	495
M270749DGW/M270710-M270710D	Backup Roll	447 .675	635	463 .55	463 .55	598.5	470
M270448DGW/M270410/DB-3	Backup Roll	449 .949	594 .949	368	368	567	465
EE425176D/425299-425299D-3	Working Roll&Backup Roll	456 .794	761 .873	527 .05	527 .05	708	495
LM272249DW/LM272210-LM272210D	Working Roll&Backup Roll	482.6	615. 95	330.2	330.2	593	494.5

M272647D/M272610-M272610D-3/C9	Backup Roll	482.6	647.7	417.512	417.512	615.5	495
M274149DW/M274110-M274110D	Working Roll&Backup Roll	501.65	711.2	520.7	520.7	669.5	525
LM274049DW/LM274010-LM274010D	Working Roll&Backup Roll	508	695. 325	415.925	415.925	662	531
3806/558X4-2RS/HCC9-1	Working Roll&Backup Roll	558.8	736.6	409.575	409.575	705	572.5
LM278849DGWX2/LM278810-LM278810D-XRS	Working Roll	585.788	771. 525	567	567	737	602
3806/595X4/HCP59YAB	Backup Roll	595.312	844. 55	615. 95	615.95	799	626
M280249DWA6-M280210A6-M280210D	Working Roll	603.25	857. 25	622.3	622.3	808	624.5
EE649241D/649310-649311D	Working Roll	609.6	787.4	361. 95	361.95	754	632.5
3806/660X4/HC	Working Roll	660.011	855. 015	319. 99	319.99	816.5	677
M282249D/M282210-M282210D	Working Roll	682.625	965.2	701.675	701.675	911.5	711
3806/707X4K/HC	Backup Roll	707.496	1079 .5	844. 55	844.55	1018	811.5
1-7029	Backup Roll	711	914.4	390	420	880.5	730.5
3806/711X4-XRS	Backup Roll	711.2	914.4	390	390	880.5	735
LM282847D/LM282810-LM282810D	Working Roll	717.55	946. 15	565. 15	565.15	903	742.5
3806/749.3/HC-JG	Working Roll	749.3	990.6	605	605	946.5	778.5
M284249DW/M284210-M284210D	Backup Roll	762	1079 .5	787.4	787.4	1018.5	799
LM286230T-46TD-49T/10/C9YA6	Backup Roll	803.803	1130 .3	717.551	717.551	1080.5	900

Chamfer Dimensions				Calculation Coefficient				Basic Load Ratings （kN）		Weigh （kg）	Patterns
rmin (Axial Direction)	rmin (Radial Direction)	r1min (Axial Direction)	r1min (Radial Direction)	e	Y1	Y2	Yo	Cr	Cor		
1.5	1.5	3.3	3.3	0.471	1. 43	2. 14	1.4	2800	6900	111	Fig ure1
		1.5	1.5	0.333	2. 03	3. 02	1. 98	5800	14900	284	Fig ure4
1.5	1.5	3.3	3.3	0.446	1. 51	2. 25	1. 48	3120	7550	141	Fig ure1
3.3	3.3	6.4	6.4	0.333	2. 03	3. 02	1. 98	6120	16400	310	Fig ure2
1.5	1.5	6.4	6.4	0.416	1. 62	2. 42	1. 59	4400	11500	213	Fig ure2

1.5	1.5	6.4	6.4	0.416	1. 62	2. 42	1. 59	3900	11700	201	Fig ure1
3.3	3.3	6.4	6.4	0.333	2. 03	3. 02	1. 98	7000	18700	383	Fig ure5
3.3	3.3	6.4	6.4	0.333	2. 03	3. 02	1. 98	8150	21000	485	Fig ure2
4	4	8	8	0.333	2. 03	3. 02	1. 98	4900	15700	300	Fig ure2
3.3	3.3	6.4	6.4	0.444	1. 52	2. 26	1. 49	10600	22900	973	Fig ure5
6.4	6.4	6.4	6.4	0.333	2.03	3.02	1.98	4860	15200	252	Fig ure5
3.3	3.3	6.4	6.4	0.333	2.03	3.02	1.98	7000	18700	383	Fig ure5
3.3	3.3	6.4	6.4	0.352	1.92	2.86	1.88	9690	26900	687	Fig ure6
3.3	3.3	6.4	6.4	0.333	2.03	3.02	1.98	5800	19600	464	Fig ure5
3.3	3.3	6.4	6.4	0.346	1.95	2.9	1.91	6500	20000	456	Fig ure7
		6.4	6.4	0.333	2.03	3.02	1.98	8100	26700	676	Fig ure3
3.3	3.3	6.4	6.4	0.333	2.03	3.02	1.98	13600	36900	1125	Fig ure2
				0.333	2.01	3	1.97	14000	38900	1172	Fig ure6
3.3	3.3	6.4	6.4	0.372	1.82	2.7	1.78	7100	22000	460	Fig ure1
12	12	5.2	5.2	0.516	1.31	1.95	1.28	4750	17000	495	Fig ure5
3.3	3.3	6.4	6.4	0.344	1.96	2.93	1.92	17400	50000	1714	Fig ure5
9.7	9.7	3.3	3.3	0.333	2.03	3.02	1.98	22500	65500	2581	Fig ure8
6.4	6.4	6.4	6.4	0.38	1.78	2.65	1.74	6200	19400	671	Fig ure8
		7.5	7.5	0.38	1.78	2.65	1.74	7900	20100	620	Fig ure3
3.3	3.3	6.4	6.4	0.333	2.03	3.02	1.98	13300	41000	1085	Fig ure5
4	4	8	8	0.319	2.12	3.15	2.07	13000	45300	1284	Fig ure6
4.8	4.8	12.7	12.7	0.328	2.06	3.06	2.01	20500	61900	2340	Fig ure5
9.7	9.7	3.3	3.3	0.333	2.03	3.02	1.98	19500	62000	2160	Fig ure8

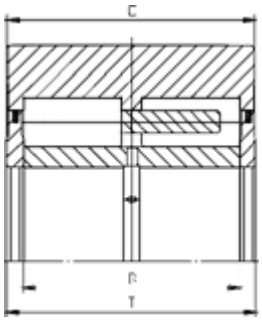


Figure1

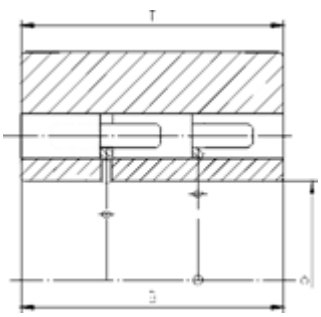


Figure2

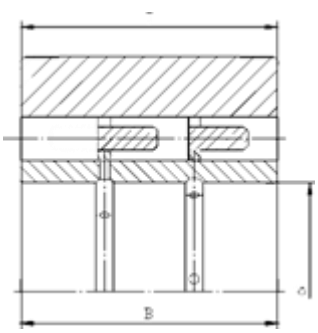
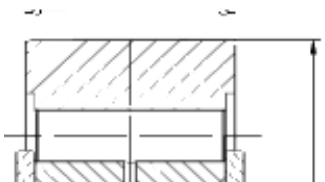


Figure3



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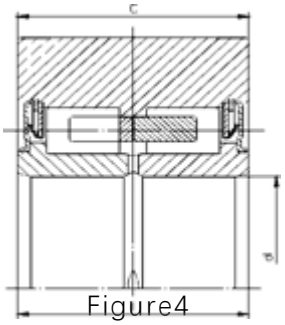
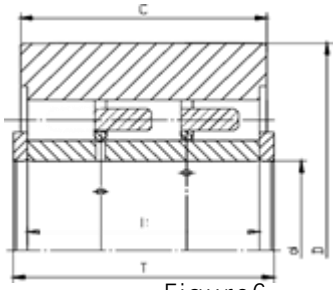


Figure4

Figure5



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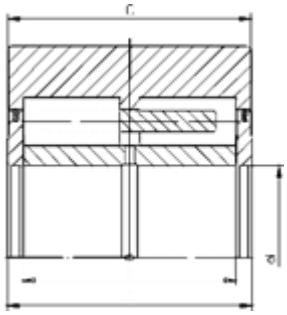
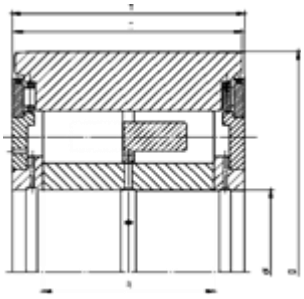


Figure7



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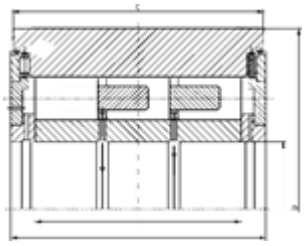


Figure9

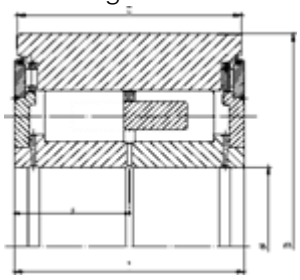
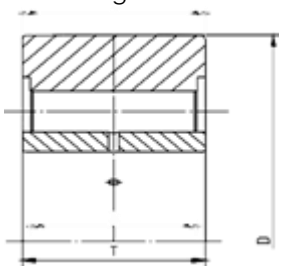


Figure10



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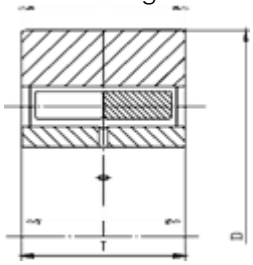


Figure12

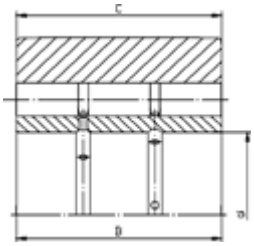


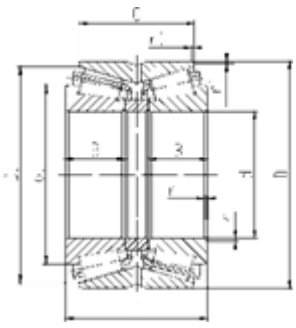
Figure10

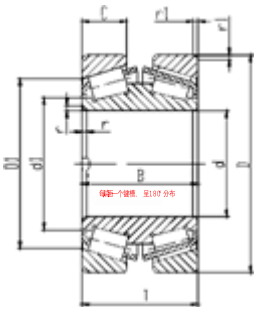
Designations	Basic Dimensions(mm)			Basic Load Ratings(kN)		Limit Speed Ratings(r/min)		Weigh (kg)	Patterns
	d	D	B	Cr	Cor	Grease Lubrication	Oil Lubrication		
BNPF102256/2RZ	50	110	56	194	309	4800	6000	2.9	Figure7
BNPF112564X1-2RZ	55	126	64	172	260	4800	6000	4.53	Figure7
BNUP112452	55	120	52	155	219	4800	6000	3.4	Figure5
BNUPA112452	55	120	52	171	237	4800	6000	33.5	Figure6
BKBF112452	55	120	52.2	168	372	4800	6000	3.5	Figure5
BNNB112460/BH1	55	120	60	208	356	4800	6000	3.8	Figure 11

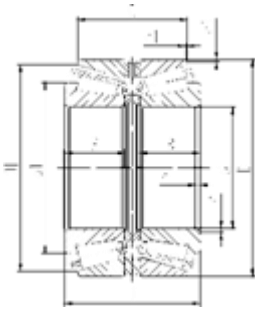
BNUP112464	55	120	64	206	317	4800	6000	4.2	Figure5
BNPF123075-2RZ	60	150	75	270	390	3800	4800	7.85	Figure7
BNNB123374	60	165	74	357	530	3800	4500	10	Figure 11
BNBA133370	65	165	70	361	472	3800	4500	9.5	Figure 12
BNUP143275	70	160	75	190	360	3600	4500	9	Figure5
BNUP143290/2RZ	70	160	90	347	550	3600	4500	10	Figure7
BNPF143290/2RZ	70	160	90	425	720	3600	4500	10.5	Figure7
BNTB143290/IS	70	160.02	90	393	695	3600	4500	10	Figure3
BNTF143290/IS	70	160.02	90	435	846	3600	4500	10.5	Figure3
BNTF143290	70	160.02	90	435	846	3600	4500	10.5	Figure 13
BNBA184494	90	220	94	690	1000	2600	3400	21.5	Figure 12
BNAF184494	90	220	94	762	1140	2600	3400	21	Figure 12
BNTBP1844120	90	220	120	625	1110	2600	3400	26.5	Figure6
BNTPF1844120	90	220	120	732	1360	2600	3400	27	Figure6
BNTF1844120	90	220.02	120	810	1600	2600	3400	27.5	Figure3
BNUP204596	100	225	96	543	830	2400	3000	22.5	Figure5
BNUP2045120/ 2RZ	100	225	120	672	1090	2400	3000	28	Figure7
BNPF2045120/2RZ	100	225	120	795	1370	2400	3000	28	Figure7
BNUP2045120/ BH1	100	225	120	272	1090	2400	3000	28	Figure7
BNPF2045120/BH1	100	225	120	795	1370	2400	3000	28	Figure5
BNTB2045120/IS	100	225	120	740	1410	2400	3000	24.5	Figure3
BNTF2045120	100	225	120	850	1700	2400	3000	28	Figure3
BNBA225298	110	260	98	782	1180	2000	2400	31	Figure 12
BNPBF2252110	110	260	110	849	1370	2000	2400	35	Figure5
BNBA2252125	110	260	125	1010	1630	2000	2400	40	Figure 12
SJ-NNUP130-2ZL	130	300.02	150	1450	2430	1800	2200	70.1	Figure1
SJ-TCNB130-1	130	300	172.664	1510	2790	1800	2200	72.9	Figure2
SJ-TCNB130	130	300	172.64	1720	2670	1800	2200	72.3	Figure2
SJ-TCNB130-2	130	300	172.64	1830	2900	1800	2200	73.6	Figure2
SJ-TCNB130/WN26	130	300	172.64	1720	2670	1800	2200	72.2	Figure3
BNUP2660150	130	300.02	150	1150	2150	1800	2200	61.5	Figure5

Designations	Basic Dimensions(mm)			Basic Load Ratings(kN)		Limit Speed Ratings(r/min)		Weigh (kg)	Patterns
	d	D	B	Cr	Cor	Grease Lubrication	Oil Lubrication		
BNUPA2260160	130	300.02	160	1250	2170	1800	2200	64.5	Figure5
BNTF2260160	130	300.02	160	1510	2770	1800	2200	65.5	Figure3
BNUP2660172	130	300.02	172.6	1480	2690	1800	2200	68	Figure5
BNTB2660172	130	300.02	172.6	1570	2910	1800	2200	72.5	Figure3
BNTF2660172	130	300.02	172.6	1670	3230	1800	2200	71.5	Figure3
BNUP2660172/ 2RZ	130	300.02	172.6	1320	2100	1800	2200	70	Figure7

BNUP2660172	130	300.02	172.6	1320	2100	1800	2200	70	Figure5
SJ-NNJ180-2RS	180	406.42	85. 52	1450	2770	1200	1500	125	Figure4
SJ-NP180	180	410	67.5	1250	2050	1200	1500	58.5	Figure5
SJ-TCNB180	180	406.42	171.04	2360	4050	1200	1500	130	Figure3
SJ-TCNP180	180	410	210	2500	4950	1200	1500	170	Figure6
BNPF3697212	180	485	145.7	2740	3680	1000	1300	230	Figure8
BNPF3697344	180	485	278	4550	7050	1000	1300	380	Figure9
BNUP3681171	180	406.4	171	1860	3120	1200	1500	130	Figure5
BNUP3681224/ 2RZ	180	406.4	224	2360	4250	1200	1500	170	Figure7
BNUP3681224/ BH1	180	406.4	224	2360	4520	1200	1500	170	Figure5
BNTPA3681171	180	406.42	171	1760	3270	1200	1500	130	Figure6
BNTB3681171/IS	180	406.42	171	1910	3640	1200	1500	130	Figure3
BNTF3681171/BH1	180	406.42	171	2020	3700	1200	1500	130	Figure3
BNTB3681217	180	406.42	217	2440	4370	1200	1500	165	Figure3
BNTB3681224	180	406.42	224	2440	4730	1200	1500	170	Figure3
BNTB3681224/BH2	180	406.42	224	2440	4730	1200	1500	170	Figure3
BNPF3897212X2	190	485.00	158	2950	3850	1000	1300	233	Figure8
BNPF3897350X2	190	485	154	4700	7000	1000	1300	381	Figure 10
BNUP4092171	200	460	171	1880	3340	1000	1300	166	Figure7
BNUP4092241	200	460	241	2660	5250	1000	1300	239	Figure7







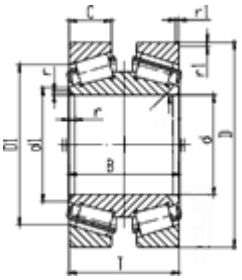
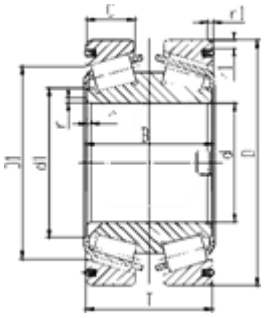


Figure1



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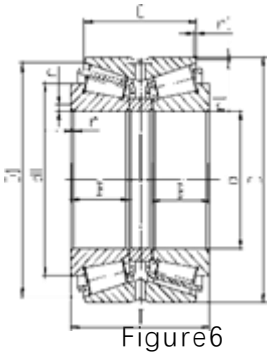

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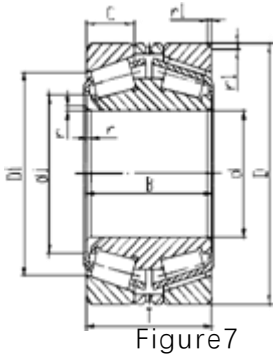

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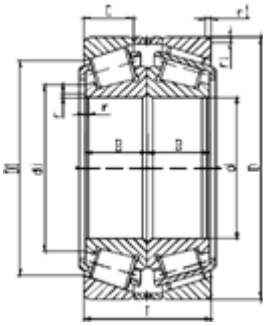

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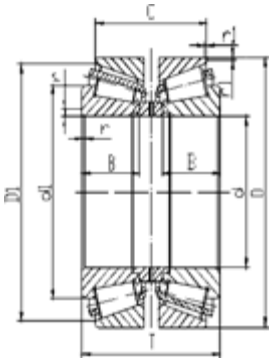

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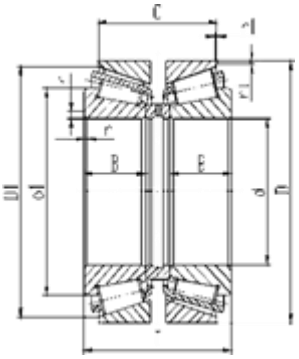

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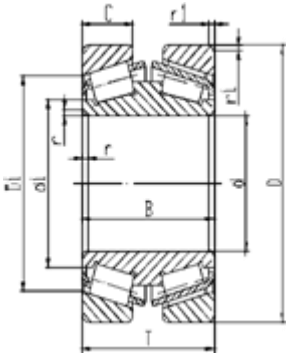

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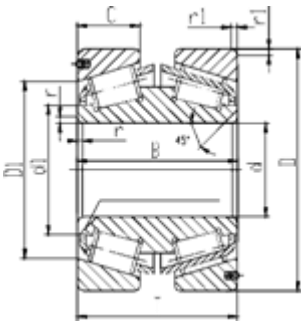
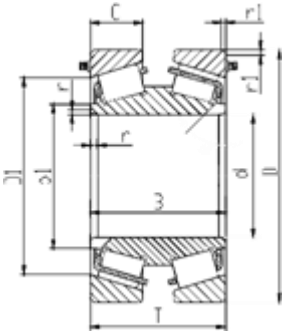


Figure9



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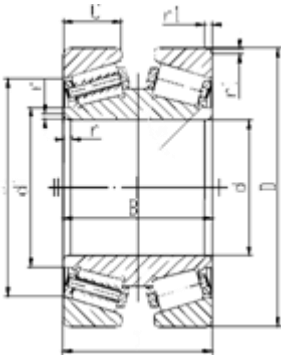

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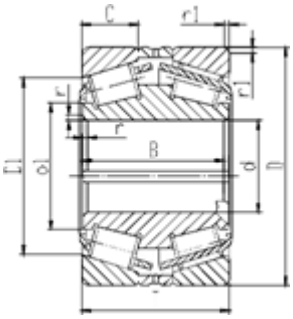


Figure12

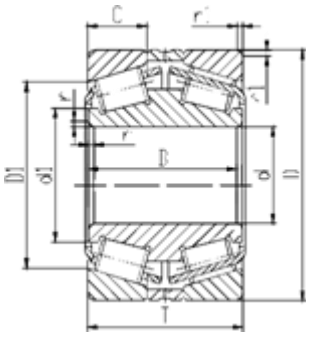


Figure13

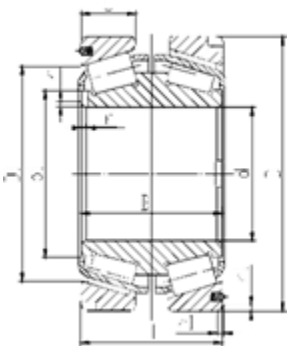


Figure14

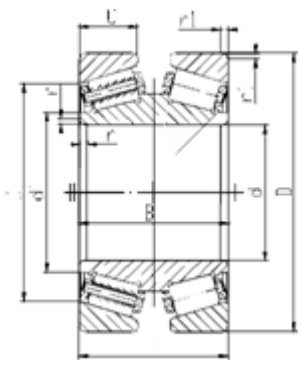


Figure15

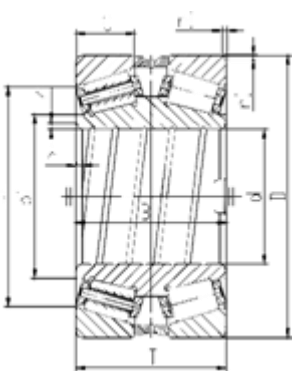


Figure16

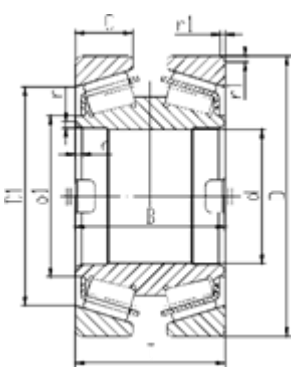


Figure17 Figure18 Figure19 Figure20

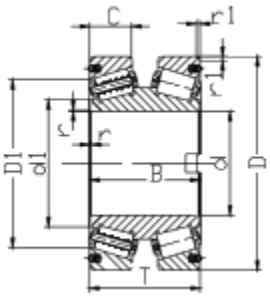


Figure21

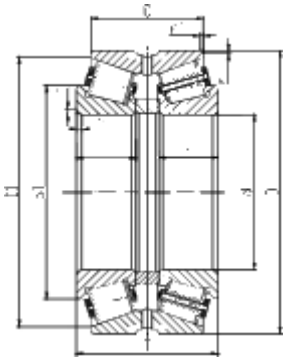


Figure22

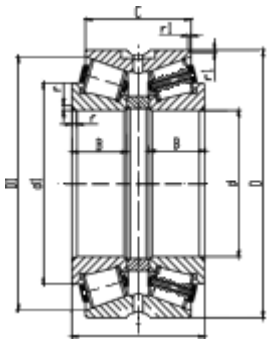
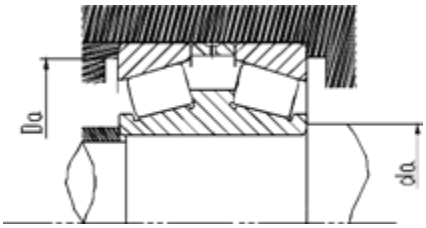
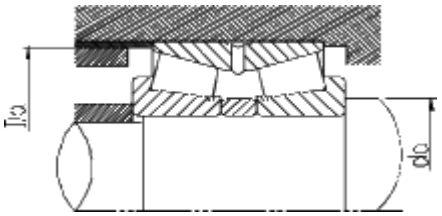


Figure23



Mounted



Mounted

Designations	working position	Basic Dimensions(mm)					
		d	D	B	T	rmin	r1min
352217X2-2	Working Roll	85	150	85	37	2.5	0.5
3706/101X4/HC/W281	Working Roll	101.6	251	145	145	1.5	3.3
KJHM522649/KJHM522610T103/DB	Gear Box	110	180	103	46	3	0.6
352124	Working Roll	120	200	110	48	2	0.6
KHM926747/KHM926710D	Gear Box	127	229	116	49	3.5	2.3
74525/74851CD	Gear Box	133	216	106	48	3.5	1.5

352028/HC	Working Roll	140	210	104	45	2.5	0.6
32028T100/DBYB2	Gear Box	140	210	100	45	2.5	0.5
370628D/HCYA3/W283	Working Roll	140	270	120	120	3	3
HM231149/HM231111CD	Gear Box	149	237	132	57	3.5	1.5
370632D/HC/W281	Intermediate Roll	160	343	160	160	3.3	3.3
370634-1/P59	Intermediate Roll	170	295	100	100	2.5	4
KEE222070/K222127CD	Gear Box	178	321	186	86	3.5	1.5
32936/DF	Straightening Roll	180	250	90	45	0.6	2
352036	Gear Box	180	280	142	64	3	1
352136	Vertical Roll	180	300	164	72	3	1
370636D/HCYA3	Intermediate Roll	180	330	190	190	1.5	5
H239649NA/239612D(KH239649/KH239612CD)	Working Roll	187	321	186	86	5.5	1.5
93787/93127D	Working Roll	200	318	146	64	4.3	1.5
KEE420801/K421451CD	Gear Box	203	368	194	89	3.3	1.5
352940	Gear Box	200	280	116	51	3	1
370642-FM	Back- up Roll	210	300	100	100	2	3
352044X2	Vertical Roll	220	340	164	72	4	1.1
370644/P59	Intermediate Roll	220	360	120	120	3	4
370646/HG2	Working Roll	230	350	92	92	3	4
KRM249736/M249710CD	Gear Box	237	359	152	71	6.4	1.5
32248/HCC9DBYAB	Working Roll	240	440	270	120	5	1.5
30648/HCC9DBY	Vertical Roll	240	420	205	88	5	
352048X2/HC-XRBL	Gear Box	240	360	165	72	4	1.1
KEE923095/923176	Working Roll	241	445	210	100	6.4	1.5
306/242/HCC9/DB	Vertical Roll	242	406	206	92	4	1
352052X2/HCYAD-XRBL	Gear Box	260	400	186	82	5	1.5
370652D/HC	Backup Roll	260	420	170	170	5	5
352952X2-3	Back- up Roll	260	360	92	40	3	1
HM252348/HM252310CD	Vertical Roll	260.35	422	179	80	6.8	1.5
KEE275108/K275156CD	Gear Box	273.05	394	157	70	6.4	1.5
EE722110/722186D	Working Roll	279.4	470	200	94	9.7	1.5

Other Dimensions (mm)		Basic Load Ratings (kN)		Calculation Coefficient				Weigh (kg)	Patterns
Da	da	Cr	Cor	e	Y1	Y2	Yo		
145	100	390	620	0.42	1. 61	2.39	1.57	5.96	Figure1
215	120	1050	1490	0.7	0. 96	1.44	0.94	35.1	Figure2
175	127 .5	545	1020	0.4	1. 69	2.51	1.65	9.81	Figure3

193	139	600	1060	0.3	2. 25	3.35	2.2	12.6	Figure1
221.5	155	720	1350	0.74	0. 91	1.36	0.89	19.1	Figure1
208.5	153 .5	550	1090	0.32	2. 11	3.14	2.06	13.7	Figure6
205	158	658	1170	0.46	1. 47	2.18	1.43	12.1	Figure1
205	158	580	1170	0.46	1. 47	2.18	1.43	12.4	Figure3
241.5	152 .5	1100	1600	0.7	0. 96	1.44	0.94	29.5	Figure4
228	169	815	1540	0.32	2. 11	3.14	2.06	20.1	Figure6
298	181 .5	1520	2290	0.81	0. 83	1.24	0.81	65.3	Figure5
267.5	188	860	1360	0.87	0. 78	1.16	0.76	27.8	Figure7
307.5	214	1400	2760	0.4	1. 69	2.51	1.65	61.5	Figure6
234	199	590	1430	0.48	1. 41	2.09	1.38	13.5	Figure8
272.5	205 .5	1070	2220	0.42	1. 61	2.39	1.57	29.8	Figure1
287	206 .5	1090	2350	0.26	2.6	3.87	2.54	39.9	Figure1
291	194	1800	3700	0.58	1. 16	1.73	1.14	71.6	Figure4
309	216	1590	2830	0.32	2. 11	3.14	2.06	55.4	Figure6
304.5	230	940	2270	0.52	1.3	1.93	1.27	40.8	Figure1
347.5	238	1530	2900	0.4	1. 69	2.51	1.65	78.8	Figure6
274	221 .5	750	1770	0.4	1. 69	2.51	1.65	21	Figure1
279	218	760	1780	0.57	1. 18	1.76	1.16	23.2	Figure7
329.5	247 .5	1530	2980	0.35	1.93	2.87	1.89	47.7	Figure1
327	235 .5	1000	2000	0.87	0. 78	1.16	0.76	47.5	Figure7
325.5	245 .5	795	1640	0.54	1. 25	1.86	1.22	31.9	Figure7
349.5	351	1530	3090	0.33	2. 05	3.05	2	53	Figure6
425.5	426 .5	3200	6300	0.43	1. 57	2.34	1.53	168	Figure9
404.5	404 .5	2550	4100	0.44	1. 53	2.28	1.5	105	Figure9
347	348	1400	3050	0.31	2. 18	3.24	2.13	53.2	Figure1
423.5	425	2480	4650	0.34	1. 99	2.96	1.94	135	Figure1
393.5	394 .5	2680	5000	0.43	1. 57	2.34	1.53	101	Figure 10
387.5	389	1850	4100	0.43	1. 57	2.34	1.53	80.7	Figure1
386.5	386 .5	1970	4050	0.48	1. 41	2.09	1.38	88.4	Figure 11
350.5	351 .5	630	1370	0.7	0. 96	1.44	0.94	25.5	Figure1
409	298	1800	3750	0.33	2. 05	3.05	2	89.1	Figure6
384	305	1170	2830	0.4	1. 69	2.51	1.65	56.3	Figure6
449.5	325 .5	2490	5000	0.38	1. 78	2.64	1.74	132	Figure1

Designations	working position	Basic Dimensions(mm)					
		d	D	B	T	rmin	r1min
352056X2	Backup Roll	280	420	186	82	5	1.3
370656	Backup Roll	280	389.5	92	92	4	4
M255449/M255410CD	Gear Box	288.925	406.4	165.1	77.788	6.4	1

370658D/HCEYAT	Intermediate Roll	290	450	180	180	3	4
370660D/HCYAD-1	Backup Roll	300	440	104.749	105	4	4
350660/C9	Backup Roll	300	460	140	62	5	1.5
352060X2/HC	Backup Roll	300	460	210	95	5	1.3
370660D/HCYAT	Backup Roll	300	440	105	105	4	4
351160X2-1/HC-XRBL	Gear Box	300	500	203	91	5	1.5
370660/HCC9	Backup Roll	300	560	170	170	5	5
HM256849/HM256810CD/YA1	Gear Box	300.038	422.275	174.625	82.55	6.4	1.5
3706/305X4D/HCEYAD	Backup Roll	305.034	499.948	200.025	200.025	3.3	6.4
3706/305X4	Working Roll&Backup Roll	305.07	500	200	200	6.4	4.8
3706/305X4D/HCYA3-2	Working Roll&Backup Roll	305.07	500	200	200	6.4	4.8
3706/305.2D	Working Roll&Backup Roll	305.2	500	200	200	6.4	4.8
HM259049/HM259010CD	Gear Box	317.5	447.675	180.975	85.725	3.5	1.5
KEE291250/K291751CD	Gear Box	317.5	444.5	146.05	61.912	8	1.5
350664/HCE	Back-up Roll	320	480	151	66.5	5	1.5
352064X2-1	Gear Box	320	480	215	100	5	1.1
HM261049/HM261010CD/YA1	Intermediate Roll Working	333	470	191	90	6	1.5
KHM261049D/KHM261010	Roll	333.375	469.9	166.688	166.688	3.3	3.3
352968X2A/HG2	Back-up Roll	340	460	160	72	4	1.5
KLM961548/KLM961511D	Gear Box	342.9	457.098	142.875	63.5	3.3	1.5
351072	Working Roll	360	540	185	82	5	1.5
371976	Back-up Roll	380	520	145	145	4	4
JM966741DW/JM966711W/ZP	Working Roll	380	576.5	180	180	2	4
M268730/M268710DC	Gear Box	381	590.55	244.475	114.3	6.4	1.5
HM266448/HM266410CD	Gear Box	384.175	546.1	222.25	104.775	6.4	1.5
3706/385	Working Roll	385	530	180	180	2	4
LM665949/LM665910CD	Working Roll	385.762	514.35	177.8	82.55	6.4	1.5
JM966748DWA/JM966711W	Back-up Roll	390	567.5	180	180	2	4
351980/HC	Back-up Roll	400	540	150	65	4	1.1
1-7017	Back-up Roll	400	650	240	240	6	6
351080X2-2/C9	Gear Box	400	600	185	80	6	2.5
370680D/HCEYAB	Back-up Roll	400	650	240	240	6.4	6.4
370680D/HCEYAD	Back-up Roll	400	650	240	240	6	6
370680D/HCEP6YAD-1	Back-up Roll	400	650	240	240	6	6

1

Other Dimensions（mm）		Basic Load Ratings（kN）		Calculation Coefficient				Weigh（kg）	Patterns
Da	da	Cr	Cor	e	Y1	Y2	Yo		
408	312 .5	1720	4000	0.37	1. 82	2.72	1.78	81.5	Figure1
365.5	292 .5	870	1880	0.82	0. 82	1.23	0.8	33.3	Figure7

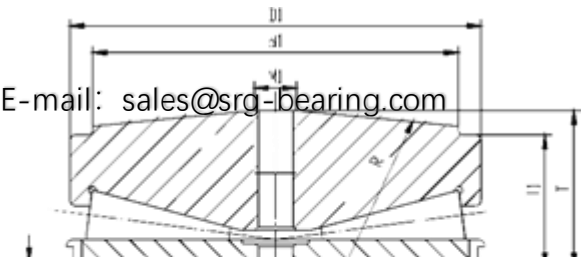
395.5	311 .5	1620	4100	0.34	1. 99	2.96	1.94	64.1	Figure1
404	302 .5	2150	4300	0.87	0. 78	1.16	0.76	103	Figure 12
408.5	317	980	2050	0.88	0. 77	1.14	0.75	55.4	Figure2
436.5	322	1450	3000	0.41	1. 65	2.45	1.61	63.2	Figure1
446	337 .5	2280	4890	0.36	1. 88	2.79	1.83	118	Figure1
408.5	317	1000	2050	0.88	0. 77	1.14	0.75	48.5	Figure 13
480	346	3000	4950	0.4	1. 69	2.51	1.65	148	Figure1
506.5	327 .5	3520	3800	0.81	0. 83	1.24	0.81	197	Figure 14
410.5	329	1560	4050	0.34	1. 99	2.96	1.94	69.7	Figure6
452.5	329	2630	4850	0.88	0. 77	1.14	0.75	143	Figure 15
451.5	322 .5	1870	3550	0.79	0. 85	1.27	0.84	122	Figure 15
451.5	321	2350	5020	0.88	0. 77	1.14	0.75	155	Figure2
451.5	322 .5	1870	3550	0.79	0. 85	1.27	0.84	115	Figure 15
435	350 .5	1800	4650	0.33	2. 05	3.05	2	85.4	Figure6
427.5	344	1240	2770	0.38	1. 78	2.64	1.74	59	Figure6
464.5	355	2090	3500	0.32	2. 11	3.14	2.06	88.9	Figure1
469	360	2500	5700	0.46	1. 47	2.18	1.43	129	Figure1
458	366 .5	2070	5080	0.33	2. 05	3.05	2.00	98	Figure6
443	348	2470	5900	0. 33	2. 05	3. 05	2	91. 5	Figure7
450.5	370	1600	4000	0.4	1. 69	2.51	1.65	70.5	Figure1
449	376 .5	1180	3550	0.7	0. 96	1.44	0.94	4.8	Figure1
522.5	400	2620	6300	0.37	1. 82	2.72	1.78	120	Figure1
494.5	394	2050	4950	0.38	1. 78	2.64	1.74	89.2	Figure 16
530	405	2450	6220	0.73	0. 92	1.38	0.9	155	Figure 17
574.5	442	3550	8800	0.33	2. 05	3.05	2	245	Figure6
531	422 .5	2910	8200	0.33	2. 05	3.05	2	160	Figure6
501	400	2220	5700	0.38	1. 78	2.64	1.74	116	Figure 16
503	418 .5	2050	5600	0.42	1. 61	2.39	1.57	100	Figure6
525.5	410	2450	6220	0.73	0.92	1.38	0.9	147	Figure 17
526.5	433	1650	3850	0.45	1.5	2.23	1.47	84.5	Figure1
591	427.5	3740	8400	0.87	0.78	1.16	0.76	299	Figure 18
578.5	445	2700	5850	0.37	1.82	2.72	1.78	168	Figure6
591	414	3450	8200	0.87	0.78	1.16	0.76	289	Figure2
593.5	425	3550	7300	0.87	0.78	1.16	0.76	279	Figure4
591	425	3400	8400	0.87	0.78	1.16	0.76	299	Figure 18

Designations	working position	Basic Dimensions(mm)					
		d	D	B	T	rmin	r1min
370680X2-2/HCC9YAB	Backup Roll	400	650	200	200	6	6

370680X2D/HCYAB-1	Back-up Roll	400	650	200	200	6	6
370680D/HCYA36	Backup Roll	400	650	240	240	2	6
370680D/HCYA3	Backup Roll	400	650	240	240	6	6
3706/406.4/HCYAD	Working Roll	406	762	330	330	3.3	6.4
EE911600/912401D	Gear Box	406	610	187	84	6.8	1.5
KM667947D/KM667910	Working Roll	410	546	162	162	1.5	6.4
M268749/M268710DC	Gear Box	416	591	244	114	6.4	1.5
351988	Backup Roll	440	600	170	74	4	1.1
371092	Backup Roll	460	680	230	230	4	4.0
351092	Working Roll	460	680	230	100	6	2.5
KM272749/KM272710D	Working Roll	479	679	276	129	6.4	1.5
351096	Backup Roll	480	700	240	100	6	2.5
EE640192/640261CD	Working Roll	489	660	206	94	6.4	1.5
3519/500/HC	Working Roll	500	670	180	78	5	1.5
3706/500-1/P59	Backup Roll	500	720	218	185	6	6
3510/500X2	Working Roll&Backup Roll	500	720	209	94	6	3
M274149/M274110DC	Gear Box	502	711	292	137	6.4	1.5
3706/509X4D/HCP5YAT	Backup Roll	510	733	200	200	3.3	4.8
M275349D/M275310	Vertical Roll	519	737	259	259	3.3	6.4
EE626210/626321D	Gear Box	533	813	270	124	9.7	3.3
LM377449/LM377410CD	Gear Box	559	737	225	105	6.4	1.5
3510/560	Working Roll	560	820	260	115	6	2.5
3706/570/HC	Working Roll	570	750	240	240	6	6
M278749/M278710D	Gear Box	572	813	333	156	6.4	1.5
3719/600X2	Working Roll&Backup Roll Working	600	800	190	190	5	4
3710/600	Roll&Backup Roll	600	870	270	270	6	6
1-7031	Backup Roll	635	940	305	305	3.3	6.4
3706/635/HC	Backup Roll	635	940	305	305	3.3	6.4
3706/635D/HC	Backup Roll	635	940	305	305	3.3	6.4
3706/635/HC-1	Backup Roll	635	940	305	305	3.3	6.4
KL281148/KL281110CD	Gear Box	660	813	203	95	6.4	1.5
3706/724/HC	Working Roll&Backup Roll	724	915	187	187	5	5
3519/750	Working Roll&Backup Roll	750	1000	264	112	6	2.5
3519/750X2	Working Roll&Backup Roll	750	1000	255	112	6	2.5
3706/800/HCC9	Working Roll&Backup Roll	800	1100	300	300	1.5	6
3706/900/HCYA6	Working Roll&Backup Roll	900	1220	300	300	3.3	12.7

Other Dimensions（mm）		Basic Load Ratings（kN）		Calculation Coefficient				Weigh（kg）	Patterns
Da	da	Cr	Cor	e	Y1	Y2	Yo		
592.5	427.5	2900	6250	1.05	0.64	0.96	0.63	264	Figure 19

596	432.5	2940	6450	0.87	0.78	1.16	0.76	244	Figure 20
591	425	3400	8400	0.87	0.78	1.16	0.76	299	Figure 18
591	427.5	3400	8400	0.87	0.78	1.16	0.76	299	Figure 18
679	450.5	6000	13100	0.75	0.9	1.34	0.88	660	Figure 21
587.5	452.5	2500	5500	0.38	1.78	2.64	1.74	169	Figure 22
519	422	2800	6550	0.41	1.65	2.45	1.61	104	Figure 16
574.5	460	2820	8050	0.33	2.05	3.05	2	205	Figure6
584.5	476.5	2300	5300	0.39	1.73	2.58	1.69	123	Figure1
629.5	475.5	3910	9400	0.61	1.11	1.65	1.08	293	Figure 14
656.5	508.5	3400	7450	0.31	2.18	3.24	2.13	253	Figure1
662.5	528	3800	10900	0.33	2.05	3.05	2	307	Figure1
677.5	529	3100	8200	0.41	1.65	2.45	1.61	272	Figure1
644.5	528.5	3000	7600	0.31	2.18	3.24	2.13	181	Figure6
653	541.5	1340	6200	0.43	1.57	2.34	1.53	158	Figure1
665.5	526	3000	7400	0.7	0.96	1.44	0.94	288	Figure 16
695.5	550	3250	7700	0.37	1.82	2.72	1.78	256	Figure1
693	550.5	4500	13400	0.35	1.93	2.87	1.89	355	Figure 23
683.5	537.5	3850	8400	0.87	0.78	1.16	0.76	265	Figure 21
694.5	538	5200	13300	0.33	2.05	3.05	2	352	Figure 16
784	604	4650	11100	0.44	1.53	2.28	1.5	470	Figure 22
720	600	4400	12800	0.35	1.93	2.87	1.89	256	Figure 23
794.5	619	2920	5700	0.42	1.61	2.39	1.57	449	Figure 22
706.5	584	3500	11800	0.5	1.35	2.01	1.32	287	Figure 16
793.5	630	7700	18000	0.33	2.05	3.05	2	529	Figure 22
757	614.5	3470	9200	0.61	1.11	1.65	1.08	270	Figure 14
809.5	619.5	5670	14300	0.61	1.11	1.65	1.08	726	Figure 14
862.5	670	5400	9400	0.82	0.82	1.23	0.8	721	Figure 14
862.5	655	5400	9400	0.82	0.82	1.23	0.8	721	Figure 14
862.5	670	5800	17000	0.82	0.82	1.23	0.8	697	Figure 18
858	663.5	5800	17000	0.88	0.77	1.14	0.75	762	Figure 14
798.5	698.5	3080	9900	0.33	2.05	3.05	2	212	Figure6
878	747	3450	11600	0.38	1.78	2.64	1.74	293	Figure 16
974	810	4900	15100	0.45	1.5	2.23	1.47	542	Figure 22
975	810	4900	15100	0.45	1.5	2.23	1.47	530	Figure 22
1025.5	825.5	7000	20700	0.8	0.84	1.26	0.83	862	Figure 14
1140	932.5	9100	23000	0.81	0.83	1.24	0.81	997	Figure 18



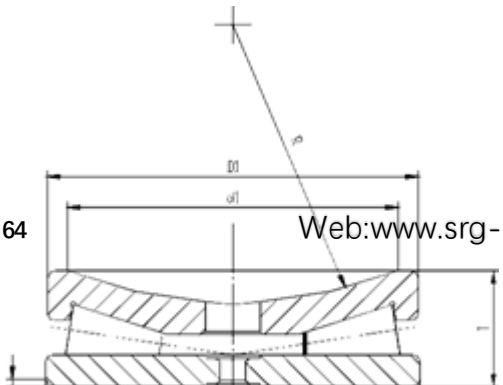
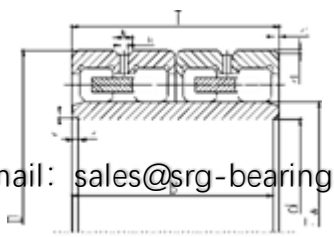
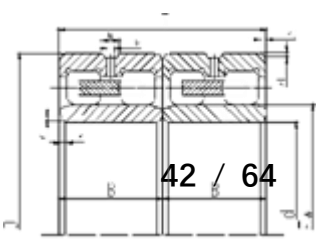


Figure 1

Figure 2

Designations		Dimensions(mm)				Other Dimensions （mm)	Axial Static Load				Axial Static Load	Weigh （kg)
Old Designations	Current Designations	D	D1	T	T1		R	M	M1	rmin		
4397/265/HC	TTSX265	265	263	95	81	265	609	M20		2.1	7750	33.9
4297/265	TTSV265	265	263	81			304.8	M20		2.4		
4297/330K	TTSV330K	330	328	95		330	381	M20		2.4	11500	51.4
4297/440	TTSV440	440	438	130		440	508	M24	M36	3	23300	137
4397/525	TTSX525	525	522	180	155	525	1270	M24	M36	3	36200	266
4297/525	TTSV525	525	522	155		525	635	M24	M36	3		
4297/580	TTSV580	580	577	165		580	710	M24	M42	3	41600	301
	THR581XY	581	579	194	168	581	1422.4	M24	M42	3.2	39000	338
4397/610	TTSX610	610	607	205	178	610	1524	M30	M42	3		
4297/610	TTSV610	610	607	178		610	762	M30	M42	3		
4397/640/HC	TTSX640	640	637	215	185	640	1520	M30	M42	3	48600	454
4297/640	TTSV640	640	637	185			762	M30	M42	3	49200	418
4397/750/HC/A1	TTSX750	750	745	260	225	750	1600	M30	M42	4	63900	747
4397/800	TTSX800	800	795	270	245	800	1700	M30	M48	5		
4397/900/HC	TTSX900	900	896	280	236	900	1800	M36	M48	6	94000	1150





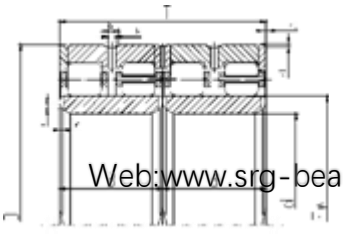
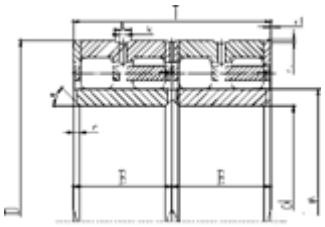
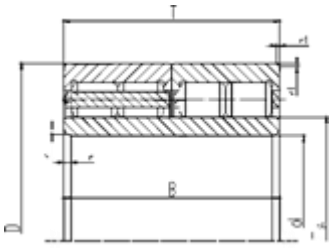


Figure1

Figure2

Figure3





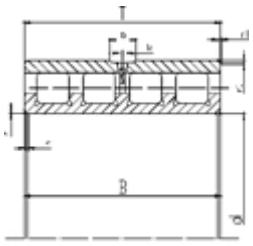
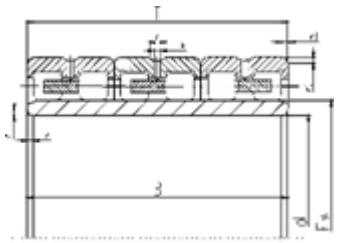
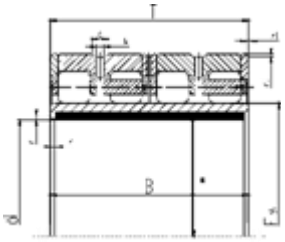


Figure4

Figure5

Figure6





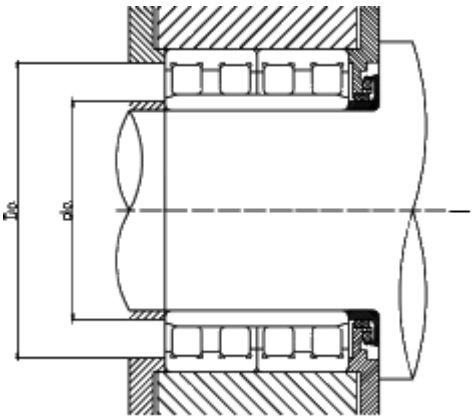


Figure7

Figure8

Mounted

Designations	Working Position	Basic Dimensions(mm)					
		d	D	B	C	r1min	Fw
FC182870	Working Roll	90	140	70	70	1.1	105
FC182870A	Working Roll	90	140	70	70	1.5	105
FC202870/YA3	Working Roll	100	140	70	70	1.1	111

FC202870A/YA3	Working Roll	100	140	70	70	1.5	111
FC2028104	Working Roll	100	140	104	104	1.1	111
FC2028104A	Working Roll	100	140	104	104	1.5	111
FC2234120A	Working Roll	110	170	120	120	2	127
FC2234120	Working Roll	110	170	120	120	2	127
FC2436105	Working Roll	120	180	105	105	2	135
FC2436105A	Working Roll	120	180	105	105	2	135
FC2640125	Working Roll	130	200	125	125	2	149
FC2640125A	Working Roll	130	200	125	125	2	149
FC2842125	Working Roll	140	210	125	125	2	158
FC2842125A	Working Roll	140	210	125	125	2	158
FC2842155K/C9YA3	Working Roll	140	210	155	155	2	166
FC2942155/YA3	Working Roll	145	210	155	155	2	166
FC2942155A/YA3	Working Roll	145	210	155	155	2	166
FC2945156/C3	Working Roll	145	225	156	78	2	169
FC3045120	Working Roll	150	225	120	120	2	169
FC3045120ZW/C9	Working Roll	150	225	120	120	2	169
FC3045120A	Working Roll	150	225	120	120	2	169
FC3045120A/YA3	Working Roll	150	225	120	120	2	169
FC3045150/HCYA34	Working Roll	150	225	150	150	2	169
SC3045180/C4	Working Roll	150	225	180	180	2	169
FC3046156	Working Roll	150	230	156	156	2	174
FC3046156A	Working Roll	150	230	156	156	2	174
FC3246130	Working Roll	160	230	130	130	1.5	180
FC3246130A/YA3	Working Roll	160	230	130	130	1.5	180
FC3246168/YA3	Working Roll	160	230	168	168	2.1	180
FC3246168A/YA3	Working Roll	160	230	168	168	2.1	180
FC3246168/HCC9YA34	Working Roll	160	230	168	168	2	179
FC3248124A/YA3	Working Roll	160	240	124	124	2.1	183
FC3248124/C9	Working Roll	160	240	124	124	2.1	183
FC3248124	Working Roll	160	240	124	124	2.1	183
FC3248124A	Working Roll	160	240	124	124	2.1	183
FC3248124A/YA31	Working Roll	160	240	124	124	2.1	183
FC3248124/YA31	Working Roll	160	240	124	124	2.1	183
FC3248168	Working Roll	160	240	168	168	2.1	183
NNQD6032X2/C4	Working Roll	160	240	168	84	2.1	183

Other related dimensions（mm）				Basic Load Ratings（kN）		Weigh（kg）	Patterns
Da	da	bmax	kmax	Cr	Cor		
130	99	6.5	4	253	425	3.78	Figure1
130	99	6.5	4	275	425	3.78	Figure1

131	107			209	435	3.10	Figure1
131	107			209	435	3.62	Figure1
131	107	8	4	330	775	4.99	Figure1
131	107	8	4	396	870	4.99	Figure1
157	120	6.5	4	583	1110	10.1	Figure1
157	120	6.5	4	534	1110	10.10	Figure1
168	129	6.5	4	413	770	9.13	Figure1
167	129	6.5	4	561	1100	9.13	Figure1
184	141 .5	6.5	4	583	1200	14.6	Figure1
184	141 .5	6.5	4	638	1200	14.6	Figure1
196.5	151	9.5	5	594	1160	14.7	Figure1
196	151	9.5	5	594	1050	14.7	Figure1
198.5	151	9.5	5	693	1610	18.1	Figure1
198.5	158			752	1610	18.3	Figure1
198	158			754	1800	18	Figure1
208.5	159	9.5	5	913	1800	23.6	Figure1
210	161 .5	9	4	710	1450	16.7	Figure1
211	161 .5	9	4	809	1620	17.9	Figure1
209.5	161 .5	9	4	781	1450	16.7	Figure1
209.5	161 .5	9	4	710	1450	16.7	Figure1
209.5	161 .5	9.5	4	900	1950	20.9	Figure1
209.5	161 .5	9	4	1010	2250	25	Figure7
214	164 .5	9.5	5	852	1790	23.6	Figure1
213.5	164 .5	9.5	5	1010	2090	23.6	Figure1
218	172			742	1705	16.9	Figure1
218	172			770	1620	17.3	Figure1
215.5	172			852	2170	22.1	Figure1
215	172	-	-	897	2200	2200	Figure1
214	171 .5	8.5	4	1070	2250	2250	Figure1
225	174	9	4	685	1530	1530	Figure1
225.5	174	9	4	810	1530	1530	Figure1
225.5	174	9	4	810	1530	1530	Figure1
225	174	9	4	810	1530	1530	Figure1
225	174	9	4	810	1530	1530	Figure1
225	174	9	4	810	1530	1530	Figure1
225.5	174	10	5	1060	2350	2350	Figure1
225	174			1240	2560	2560	Figure5

Designations	Working Position	Basic Dimensions(mm)					
		d	D	B	C	r1min	Fw
FC3248168A	Working Roll	160	240	168	168	2.1	183
FCD3345168X4/YA3	Working Roll	165.1	225.425	168.275	168.275	1.5	181

FCD3446160	Working Roll	170	230	160	160	2	185.5
FC3450170	Working Roll	170	250	170	170	2.1	192
FC3450170Q1/HG2YA4	Working Roll	170	250	170	170	2.1	192
FC3450170A	Working Roll	170	250	170	170	2.1	192
FC3452120	Working Roll	170	260	120	120	2.1	195
FC3452120A	Working Roll	170	260	120	120	2.1	195
NNQ6936X2V/YA7	Working Roll	180	250	133	133	2	234
FC3650156/C4YA4	Working Roll	180	250	156	156	2.1	200
FC3650156/YA34	Working Roll	180	250	156	78	2	200
FC3650156/YA3	Working Roll	180	256	156	156	2	198
FC3652124	Working Roll	180	260	124	124	2.1	202
FC3652168	Working Roll	180	260	168	168	2.1	202
FC3652168/YA3	Working Roll	180	260	168	168	2.1	202
FC3652168Q1/HG2YA4	Working Roll	180	260	168	168	2.1	202
FC3652168/C4YAD	Working Roll	180	260	168	84	2.1	202
FC3652168A	Working Roll	180	260	168	168	2.1	202
FC3652168A/YA3	Working Roll	180	260	168	168	2.1	202
FC3652168/YA31	Working Roll	180	260	168	168	2.1	202
FC3652180	Working Roll	180	260	180	180	2.1	202
FC3852168A	Working Roll	190	260	168	168	2.1	212
FC3852168/HCYA34	Working Roll	190	260	168	168	2.1	212
FC3854200/YA5	Working Roll	190	270	200	200	2.1	212
FC3854168	Working Roll	190	270	168	168	2.1	212
FC3854168/YA3	Working Roll	190	270	168	168	2.1	212
FC3854168Q1/HG2C9YA4	Working Roll	190	270	168	168	2.1	212
FC3854168A	Working Roll	190	270	168	168	2.1	212
FC3854168A/YA3	Working Roll	190	270	168	168	2.1	212
FC3854168AQ1/HG2C9YA4	Working Roll	190	270	168	168	2.1	212
FC3854170/YA3	Working Roll	190	270	170	170	2.1	212
FC3854170A/YA3	Working Roll	190	270	170	170	2.1	212
FC3854200	Working Roll	190	270	200	200	2.1	212
FC3854200A	Working Roll	190	270	200	200	2.1	212
FC4054170Q1/YA3	Working Roll	200	270	170	170	2.1	222
FC4054170Q1/HG2C4Y	Working Roll	200	270	170	170	2.1	222
FC4054170A/C4YA3	Working Roll	200	270	170	170	2.1	222
FC4054170/YAD	Working Roll	200	270	170	170	2.1	222
FC4056170/C4	Working Roll	200	280	170	170	2.1	222

Other related dimensions（mm）				Basic Load Ratings（kN）		Weigh（kg）	Patterns
Da	da	bmax	kmax	Cr	Cor		
225	174	10	5	1060	2350	2350	Figure1

213	175			785	1950	1950	Figure2
218.5	179	7.5	3	1210	2360	2360	Figure2
235	183	12	6	1280	2500	2500	Figure1
235	183	9.5	5	1280	2590	2590	Figure1
234	183	12	6	1380	2550	2550	Figure1
240.5	185	9.5	5	867	1790	1790	Figure1
240	185	9.5	5	867	1790	1790	Figure1
240	212 .5	12	6	1050	1870	1870	Figure6
253.5	192	9.5	6.5	1210	1770	1770	Figure1
236	192			1210	2315	2315	Figure1
238	191			1220	1950	1950	Figure1
244.5	193	9.5	5	809	1730	1730	Figure1
244.5	193	12	6	1180	2790	2790	Figure1
244.5	193	12	6	1180	2790	2790	Figure1
244.5	193	9.5	5	1530	2790	2790	Figure1
243	193			1180	2790	2790	Figure1
244	193	12	6	1180	2790	2790	Figure1
244	193	12	6	1180	2790	2790	Figure1
246.5	193	9.5	5	1180	2790	2790	Figure1
244.5	193	12	6	1250	3000	3000	Figure1
246.5	203	9.5	5	1450	2600	2600	Figure1
246.5	203	8	4	1000	2600	2600	Figure1
254	203	15	5	1280	3150	33.4	Figure1
255	203	9.5	5	1420	2430	30.2	Figure1
255	203	9.5	5	1420	2430	29.9	Figure1
255	203	9.5	5	1420	2430	30.8	Figure1
254	203	9.5	5	1420	2430	31.9	Figure1
254	203	9.5	5	1420	2430	31	Figure1
254	203	9.5	5	1420	2430	30.8	Figure1
255	203	9.5	5	1430	2430	30.2	Figure1
254	203	9.5	5	1430	2650	31.8	Figure1
255	203	15	7	1520	3180	35.0	Figure1
254	203	15	7	1580	3275	35	Figure1
255.5	213	9.5	5	1120	2270	28.7	Figure1
255.5	213			1120	2270	28.7	Figure1
256.5	213	9.5	5	1120	2740	28.7	Figure1
254.5	213	9	4	950	2780	29.2	Figure1
264	213	9.5	5	1110	3000	33.3	Figure1

Designations	Working Position	Basic Dimensions(mm)					
		d	D	B	C	r1min	Fw
FC4056200/YA3	Working Roll	200	280	200	200	2.1	222

FC4056188	Working Roll	200	280	188	188	2.1	222
FC4056188A	Working Roll	200	280	188	188	2.1	222
FC4056200/P6YA34	Working Roll	200	280	200	200	2.1	222
FC4058192	Working Roll	200	290	192	192	2.1	226
FC4058192/YA4	Working Roll	200	290	192	192	2.1	226
FC4058192A	Working Roll	200	290	192	192	2.1	226
FC4058192A/YA4	Working Roll	200	290	192	192	2.1	226
FC4062175/YA3	Back-up Roll	200	310	175	175	2.1	229
FC4260210	Working Roll	210	300	210	210	2.1	234
FC4260210/C9YA4	Working Roll	210	300	210	210	2.1	234
FC4260210A	Working Roll	210	300	210	210	2.1	234
FC4260210A/C9YA4	Working Roll	210	300	210	210	2.1	234
FC4460192/C4YA4-1	Working Roll	220	300	192	192	2.5	242
FC4462192/YA3	Working Roll	220	310	192	192	2.1	246
FC4462192	Working Roll	220	310	192	192	2.1	246
FC4462192A	Working Roll	220	310	192	192	2.1	246
FC4462192A/YA3	Working Roll	220	310	192	192	2.1	246
FC4462225	Working Roll	220	310	225	225	2.1	244
FC4462225F3/YA3	Working Roll	220	310	225	225	2.1	246
FC4464210/YA3W33	Working Roll	220	320	210	210	2.1	248
FC4464210/YA3	Working Roll	220	320	210	210	2.1	248
FC4464210A/YA3	Working Roll	220	320	210	210	2.1	248
FC4468200/YB2	Working Roll	220	340	200	200	4	250
FC4468192/YA3	Back-up Roll	220	340	192	192	2.1	250
FC4666206/YA3	Working Roll	230	330	206	206	2.1	260
FC4666206/C4YAD	Working Roll	230	330	206	103	2.1	258
FC4666206A/YA3	Working Roll	230	330	206	206	2.1	260
FC4668260/HCYA3-SY	Working Roll	230	340	260	260	2.1	261
FC4668260/HCYA3	Working Roll	230	340	260	260	2.1	261
FC4866220/YA3	Working Roll	240	330	220	220	2.1	264
FC4866220	Working Roll	240	330	220	220	2.1	264
FC4866220A	Working Roll	240	330	220	220	2.1	264
FC4866220A/HG2	Working Roll	240	330	220	220	2.1	264
FC4866220A/YA3	Working Roll	240	330	220	220	2.1	264
FCD4866220	Working Roll	240	330	220	220	2.1	264
FC4868192A1	Working Roll	240	340	192	192	2.1	265
FC4868192A	Working Roll	240	340	192	192	2.1	265
FC4870224/HG2YAD	Working Roll	240	350	224	224	3	270

Other related dimensions（mm）				Basic Load Ratings（kN）		Weigh（kg）	Patterns
Da	da	bmax	kmax	Cr	Cor		

264	213	9.5	5	1340	3400	38.8	Figure1
265	213	9.5	5	1430	2580	35.7	Figure1
264	213	9.5	5	1560	3000	35.9	Figure1
264	213	9.5	5	1340	3400	38.8	Figure1
273	216	15	6	1460	3250	40.9	Figure1
272.5	216	15	6	1490	3300	40.9	Figure1
272.5	216	15	6	1460	3695	40.9	Figure1
272.5	216	15	6	1460	3350	41.3	Figure1
286	217 .5	9.5	5	1420	3050	49.8	Figure1
282.5	224 .5	9.5	5	1560	3950	48.3	Figure1
282.5	224 .5	9.5	5	1560	3950	48.3	Figure1
281	224 .5	9.5	5	1780	4140	48.3	Figure1
281	224 .5	9.5	5	1780	4140	48.3	Figure1
283	233	9.5	5	1280	3390	39.8	Figure1
293.5	236	15	6	1600	1910	45.8	Figure1
293.5	236	15	6	1600	1910	45.8	Figure1
292.5	236	15	6	1600	3600	46.2	Figure1
292.5	236	15	6	1600	3600	46.1	Figure1
292	234 .5	–	–	1850	4050	53.9	Figure1
290.5	236	5.5	3.5	1500	4000	54	Figure1
299.5	237	12.5	5	1500	4000	57.6	Figure1
300	237			1900	3800	56.5	Figure1
299.5	237			1900	4000	58.2	Figure1
320.5	238	15	6	1950	3550	63.4	Figure1
314.5	238	9.5	5	1620	3390	64.6	Figure1
309.5	248	9.5	5	1780	3800	56.5	Figure1
307.8	247			1880	4350	59.1	Figure1
309	248	9.5	5	1880	4350	57.8	Figure1
317.5	249	9.5	5	2120	5350	82.1	Figure1
317.5	249	9.5	5	2120	5350	82.1	Figure1
312.5	254 .5	9.5	5	1780	4850	56.5	Figure1
312.5	254 .5			1780	4850	56.7	Figure1
311	254 .5			1960	5335	57.1	Figure1
311	254 .5			1960	5335	57.1	Figure1
311	254 .5			1960	5335	56.8	Figure1
311	254 .5	9.5	5	1780	4850	57.1	Figure2
320.5	255	9.5	5	1440	3380	52.8	Figure1
319	255	9.5	5	1540	3650	54.7	Figure1
326	258	9.5	6	1850	4600	75.1	Figure1

Designations	Working Position	Basic Dimensions(mm)					
		d	D	B	C	r1min	Fw

FC4872220	Working Roll	240	360	200	200	2.1	272
FC4872220A/C4YA3	Working Roll	240	360	220	220	2.5	272
FC4872220Q1/HG2YA4	Working Roll	240	360	220	220	2.1	272
FC4872220A	Working Roll	240	360	220	220	2.1	272
FC4872220AQ1/HG2YA4	Working Roll	240	360	220	220	2.1	272
FCD5068230/HCOC4YA34	Working Roll	250	340	230	230	3.5	276
FC5070220/YA3	Working Roll	250	350	220	220	3	278
FC5070220A/YA3	Working Roll	250	350	220	220	3	278
FC5072220/YA3	Working Roll	250	360	220	220	3	282
FC5072220A/YA3	Working Roll	250	360	220	220	3	282
FC5272200/YA3B2	Working Roll	260	360	200	200	3	288
FC5272200A/YA3B2	Working Roll	260	360	200	200	3	288
FCD5274200/C4YAB	Working Roll	260	370	100	100	3	290
FC5274200	Working Roll	260	370	200	200	3	292
FC5274200A	Working Roll	260	370	200	200	3	292
FC5274220/YA3	Working Roll	260	370	220	220	3	292
FC5274220	Working Roll	260	370	220	220	3	292
FC5274220A	Working Roll	260	370	220	220	3	292
FC5274220A/YA4	Working Roll	260	370	220	220	3	292
FC5274220/YA4-1	Working Roll	260	370	220	220	3	292
FC5276280/HCYA3-SY	Intermediate Roll	260	380	280	280	3	294
FC5276280/HCYA3	Intermediate Roll	260	380	280	280	3	294
FC5276220/C4YA4	Working Roll&Intermediate Roll	260	380	220	220	3	290
FCD5280290/P63YA3	Working Roll&Intermediate Roll	260	400	145	145	4	296
FC5476230/YA3	Working Roll&Intermediate Roll Working	270	380	230	230	3	298
FC5476230A	Roll&Intermediate Roll Working	270	380	230	230	3	298
FC5476230A/YA3	Roll&Intermediate Roll Working	270	380	230	230	3	298
FC5478236	Roll&Intermediate Roll Working	270	390	236	230	3	312
FC5478236A	Roll&Intermediate Roll	270	390	236	230	3	312
FC5675200/YA3	Working Roll&Intermediate Roll Working	280	375	200	200	3	306
FCD5678275	Roll&Intermediate Roll Working	280	390	275	275	3	308
FC5678220	Roll&Intermediate Roll Working	280	390	220	220	3	312
FC5678220A	Roll&Intermediate Roll Working	280	390	220	220	3	312
FC5678220/YA3	Roll&Intermediate Roll Working	280	390	220	220	3	312
FC5678220A/YA3	Roll&Intermediate Roll Working	280	390	220	220	3	312
FC5678240/C4YA34	Roll&Intermediate Roll Working	280	390	240	240	3	312
FCDP5678275	Roll&Intermediate Roll Working	280	390	275	275	1.1	308
FCD5678275/C3YA34	Roll&Intermediate Roll Working	280	390	275	275	3	308
FCD5680244F3/YAD	Roll&Intermediate Roll Working	280	400	244	244	7.5	312

Other related dimensions（mm）	Basic Load Ratings（kN）		Patterns

Da	da	bmax	kmax	Cr	Cor	Weigh (kg)	
334.5	259	12	6	1870	4410	78.0	Figure1
336	259			1870	4410	78.0	Figure1
336	259	9.5	5	2430	4410	78.4	Figure1
334	259	12	6	1930	4600	79.1	Figure1
334	259	12	6	2530	4850	79.1	Figure1
323	266	9.5	5	1750	4700	60.8	Figure2
329.5	267	9.5	5	1740	4980	65.5	Figure1
329.5	267	9.5	5	1840	4980	67.5	Figure1
336	269	9.5	5	1650	4250	76.9	Figure1
336	269	9.5	5	1710	4670	76.8	Figure1
340.5	277	9.5	5	2000	4650	63.0	Figure1
339.5	277	9.5	5	2000	4650	63	Figure1
347	278	-	-	1710	4100	73	Figure2
349	279	15	6	2050	4250	73	Figure1
348	279	15	6	2150	4250	73.8	Figure1
349	279	9.5	5	2100	4900	79.2	Figure1
349	279	9.5	5	2100	4900	80	Figure1
348	279	9.5	5	2150	4900	80.4	Figure1
346	279	9.5	5	2100	4800	78.7	Figure1
346	279	9.5	5	1810	4800	78.7	Figure1
353	280	9.5	5	2640	6050	111	Figure1
353	280	9.5	5	2640	6050	111	Figure1
351	278			2150	4750	87.9	Figure1
371	282	9.5	5	1800	1720	136	Figure2
359.5	287	9.5	5	1890	4800	80.2	Figure1
357.5	287	9.5	5	1970	4800	82.1	Figure1
357.5	287	9.5	5	1970	4800	81.9	Figure1
0.67	295	9.5	5	2310	5950	97.8	Figure1
366	295	9.5	5	2310	5950	98.3	Figure1
354.5	296	9.5	5	1700	4800	62.9	Figure1
364.5	297	9.5	5	2360	6650	105	Figure2
369	299	12	6	2130	5150	86.5	Figure1
366	299	12	6	2130	5200	89	Figure1
369	299	12	6	2680	5000	86.6	Figure1
366	299	12	6	2130	5200	88.6	Figure1
368.5	299	12	6	2570	5850	89.6	Figure1
368.5	397	9.5	5	2930	6250	102	Figure4
367.5	397	9.5	5	2930	6250	102	Figure2
374	299	15	8	2300	6000	102	Figure2

Designations	Working Position	Basic Dimensions(mm)

		d	D	B	C	r1min	Fw
FC5684280	Roll&Intermediate Roll	280	420	280	280	4	318
FC5882240/C4YA3	Back-up Roll	290	410	240	120	4	320
FCD5884300	Back-up Roll	290	420	300	300	4	327
FC6084240	Working Roll	300	420	240	240	4	332
FC6084240YA3	Working Roll	300	420	240	240	4	332
FC6084240A	Working Roll	300	420	240	240	4	332
FC6084240A/YA3	Working Roll	300	420	240	240	4	332
FCD6084300/YA34	Working Roll	300	420	300	300	3	332
FC6084218/C4YA4	Working Roll	300	420	218	218	4	332
FCD6084300/HCYA4	Working Roll	300	420	300	300	3	332
FCDP6084300F3/YAD	Back-up Roll	300	420	300	300	3	332
FCD6092350ZWF3/HCYAD	Back-up Roll	300	460	350	350	4	340
FCD6488240	Back-up Roll	320	440	240	240	4	351
FC6490240/YA3	Working Roll&Back-up Roll	320	450	240	240	4	355
FC6490240/C4YA3	Working Roll&Back-up Roll	320	450	240	240	4	355
FCD6492240ZW/YA34	Working Roll	320	460	240	240	3	364
FCD6496350F3/HCYA34	Working Roll	320	460	350	350	4	364
FCD6692340	Working Roll&Back-up Roll	330	460	340	340	4	365
FCD6890250/C3YA4	Back-up Roll	340	450	250	125	4	371
FC6890250/YA4-2	Back-up Roll	340	450	250	250	4	366
FCD6890250/C9YA4-1	Working Roll	340	450	250	125	4	371
FC6890250/C3YAD	Working Roll	340	460	250	250	4	369
FCDSP70100380/HC	Working Roll	350	500	380	380	3	388
FCD7296340/HCC4YB2	Working Roll&Back-up Roll	360	480	340	340	4	392
FCD72102370	Working Roll&Back-up Roll	360	510	370	370	4	397
FCD72102370/YA4	Working Roll&Back-up Roll	360	510	370	370	4	399.5
FCDP74104380	Working Roll	370	520	380	380	1.5	409
FCDP74106400/HCG2IC4	Working Roll	370	570	400	400	4	413
FCDP75120440/P63	Backup Roll	375	600	440	440	2	470
FCD76104340/HCYA3	Working Roll	380	520	340	340	4	416
FCDP78108320/YA3	Working Roll	390	540	320	320	° 2	431
FC80110300	Back-up Roll	400	550	300	300	5	442
FC80110300A	Back-up Roll	400	550	300	300	5	442
FCD80112410/HCYA34	Back-up Roll	400	560	410	410	5	445
FCDP82112400/HCYAD	Back-up Roll	410	560	400	400	2	450
FCDP82120440-ZH	Back-up Roll	410	600	440	440	5	460
FCDP84120440/HCP6YA34	Working Roll&Back-up Roll	420	600	440	440	5	470
FCD84124400/HCC4	Working Roll&Back-up Roll	420	620	400	400	5	473
FCDP88124450	Working Roll&Back-up Roll	440	620	450	450	5	487

Other related dimensions（mm）				Basic Load Ratings（kN）		Weigh（kg）	Patterns
Da	da	bmax	kmax	Cr	Cor		

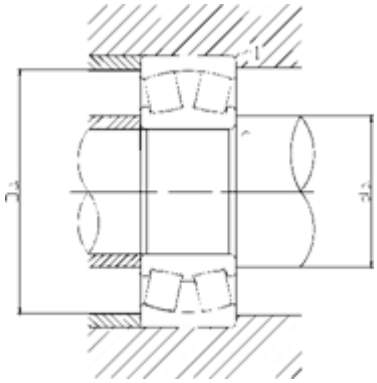
391.5	303	12	6	3500	7000	139	Figure1
384.5	308	15	8	2340	5900	102	Figure1
391	312	12	6	2800	7850	144	Figure2
397	319	15	8	3450	6300	111	Figure1
397	319	15	8	3450	6300	111	Figure1
396	319	15	8	3450	6300	111	Figure1
396	319	15	8	3450	6300	111	Figure1
397	319	12	6	3550	6800	129	Figure2
396	319	9.5	5	2270	5700	94.3	Figure1
397	319	12	6	2650	6950	129	Figure2
403	319	12	6	3750	8800	133	Figure2
423	324	20	10	4100	10500	226	Figure5
415	339	12	6	2550	6700	110	Figure2
427	341	12	6	2760	6720	119	Figure1
426	341	12	6	2970	6720	120	Figure1
434	346 .5			2700	7050	141	Figure5
440	346 .5	16	8	5150	10500	230	Figure2
433.5	351	12	6	2780	9950	210	Figure2
429.5	359	12	6	2420	7240	115	Figure2
424.5	356	12	6	2460	7250	112	Figure1
426	359	12	6	2420	7500	109	Figure2
433	357	12	6	2430	6820	105	Figure1
470	373	12	6	4030	10200	225	Figure2
456.5	379	12	6	3700	11300	172	Figure2
480	382	12	6	4950	11400	220	Figure2
481	384	12	6	4950	11300	241	Figure2
492	393	12	6	5230	12000	296	Figure4
523.5	396	12	6	4650	12600	299	Figure4
570	432	15	6	5350	15600	527	Figure4
488.5	402	12	6	4300	10700	211	Figure2
520	415	15	8	3800	10100	230	Figure4
526	421	12	6	4460	5050	223	Figure1
524.5	421	12	6	4640	5450	225	Figure1
534.5	422 .5	13	7	5200	15000	320	Figu re2
541	430	16.7	9	5600	14400	286	Figu re4
575	435	20	10	6450	18300	432	Figu re3
577	445	22	10	7100	19500	416	Figu re3
585	446 .5	15	8	5800	15400	423	Figu re2
592	463 .5	15	8	7420	15800	452	Figu re4

Designations	Working Position	Basic Dimensions(mm)					
		d	D	B	C	r1min	Fw
FCDP88124450/YA6	Working Roll&Back-up Roll	440	620	450	450	5	487
FC88132340ZW/HCC4YA3	Working Roll&Back-up Roll	440	660	340	340	6	492
FCDP92130470/HCYAD/W283	Back-up Roll	460	650	470	470	3	509
FCD96130450	Working Roll&Back-up Roll	480	650	450	450	6	525
FCDP96136500/P54	Working Roll&Back-up Roll	480	680	500	500	6	532.0
FCDP97148540K/HCE	Back-up Roll	485	740	540	540	5	572.3
FC100134450/P69	Working Roll&Back-up Roll	500	670	450	450	6	540.0
FCD100134450/P69HCYA3	Working Roll&Back-up Roll	500	670	450	450	6	540.0
FCDP100134450/HCEC9YAD	Working Roll	500	670	485	485	5	540.0
FCDP100134450/HCC9YAD	Back-up Roll	500	670	450	450	5	540.0
FCDP100144530/HCYAD-1/W283	Back-up Roll	500	720	530	530	6	568.0
FCDP102136500/HCYAD	Backup Roll	510	680	500	500	5	560
FCDP102146520/HCC4YB2	Working Roll	510	730	520	520	6	565.0
FCDP104147535/HCYAD	Working Roll&Back-up Roll	520	735	535	535	5	574.5
FCDP106142520/HCC3	Back-up Roll	530	710	520	520	6	578.0
FCDP106152520/HCRG2YAD	Back-up Roll	530	760	520	520	5	587
FCDP106156570/HCEYAD	Back-up Roll	530	780	570	570	6	595
FCDP110160560/HCYAD-1/W283	Back-up Roll	550	800	560	560	6	610
FCDP112160600/HCP5YAD	Back-up Roll	560	800	600	600	6	620
FCDP112164630/HCC4YA3	Back-up Roll	560	820	630	630	6	625
FC114150530/HCYA3	Working Roll&Back-up Roll	570	750	530	530	6	622
FCDP114163594/HCYA3	Working Roll&Back-up Roll	570	815	594	594	6	628
FCDP120164575/HCYA6-1	Back-up Roll	600	820	575	575	6	660
FCDP120164575/HCYA6	Back-up Roll	600	820	575	575	3	660
FCDP120164575/HCRYA6	Back-up Roll	600	820	575	575	3	660
FCDP120174540/HCYAD-FSDT	Back-up Roll	600	870	540	540	6	672
FCDP120174640/HCYAD/W283	Back-up Roll	600	870	640	640	6	672
FCDP120174640/HCYA34	Back-up Roll	600	870	640	640	6	669
FCDP122174660/HCYA34	Back-up Roll	610	870	660	660	6	680
FCDP126184600X4/HCEYAD	Backup Roll	628	922	600	600	6	702
FCD126184515/HC	Back-up Roll	630	920	515	515	7.5	700
FCDP130180650/HC	Back-up Roll	650	900	650	650	7.5	704
FCDP130184670/HCYAD-1	Back-up Roll	650	920	670	670	7.5	723
FCDP130184670//HCYA3	Back-up Roll	650	920	670	370	4	723
FCDP130184690/HCYAD	Back-up Roll	650	920	690	690	6	723
FCDP136184600/HCG2IYAD	Back-up Roll	680	920	600	600	6	743
FCDP136196640/HCC4YAD	Back-up Roll	680	980	640	640	4	760
FCDP138196715/HCP69YAD	Back-up Roll	690	980	715	715	4	767.5
FCDP138196750/HCC9YA6	Back-up Roll	690	980	750	750	7.5	766

Other related dimensions（mm）				Basic Load Ratings（kN）		Weigh（kg)	Patterns
Da	da	bmax	kmax	Cr	Cor		
591.5	463 .5	15	8	7420	15800	452	Figu re3
621.0	466			6380	13500	425	Figu re5
627.5	484 .5	22	12	8750	21500	492	Figu re5
621.5	502 .5	15	8	7840	15400	419	Figu re4
656	506	15.0	9	7980	23400	599	Figu re3
710	529	22.3	12	9520	28600	814	Figu re8
643	520	15.0	7	7840	20100	446	Figure1
644	520	15.0	8	8640	23700	460	Figure3
650	520	18.0	10	8400	22700	463	Figure3
650	520	18.0	10	8400	22700	454	Figure3
694	534	15.0	8	8550	28100	751	Figure3
622	535	22	12	8300	25200	522	Figu re3
705.5	538	18	8	11000	27000	724	Figu re3
708.5	547	22	12	11000	27800	757	Figu re3
688.0	554	22	10	9450	26500	597	Figu re3
733.5	558 .5	22.3	12	11100	27000	788	Figu re3
748	562 .5	19	10	13000	32000	971	Figu re3
775	580	24	12	13600	32500	952	Figu re3
766	590	18	8	12500	32000	1010	Figure4
787.5	592 .5	18	10	11100	36000	1164	Figure3
720	596		8	9000	26600	625	Figure1
781.5	599	18	10	11100	33300	1030	Figure3
794	630	18	9	12300	35000	945	Figure3
794	630	18	9	9750	35000	948	Figure3
794	630	18	9	9750	35000	948	Figure3
841	636	18	10	12500	35700	1107	Figure3
841	636	18	10	15700	41000	1337	Figure3
839.5	634 .5	18	10	13200	38500	1347	Figure3
842	645	20	12	16900	44000	1310	Figure3
892	665	24	12	16800	39000	1403	Figure3
872.5	665	25	12	13700	17160	1182	Figure2
870	677	30	12	16200	42000	1252	Figure3
889.5	686 .5	18	10	14300	44500	1456	Figure3
889.5	686 .5	18	10	14300	44500	1454	Figure3
883.5	686 .5	24	12	15700	47500	1536	Figure3
889.5	711 .5	22	12	12400	41600	1178	Figure3
942	720	22	12	17700	46000	1680	Figure3
943.5	729	22	12	18800	51500	1805	Figure3
943	728	45	13	16100	51500	1881	Figure3

Designations	Working Position	Basic Dimensions(mm)					
		d	D	B	C	r1min	Fw
FCDP138196750/HCEP59YAD	Back-up Roll	690	980	750	750	7.5	766
FCDP138196715/HCP69YAD/W283	Backup Roll	690	980	715	715	4	767.5
FCDP140186620/HCEC9YAD	Back-up Roll	700	930	620	620	3	763
FCDP142200715/HCYAD/W283	Back-up Roll	710	1000	715	715	7.5	787.5
FCDP146192620/HCC4YA6	Back-up Roll	730	960	620	620	6	790
FCDP146206750/HC-FY/W283	Back-up Roll	730	1030	750	750	6	809
FCDP146206750/HCEYAD/W281	Back-up Roll	730	1030	750	750	6	809
FCDP146200700/HCEYAD	Back-up Roll	730	1000	700	700	4	802
FCDP150200670/HCYAD/W283	Back-up Roll	750	1000	670	670	3	813
FCDP152215787X4/HCP5	Back-up Roll	761	1080	787	787	5	846
FCDP156214780/HCYAD	Back-up Roll	780	1070	780	780	7.5	849
FCDP160216700/HC	Back-up Roll	800	1080	700	700	3	878
FCDP160216700/HCP64YAD	Back-up Roll	800	1080	700	700	5	878
FCDP164226800/HCP6YA3-SY	Back-up Roll	820	1130	800	800	4	903
FCDP164226800/HCYA3/W283	Back-up Roll	820	1130	800	800	4	903
FCDP164226800/HCYA3	Back-up Roll	820	1130	800	800	4	903
FCDP170230840/HCYAD/W283	Back-up Roll	850	1150	840	840	6	928
FCDP170230840/HCE	Back-up Roll	850	1150	840	840	4	928
FCDP180244840/HCYAD	Working Roll&Back-up Roll	900	1220	840	840	4	989
FCDP190260850/C9HCYA3	Back-up Roll	950	1300	850	850	7.5	1044
FCDP190260850/HCC9	Back-up Roll	950	1300	850	850	10	1044
FCDP190260850/HCP69YAD	Back-up Roll	950	1300	850	850	10	1044
FCDP190260850E/C9HCYA3	Back-up Roll	950	1300	850	850	7.5	1044
FCDP1902721000/HCEYAD/W281	Back-up Roll	950	1360	1000	1000	5	1075

Other related dimensions（mm）				Basic Load Ratings（kN）		Weigh（kg)	Patterns
Da	da	bmax	kmax	Cr	Cor		
943	728	27	15	16100	51500	1873	Figure3
943.5	729	22	12	16200	51500	1814	Figure3
903.5	731 .5	22.3	12	15100	44000	1208	Figure3
963.5	749	22.3	12	20100	55500	1851	Figure3
933	760	23.5	12	15000	44000	1254	Figure3
911.5	770	22	12	21000	58000	2082	Figure3
911.5	770	22	12	21000	58000	2082	Figure3
971	766	45	13	16600	54500	1681	Figure3
972.5	781.5	23.5	12	18000	52000	1496	Figure3
1069.5	804	23.5	12	26600	64000	2376	Figure3
1032.5	814.5	23.5	12	21400	65700	2170	Figure3
1042.5	830	23.5	12	12600	48500	1850	Figure3
1056	830	30	12	19030	59500	1918	Figure3
1100.5	851.5	23.5	12	19700		2534	Figure3
1100.5	851.5	23.5	12	19700	67000	2512	Figure3
1100.5	851.5	23.5	12	19700		2512	Figure3
1126	880	23.5	12	24000	75000	2550	Figure3
1123	880	23.5	12	25000	75500	2595	Figure3
1189	934	22.3	12	2000	8000	2975	Figure3
1255	986	30	14	32200	85000	3390	Figure3
1255	986	30	16	28600	80500	3390	Figure3
1256.5	986	32	12	21500	64000	3360	Figure3
1274.5	986	30	14	33300	90500	3550	Figure3
1323.5	997.5	30	18	41500	113000	5027	Figure3



Mountde

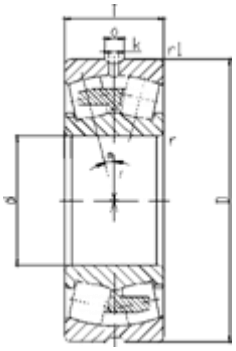


Figure1

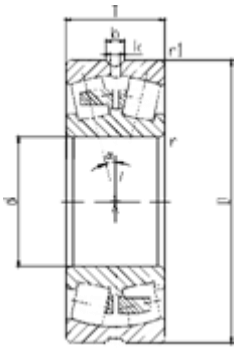


Figure2

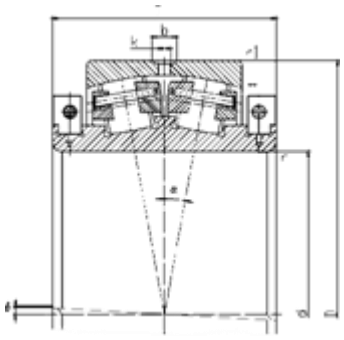


Figure3

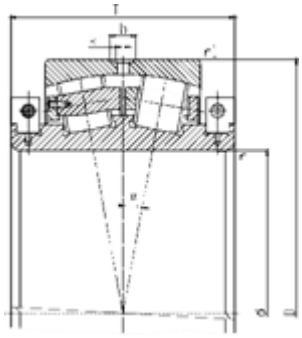


Figure4

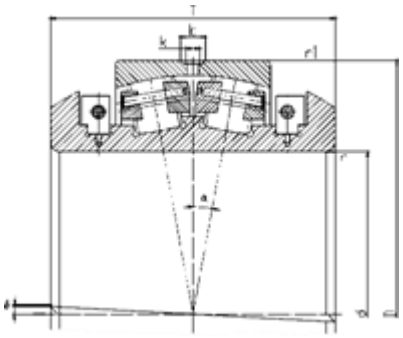


Figure5

Designations	Basic Dimensions (mm)					Mounting Dimensions (mm)				e Value	Basic Load Ratings (kN)		Weight (kg)	Patterns
	d	D	T	rmin	r1min	Da	da	b	k		Cr	Cor		
230/628CAF3/W33	628	920	212	7.5	7.5	875.5	674.5	22.3	9	0.208	5900	12800	481	Figure1
240/884/HCC9YA1	884	1320	365	7.5	7.5	1252	961	24	12	0.28	12900	28900	1811	Figure2
240/884F3/HCC9YA1	884	1320	365	7.5	7.5	1252	961	24	12	0.28	12900	28900	1811	Figure2
240/900X3/HCC9-1	900	1320	365	7.5	7.5	1249.0	960.5	24	12	0.264	10500	27600	1730	Figure2
240/900X3/W33	900	1270	365	7.5	7.5	1204.0	953.5	24	12	0.28	10800	26600	1440	Figure2
240/1000/C3W33	1000	1420	412	7.5	7.5	1346	1064	22.3	12	0.27	15600	40000	2150	Figure2
240/1060F3/C4W33X	1060	1500	438	9.5	9.5	1419.5	1122.5	22.3	12	0.273	17000	44100	2500	Figure2
240/1060CAF1/W33	1060	1500	438	9.5	9.5	1420	1125	22.3	12	0.256	17200	45000	2540	Figure1
230/1120CAF3/W33X	1120	1580	345	9.5	9.5	1511.0	1202.5	40	25	0.192	15000	38100	2210	Figure1
249/1180CAF1/W33X	1180	1540	355	7.5	7.5	1481	1235	22.3	12	0.197	12100	40000	1772	Figure1
240/1320CAF3/W33T	1320	1850	530	12	12	1755.5	1402.5	40	25	0.254	23200	63300	4540	Figure1
230/530D	530	780	265	6	6	742	561	22.3	12	0.211	3400	8100	389	Figure4
230/750D	750	1090	340	7.5	7.5	1040.5	794.5	20	12	0.205	6810	15230	961	Figure3
230/800D	800	1150	358	7.5	7.5	1097	843	20	12	0.197	6850	15600	1087	Figure3
249/800D	800	1060	370	6	6	1019	836	23.5	12	0.211	6000	15300	819	Figure3
230/800WD	800	1150	540	7.5	7.5	1097	850	20	12	0.197	6850	15600	1367	Figure5
240/850WD	850	1220	660	18×45°	7.5	1156.0	889.5	27	18	0.27	10900	25800	1931	Figure5
240/850WBD	850	1220	540	7.5	7.5	1156.0	882.5	27	18	0.27	10900	25800	1781	Figure3
240/884D/HC	884	1320	478	9.5	9.5	1240	951	22	18	0.246	11000	24900	2457	Figure3
240/900X3D/HCC9-2	900	1320	478	9.5	9.5	1249	965	22	18	0.238	9850	24100	2050	Figure3
240/900X3D-1	900	1270	470	9.5	9.5	1200	955	22	18	0.247	9800	24600	1970	Figure3
240/900X3D-2	900	1270	470	8.5	8.5	1200	955	22	18	0.247	9800	24600	1970	Figure3
240/900X2D/HC	900	1280	498	9.5	9.5	1205	955	22	18	0.247	9800	24600	2064	Figure3
240/900X3D-3	900	1270	470	9.5	9.5	1200	955	22	18	0.247	9800	24600	1879	Figure3
230/950D	950	1360	420	20	7.5	1297	1003	27	18	0.197	9100	21000	1956	Figure3
230/950D-1	950	1360	640	55×45°	7.5	1297	1000	27	18	0.197	9100	21000	2338	Figure5
240/1000D	1000	1420	556	32×45°	7.5	1347.0	1054.5	22	18	0.251	13300	34500	2633	Figure3
240/1060D	1060	1500	585	9.5	9.5	1423	1120	22	18	0.251	15000	40000	3083	Figure3
240/1060D-2	1060	1500	575	9.5	9.5	1423	1112	22	18	0.251	15000	40000	3354	Figure3

240/1060D-1	1060	1500	611.5	70×45°	9.5	1423	1120	22	18	0.251	15000	40000	3089	Figure3
249/1180D	1180	1540	500	7.5	7.5	1484	1227	22.3	18	0.197	10000	31000	2254	Figure3

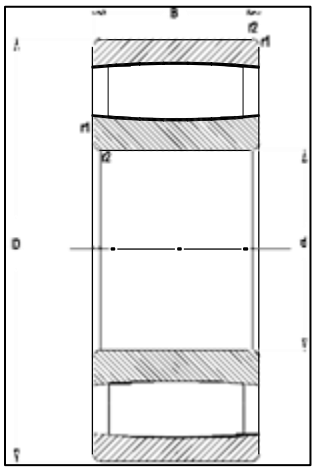


Figure1

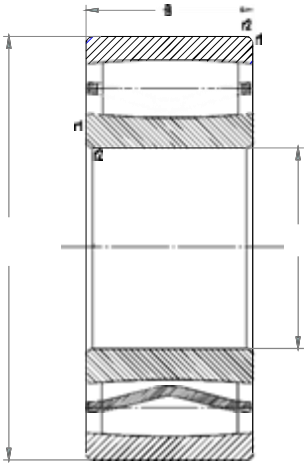
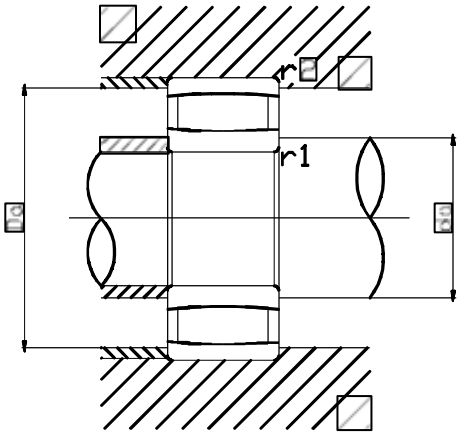


Figure1



Mounted

Designations	Basic Dimensions (mm)					Other Dimensions (mm)		Basic Load Ratings (kN)		Limit Speed Ratings r/min	Weight (kg)	Patterns
	d	D	B	r1min	r2min	Da	da	Cr	Cor			
SDB5915V	75	105	40	1	1	100	79.5	204	325	1900	1.1	Figure1
SDB6915V	75	105	54	1.0	1.0	99	80	178	325	1600	1.35	Figure1
SDB5917V	85	120	46	1.1	1.1	145	90	275	465	1700	1.52	Figure1
SDB5918V	90	125	46	1.1	1.1	119	96	200	400	1600	1.71	Figure1
SDB5020V	100	150	67	1.5	1.5	142	107.5	510	865	1100	4.3	Figure1
SDB4024V	120	180	60	2	2	172.0	130	530	880	1100	5.5	Figure1
SDB4026V	130	200	69	2	2	190	140	720	1120	850	8.05	Figure1

SDB4030V	150	225	75	2.1	2.1	214	162	780	1320	750	10.5	Figure1
SDB3044	220	340	90	3	3	325	239	1320	2040	2200	29	Figure2

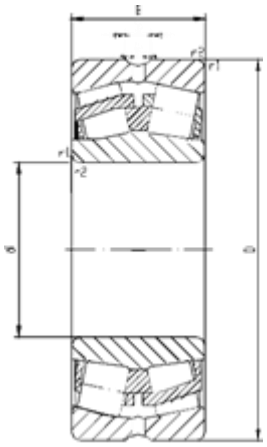
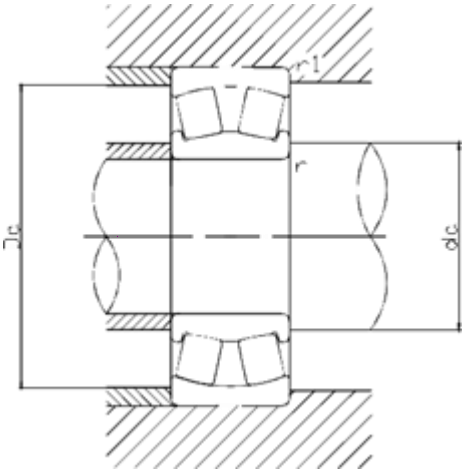


Figure1



Mounted

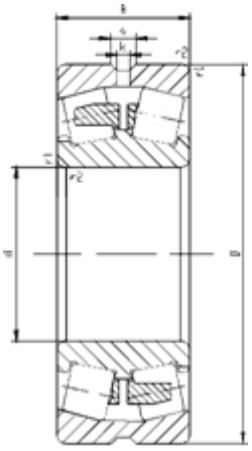
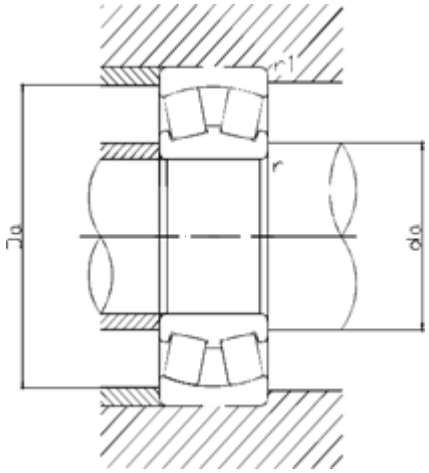


Figure2



Mounted

Designations	Basic Dimensions (mm)					Mounting Dimensions (mm)				Basic Load Ratings (kN)		Limit Speed Ratings r/min	Weight (kg)	Patterns
	d	D	B	r1min	r2min		da	b	K	Cr	Cor			
22211C/W33	55	100	25	1.5	1.5	93 .5	60	5.5	2	119	126	4500	0.856	Figure1
22212CB/W33	60	110	28	1.5	1.5	102.5	67.5	5.5	3	156	166	4300	1.15	Figure2
24013CB/W33	65	100	35	1.1	1.1	93	69	5.5	3	110	165	2600	0.966	Figure2
22313CB/W33	65	140	48	2.1	2.1	128.0	76.5	8.3	4.5	340	360	2600	3.75	Figure2
22314CB/W33	70	150	51	2.1	2.1	138	83	8.3	4.5	400	430	2200	4.55	Figure2
24015CB/W33	75	115	40	1.1	1.1	107.5	81.5	5.5	3	158	240	2600	1.48	Figure2
22315CB/W33	75	160	55	2.1	2.1	147	88	8.3	4	440	475	2100	5.55	Figure2
22216C/W33	80	140	33	2	2	131.0	89.5	5.5	2.5	165	225	3200	2.06	Figure1
22317CB/W33	85	180	60	3	3	165	100	8.5	4	550	620	1900	7.65	Figure2
23218CB/W33	90	160	52.4	2	2	148.0	100.5	5.7	3	300	440	1900	4.5	Figure2
22219CB/W33	95	170	43	2.1	2.1	159.0	107.5	8.4	4.5	275	370	1750	4.29	Figure2
22319CB/W33	95	200	67	3	3	184	111	8.3	5	670	765	1750	10.5	Figure2
23220CB/W33	100	180	60.3	2.1	2.1	166.0	112.5	8.4	4.5	400	570	1700	6.44	Figure2
22320CB/W33	100	215	73	3	3	197	119	11.1	5	815	950	1700	13.5	Figure2
23121C/W33	105	175	56	2	2	163.0	112.5	5.5	3	365	560	1500	5.36	Figure1
22322CB/W33	110	240	80	3	3	218.5	130.5	13.9	6	950	1120	1500	18.4	Figure2
24124C/W33	120	200	80	2	2	183	133	5.5	3	655	950	1400	10.3	Figure1
22224CB/W33	120	215	58	2.1	2.1	201	135	11.1	4	630	765	1900	8.7	Figure2
24126C/W33	130	210	80	2	2	194	138	8.3	4	680	1000	1300	11	Figure1
22226CB/W33	130	230	64	3	3	215	146	11.1	6	735	930	1800	11	Figure2
24128CB/W33	140	225	85	2.1	2.1	208.5	152.5	8.3	4.5	765	1160	1100	13.5	Figure1
24130C/W33	150	250	100	2.1	2.1	229	165	8.3	4.5	1020	1530	1000	20	Figure1
24132C/W33	160	270	109	2.1	2.1	247.0	170.5	8.3	4	1180	1760	950	25	Figure1
24134CB/W33	170	280	109	2.1	2.1	258.5	186.5	8.3	5	1220	1860	900	27.5	Figure1
24136CB/W33	180	300	118	3	3	276	198	11.1	6	1400	2160	900	34.5	Figure1
24138CB/W33	190	320	128	3	3	293	208	11.1	6	1600	2500	850	43	Figure1
24140CB/W33	200	340	140	3	3	312	221	11.1	6	1800	2800	800	53.5	Figure1
24144CB/W33	220	370	150	4	4	342	241	11.1	6	2120	3350	750	67	Figure1
24148CB/W33	240	400	160	4	4	368.0	262.5	11.1	6	2400	3900	700	83	Figure1
24152CB/W33	260	440	180	4	4	405.5	285.5	13.9	8	3000	4800	650	110	Figure1
24156CB/W33	280	460	180	5	5	426.5	306.5	13.9	8	3100	5100	600	120	Figure1
24060C/W33	300	460	160	4	4	429.5	323.5	13.9	7	2700	4750	550	97	Figure1