

Tapered Roller Bearing

 **CF BEARING**



Tolerances

Tolerance class of Bearings					
CF BEARING	0	6	5	4	2
ISO	0	6	5	4	2
ANSI	ABEC-1	ABEC-3	ABEC-5	ABEC-7	ABEC-9
SKF	0	P6	P5	P4	P2
DIN	0	P6	P5	P4	P2
JIS	0	6	5	4	

Clearance

Before mounting the bearing to the shaft or housing, fix the inner ring or the outer ring, and move the other unfixed ring in the radial or axial direction, the amount of movement is called the bearing clearance, or the axial clearance.

The amount of clearance while the bearing is rotating (the so-called working clearance) shall have effects on the rolling fatigue life, temperature rise, noise, vibration and other functions.

In order to get the stable value of the clearance, normally a required load is put on the bearing in order to measure the bearing clearance.

Therefore, the measured value is larger than the true clearance (called the theoretical clearance), which means the amount of the elastic deformation caused by the load is increased.

But for roller bearings, this elastic deformation can be ignored since it is comparatively small.

Before the mounting of the bearing, the internal clearance is expressed with the theoretical clearance.

The selection of clearance

If the amount of expansion or contraction of the rings caused by the interference fit when mounting the bearing on the shaft or in the housing is deducted from the theoretical clearance, then we have the "Mounting Clearance".

Furthermore, if the dimensional changes caused by the temperature difference inside the bearing is added to or reduced from the mounting clearance, we have the so-called "Effective Clearance".

When the bearing rotates while carrying a certain magnitude of load in the machine, if the elastic deformation caused by the load is added to the effective clearance, we then have the "Working Clearance".

when the working clearance is a slightly negative, the bearing has the longest service life. But with the negative clearance changing to be positive, the fatigue life shall decrease. Therefore, when choosing the clearance, it is preferred to choose the 0 or slightly positive working clearance.

Bearing Material:

To ensure bearings quality, we only buy bearings material from reputable, authorized, and large steel plant, and each material will be strictly inspection before production. The following materials especially GCr15SiMn are widely used in our bearing series. Chemical Composition of Steels for DWCFQ bearings

Material Chemical Composition									
Element	C	Si	Mn	Cr	Ni	Mo	P	S	Cu
GCr15	0.95-1.05	0.15-0.35	0.25-0.45	1.40-1.64	---	---	<=0.025	<=0.025	---
GCr15SiMn	0.95-1.05	0.45-0.75	0.95-1.25	1.40-1.64	---	---	<=0.025	<=0.025	---
G20CrNi2Mo	0.17-0.23	0.15-0.40	0.40-0.70	0.35-0.65	1.60-2.00	1.60-2.00	<=0.030	<=0.030	<=0.25
G20Cr2Ni4	0.17-0.23	0.15-0.40	0.30-0.60	1.25-1.75	3.25-3.75	---	<=0.030	<=0.030	<=0.25
50Mn	0.48-0.56	0.17-0.37	0.70-1.00	---	---	---	---	---	---
42CrMo	0.38-0.45	0.17-0.37	0.50-0.80	0.90-1.20	---	0.15-0.25	---	---	---

Equivalent Designations of DWCFQ bearings Material			
DWCFQ (China)	ASTM(USA)	DIN(GERMANY)	JIS(JAPAN)
GCr15	AISI 52100	DIN100Cr6	JIS SUJ2
GCr15SiMn		DIN100CrMn67	JIS SUJ3
G20CrNi2Mo	AISI 4320		JIS SNCM415
G20Cr2Ni4	AISI 3316		
50Mn	AISI 1551		
42CrMo		DIN 42CrMo4	JIS SCM 440

Purposes and methods of lubrication.

Lubrication has important effects on the function of the bearing. Whether the lubricant and the method are suitable or not shall influence the bearing life. The advantages of lubrication:

- 1) Reducing the friction and wear by lubricating every part of the bearing.
- 2) Taking away the heat generated inside the bearing caused by friction or other reasons.
- 3) Forming an oil film in the rolling contact surface in order to elongate the bearing life.
- 4) Preventing the bearing from rusting and dust contamination.

The lubricating methods include oil lubrication and grease lubrication. The comparisons of these two methods are given in Table1.

Grease lubrication

Grease put inside the bearing can last a comparatively long time without replenishment, and the sealing device is very simple. Therefore it is extensively applied.

There are two methods for grease lubrication: one is to put the grease inside the sealed bearings in advance, the other is to fill the grease of certain amount inside the housing and refill it or change the grease inside at intervals.

Moreover, for machine with several bearings requiring lubrication, the method of centralized greasing through pipes connecting the places to be lubricated is adopted.

1) Amount of lubricating grease

The amount of lubricating grease to be filled in the housing depends on the structure and volume of the housing. Normally it is preferred to fill the volume by 1/3 to 1/2.

If too much grease is filled, the grease may turn bad, age or soften due to the heat caused by rotation.

But for bearings with low rotation speed, sometimes 2/3 to the whole volume shall be filled with grease in order to avoid the intrusion of foreign matters.

2) The replenishment and change of grease

The replenishment and change of grease is closely related to the lubricating method. No matter which method is applied, the grease must be clean and care be taken to avoid intrusion of dirt. The grease to be replenished with should be of the same brand.

Try to ensure that the replenished grease has entered into the inside space of the bearing.

Oil lubrication Oil lubrication is applied to high-speed and heat-resistant bearings and ineffective for reducing vibration and lowering noise. Mostly it is used in cases where the grease lubrication is not suitable Oil lubrication has the following methods:

- | | | |
|---------------------------------|--------------------------|--------------------------|
| (1) Oil bath lubrication | (2) Oil drip lubrication | (3) Splash lubrication |
| (4) Oil circulating lubrication | (5) Oil jet lubrication | (6) Oil mist lubrication |
| (7) Oil air lubrication | | |

Table1 Comparisons between oil lubrication and grease lubrication		
Item	Grease	Oil
Sealing device	Simple	More complicate, requiring maintenance
Lubricating function	Good	Very good
Rotational speed	Low speed to medium speed	Applicable to high speed
Change of lubricant	Troublesome	Simple
Life of lubricant	Very short	Long
Cooling effects	Without	Possible using forced oil circulation
Elimination of inclusion	Impossible	Easy

Bearing Selection:

Bearing Type		
It is critical to understand the use conditions of the bearing when choosing the type of bearing. Table 1 provides the main factors to be analyzed. Table 1 (1) Selection of bearing type		
Items for analyses		Methods of choice
1) Mounting space	Those can be put in the mounting space	Since the rigidity and strength of the shaft have been considered in the designing, first of all the inner diameter of the bearing must be determined. But there are too many dimensional series and types, the most appropriate type must be chosen.
2) Load	Strength, direction and nature of the load	The load is subject to changes, such as the amount of the load, whether there is only radial load or not, whether the axial load is in single-direction or double direction, the amount of vibration or shock and others. These factors must be considered before choosing the most appropriate bearing type.
		Normally, the radial load carrying capacity of the bearings with the same ID are listed in the following order:
		[deep groove ball bearings < angular contact ball bearings < cylindrical roller bearings < taper roller bearings < spherical roller bearings]
3) Rotating speed	Those are suitable for the mechanical rotations.	The limit speed of the bearing rests with not only the bearing type but also bearing dimensions, cage type, precision, load carrying conditions and lubrication methods. These factors must be considered for the choice.
		The following bearings are applied for high speed rotation:
		[deep groove ball bearings < angular contact ball bearings < cylindrical roller bearings]
4) Rotating precision	Those can satisfy the rotation precision requirements	Machine tool spindles, ages turbines and control machines entail high rotation precision, high speed and low friction. Bearings with precision degree 5 or over should be applied in these cases.
		Normally the following bearings are applied:
		[deep groove ball bearings, angular contact ball bearings, cylindrical roller bearings]

Bearing Type		
It is critical to understand the use conditions of the bearing when choosing the type of bearing. Table 1 provides the main factors to be analyzed. Table 1 (1) Selection of bearing type		
Items for analyses		Methods of choice
5) Rigidity	Those can satisfy the rigidity of mechanical shaft system	In machine tool spindles and final deceleration device of automobiles and other applications, the rigidity of the bearing must be increased when the rigidity of the shaft is increased.
	[When carrying load, the contact surface between the rolling elements and the raceways can have elastic deformation. "High rigidity" means such elastic deformation shall happen at the smaller amount.]	The deformation of roller bearings when carrying load is smaller than that of the ball bearings.
		Rigidity can be increased by applying pre-load (negative clearance). These method is suitable for angular contact ball bearings and taper roller bearings.

Table 1(2) The selection of bearing type		
6) The relative leaning of the inner ring and outer ring	Reason of leading to the relative leaning of the inner ring and outer ring must be analyzed (such as the load-included bending of the shaft, poor precision of the shaft and housing or mounting error) and the bearings that fit these conditions should be chosen.	If the relative leaning between the inner ring and outer ring is too big, the inside load thereof shall do harm to the bearing. So bearing types that can carry this leaning should be chosen. Normally, the allowable sloping angle increases with the following order: [cylindrical roller bearings, taper roller bearings, deep groove ball bearings (angular contact ball bearings), thrust ball (spherical roller) bearings]
7) Mounting and dismounting	Check the frequency and methods of mounting and dismounting of the bearings regularly.	If too much mounting and dismounting, choosing cylindrical roller bearings with separable inner ring and outer ring, needle roller bearings and taper roller bearing is comparatively convenient.
		With adapter or withdrawal sleeve, self-aligning ball bearings with tapered bore and spherical roller bearings with tapered

Bearing Structure		
The variety of machine types, combined with the differences in the application condition leads to different bearing structures. Bearings normally, there will be no less than two bearings applied on one shaft.		
In addition, for the purpose of convenience in fixing axial position, normally one bearing is used to fix one end and the other bearings to fix the other end. The following table provides the choice of bearings on large shafts and on the free end of the shaft. The following materials should be strictly inspected before production.		
Table 1 Bearings of the fixing end and the free end		
	Content	Applicable bearing types
Bearings on the fixing end	Fix the bearing in the axial direction	Deep groove ball bearings
	Choose bearings that can carry both the radial load and the axial load	Combined angular contact ball bearings
	In order to carry double-direction axial load, strength must be considered according to the amount of the axial load while mounting	Self-aligning ball bearings
		Cylindrical roller bearings with flanges (NUP and NH types)
		Double-row taper roller bearings
		Spherical roller bearings
	Bearing on the free end	The bearing must adapt to the shaft expansion caused by the changes in temperature while working and adjust the bearing position in the axial direction.
Only the bearings with separable inner ring and outer ring that can carry radial load should be chosen.		Non-separable types
With non-separable bearings, there should be a clearance between the outer ring and housing in order to adapt the bearing to the shaft expansion in the axial direction.		Deep groove ball bearings
Sometimes, the adaptation is achieved with the contact surface between the shaft and the inner ring.		Combined angular contact ball bearings (back-to-back arrangement)
		Double-row angular contact ball bearings
		Self-aligning ball bearings
		Double-row taper roller bearings(3700 type)
	Spherical Roller bearings	

	Content	Applicable bearing types
Regardless of fixing end or free end	When the distance between the two bearings is small, and the effects of shaft expansion are not important, two angular contact ball bearings or taper roller bearings that can carry axial load can be used together in face-to-face or back-to-back arrangements.	Deep groove ball bearings
	Use screw nut or filling piece to adjust the axial clearance after mounting.	Angular contact ball bearings
		Self-aligning ball bearings
		Cylindrical roller bearings (NJ and NF types)
		Taper roller bearings
Vertical shaft	Bearings that can carry both radial load and axial load should be chosen for the fixing end. If the axial load is too big, use the combination of thrust bearing and radial bearing.	For fixing end
	Similarly, only bearings that can carry radial load should be used to adapt to the shaft expansion.	Combined angular contact ball bearing (back-to-back arrangement)
		Double-row taper roller bearings(37000 type)
		Combined thrust bearing and radial bearing arrangements

Cage damage

Broken cage

Possible reasons

- Torque load too big
- High speed rotation or speed changing too frequently
- Poor lubrication
- Intrusion of foreign matter
- Vibration too big
- Bad mounting (mounting in leaning conditions)
- Abnormal increase in temperature (resin cage)

Solutions

- Check application conditions
- Check lubrication conditions
- Re-consider choice of cage
- Pay attention to applications
- Consider rigidity of shaft and bearing box

Cracks

Partial breach and even cracks

Possible reasons

- Shock load too heavy
- Interference too big
- Big peeling off and frictional cracks
- Poor precision of the mounting side (corner circle too big)
- Frictional cracks
- Mal-applications (using copper hammer, intrusion of big foreign matter)

Solutions

- Check the application conditions
- Set proper interference and check material quality
- Improve mounting and application methods
- Prevent frictional cracks (check lubricants)
- Check bearing surrounding design

Burns

Overheat color varying then bearing, leading to failure to rotate

Possible reasons

- Clearance too small (including clearance for the deforming part)
- Insufficient lubrication or inappropriate lubricant
- Load too heavy (pre-load too heavy)
- Skewing rollers

Solutions

- Choose proper clearance (increasing clearance)
- Check lubricant type and ensuring amount
- Check application conditions
- Avoid position error
- Check surrounding design (including lead to bearing)
- Improve the mounting method

Rusting

Rusting on all or part of the surface

Rust on rolling elements in pitch shape

Possible reasons

- Poor maintenance
- Improper packaging
- Insufficient rust-preventive
- Intrusion of moist acid liquid
- Taking the bearing by hands

Solutions

- Maintenance to prevent rusting
- Reinforcing the sealing function
- Check the lubricant regularly
- Pay attention to bearing applications

Corrosion

Red corroded particles in the fit surface

Possible reasons

- Insufficient amount of interference
- Small bearing oscillating angle
- Insufficient lubrication (or without lubrication)
- Not stable load
- Vibration in the transit

Solutions

- Check the interference and the conditions of the lubricant
- Separable packing of inner rings and outer rings when in transit, pre-load shall prevail if the bearings are un-separable
- Re-consider choice of lubricant
- Re-consider choice of bearings

Wear

Surface worn, leading to dimension changes with scratches and traces

Possible reasons

- Foreign matters in the lubricant
- Poor lubrication
- Rollers skewing

Solutions

- Check lubricant and lubrication method
- Reinforce sealing function
- Prevent positioning error

Electric corrosion

Red corroded particles in the fit surface

Possible reasons

- Insufficient amount of interference
- Small bearing oscillating angle
- Insufficient lubrication (or without lubrication)
- Not stable load
- Vibration in the transit

Solutions

- Check the interference and the conditions of the lubricant
- Separable packing of inner rings and outer rings when in transit, pre-load shall prevail if the bearings are un-separable
- Re-consider choice of lubricant
- Re-consider choice of bearings

Dent and bruise

Intrusion of solid foreign matter or pits in the surface caused by shock or scratches from mounting

Possible reasons

- Solid foreign matter intrusion
- Peels inside the bearing
- Shock from mal-mounting peeling off
- Mounting in leaning conditions

Solutions

- Improve mounting and application methods
- Prevent foreign matters from intruding
- Check other parts if caused by metal pieces

Creep deformation

Slippery ID surface and OD surface leading to mirror surface and sometime blocking

Possible reasons

- Insufficient interference at the fit surface
- Sleeve not fastened enough
- Abnormal increase in temperature
- Load too heavy

Solutions

- Re-consider the interference amount
- Consider the application conditions
- Check precision of shaft and bearing box

Peeling off

Peeling off and deformation of the rotational surface

Possible reasons

- Load too heavy or improper applications
- Mal-mounting
- Poor precision of the shaft or bearing box
- Clearance too small
- Intrusion of foreign matters
- Rusting
- Hardness decrease caused by abnormal high temperature

Solutions

- Re-consider the application conditions
- Consider other bearing specifications
- Check the processing precision of the shaft and bearing box
- Consider the surrounding design
- Check the mounting method
- Check the lubricant and lubrication method

Scratches

Rough surface with small deposit

Scratches between the flanges of rings and the side surfaces of the rollers

Possible reasons

- Poor lubrication
- Intrusion of foreign matter
- Skewing rollers caused by leaning
- Axial load too big leading to no lubricant on flange surface
- Roughness of the surface too big
- Big sliding of the rolling elements

Solutions

- Re-consider lubricant and lubricating method
- Check application method
- Set proper pre-load
- Reinforce the sealing function
- Use bearings correctly

Environmental Protection

It is one of the strategies to let our employee and partners know and feel more about environmental protection and finally achieve DWCFQ to be a green corporation. We cognize that the best solution is always keep thinking about environmental protection no matter where we are and what we do.

DWCFQ always commit itself to Environmental Protection. Welcome to join us!

DWCFQ Environmental Protection (EP) Responsibility and Commitment

Saving

Energy Saving

26° C room temperature control

Saving electricity, water and paper

Saving packing material (energy consumed during transportation)

Recycle

Categorizing waste of paper, newspapers, magazines

Categorizing wooden rods, cases and blocks

Collecting waste ink and toner cartridges

Collecting waste batteries

Using recycled paper if possible

Education and Promotion

All staff participation: all staff joining green activities or conferences at least once per year

Announcing this KML EP Responsibility and Commitment to our customers and suppliers

Green Environment

Tree planting every year

Increasing the area of greening zone

Reducing Pollution

Using toxic free ink

Minimizing pollutants during production

EP Management System

factories acquiring ISO14000 certificate

Preferably purchasing from ISO14000 certified suppliers if under the same conditions

Quality System

DWCFQ was awarded ISO 9001: 2000 Quality Management System Certificate in 2005. DWCFQ has undertaken to related parties that it will strictly implement and maintain the established quality management system.

To supply the products that meet the customers' requirements, applicable laws and regulations, based on the requirements of ISO 9001:2000 Standard, DWCFQ will identify, establish, implement and continuously improve the following quality management system processes in the light of the specific conditions of the Company:

A. Management Responsibilities

General Manager is expected to be responsible for the following work:

Making quality policy and quality goal regarding the quality management system to satisfy customers gearing with their needs.

Stating responsibilities and power scopes for administrators, executive persons and identifiers as well as describing their correlation to improve the Company's result by satisfying customers.

Appointing major administrators and organizing inner or external exchange activities to improve the consciousness required by customers as well as the validity of the quality management system. This process will imply orientation and duty for other quality management system process.

Meanwhile, the result will be evaluated to continuously improve the quality management system.

B. Resources Management Process

With this process, General Manager will provide necessary resources to realize other quality management processes' orderly and efficient running, aiming at completing quality policy and quality goal, continuously improve the result of the quality management system.

C. Products Realization Process

With focus on the principle of being orderly and efficient, this process includes such work processes as assembling, processing, sale, procurement, logistics and import and export document treatment. As regards the specific service projects required by customers, the Company will figure out related resolutions in accordance with the requirement of ISO9001: 2001 Standard 7.1

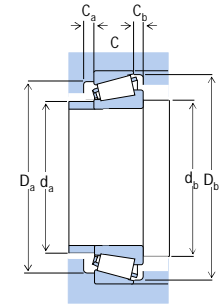
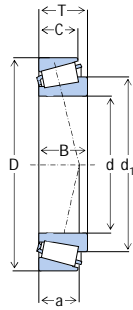
D. Evaluation, Analysis and Improvement Process

General Manager leads and organizes quality system improvement.

Furthermore, customer is the our focus ,we should collect and analyze complain and advices to improve our services .

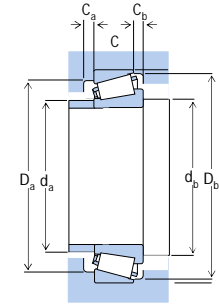
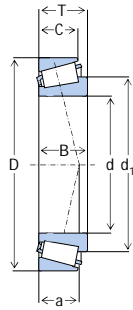
At the same time, company build corresponding control program to manage file ,stuff, record.

Single-row Tapered Roller Bearing - Imperial



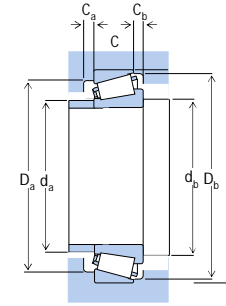
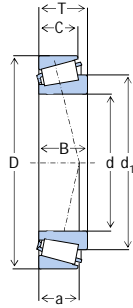
Boundary Dimensions (mm)							Basic Load Ratings (kN)		Speed Ratings (kN)		Load Center Spacing	Designations	Abutment and Fillet Dimensions						Calculation Factors			Mass (kg)
d	D	T	B	C	r1.2min	r3.4min	Cr	Cor	Grease	Oil	a		d _{amax}	d _{bmin}	D _{amax}	D _{bmin}	r _{amax}	r _{bmax}	e	Y	Yo	Refer.
95.25	190.5	57.15	57.531	46.038	7.9	3.2	440	602	2300	3400	42.5	HH221440/HH221410	115	119	168	179	7.9	3.2	0.33	1.79	0.99	7.37
96.838	148.43	28.575	28.971	21.433	3.6	3	143	225	2300	3400	31.9	42381/42584	108	108	133	140	3.6	3	0.49	1.22	0.67	1.64
	188.913	50.8	46.038	31.75	3.6	3.2	276	357	2300	3400	63	90381/90744	108	115	161	179	3.6	3.2	0.87	0.69	0.38	5.68
98.425	161.925	36.512	36.116	26.195	3.6	3.2	180	288	2200	3300	36	52387/52637	110	114	142	151	3.6	3.2	0.47	1.26	0.69	2.74
	168.275	41.275	41.275	30.162	3.6	3.2	224	349	2200	3300	38.6	685/672	110	115	147	156	3.6	3.2	0.47	1.28	0.7	3.51
	180.975	47.625	48.006	38.1	3.6	3.2	288	438	2100	3200	39.5	779/772	110	120	156	166	3.6	3.2	0.39	1.56	0.86	5.2
99.212	184.15	63.5	63.5	52.388	6.4	3.2	445	687	2100	3200	46.2	HH421246/HH421210	115	117	161	174	6.4	3.2	0.37	1.6	0.88	7.45
	190.5	57.15	57.531	44.45	3.6	3.2	353	504	2100	3200	40	866/854	110	120	162	172	3.6	3.2	0.33	1.79	0.99	6.99
	190.5	57.15	57.531	46.038	3.6	3.2	440	602	2100	3200	42.5	HH221442/HH221410	110	119	168	179	3.6	3.2	0.33	1.79	0.99	7.18
99.975	171.45	49.213	49.213	38.1	3.6	3.2	295	434	2200	3200	36.6	HM321245/HM321210	110	116	153	162	3.6	3.2	0.34	1.75	0.96	4.45
99.975	144.975	25.4	25.4	19.05	1.6	1.6	125	216	2200	3200	30.1	LM720646/LM720611	107	113	134	140	1.6	1.6	0.46	1.31	0.72	1.34
	156.975	42	42	34	7.9	3.6	245	396	2200	3200	32.4	HM220149/HM220110	112	120	143	150	7.9	3.6	0.33	1.8	0.99	2.9
	210	67	66.675	53.975	3.6	3.2	450	674	2200	3200	47.9	944A/933	111	135	181	193	3.6	3.2	0.33	1.84	1.01	10.9
	212.725	66.675	66.675	53.975	3.6	3.2	513	699	2200	3200	47.6	HH224334/HH224310	111	134	190	201	3.6	3.2	0.33	1.84	1.01	10.9
99.982	190.5	57.15	57.531	46.038	6.4	3.2	440	602	2200	3200	42.5	HH221447/HH221410	117	119	168	179	6.4	3.2	0.33	1.79	0.99	7.06
100	155	36	35	28	3	2.5	191	325	1900	2800	36.8	JM720249/JM720210	118	108	140	150	3	2.5	0.47	1.3	0.7	2.45
	160	41	40	32	3	2.5	239	380	1900	2800	38.2	JHM720249/JHM720210	107	119	144	155	3	2.5	0.47	1.3	0.7	3.07
	161.925	36.513	36.116	26.195	3.6	3.2	180	288	1900	2800	36	52394X/52637	111	114	142	151	3.6	3.2	0.47	1.26	0.69	2.67
	174.625	47.625	48.006	38.1	3.6	3.2	288	438	1800	2700	39.4	783/772A	111	120	156	166	3.6	3.2	0.39	1.56	0.86	4.57
	180.975	47.625	48.006	38.1	3.5	3.3	258	375	1800	2700	39.1	783/772	111	123	160	172	3.5	3.3	0.39	1.6	0.86	4.96
	189.997	57	57.531	48	6	3	353	504	1700	2600	39.8	863X/853	116	120	163	174	6	3	0.33	1.79	0.99	6.94
	190.5	57.15	57.531	44.45	6	3.3	355	500	1700	2600	41.8	863X/854	111	126	168	181	6	3.3	0.33	1.8	0.99	6.81
100.012	200	52.761	49.213	34.925	3.6	3.2	347	471	1700	2600	54.7	98394X/98788	111	123	171	185	3.6	3.2	0.63	0.95	0.52	6.91
	212.725	66.675	66.675	53.975	3.5	3.3	570	810	1700	2600	47.3	HH224334/HH224310	118	133	191	206	3.5	3.3	0.33	1.8	1	11.4
	250.825	76.2	73.025	50.8	6.4	3.2	442	575	1700	2600	72.4	EE215039/215096	117	140	201	225	6.4	3.2	0.7	0.85	0.47	17.3
	157.162	36.512	36.116	26.195	3.5	3.3	191	310	1900	2800	36.1	52393/52618	108	119	142	153	3.5	3.3	0.47	1.3	0.69	2.51
	161.925	39.688	36.116	29.37	3.5	3.3	191	310	1900	2800	39.2	52393/52638	108	119	143	155	3.5	3.3	0.47	1.3	0.69	2.92

Single-row Tapered Roller Bearing - Imperial



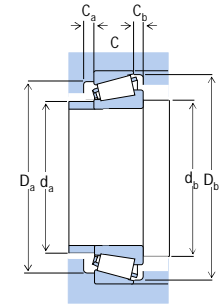
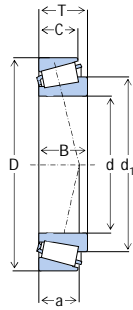
Boundary Dimensions (mm)							Basic Load Ratings (kN)		Speed Ratings (kN)		Load Center Spacing	Designations	Abutment and Fillet Dimensions						Calculation Factors			Mass (kg)	
d	D	T	B	C	r1.2min	r3.4min	Cr	Cor	Grease	Oil	a		damax	dbmin	Damax	Dbmin	ramax	rbmax	e	Y	Yo	Refer.	
100.813	174.625	47.625	47.625	38.1	3.6	3.2	288	438	1900	2800	39.4	789/772A	113	120	156	166	3.6	3.2	0.39	1.56	0.86	4.51	
101.6																							
	136.525	21.433	21.433	16.67	1.6	1.6	86	162	1900	2800	24.3	L420449/L420410	110	111	126	130	1.6	1.6	0.37	1.63	0.9	0.852	
	146.05	21.433	21.433	16.67	1.6	1.6	86.4	167	1900	2800	26.2	L521945R/L521910	110	119	134	139	1.6	1.6	0.39	1.53	0.84	1.17	
	146.05	25.4	25.4	19.05	1.6	1.6	125	216	1900	2800	30.1	LM720648/LM720610	110	113	134	140	1.6	1.6	0.46	1.31	0.72	1.32	
	157.162	36.512	36.116	26.195	3.5	3.3	191	310	1900	2800	36.1	52400/52618	109	120	142	153	3.5	3.3	0.47	1.3	0.69	2.45	
	161.925	36.512	36.116	26.195	3.5	3.3	191	310	1900	2800	36.1	52400/52637	109	120	144	155	3.5	3.3	0.47	1.3	0.69	2.69	
	168.275	41.275	41.275	34.925	3.5	3.3	223	345	1900	2800	38.3	687/672A	109	121	149	162	3.5	3.3	0.47	1.3	0.7	3.49	
	168.275	41.275	41.275	30.162	3.5	3.3	223	345	1900	2800	38.3	687/672	109	121	149	161	3.5	3.3	0.47	1.3	0.7	3.39	
	174.625	47.625	48.006	38.1	3.6	3.2	288	438	1900	2800	39.4	780/772A	114	120	156	166	3.6	3.2	0.39	1.56	0.86	4.47	
	180	48	50.8	40	3.6	3	288	438	1800	2600	39.8	781X/773	114	120	156	167	3.6	3	0.39	1.56	0.86	5.05	
	180.975	47.625	48.006	38.1	3.5	3.3	258	375	1800	2600	39.1	780/772	111	124	160	172	3.5	3.3	0.39	1.6	0.86	4.86	
	189.997	57	57.531	48	7.9	3	353	504	1800	2600	39.8	861/853	122	120	163	174	7.9	3	0.33	1.79	0.99	6.81	
	190.5	57.15	57.531	46.038	8	3.3	390	520	1800	2600	42.3	HH221449/HH221410	113	131	170	183	8	3.3	0.33	1.8	0.99	6.79	
	190.5	57.15	57.531	44.45	8	3.3	355	500	1800	2600	41.8	861/854	112	130	168	181	8	3.3	0.33	1.8	0.99	6.68	
	200	52.761	49.212	34.925	3.5	3.3	315	425	1800	2600	54.4	98400/98788	114	132	174	191	3.5	3.3	0.63	0.95	0.52	6.81	
	200.025	61.912	57.531	50.8	8	3.3	390	520	1800	2600	47	HH221449/HH221416	113	131	174	188	8	3.3	0.33	1.8	0.99	8.29	
	212.725	66.675	66.675	53.975	7	3.3	570	810	950	1400	47.3	HH224335/HH224310	119	137	191	206	7	3.3	0.33	1.8	1	11.2	
	212.725	66.675	66.675	53.975	7	3.3	475	700	950	1400	46.9	941/932	118	136	187	201	7	3.3	0.33	1.8	1	11.2	
	214.313	55.563	52.388	39.688	3.6	3.2	404	578	950	1400	62.3	H924033/H924010	134	114	185	203	3.6	3.2	0.67	0.89	0.49	9.21	
	250.825	76.2	73.025	50.8	6.4	6.4	485	635	1500	2000	72.8	EE215040/215098	122	146	207	236	6.4	6.4	0.7	0.86	0.47	17	
	250.825	76.2	73.025	50.8	6.4	6.4	530	645	1500	2000	73.3	HH923649/HH923610	118	145	210	238	6.4	6.4	0.7	0.86	0.47	16.8	
	250.825	76.2	73.025	50.8	6.4	3.3	530	645	1500	2000	73.3	HH923649/HH923611	118	145	213	238	6.4	3.3	0.7	0.86	0.47	16.8	
103.188	168.275	41.275	41.275	30.163	3.6	3.2	224	349	1500	2000	38.7	689/672	115	115	147	156	3.6	3.2	0.47	1.28	0.7	3.27	
104.775																							
	174.625	47.625	48.006	38.1	3.6	3.2	288	438	1800	2600	39.4	782/772A	117	120	156	166	3.6	3.2	0.39	1.56	0.86	4.28	
	174.625	47.625	48.006	38.1	6.4	3.2	288	438	1800	2600	39.4	786/772A	120	123	156	166	6.4	3.2	0.39	1.56	0.86	4.27	
	174.625	47.625	48.006	38.1	7.1	3.2	288	438	1800	2600	39.4	787/772A	120	124	156	166	7.1	3.2	0.39	1.56	0.86	4.26	
	180.975	47.625	48.006	38.1	3.5	3.3	258	375	1800	2600	39.1	782/772	113	125	160	172	3.5	3.3	0.39	1.6	0.86	4.67	
104.775	180.975	47.625	48.006	38.1	6.4	3.3	258	375	1800	2600	39.1	786/772	113	128	160	172	6.4	3.3	0.39	1.6	0.86	4.65	

Single-row Tapered Roller Bearing - Imperial



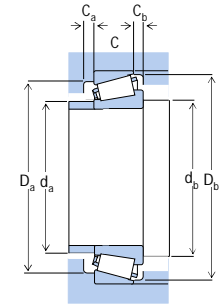
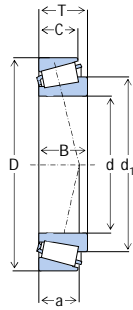
Boundary Dimensions (mm)							Basic Load Ratings (kN)		Speed Ratings (kN)		Load Center Spacing	Designations	Abutment and Fillet Dimensions						Calculation Factors			Mass (kg)
d	D	T	B	C	r1.2min	r3.4min	Cr	Cor	Grease	Oil	a		damax	dbmin	Damax	Dbmin	ramax	rbmax	e	Y	Yo	Refer.
	180.975	47.625	48.006	38.1	7	3.3	258	375	1800	2600	39.1	787/772	113	129	160	172	7	3.3	0.39	1.6	0.86	4.65
	190.5	47.625	49.212	34.925	3.5	3.3	296	465	1800	2600	40.1	71412/71750	119	131	171	183	3.5	3.3	0.42	1.4	0.79	5.71
	165.1	36.513	36.513	26.988	3.6	3.2	184	300	1900	2800	38.5	56413/56650	117	120	148	157	3.6	3.2	0.5	1.21	0.66	2.71
	177.8	41.275	41.275	30.162	3.6	3.2	227	365	1900	2800	42.8	64413/64700	117	127	160	170	3.6	3.2	0.52	1.16	0.64	3.99
106.362	165.1	36.512	36.512	26.988	3.5	3.3	195	320	1900	2800	38.6	56418/56650	114	126	148	160	3.5	3.3	0.5	1.2	0.66	2.73
	168.275	36.513	36.512	26.988	3.5	3.3	195	320	1900	2800	38.6	56418/56662	114	126	150	161	3.5	3.3	0.5	1.2	0.66	2.91
107.95	146.05	21.432	21.432	16.67	1.6	1.6	86.4	167	1900	2800	26.2	L521949R/L521910	116	119	134	139	1.6	1.6	0.39	1.53	0.84	0.99
	158.75	23.02	21.438	15.875	3.5	3.3	102	165	1900	2800	37	37425/37625	115	124	143	152	3.5	3.3	0.61	0.99	0.54	1.37
	159.987	34.925	34.925	26.988	3.5	3.3	164	315	1900	2800	33.7	LM522546/LM522510	117	126	145	154	3.5	3.3	0.4	1.5	0.82	2.43
	161.925	34.925	34.925	26.988	3.5	3.3	164	280	1900	2800	38.7	48190/48120	115	126	145	157	3.5	3.3	0.51	1.2	0.65	2.42
	165.1	36.512	36.512	26.988	3.5	3.3	195	320	1900	2800	38.6	56425/56650	115	127	148	160	3.5	3.3	0.5	1.2	0.66	2.66
	168.275	36.512	36.512	26.988	3.5	3.3	195	320	1900	2800	38.6	56425/56662	115	127	150	161	3.5	3.3	0.5	1.2	0.66	2.83
	171.45	34	30.163	25.268	3.6	3.2	177	254	1800	2600	39.3	67425/67675	120	124	153	161	3.6	3.2	0.47	1.27	0.7	2.63
	190.5	47.625	49.212	34.925	3.5	3.3	296	465	1700	2400	40.1	71425/71750	121	133	171	183	3.5	3.3	0.42	1.4	0.79	5.5
	191.975	47.625	49.213	34.925	3.6	3.2	303	483	1700	2400	40.9	71425/71753	120	131	168	177	3.6	3.2	0.42	1.44	0.79	5.58
	206.375	66.675	66.675	53.975	13.5	3.2	450	674	1700	2400	47.6	935/930	135	140	181	193	13.5	3.2	0.33	1.84	1.01	9.62
	206.375	66.675	66.675	53.975	7.9	3.2	450	674	1700	2400	47.6	936/930	129	135	181	193	7.9	3.2	0.33	1.84	1.01	9.69
	212.725	66.675	66.675	53.975	8	3.3	570	810	1700	2400	47.3	HH224340/HH224310	122	142	191	206	8	3.3	0.33	1.8	1	10.6
	212.725	66.675	66.675	53.975	8	3.3	475	700	1700	2400	46.9	936/932	121	140	187	201	8	3.3	0.33	1.8	1	10.7
109.538	158.75	23.02	21.438	15.875	6.4	6.4	104	169	1900	2800	36.5	37431/37625	120	122	142	148	6.4	6.4	0.61	0.99	0.54	1.33
109.9	212.725	66.675	74	53.975	SP	3.2	450	674	1800	2600	47.6	937XA/932	115	135	181	193	SP	3.2	0.33	1.84	1.01	10.7
109.952	190.5	47.625	49.212	34.925	3.5	3.3	296	465	1800	2600	40.1	71432/71750	122	134	171	183	3.5	3.3	0.42	1.4	0.79	5.37
	199.975	50	49.213	36.8	3.6	4	303	483	1800	2600	43.3	71432/71788	122	131	167	177	3.6	4	0.42	1.44	0.79	6.3
109.974	177.8	41.275	41.275	30.162	3.5	3.3	251	415	1800	2600	42	64432/64700	123	126	164	171	3	3	0.52	1.15	0.6	3.7
	180	41.275	41.275	30.162	3.5	3.3	251	415	1800	2600	42	64432/64708	123	126	166	171	3	3	0.52	1.15	0.6	3.9
109.985	214.313	55.563	52.388	39.688	3.6	3.2	404	578	1800	2600	62.3	H924043/H924010	122	134	185	203	3.6	3.2	0.67	0.89	0.49	8.65
	159.987	34.925	34.925	26.988	8	3.3	164	315	1900	2800	33.7	LM522548/LM522510	118	132	145	154	8	3.3	0.4	1.5	0.82	2.31

Single-row Tapered Roller Bearing - Imperial



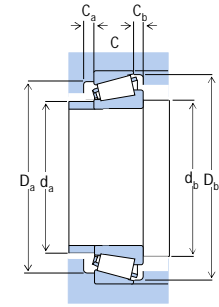
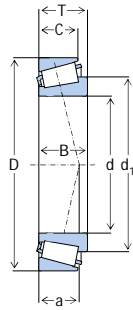
Boundary Dimensions (mm)							Basic Load Ratings (kN)		Speed Ratings (kN)		Load Center Spacing	Designations	Abutment and Fillet Dimensions						Calculation Factors			Mass (kg)
d	D	T	B	C	r1.2min	r3.4min	Cr	Cor	Grease	Oil	a		damax	dbmin	Damax	Dbmin	ramax	rbmax	e	Y	Yo	Refer.
	159.987	34.925	34.925	26.988	3.5	3.3	164	315	1900	2800	33.7	LM522549/LM522510 LM522549/LM522518	118	127	145	154	3.5	3.3	0.4	1.5	0.82	2.33
	164.737	37.313	34.925	32.131	3.6	2.4	184	319	1800	2600	35.3		121	122	146	155	3.6	2.4	0.4	1.5	0.82	2.62
109.992	177.8	41.275	41.275	30.162	3.5	3.3	232	375	1800	2600	42.4	64433/64700	119	132	160	173	3.5	3.3	0.52	1.2	0.64	3.75
	178	41.275	41.275	30.163	3.6	3	227	365	1800	2600	42.8	64433/64701X	122	127	160	170	3.6	3	0.52	1.16	0.64	3.73
	180	41.275	41.275	30.162	3.5	3.3	232	375	1800	2600	42.4	64433/64708	123	126	166	171	3	3	0.52	1.15	0.6	3.9
110	165	35	35	26.5	3	2.5	195	320	1800	2600	38.1	JM822049/JM822010	116	127	149	160	3	2.5	0.5	1.2	0.66	2.48
	180	47	46	38	3	2.5	310	490	1800	2600	40.9	JHM522649/JHM522610	118	131	162	174	3	2.5	0.41	1.5	0.81	4.62
	186.975	45	49.213	35.001	3.6	5.2	303	483	1800	2600	38.3	71433X/71736	122	131	169	179	3.6	5.2	0.42	1.44	0.79	4.92
	206.35	66.675	66.675	53.975	6.4	3.2	450	674	1800	2600	47.6	942/930	128	135	181	193	6.4	3.2	0.33	1.84	1.01	9.53
	212.725	66.675	66.675	53.975	6.4	3.2	450	674	1800	2600	47.6	942/932	128	135	181	193	6.4	3.2	0.33	1.84	1.01	10.4
110.333	171.45	34	30.163	25.268	3.6	3.2	177	254	1800	2600	39.3	67434/67675	123	124	153	161	3.6	3.2	0.47	1.27	0.7	2.53
111.125	171.45	34	30.163	25.268	3.6	3.2	177	254	1800	2600	39.3	67437/67675	123	124	153	161	3.6	3.2	0.47	1.27	0.7	2.5
	180.975	41.275	41.275	30.163	3.6	3.2	227	365	1800	2600	42.8	64437/64713	123	127	160	170	3.6	3.2	0.52	1.16	0.64	3.86
	186.975	45	49.212	35.001	3.6	3.2	303	483	1800	2600	38.3	71437/71736	123	131	169	179	3.6	5.2	0.42	1.44	0.79	4.85
	190.5	47.625	49.212	34.925	3.5	3.3	296	465	1800	2600	40.1	71437/71750	122	135	171	183	3.5	3.3	0.42	1.4	0.79	5.29
	214.312	55.562	52.388	39.688	3.5	3.3	355	490	1800	2600	62.4	H924045/H924010	124	143	187	206	3.5	3.3	0.67	0.89	0.49	8.32
	206.375	66.675	66.675	53.975	13.5	3.2	450	674	1800	2600	47.6	947/930	135	144	181	193	13.5	3.2	0.33	1.84	1.01	9.26
114.3	152.4	21.433	21.433	16.67	1.5	1.5	89.5	178	1800	2600	27.4	L623149/L623110	121	127	142	148	1.5	1.5	0.41	1.5	0.8	1.07
	155.575	21.433	21.433	21.433	1.6	1.6	96.4	197	1800	2600	27.7	L623149/L623114	123	125	142	148.1	1.6	0.41	1.45	0.8		1.24
	177.8	41.275	41.275	30.162	3.5	3.3	232	375	1800	2600	42.4	64450/64700	122	135	160	173	3.5	3.3	0.52	1.2	0.64	3.5
	178	41.275	41.275	30.163	3.6	3	227	365	1800	2600	42.8	64450/64701X	127	127	160	170	3.6	3	0.52	1.16	0.64	3.49
	179.975	34.925	31.75	25.4	3.6	0.8	171	247	1800	2600	40.7	68450/68709	127	131	161	169	3.6	0.8	0.5	1.21	0.66	2.87
	179.975	34.925	31.75	25.4	3.6	0.8	171	247	1800	2600	40.7	68450A/68709	127	131	161	169	3.6	0.8	0.5	1.21	0.66	2.87
	180	41.275	41.275	30.162	3.5	3.3	232	375	1800	2600	42.4	64450/64708	122	135	166	171	3.5	3.3	0.52	1.2	0.64	3.8
	180	34.925	31.75	25.4	3.5	0.8	174	254	1800	2600	40	68450/68709	124	134	165	173	3.5	0.8	0.5	1.2	0.66	2.95
114.3	180.975	34.925	31.75	25.4	3.5	3.3	174	254	1800	2600	40	68450/68712	124	134	163	174	3.5	3.3	0.5	1.2	0.66	2.93
	186.975	45	49.212	35.001	3.6	5.2	303	483	1800	2600	38.3	71450/71736	127	131	169	179	3.6	5.2	0.42	1.44	0.79	4.64
	186.975	45	49.212	35.001	3.6	5.2	303	483	1800	2600	38.3	71451/71736	127	131	169	179	3.6	5.2	0.42	1.44	0.79	4.64

Single-row Tapered Roller Bearing - Imperial



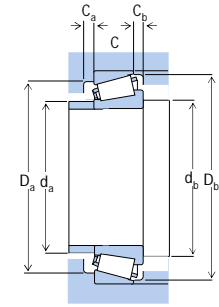
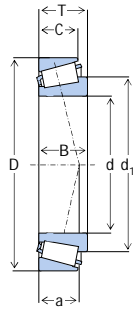
Boundary Dimensions (mm)							Basic Load Ratings (kN)		Speed Ratings (kN)		Load Center Spacing	Designations	Abutment and Fillet Dimensions						Calculation Factors			Mass (kg)
d	D	T	B	C	r1.2min	r3.4min	Cr	Cor	Grease	Oil	a		d _{amax}	d _{bmin}	D _{amax}	D _{bmin}	r _{amax}	r _{bmax}	e	Y	Y ₀	Refer.
	190.5	47.625	49.212	34.925	3.5	3.3	296	465	1700	2400	40.1	71450/71750	124	135	171	183	3.5	3.3	0.42	1.4	0.79	5.07
	192	47.625	49.212	34.925	3.5	3.3	296	465	1700	2400	40	71450/71753	124	136	178	178	3	3	0.42	1.4	0.79	5.4
	206.375	66.675	66.675	53.975	7.1	3.2	450	674	1700	2400	47.6	938/930	134	135	181	193	7.1	3.2	0.33	1.84	1.01	9.13
	212.725	66.675	66.675	53.975	7	3.3	570	810	1700	2400	47.3	HH224346/HH224310	125	144	191	206	7	3.3	0.33	1.8	1	10.1
	212.725	66.675	66.675	53.975	7	3.3	475	700	1700	2400	46.9	938/932	124	142	187	201	7	3.3	0.33	1.8	1	10.1
	212.725	66.675	66.675	53.975	7	3.3	512	765	1700	2400	47	HH224346/HH224310	132	136	201	202	6	3	0.33	1.8	1	10.5
	228.6	53.975	49.428	38.1	3.5	3.3	375	530	1300	1800	67.7	HM926740/HM926710	133	152	201	223	3.5	3.3	0.74	0.81	0.45	9.52
	228.6	53.975	49.428	38.1	3.5	3.3	330	475	1300	1800	67.5	97450/97900	131	151	198	219	3.5	3.3	0.74	0.82	0.45	9.52
	273.05	82.55	82.55	53.975	6.4	6.4	685	870	1200	2000	77	HH926744/HH926710	134	162	234	261	6.4	6.4	0.63	0.95	0.52	21.8
	279.4	82.55	82.55	53.975	6.4	6.4	660	909	1200	2000	77.8	EE514045/514110	132	159	228	252	6.4	6.4	0.65	0.92	0.51	24.2
	279.4	82.55	82.55	53.975	6.4	6.4	685	870	1200	2000	77	HH926744/HH926716	134	162	237	264	6.4	6.4	0.63	0.95	0.52	23
114.976	177.8	41.275	41.275	30.162	3.6	3.2	227	365	1800	2600	42.8	64452/64700	127	127	160	170	3.6	3.2	0.52	1.16	0.64	3.43
	177.8	41.275	41.275	30.162	9	3.3	251	415	1800	2600	42	64452A/64700	126	135	164	171	8	3	0.52	1.15	0.6	3.55
	180	41.275	41.275	30.162	9	3.3	251	415	1800	2600	42	64452A/64708	126	135	166	171	8	3	0.52	1.15	0.6	3.75
	212.725	66.675	66.675	53.975	7	3.3	570	810	1100	1600	47.3	HH224349/HH224310	125	144	191	206	7	3.3	0.33	1.8	1	10
115	177.8	41.275	41.275	30.162	3.5	3.3	232	375	1800	2600	42.4	64452/64700	122	135	160	173	3.5	3.3	0.52	1.2	0.64	3.46
115.087	186.975	45	49.212	35.001	3.6	5.2	303	483	1800	2600	38.3	71453/71736	127	131	169	179	3.6	5.2	0.42	1.44	0.79	4.58
	186.975	45	49.212	35.001	7.9	5.2	303	483	1800	2600	38.3	71455/71736	131	136	169	179	7.9	5.2	0.42	1.44	0.79	4.55
	190.5	47.625	49.212	34.925	3.5	3.3	296	465	1800	2600	40.1	71453/71750	124	137	171	183	3.5	3.3	0.42	1.4	0.79	5.02
	190.5	47.625	49.212	34.925	7.9	3.2	303	483	1800	2600	40.9	71455/71750	131	136	168	177	7.9	3.2	0.42	1.44	0.79	4.97
117.373	195.263	53.975	57.15	44.45	1.6	3.2	365	599	1800	2600	35.9	HM124644/HM124618	126	136	173	181	1.6	3.2	0.26	2.27	1.25	6.36
117.475	179.975	34.925	31.75	25.4	3.6	0.8	171	247	1800	2600	40.7	68462/68709	130	131	161	169	3.6	0.8	0.5	1.21	0.66	2.73
	179.975	34.925	31.75	25.4	7.9	0.8	171	247	1800	2600	40.7	68463/68709	131	138	161	169	7.9	0.8	0.5	1.21	0.66	2.7
	180.975	34.925	31.75	25.4	3.5	3.3	174	254	1800	2600	40	68462/68712	125	135	163	174	3.5	3.3	0.5	1.2	0.66	2.78
117.975	186.975	42.376	45	35.001	5.2	5.2	303	483	1800	2600	38.4	71464/71736	131	133	169	179	5.2	5.2	0.42	1.44	0.79	4.2
119.063	195.263	53.975	57.15	44.45	1.6	3.2	365	599	1700	2500	35.9	HM124646/HM124618	127	136	173	181	9.5	1.6	0.26	2.27	1.25	6.22

Single-row Tapered Roller Bearing - Imperial



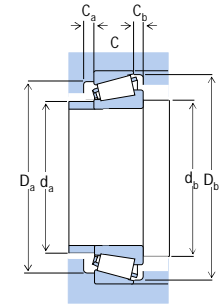
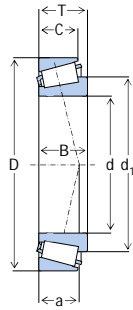
Boundary Dimensions (mm)							Basic Load Ratings (kN)		Speed Ratings (kN)		Load Center Spacing	Designations	Abutment and Fillet Dimensions						Calculation Factors			Mass (kg)
d	D	T	B	C	r1.2min	r3.4min	Cr	Cor	Grease	Oil	a			damax	dbmin	Damax	Dbmin	ramax	rbmax	e	Y	Yo
119.949	195.263	53.975	57.15	44.45	3	3.2	365	599	1700	2500	35.9	HM124649/HM124618 HM125943/HM125910	131	136	173	181	9.5	3	0.26	2.27	1.25	6.14
	204.775	55.563	60.325	45.237	3.2	3.2	412	658	1700	2500	41.1		131	142	183	192	10.3	3.2	0.3	1.97	1.08	7.48
119.95	230	63.5	68.715	49.213	6.4	3.2	523	826	1700	2500	49.9	95471/95905	138	155	204	216	14.3	6.4	0.37	1.62	0.89	12
119.964	215	47.625	47.625	34.925	3.5	3.3	287	495	1700	2500	48.4	74472/74846X	140	153	195	208	3.5	3.3	0.49	1.2	0.68	7.33
	215.9	47.625	47.625	34.925	3.5	3.3	287	495	1700	2500	48.4	74472/74850	140	153	195	209	3.5	3.3	0.49	1.2	0.68	7.42
119.975	166.688	25.4	25.4	19.05	3.2	3.2	137	229	1700	2500	32.9	L724348/L724310	130	131	154	160	3.2	3.2	0.46	1.31	0.72	1.57
	172.242	35.72	36.513	27.783	3.6	1.6	208	362	1700	2500	32.1	M224748/M224711	132	133	159	166	3.6	1.6	0.33	1.8	0.99	2.58
	179.975	36	36	26	3.6	1.6	212	348	1700	2500	35.6	M624649/M624610	132	134	164	171	3.6	1.6	0.41	1.45	0.8	3.02
	254	77.788	82.55	61.913	4	6.4	717	1050	1700	2500	54	HH228336/HH228310	133	158	220	233	4	6.4	0.32	1.87	1.03	18.7
	259.975	77.788	82.55	61.913	4	4	717	1050	1800	2600	54	HH228336/HH228318	133	158	220	233	4	4	0.32	1.87	1.03	19.9
120	170	25.4	25.4	19.05	3.3	3.3	130	219	1800	2600	32.9	JL724348/JL724314	127	135	155	164	3.3	3.3	0.46	1.3	0.72	1.67
	174.625	35.72	36.512	27.783	3.5	1.5	212	385	1800	2600	32.2	M224748/M224710	126	137	162	169	3.5	1.5	0.33	1.8	0.99	2.76
	214.975	47.625	47.625	34.925	4	3.2	322	549	1800	2600	49.7	74473X/74845	133	156	193	205	4	3.2	0.49	1.23	0.68	7.24
	230	53.975	49.428	38.1	3.5	3.3	330	475	1800	2600	67.6	97472X/97905X	134	154	199	220	3.5	3.3	0.74	0.82	0.45	9.27
120.65	160.338	21.433	21.433	16.67	1.5	1.5	92.5	190	1800	2600	29.3	L624549/L624510	127	133	150	155	1.5	1.5	0.44	1.4	0.76	1.18
	166.688	25.4	25.4	19.05	3.2	3.2	137	229	1800	2600	32.9	L724349/L724310	130	132	154	160	3.2	3.2	0.46	1.31	0.72	1.54
	169.862	25.4	26.195	20.638	1.5	1.5	132	265	1800	2600	28	L225842/L225810	129	138	160	162	1	1	0.33	1.8	1	1.85
	169.975	25.4	25.4	19.05	3.2	3.2	137	229	1800	2600	32.9	L724349/L724314	130	130	154	160	3.2	3.2	0.46	1.31	0.72	1.67
	174.625	35.72	36.513	27.783	3.6	1.6	208	362	1800	2600	32.1	M224749/M224710	133	133	159	166	3.6	1.6	0.33	1.8	0.99	2.69
	182.562	39.688	38.1	33.338	3.5	3.3	228	445	1700	2400	34.2	48282/48220	132	132	167	177	3.5	3.3	0.31	2	1.1	3.69
	182.562	39.688	38.1	33.338	3.6	3.2	227	429	1700	2400	34.1	48282/48220XX	133	141	166	173	3.6	3.2	0.31	1.97	1.08	3.6
	190.5	46.038	46.038	34.925	3.5	1.5	314	540	1700	2400	42	HM624749/HM624710	131	135	180	182	3	1	0.43	1.4	0.8	4.85
	199.974	46.038	46.038	34.925	3.6	1.6	313	512	1700	2400	41.6	HM624749/HM624716	133	135	172	182	3.6	1.6	0.43	1.41	0.77	5.43
	206.375	47.625	47.625	34.925	3.3	3.3	320	530	1700	2400	45.7	795/792	149	134	186	199	3.3	3.3	0.46	1.3	0.72	6.35
120.65	230	63.5	63.5	49.213	6.4	3.2	523	826	1600	2300	49.9	95475/95905	139	155	204	216	6.4	3.2	0.37	1.62	0.89	11.6
	234.95	63.5	63.5	49.212	6.4	3.3	510	790	1600	2300	50.5	95475/95925	159	140	212	226	6.4	3.3	0.37	1.6	0.89	12.3
	254	77.788	82.55	57.15	9.5	6.4	692	1010	1400	1900	51.1	EE153044/153100	145	156	217	230	9.5	6.4	0.32	1.87	1.03	18.4
	254	77.788	82.55	61.913	9.7	6.4	675	975	1400	1900	55	HH228340/HH228310	163	140	223	242	9.7	6.4	0.34	1.8	0.97	18.4

Single-row Tapered Roller Bearing - Imperial



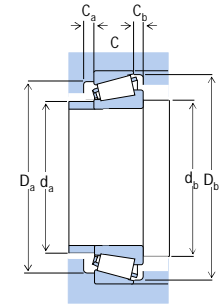
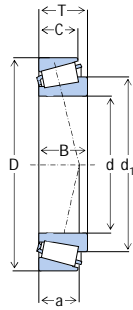
Boundary Dimensions (mm)							Basic Load Ratings (kN)		Speed Ratings (kN)		Load Center Spacing	Designations	Abutment and Fillet Dimensions						Calculation Factors			Mass (kg)
d	D	T	B	C	r1.2min	r3.4min	Cr	Cor	Grease	Oil	a		damax	dbmin	Damax	Dbmin	ramax	rbmax	e	Y	Yo	Refer.
	258.763	77.788	82.55	61.912	9.5	6.4	717	1050	1400	1900	54	HH228340/HH228315	145	158	220	233	9.5	6.4	0.32	1.87	1.03	19.5
	273.05	82.55	82.55	53.975	6.4	6.4	685	870	1300	1800	77	HH926749/HH926710	165	137	234	261	6.4	6.4	0.63	0.95	0.52	21
	279.4	82.55	82.55	53.975	6.4	6.4	685	870	1300	1800	77	HH926749/HH926716	165	137	237	264	6.4	6.4	0.63	0.95	0.52	22.2
123.825	182.562	39.688	38.1	33.338	3.5	3.3	228	445	1300	1800	34.2	48286/48220	143	134	167	177	3.5	3.3	0.31	2	1.1	3.51
	212.725	55.563	60.325	45.237	3.2	3.2	412	658	1300	1800	41.1	HM125948/HM125918	135	142	183	192	3.2	3.2	0.3	1.97	1.08	8.05
	258.763	77.788	82.55	57.15	9.5	6.4	692	1010	1200	1700	51.1	EE153049/153101	148	156	217	230	9.5	6.4	0.32	1.87	1.03	18.8
	259.975	77.788	82.55	61.913	9.5	4	717	1050	1200	1700	54	HH228334/HH228318	148	158	220	233	9.5	4	0.32	1.87	1.03	19.4
124.943	231.775	63.5	63.5	49.213	6.4	3.2	523	826	1200	1700	49.9	95491/95912	143	155	204	216	6.4	3.2	0.37	1.62	0.89	11.5
	234.95	63.5	63.5	49.212	6.4	3.3	510	790	1200	1700	50.5	95491/95925	162	142	212	226	6.4	3.3	0.37	1.6	0.89	11.9
125	175	25.4	25.4	18.288	3.3	3.3	134	232	1200	1700	34.3	JL725346/JL725316	141	131	160	170	3.3	3.3	0.48	1.3	0.69	1.76
125.298	228.6	53.975	49.428	38.1	3.5	3.3	375	530	1800	2600	67.7	HM926745/HM926710	157	138	201	223	3.5	3.3	0.74	0.81	0.45	8.72
	228.6	53.975	49.428	38.1	3.6	3.2	325	459	1800	2600	65.6	97493/97900	138	144	194	212	3.6	3.2	0.74	0.81	0.45	8.37
127	165.895	18.258	17.462	13.495	1.5	1.5	84.5	149	1800	2600	24.2	LL225749/LL225710	138	133	157	161	1.5	1.5	0.33	1.8	0.99	0.93
	169.862	25.4	26.195	20.638	1.5	1.5	123	251	1800	2600	28.1	L225849/L225810	140	134	159	165	1.5	1.5	0.33	1.8	0.99	1.65
	180.975	25.4	26.195	20.638	1.5	1.5	123	251	1700	2400	28.1	L225849/L225818	140	134	165	170	1.5	1.5	0.33	1.8	0.99	2.14
	182.562	39.688	38.1	33.338	3.5	3.3	228	445	1700	2400	34.2	48290/48220	145	135	167	177	3.5	3.3	0.31	2	1.1	3.33
	196.85	46.038	46.038	38.1	3.5	3.3	315	560	1600	2200	39.7	67388/67322	150	139	180	192	3.5	3.3	0.34	1.7	0.96	5.2
	203.2	46.038	46.038	38.1	3.5	3.3	315	560	1600	2200	39.7	67388/67320	150	139	183	195	3.5	3.3	0.34	1.7	0.96	5.8
	206.375	47.625	47.625	34.925	3.6	3.2	326	548	1600	2200	45.7	796x/793	139	146	183	194	3.6	3.2	0.46	1.31	0.72	5.93
	206.375	47.625	50.013	34.925	3.2	3.2	326	548	1600	2200	45.7	798/792	138	146	183	194	3.3	3.2	0.46	1.31	0.72	6
	215.9	47.625	47.625	34.925	3.5	3.3	287	495	1500	2000	48.4	74500/74850	157	143	195	209	3.5	3.3	0.49	1.2	0.68	6.91
	217.488	47.625	47.625	34.925	3.5	3.3	287	495	1500	2000	48.4	74500/74856	157	143	196	210	3.5	3.3	0.49	1.2	0.68	7.06
127	228.6	53.975	49.428	38.1	3.5	3.3	375	530	1500	2000	67.7	HM926747/HM926710	158	139	201	223	3.5	3.3	0.74	0.81	0.45	8.59
	228.6	53.975	49.428	38.1	3.5	3.3	330	475	1500	2000	67.5	97500/97900	157	137	198	219	3.5	3.3	0.74	0.82	0.45	8.59
	234.95	63.5	63.5	49.212	6.4	3.3	505	790	1500	2000	49.4	95500/95925	160	142	210	224	6.4	3.3	0.37	1.6	0.89	11.8
	234.95	63.5	68.715	49.212	9.7	3.3	505	790	1500	2000	49.5	95502/95925	166	143	210	224	9.7	3.3	0.37	1.6	0.89	12
	239.975	53.975	49.428	38.1	3.6	3.2	430	651	1500	2000	68.1	HM926747/HM926719	139	148	200	219	3.6	3.2	0.74	0.81	0.45	10.3

Single-row Tapered Roller Bearing - Imperial



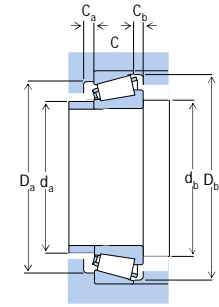
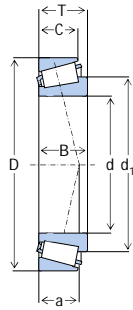
Boundary Dimensions (mm)							Basic Load Ratings (kN)		Speed Ratings (kN)		Load Center Spacing	Designations	Abutment and Fillet Dimensions						Calculation Factors			Mass (kg)
d	D	T	B	C	r1.2min	r3.4min	Cr	Cor	Grease	Oil	a		damax	dbmin	Damax	Dbmin	ramax	rbmax	e	Y	Yo	Refer.
247.65	63.5	63.5	47.625	3.3	4.8	465	640	1500	2000	50.1	EE116050/116097	158	143	219	234	3.3	4.8	0.37	1.6	0.9	12.6	
247.65	63.5	63.5	49.212	6.4	3.3	510	790	1500	2000	50.5	95500/95975	163	143	218	233	6.4	3.3	0.37	1.6	0.89	13.5	
254	66.675	66.675	47.625	6.4	3.2	549	913	1400	1900	55	99500/99100	145	174	224	236	6.4	3.2	0.41	1.47	0.81	15.5	
254	77.788	82.55	57.15	9.7	6.4	570	800	1400	1900	53.7	EE153050/153100	167	144	223	240	9.7	6.4	0.32	1.9	1	16.6	
254	77.788	82.55	61.913	9.7	6.4	675	975	1400	1900	55	HH228349/HH228310	166	143	223	242	9.7	6.4	0.34	1.8	0.97	17.6	
254	80.963	85.725	61.912	9.5	6.4	717	1050	1400	1900	54.1	HH228348/HH228310	151	158	220	233	9.5	6.4	0.32	1.87	1.03	18.1	
260.35	77.788	82.55	57.15	9.5	6.4	692	1010	1400	1900	51.1	EE153050/153102	151	156	217	230	9.5	6.4	0.32	1.87	1.03	18.7	
279.4	82.55	82.55	53.975	6.4	6.4	660	909	1400	1900	77.8	EE514050/514110	145	159	228	252	6.4	6.4	0.65	0.92	0.51	22.6	
288.925	82.55	87.312	57.15	13.5	6.4	770	1010	1500	2000	56.3	HH231637/HH231610	179	151	258	275	13.5	6.4	0.32	1.9	1	24.3	
295.275	82.55	87.313	57.15	13.5	6.4	765	1070	1500	2000	61.9	EE540502/541162	159	178	249	264	13.5	6.4	0.4	1.51	0.83	27.1	
295.275	82.55	87.312	57.15	13.5	6.4	770	1010	1500	2000	56.3	HH231637/HH231615	179	151	261	278	13.5	6.4	0.32	1.9	1	25.6	
304.8	60.325	61.912	41.275	6.4	6.4	635	780	1500	2000	49.2	EE750502/751200	174	158	271	285	6.4	6.4	0.33	1.8	0.99	21.4	
304.8	88.9	82.55	57.15	6.4	6.4	652	896	1500	2000	91.9	EE516050/516120	145	179	252	280	6.4	6.4	0.73	0.82	0.45	29.2	
304.8	88.9	82.55	57.15	6.4	6.4	745	1010	1500	2000	92.3	HH932132/HH932110	185	154	262	295	6.4	6.4	0.73	0.82	0.45	29.6	
127.792	228.6	53.975	49.428	3.5	3.3	375	530	1600	2100	67.7	HM926749/HM926710	158	139	201	223	3.5	3.3	0.74	0.81	0.45	8.53	
	228.6	53.975	49.428	3.6	3.2	325	459	1600	2100	65.6	97503/97900	140	144	194	212	3.6	3.2	0.74	0.81	0.45	8.18	
128.588	190.5	34.925	31.75	25.4	3.5	176	325	1700	2200	50.3	48506/48750	150	137	171	184	3.5	3.3	0.65	0.92	0.51	3.24	
	206.375	47.625	47.625	34.925	3.3	3.3	320	530	1700	2200	45.7	799/792	153	138	186	199	3.3	3.3	0.46	1.3	0.72	5.77
129.967	234.95	63.5	68.715	49.213	3.2	3.2	523	826	1700	2200	49.9	95514X/95926	141	155	204	216	3.2	3.2	0.37	1.62	0.89	11.6
129.975	234.95	63.5	63.5	49.213	6.4	3.2	523	826	1700	2200	49.9	95512/95925	148	155	204	216	6.4	3.2	0.37	1.62	0.89	11.4
130	206.375	47.625	47.625	34.925	3.5	3.3	320	530	1700	2200	45.7	797/792	153	139	186	199	3.5	3.3	0.46	1.3	0.72	5.66
	215.9	47.625	47.625	34.925	3.6	3.2	322	549	1700	2200	49.7	74511X/74854	142	156	193	205	3.6	3.2	0.49	1.23	0.68	6.6
130.175	196.85	46.038	46.038	38.1	3.5	3.3	315	560	1700	2200	39.7	67389/67322	152	140	180	192	3.5	3.3	0.34	1.7	0.96	4.97
	203.2	46.038	46.038	38.1	3.5	3.3	315	560	1700	2300	39.7	67389/67320	152	140	183	195	3.5	3.3	0.34	1.7	0.96	5.57
	206.375	47.625	47.625	34.925	3.5	3.3	320	530	1700	2300	45.7	799A/792	154	139	186	199	3.5	3.3	0.46	1.3	0.72	5.65
133.248	190.5	39.688	39.688	33.338	3.6	3.2	236	472	1700	2300	35.9	48384XX/48320XX	145	150	175	182	3.6	3.2	0.32	1.87	1.03	3.58
133.35	177.008	25.4	26.195	20.638	1.5	1.5	124	258	1700	2300	29.5	L327249/L327210	147	141	166	172	1.5	1.5	0.35	1.7	0.95	1.73

Single-row Tapered Roller Bearing - Imperial



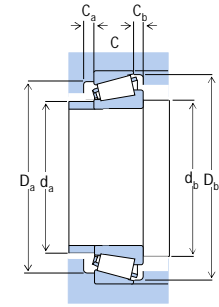
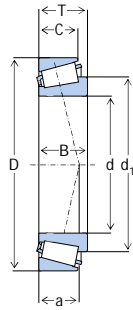
Boundary Dimensions (mm)							Basic Load Ratings (kN)		Speed Ratings (kN)		Load Center Spacing	Designations	Abutment and Fillet Dimensions						Calculation Factors			Mass (kg)
d	D	T	B	C	r1.2min	r3.4min	Cr	Cor	Grease	Oil	a		dmax	dbmin	Damax	Dbmin	ramax	rbmax	e	Y	Yo	Refer.
190.5	39.688	39.688	33.338	3.5	3.3	240	485	1700	2400	35.9	48385/48320	153	142	175	185	3.5	3.3	0.32	1.9	1	3.74	
196.85	46.038	46.038	38.1	3.5	3.3	315	560	1600	2200	39.7	67390/67322	153	142	180	192	3.5	3.3	0.34	1.7	0.96	4.74	
196.85	46.038	46.038	38.1	8	3.3	315	560	1600	2200	39.7	67391/67322	158	142	180	192	8	3.3	0.34	1.7	0.96	4.7	
203.2	39.688	39.688	33.338	3.5	3.3	240	485	1600	2200	35.9	48385/48328	153	142	182	191	3.5	3.3	0.32	1.9	1	4.76	
203.2	46.038	46.038	38.1	3.5	3.3	315	560	1600	2200	39.7	67390/67320	153	142	183	195	3.5	3.3	0.34	1.7	0.96	5.33	
203.2	46.038	46.038	38.1	8	3.3	315	560	1600	2200	39.7	67391/67320	158	142	183	195	8	3.3	0.34	1.7	0.96	5.29	
203.2	46.038	46.038	46.038	3.6	3.2	311	561	1600	2200	39.7	67390/67324	146	148	182	192	3.6	3.2	0.34	1.74	0.96	5.42	
215	47.625	47.625	34.925	3.5	3.3	287	495	1500	2000	48.4	74525/74846X	160	147	195	208	3.5	3.3	0.49	1.2	0.68	6.34	
215.9	47.625	47.625	34.925	3.5	3.3	287	495	1500	2000	48.4	74525/74850	160	147	195	209	3.5	3.3	0.49	1.2	0.68	6.42	
217.488	47.625	47.625	34.925	3.5	3.3	287	495	1500	2000	48.4	74525/74856	160	147	196	210	3.5	3.3	0.49	1.2	0.68	6.57	
234.95	63.5	63.5	49.212	9.7	3.3	510	790	1500	2000	50.5	95525/95925	169	146	212	226	9.7	3.3	0.37	1.6	0.89	11	
234.95	63.5	63.5	49.212	4.8	3.3	510	790	1500	2000	50.5	95528/95925	164	146	212	226	4.8	3.3	0.37	1.6	0.89	11	
133.35	234.975	63.5	63.5	49.212	9.7	3.3	510	790	1500	2000	50.5	95525/95928	169	146	212	227	9.7	3.3	0.37	1.6	0.89	11
234.975	63.5	63.5	49.212	4.8	3.3	510	790	1500	2000	50.5	95528/95928	164	146	212	227	4.8	3.3	0.37	1.6	0.89	11	
234.975	63.5	68.715	49.212	3.2	3.2	523	826	1500	2000	49.9	95529X/95925	145	155	204	216	3.2	3.2	0.37	1.62	0.89	11.3	
234.975	64.798	63.5	49.949	9.5	3.2	523	826	1500	2000	51.2	95525/95929	157	155	204	216	9.5	3.2	0.37	1.62	0.89	11.1	
247.65	63.5	63.5	49.213	13.2	3.2	523	826	1500	2000	49.9	95527A/95975	165	155	204	216	13.2	3.2	0.37	1.62	0.89	12.8	
247.65	63.5	63.5	49.212	9.7	3.3	510	790	1500	2000	50.5	95525/95975	169	146	218	233	9.7	3.3	0.37	1.6	0.89	12.8	
247.65	63.5	63.5	49.212	4.8	3.3	510	790	1500	2000	50.5	95528/95975	164	146	218	233	4.8	3.3	0.37	1.6	0.89	12.9	
134.975	215.9	53.975	47.625	47.625	3.6	3.2	322	549	1700	2400	56.1	74529/74853	147	156	193	209	3.6	3.2	0.49	1.23	0.68	6.92
136.525	187.325	28.575	29.37	23.02	1.6	1.6	178	323	1700	2400	31.7	LM328444/LM328410	14.7	151	175	181	1.6	1.6	0.35	1.69	0.93	2.24
190.5	39.688	39.688	33.338	3.5	3.3	240	485	1700	2400	35.9	48393/48320	154	144	175	185	3.5	3.3	0.32	1.9	1	3.53	
136.525	190.5	39.688	39.688	33.338	5.5	3.3	246	500	1700	2400	35	48393A/48320	151	140	176	182	5	3	0.33	1.8	1	3.3
203.2	39.688	39.688	33.338	3.6	3.2	236	472	1700	2400	35.9	48393/48328	149	150	175	182	3.6	3.2	0.32	1.87	1.03	4.38	
215	47.625	47.625	34.925	3.5	3.3	287	495	1700	2400	48.4	74537/74846X	162	148	195	208	3.5	3.3	0.49	1.2	0.68	6.09	
215.9	47.625	47.625	34.925	3.5	3.3	287	495	1700	2400	48.4	74537/74850	162	148	195	209	3.5	3.3	0.49	1.2	0.68	6.17	
217.488	47.625	47.625	34.925	3.5	3.3	287	495	1700	2400	48.4	74537/74856	162	148	196	210	3.5	3.3	0.49	1.2	0.68	6.32	
228.6	57.15	57.15	44.45	3.5	3.3	380	620	1600	2300	51.5	896/892	163	149	204	219	3.5	3.3	0.42	1.4	0.78	8.86	

Single-row Tapered Roller Bearing - Imperial



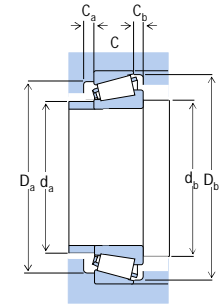
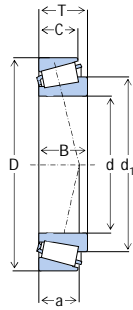
Boundary Dimensions (mm)							Basic Load Ratings (kN)		Speed Ratings (kN)		Load Center Spacing	Designations	Abutment and Fillet Dimensions						Calculation Factors			Mass (kg)
d	D	T	B	C	r1.2min	r3.4min	Cr	Cor	Grease	Oil	a		damax	dbmin	Damax	Dbmin	ramax	rbmax	e	Y	Yo	Refer.
	249.975	66.675	66.675	53.401	7.1	3	549	913	1600	2300	55	99537/99097	156	174	225	240	7.1	3	0.41	1.47	0.81	14.1
	254	66.675	66.675	47.625	7	3.3	515	830	1600	2300	55.3		99537/99100	178	157	230	245	7	3.3	0.41	1.5	0.81
137.317	254	66.675	66.675	47.625	13.5	3.2	549	913	1600	2300	55	99540/99100	169	174	224	236	13.5	3.2	0.41	1.47	0.81	14.3
139.7	180.975	21.433	20.638	16.67	1.5	1.5	104	194	1600	2300	29.8	LL428349/LL428310	152	147	171	176	1.5	1.5	0.37	1.6	0.9	1.36
	187.325	28.575	29.37	23.02	1.5	1.5	153	305	1600	2300	31.7	LM328448/LM328410	155	148	176	182	1.5	1.5	0.36	1.7	0.93	2.26
	200.025	41.275	39.688	34.13	3.6	3.3	246	491	1500	2000	38.6	48680/48620	152	156	183	190	3.6	3.3	0.34	1.78	0.98	4.04
	215	47.625	47.625	34.925	3.5	3.3	287	495	1500	2000	48.4	74550/74846X	163	150	195	208	3.5	3.3	0.49	1.2	0.68	5.83
	215	47.625	47.625	34.925	6.4	3.3	287	495	1500	2000	48.4	74550A/74846X	166	150	195	208	6.4	3.3	0.49	1.2	0.68	5.81
	215	47.625	53.37	34.925	12.7	3.2	322	549	1500	2000	49.7	74555/74846X	170	156	193	205	12.7	3.2	0.49	1.23	0.68	5.77
	215.9	47.625	47.625	34.925	3.5	3.3	287	495	1500	2000	48.4	74550/74850	163	150	195	209	3.5	3.3	0.49	1.2	0.68	5.92
	215.9	47.625	47.625	34.925	6.4	3.2	322	549	1500	2000	49.7	74550A/74850	158	156	193	205	6.4	3.2	0.49	1.23	0.68	5.82
	222.25	34.925	31.623	23.812	3.5	3.3	191	267	1400	1900	41.6	73551/73875	162	152	203	211	3.5	3.3	0.44	1.4	0.75	4.25
	228.6	57.15	57.15	44.45	3.5	3.3	380	620	1400	1900	51.5	898/892	165	151	204	219	3.5	3.3	0.42	1.4	0.78	8.55
	228.6	57.15	57.15	44.45	6.4	3.3	380	620	1400	1900	51.5	898A/892	168	151	204	219	6.4	3.3	0.42	1.4	0.78	8.53
	228.6	57.15	58.738	44.45	3.6	3.2	439	730	1400	1900	50.6	899/892	152	157	202	214	3.6	3.2	0.42	1.43	0.78	8.72
	236.538	57.15	56.642	44.45	3.5	3.3	455	720	1400	1900	45.9	HM231132/HM231110	168	154	216	228	3.5	3.3	0.32	1.9	1	9.63
	236.538	57.15	56.642	44.45	3.5	3.3	400	680	1400	1900	53.7	82550/82931	170	155	213	228	3.5	3.3	0.44	1.4	0.75	9.81
	236.538	57.15	60.325	44.45	3.6	3.2	499	832	1400	1900	45.2	HM231133/HM231110	152	168	213	223	3.6	3.2	0.32	1.88	1.04	10.3
	241.3	57.15	56.642	44.45	3.5	3.3	455	720	1400	1900	45.9	HM231132/HM231115	168	154	218	230	3.5	3.3	0.32	1.9	1	10.3
	241.3	57.15	56.642	44.45	3.5	3.3	400	680	1400	1900	53.7	82550/82950	170	155	215	230	3.5	3.3	0.44	1.4	0.75	10.4
139.7	250	66.675	66.675	47.625	7	3.3	515	830	1300	1800	55.3	99550/99098X	179	158	228	243	7	3.3	0.41	1.5	0.81	13.2
	250	66.675	71.438	47.625	3.2	3.2	549	913	1300	1800	55	99549/99098X	151	174	224	236	3.2	3.2	0.41	1.47	0.81	13.9
	254	66.675	66.675	47.625	7	3.3	515	830	1300	1800	55.3	99550/99100	179	158	230	245	7	3.3	0.41	1.5	0.81	13.8
	254	66.675	66.675	47.625	7.1	3.2	549	913	1300	1800	55	99550/99100S	159	174	224	236	7.1	3.2	0.41	1.47	0.81	14.1
	268.288	74.613	74.613	57.15	6.4	6.4	658	1050	1300	1800	59.4	EE107055/107105	158	177	234	249	6.4	6.4	0.39	1.55	0.85	18.8
	288.925	82.55	87.312	57.15	9.7	6.4	770	1010	1300	1800	56.3	HH231649/HH231610	182	158	258	275	9.7	6.4	0.32	1.9	1	22.6
	295.275	82.55	87.313	57.15	9.5	6.4	765	1070	1300	1800	61.9	EE540550/541162	164	178	249	264	9.5	6.4	0.4	1.51	0.83	25.4
	295.275	82.55	87.312	57.15	9.7	6.4	770	1010	1300	1800	56.3	HH231649/HH231615	182	158	261	278	9.7	6.4	0.32	1.9	1	23.9

Single-row Tapered Roller Bearing - Imperial



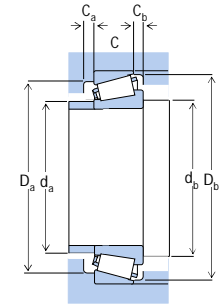
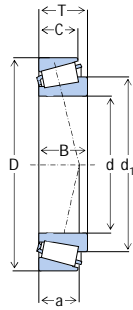
Boundary Dimensions (mm)							Basic Load Ratings (kN)		Speed Ratings (kN)		Load Center Spacing	Designations	Abutment and Fillet Dimensions						Calculation Factors			Mass (kg)
d	D	T	B	C	r1.2min	r3.4min	Cr	Cor	Grease	Oil	a		damax	dbmin	Damax	Dbmin	ramax	rbmax	e	Y	Yo	Refer.
	304.8	60.325	61.913	41.275	3.2	6.4	599	800	1300	1800	49.8	EE75058/751200	151	192	258	268	3.2	6.4	0.33	1.8	0.99	20.3
	304.8	60.325	61.913	41.275	6.4	6.4	599	800	1300	1800	49.8	EE750562/751200	158	192	258	268	6.4	6.4	0.33	1.8	0.99	20.3
	307.975	88.9	93.662	66.675	9.7	6.8	885	1190	1300	1800	63.2	HH234031/HH234010	191	165	275	294	9.7	6.8	0.33	1.8	1	29.8
	307.975	88.9	93.663	66.675	9.5	6.7	1020	1450	1300	1800	63.3	HH234032/HH234010	164	191	271	285	9.5	6.7	0.33	1.84	1.01	31.6
	311.15	88.9	82.55	57.15	6.4	6.4	652	896	1300	1800	91.9	EE516055/516122	158	179	252	280	6.4	6.4	0.73	0.82	0.45	28.8
	317.5	88.9	93.662	66.675	9.7	6.8	885	1190	1300	1800	63.2	HH234031/HH234018	191	165	279	298	9.7	6.8	0.33	1.8	1	32.2
139.975	215	47.625	47.625	34.925	3.6	3.2	322	549	1200	1700	49.7	74556/74846X	152	156	193	205	3.6	3.2	0.49	1.23	0.68	5.74
139.97	249.975	66.675	71.438	53.401	1.6	3	549	913	1200	1700	55	99553/99097	148	174	225	240	1.6	3	0.41	1.47	0.81	14
140	215	47.625	47.625	34.925	3.5	3.3	287	495	1600	2200	48.4	74551X/74846X	163	150	195	208	3.5	3.3	0.49	1.2	0.68	5.81
	215.9	47.625	47.625	34.925	3.5	3.3	287	495	1600	2200	48.4	74551/74850	163	150	195	209	3.5	3.3	0.49	1.2	0.68	5.89
	217.488	47.625	47.625	34.925	3.5	3.3	287	495	1600	2200	48.4	74551X/74856	163	150	196	210	3.5	3.3	0.49	1.2	0.68	6.04
142.875	193.675	28.575	28.575	23.02	1.6	1.6	187	375	1600	2200	33.7	36686/36620	151	157	180	186	1.6	1.6	0.37	1.63	0.9	2.41
	200.025	41.275	39.688	34.13	8	3.3	227	460	1600	2200	37.6	48684/48620	167	153	185	195	8	3.3	0.34	1.8	0.98	3.77
	200.025	41.275	39.688	34.13	3.5	3.3	227	460	1600	2200	37.6	48685/48620	162	153	185	195	3.5	3.3	0.34	1.8	0.98	3.81
	200.025	41.275	42.863	34.13	3.6	3.3	246	491	1600	2200	38.6	48686/48620	155	156	183	190	3.6	3.3	0.34	1.78	0.98	3.89
	222.25	34.925	31.623	23.813	3.6	3.2	209	302	1600	2200	41.9	73562/73875	155	163	198	205	3.6	3.2	0.44	1.37	0.75	3.2
	236.538	57.15	56.642	44.45	3.5	3.3	455	720	1600	2200	45.9	HM231136/HM231110	170	156	216	228	3.5	3.3	0.32	1.9	1	9.32
	236.538	57.15	56.642	44.45	3.5	3.3	400	680	1600	2200	53.7	82562/82931	171	156	213	228	3.5	3.3	0.44	1.4	0.75	9.5
	241.3	57.15	56.642	44.45	3.5	3.3	455	720	1600	2200	45.9	HM231136/HM231115	170	156	218	230	3.5	3.3	0.32	1.9	1	9.94
	241.3	57.15	56.642	44.45	3.5	3.3	400	680	1600	2200	53.7	82562/82950	171	156	215	230	3.5	3.3	0.44	1.4	0.75	10.1
146.05	188.12	22.225	20.638	16.67	1.5	1.5	107	200	1600	2200	33.5	LL529749/LL529710	159	153	178	183	1.5	1.5	0.42	1.4	0.79	1.44
	193.675	28.575	28.575	23.02	1.5	1.5	170	355	1600	2200	33.5	36690/36620	161	154	182	188	1.5	1.5	0.37	1.6	0.9	2.36
	193.675	28.575	28.575	23.02	4.8	1.5	170	355	1400	1900	33.5	36691/36620	164	154	182	188	4.8	1.5	0.37	1.6	0.9	2.35
	203.2	28.575	28.575	23.02	1.6	1.6	187	375	1400	1900	33.7	36690/36626	154	157	180	186	1.6	1.6	0.37	1.63	0.9	2.78
	236.538	57.15	56.642	44.45	3.5	3.3	455	720	1400	1900	45.9	HM231140/HM231110	171	158	216	228	3.5	3.3	0.32	1.9	1	9
	236.538	57.15	56.642	44.45	3.5	3.3	400	680	1400	1900	53.7	82576/82931	173	158	213	228	3.5	3.3	0.44	1.4	0.75	9.18
	241.3	57.15	56.642	44.45	3.5	3.3	400	680	1400	1900	53.7	82576/82950	173	158	215	230	3.5	3.3	0.44	1.4	0.75	9.8
146.05	244.475	47.625	50.005	33.338	3.5	3.3	330	510	1400	1900	42.9	81575/81962	175	164	225	235	3.5	3.3	0.35	1.7	0.94	8.28

Single-row Tapered Roller Bearing - Imperial



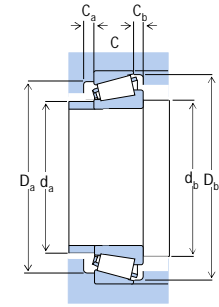
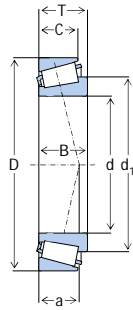
Boundary Dimensions (mm)							Basic Load Ratings (kN)		Speed Ratings (kN)		Load Center Spacing	Designations	Abutment and Fillet Dimensions						Calculation Factors			Mass (kg)
d	D	T	B	C	r1.2min	r3.4min	Cr	Cor	Grease	Oil	a		dmax	dbmin	Damax	Dbmin	ramax	rbmax	e	Y	Yo	Refer.
	254	66.675	66.675	47.625	7	3.3	515	830	1400	1900	55.3	99575/99100	182	162	230	245	7	3.3	0.41	1.5	0.81	13.1
	268.288	74.612	74.612	57.15	6.4	6.4	610	980	1400	1900	59.5	EE107057/107105	184	163	236	256	6.4	6.4	0.39	1.5	0.85	17.6
	285.75	76.2	73.025	55.563	6.4	6.4	588	882	1400	1900	60.4	EE217056/217112	164	186	246	261	6.4	6.4	0.4	1.49	0.82	20
	285.75	76.2	73.025	55.563	1.2	6.4	588	882	1400	1900	60.4	EE217064/217112	154	186	246	261	1.2	6.4	0.4	1.49	0.82	20.1
	304.8	60.325	61.913	41.275	12.7	6.4	599	800	1000	1400	49.8	EE750573/751200	177	192	258	268	12.7	6.4	0.33	1.8	0.99	19.5
	304.8	60.325	61.913	41.275	3.2	6.4	599	800	1000	1400	49.8	EE750576/751200	158	192	258	268	3.2	6.4	0.33	1.8	0.99	19.7
	304.8	60.325	61.913	41.275	6.4	6.4	599	800	1000	1400	49.8	EE750577/751200	164	192	258	268	6.4	6.4	0.33	1.8	0.99	19.6
	304.8	88.9	82.55	57.15	6.4	6.4	652	896	950	1400	91.9	EE516057/516120	164	179	252	280	6.4	6.4	0.73	0.82	0.45	26.5
	304.8	88.9	82.55	57.15	6.4	6.4	745	1010	950	1400	92.3	HH932145/HH932110	195	164	262	295	6.4	6.4	0.73	0.82	0.45	27
	307.975	88.9	93.662	61.912	9.7	6.8	745	1070	950	1400	61.5	EE450577/451212	196	171	271	289	9.7	6.8	0.33	1.8	1	28.8
146.05	307.975	88.9	93.662	66.675	9.7	6.8	885	1190	950	1400	63.2	HH234040/HH234010	194	168	275	294	9.7	6.8	0.33	1.8	1	28.7
	311.15	88.9	82.55	57.15	6.4	6.4	791	1060	950	1400	92.1	HH932145/HH932115	164	177	260	288	6.4	6.4	0.73	0.82	0.45	28.3
	311.15	88.9	82.55	57.15	6.4	6.4	745	1010	950	1400	92.3	HH932145/HH932115	195	164	265	298	6.4	6.4	0.73	0.82	0.45	28.3
	317.5	88.9	93.662	66.675	9.7	6.8	885	1190	950	1400	63.2	HH234040/HH234018	194	168	279	298	9.7	6.8	0.33	1.8	1	31.2
149.225	236.538	57.15	56.642	44.45	6.4	3.3	455	720	1100	1500	45.9	HM231148/HM231110	176	159	216	228	6.4	3.3	0.32	1.9	1	8.65
	236.538	57.15	56.642	44.45	3.5	3.3	455	720	1100	1500	45.9	HM231149/HM231110	173	159	216	228	3.5	3.3	0.32	1.9	1	8.68
	236.538	57.15	56.642	44.45	3.5	3.3	400	680	1100	1500	53.7	82587/82931	175	160	213	228	3.5	3.3	0.44	1.4	0.75	8.85
	241.3	57.15	56.642	44.45	6.4	3.3	455	720	1100	1500	45.9	HM231148/HM231115	176	159	218	230	6.4	3.3	0.32	1.9	1	9.27
	241.3	57.15	56.642	44.45	3.5	3.3	455	720	1100	1500	45.9	HM231149/HM231115	173	159	218	230	3.5	3.3	0.32	1.9	1	9.3
	241.3	57.15	56.642	44.45	3.5	3.3	400	680	1100	1500	53.7	82587/82950	175	160	215	230	3.5	3.3	0.44	1.4	0.75	9.47
	250	66.675	66.675	47.625	7.1	3.2	549	913	1100	1500	55	99587/99098X	168	174	224	236	7.1	3.2	0.41	1.47	0.81	12.4
149.86	317.5	77.788	76.2	53.975	3.2	4.8	752	1100	1100	1500	69.7	560990/561251	177	201	271	287	3.2	4.8	0.46	1.29	0.71	25.1
149.975	254	66.675	71.438	47.625	3.2	3.2	549	913	1100	1500	55	99591/99100S	161	174	224	236	3.2	3.2	0.41	1.47	0.81	13.2
150	244.475	47.498	50.005	41.275	3.6	3.2	322	494	1200	1600	41.7	81590/81962X	162	177	221	230	3.6	3.2	0.35	1.72	0.95	8.02
	244.475	47.625	50.005	33.338	3.5	3.3	330	510	1200	1600	42.9	81590/81962	177	166	225	235	3.5	3.3	0.35	1.7	0.94	7.92
	250	66.675	66.675	47.625	7.1	3.2	549	913	1200	1600	55	99590X/99098X	169	174	224	236	7.1	3.2	0.41	1.47	0.81	12.3
150.698	317.5	77.788	76.2	53.975	17.5	4.8	752	1100	1100	1500	69.7	EE560592/561251	191	201	271	287	17.5	4.8	0.46	1.29	0.71	26.9
150.813	245	47.625	50.005	33.338	3.6	3.2	322	494	1200	1600	41.8	81593/81964	163	177	219	227	3.6	3.2	0.35	1.72	0.95	7.63

Single-row Tapered Roller Bearing - Imperial



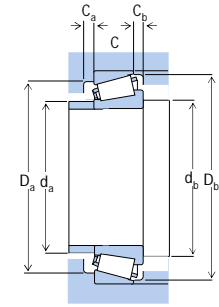
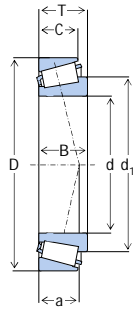
Boundary Dimensions (mm)								Basic Load Ratings (kN)		Speed Ratings (kN)		Load Center Spacing	Designations	Abutment and Fillet Dimensions						Calculation Factors			Mass (kg)
d	D	T	B	C	r1.2min	r3.4min	Cr	Cor	Grease	Oil	a	damax		dbmin	Damax	Dbmin	ramax	rbmax	e	Y	Yo	Refer.	
152.146	250	66.675	66.675	47.625	7.1	3.2	549	913	1200	1600	55	99599X/99098X	171	174	224	236	7.1	3.2	0.41	1.47	0.81	12.1	
152.4	222.25	46.83	46.83	34.925	3.3	1.5	287	530	1500	2000	41.6	M231649/M231610	175	163	207	215	3.3	1.5	0.33	1.8	0.99	5.76	
	244.475	47.625	50.005	33.338	3.5	3.3	330	510	1500	2000	42.9	81600/81962	178	167	225	235	3.5	3.3	0.35	1.7	0.94	7.7	
	250	66.675	66.675	47.625	7.1	3.2	549	913	1500	2000	55	99600/99098X	172	174	224	236	7.1	3.2	0.41	1.47	0.81	12.1	
152.4	254	66.675	66.675	47.625	7	3.3	515	830	1300	1800	55.3	99600/99100	185	165	230	245	7	3.3	0.41	1.5	0.81	12.3	
	254	66.675	71.438	47.625	1.6	3.2	549	913	1300	1800	55	99603/99100	161	174	224	236	1.6	3.2	0.41	1.47	0.81	12.8	
	266.7	66.675	71.438	50.8	6.4	3.2	602	993	1300	1800	52.6	HM234636/HM234610	170	188	240	252	6.4	3.2	0.34	1.78	0.98	15.6	
152.4	268.288	74.612	74.612	57.15	6.4	6.4	610	980	1300	1800	59.5	EE107060/107105	187	166	236	256	6.4	6.4	0.39	1.5	0.85	16.7	
	268.288	74.613	77.788	57.15	6.4	6.4	658	1050	1300	1800	59.4	107960/107105	170	177	234	249	6.4	6.4	0.39	1.55	0.85	17.2	
	269.799	74.612	74.613	57.15	6.4	6.4	658	1050	1300	1800	59.4	EE107060/107107	170	177	234	249	6.4	6.4	0.39	1.55	0.85	17.4	
	285.75	76.2	73.025	55.563	1.6	6.4	588	882	1200	1600	60.4	EE217060/217112	161	186	246	261	1.6	6.4	0.4	1.49	0.82	19.2	
	307.975	88.9	93.662	61.912	9.7	6.8	745	1070	1200	1600	61.5	EE450601/451212	199	174	271	289	9.7	6.8	0.33	1.8	1	27.7	
	307.975	88.9	93.662	66.675	9.7	6.8	885	1190	1200	1600	63.2	HH234048/HH234010	197	171	275	294	9.7	6.8	0.33	1.8	1	27.6	
	307.975	88.9	93.663	66.675	9.5	6.7	1020	1450	1200	1600	63.3	HH234049/HH234010	176	191	271	285	9.5	6.7	0.33	1.84	1.01	29.4	
153.988	317.5	88.9	93.662	66.675	9.7	6.8	885	1190	1200	1600	63.2	HH234048/HH234018	197	171	279	298	9.7	6.8	0.33	1.8	1	30.1	
	323.85	77.788	76.2	53.975	17.5	4.8	752	1100	1200	1600	69.7	EE560600/561279	192	201	271	287	17.5	4.8	0.46	1.29	0.71	28	
	244.475	47.625	50.005	33.338	3.5	3.3	330	510	1300	1800	42.9	81606/81962	179	168	225	235	3.5	3.3	0.35	1.7	0.94	7.55	
155.575	244.475	47.625	50.005	33.338	3.6	3.2	322	494	1300	1800	41.8	81606/81962	166	177	219	227	3.6	3.2	0.35	1.72	0.95	7.29	
	330.2	85.725	79.375	53.975	6.4	6.4	760	1060	1200	1600	103.3	H936340/H936310	209	178	283	317	6.4	6.4	0.81	0.74	0.41	32.5	
158.75	342.9	85.725	79.375	53.975	6.4	6.4	760	1060	1200	1600	103.3	H936340/H936316	209	178	289	323	6.4	6.4	0.81	0.74	0.41	35.3	
	205.583	23.812	23.812	18.258	4.8	1.5	138	280	1500	2000	33	L432348/L432310	176	173	198	197	4.4	1.5	0.37	1.6	0.9	1.9	
159.512	205.583	23.813	23.813	18.258	4.8	1.6	131	253	1500	2000	33.4	L432348/L432310XX	173	172	193	197	4.8	1.6	0.37	1.6	0.88	1.86	
	205.583	23.812	23.812	18.258	1.5	1.5	127	249	1500	2000	33.9	L432349/L432310	173	167	195	200	1.5	1.5	0.39	1.5	0.84	1.99	
	225.425	41.275	39.688	33.338	3.5	3.3	240	540	1400	1900	44.3	46780/46720	183	172	208	219	3.5	3.3	0.38	1.6	0.86	5.34	
	285.75	76.2	73.025	55.563	13.5	6.4	588	882	1400	1900	60.4	EE217062X/217112	191	186	246	261	13.5	6.4	0.4	1.49	0.82	18.2	
	304.8	66.675	69.106	42.863	6.4	3.2	548	802	1400	1900	54.4	EE280626/281200	177	211	271	282	6.4	3.2	0.36	1.67	0.92	20	
	266.7	66.675	71.438	50.8	1.6	3.2	602	993	1400	1900	52.6	HM234643/HM234612	168	188	240	252	1.6	3.2	0.34	1.78	0.98	14.6	

Single-row Tapered Roller Bearing - Imperial



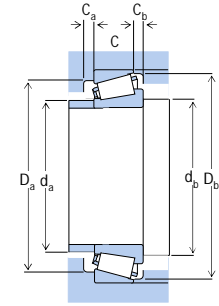
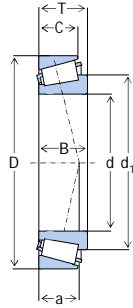
Boundary Dimensions (mm)								Basic Load Ratings (kN)		Speed Ratings (kN)		Load Center Spacing	Designations	Abutment and Fillet Dimensions						Calculation Factors			Mass (kg)
d	D	T	B	C	r1.2min	r3.4min	Cr	Cor	Grease	Oil	a	damax		dbmin	Damax	Dbmin	ramax	rbmax	e	Y	Yo	Refer.	
159.918	317.5	77.788	76.2	53.975	10.4	4.8	752	1100	1400	1900	69.7	EE560629/561251	186	201	271	287	10.4	4.8	0.46	1.29	0.71	25.8	
159.951	244.475	47.625	46.83	33.338	3.6	3.2	322	494	1400	1900	41.8	81630/81962	172	177	219	227	3.6	3.2	0.35	1.72	0.95	6.62	
	244.475	47.625	50.005	33.338	3.5	3.3	330	510	1400	1900	42.9	81629/81962	182	171	225	235	3.5	3.3	0.35	1.7	0.94	6.97	
160	240	46	44.501	37	3	2.5	353	666	1400	1900	50.1	JM734445/JM734410	171	184	221	231	3	2.5	0.44	1.37	0.75	7.19	
160.325	288.925	63.5	63.5	47.625	7	3.3	615	935	1300	1800	52.7	HM237532/HM237510	202	183	266	278	7	3.3	0.32	1.9	1	17	
160.338	317.5	77.788	76.2	53.975	11.2	4.8	752	1100	1300	1800	69.7	EE560631X/561251	188	201	271	287	11.2	4.8	0.46	1.29	0.71	25.7	
161.925	244.475	47.625	46.83	33.338	3.5	3.3	330	510	1300	1800	42.9	81637/81962	183	172	225	235	3.5	3.3	0.35	1.7	0.94	6.67	
	336.55	79.375	80.963	53.975	6.4	6.4	757	1100	1300	1800	75.7	EE590638/591326	180	213	286	303	6.4	6.4	0.49	1.22	0.67	30.7	
	336.55	79.375	80.963	53.975	6.4	6.4	757	1100	1300	1800	75.7	590938/591326	180	213	286	303	6.4	6.4	0.49	1.22	0.67	30.7	
	374.65	87.312	79.375	60.325	6.4	3.3	855	1090	1300	1800	98.6	EE117063/117148	217	188	325	355	6.4	3.3	0.71	0.85	0.47	42.2	
164.975	288.925	63.5	68	47.625	7.1	3.2	628	973	1300	1800	52.2	HM237537/HM237510	184	203	260	270	7.1	3.2	0.32		1.04	16.7	
165.1	215.9	26.195	26.195	20.638	1.5	1.5	154	295	1400	1900	34.5	L433749/L433710	180	173	204	210	1.5	1.5	0.36	1.7	0.91	2.45	
	225.425	41.275	39.688	33.338	3.5	3.3	240	540	1400	1900	44.3	46790/46720	186	175	208	219	3.5	3.3	0.38	1.6	0.86	4.84	
	247.65	47.625	47.625	38.1	3.5	3.3	345	705	1400	1900	52.4	67780/67720	194	180	228	241	3.5	3.3	0.44	1.4	0.75	8.16	
	254	46.038	46.038	33.338	4.8	3.3	340	535	1400	1900	44.9	86650/86100	191	178	235	246	4.8	3.3	0.37	1.6	0.89	7.56	
165.1	254	46.038	46.038	33.338	4.8	3.3	370	595	1400	1900	41.9	M235145/M235113	191	178	235	245	4.8	3.3	0.32	1.9	1	7.72	
	254	49.213	52.388	33.338	4.8	3.2	378	620	1400	1900	41.6	M235144/M235113	180	191	232	239	4.8	3.2	0.32	1.88	1.04	8.34	
	260.35	53.975	58.738	41.275	1.6	3.2	467	812	1400	1900	45	HM235148/HM235118	173	189	232	241	1.6	3.2	0.32	1.88	1.04	10.6	
	266.7	66.675	71.438	50.8	1.6	3.2	602	993	1400	1900	52.6	HM234648/HM234610	173	188	240	252	1.6	3.2	0.34	1.78	0.98	13.9	
	288.925	63.5	63.5	47.625	7	3.3	615	935	1300	1800	52.7	HM237535/HM237510	204	185	266	278	7	3.3	0.32	1.9	1	16.4	
	288.925	63.5	63.5	47.625	7.1	3.2	628	973	1300	1800	52.2	HM237536/HM237511	184	203	260	270	7.1	3.2	0.32	1.88	1.04	16.4	
	288.925	63.5	63.5	47.625	7	3.3	545	940	1300	1800	62.6	94649/94113	206	185	261	277	7	3.3	0.47	1.3	0.7	17.2	
	288.925	63.5	63.5	47.625	7.1	3.2	550	960	1300	1800	63.2	94650/94113A	184	203	255	270	7.1	3.2	0.47	1.28	0.7	17	
	288.925	63.5	68.263	47.625	3.2	3.2	628	973	1300	1800	52.2	HM237534/HM237511	177	203	260	270	3.2	3.2	0.32	1.88	1.04	16.8	
	289.975	63.5	63.5	48	7.1	3	628	973	1300	1800	52.2	HM237535/HM237513	184	203	260	270	7.1	3	0.32	1.88	1.04	16.6	

Single-row Tapered Roller Bearing - Imperial



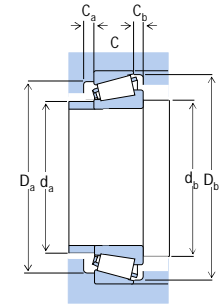
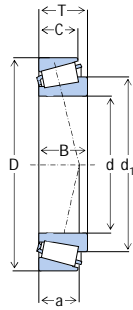
Boundary Dimensions (mm)							Basic Load Ratings (kN)		Speed Ratings (kN)		Load Center Spacing a	Designations	Abutment and Fillet Dimensions						Calculation Factors			Mass (kg) Refer.
d	D	T	B	C	r1.2min	r3.4min	Cr	Cor	Grease	Oil			damax	dbmin	Damax	Dbmin	ramax	rbmax	e	Y	Yo	
298.45	82.55	82.55	63.5	63.5	6.4	6.4	716	1130	1300	1800	67	EE219065/219117	183	202	264	280	6.4	6.4	0.38	1.59	0.88	23.4
298.45	63.5	63.5	47.625	47.625	7	3.3	545	940	1300	1800	62.6	94649/94118	206	185	265	282	7	3.3	0.47	1.3	0.7	18.8
311.15	82.55	82.55	63.5	63.5	6.4	6.4	770	1230	1200	1600	65.8	EE219065/219122	206	185	274	295	6.4	6.4	0.38	1.6	0.88	26.3
311.15	82.55	82.55	65.088	65.088	6.4	6.4	835	1280	1200	1600	63.9	H238140/H238110	208	187	279	298	6.4	6.4	0.33	1.8	1	26.5
317.5	77.788	76.2	53.975	53.975	3.2	4.8	752	1100	1200	1600	69.7	EE560650/561251	177	201	271	287	3.2	4.8	0.46	1.29	0.71	25.1
317.5	77.788	76.2	53.975	53.975	3.2	4.8	752	1100	1200	1600	69.7	560950/561251	177	201	271	287	3.2	4.8	0.46	1.29	0.71	25.1
323.85	77.788	76.2	53.975	53.975	3.2	4.8	752	1100	1200	1600	69.7	560950/561279	177	201	271	287	3.2	4.8	0.46	1.29	0.71	26.4
336.55	79.375	80.962	53.975	53.975	17.5	6.4	757	1100	1200	1600	75.7	EE590650/591326	205	213	286	303	17.5	6.4	0.49	1.22	0.67	30
336.55	92.075	95.25	69.85	69.85	3.3	6.4	990	1380	1100	1400	70.8	HH437549/HH437510	206	185	297	320	3.3	6.4	0.37	1.6	0.89	35
342.9	79.375	80.962	53.975	53.975	1.2	6.4	757	1100	1100	1400	75.7	EE590649/591350	173	213	286	303	1.2	6.4	0.49	1.22	0.67	31.7
360	92.075	88.897	63.5	63.5	9.7	3.3	875	1340	1100	1400	78.9	EE420651/421417	234	208	329	349	9.7	3.3	0.42	1.4	0.79	42.1
361.95	106.362	104.775	76.2	76.2	13.5	3.3	1240	1690	1100	1400	73.4	EE108065/108142	220	188	323	342	13.5	3.3	0.33	1.8	0.99	48.5
166.688	225.425	41.275	39.688	33.338	3.6	3.2	258	568	1300	1800	4	46792R/46720	179	181	207	215	3.6	3.2	0.38	1.57	0.86	4.46
	225.425	41.275	39.688	33.338	3.5	3.3	240	540	1300	1800	44.3	46792/46720	187	176	208	219	3.5	3.3	0.38	1.6	0.86	4.71
167.945	254	49.213	53.975	33.338	4.8	3.2	378	620	1300	1800	41.6	M235147X/M235113	183	191	232	239	4.8	3.2	0.32	1.88	1.04	8.1
168.275	247.65	47.625	47.625	38.1	3.5	3.3	345	705	1300	1800	52.4	67782/67720	195	182	228	241	3.5	3.3	0.44	1.4	0.75	7.85
	254	46.038	50.8	33.338	3.2	3.2	378	620	1300	1800	41.5	M235147/M235113	180	191	232	239	3.2	3.2	0.32	1.88	1.04	7.79
168.275	330.2	85.725	79.375	53.975	6.4	6.4	760	1060	1300	1800	103.3	H936349/H936310	216	184	283	317	6.4	6.4	0.81	0.74	0.41	30.5
	342.9	85.725	79.375	53.975	6.4	6.4	760	1060	1300	1800	103.3	H936349/H936316	216	184	289	323	6.4	6.4	0.81	0.74	0.41	33.3
169.977	260.35	66.675	66.675	52.388	3.6	3.2	538	1030	1300	1800	58	HM535347/HM535310	182	189	234	248	3.6	3.2	0.4	1.49	0.82	12.4
169.984	298.45	63.5	63.5	47.625	7.1	3.2	550	960	1300	1800	63.2	94669/94118	189	203	25	270	7.1	3.2	0.47	1.28	0.7	18
170	230	39	38	31	3	2.5	278	520	1300	1800	43.2	JHM534149/JHM534110	188	177	215	225	3	2.5	0.38	1.6	0.86	4.41
	240	46.038	44.5	37	3	2.5	380	720	1300	1800	50.5	JM734449/JM734410	191	178	222	234	3	2.5	0.44	1.4	0.75	6.44
	254	46.038	46.038	33.338	4.8	3.3	370	595	1300	1800	41.9	M235149/M235113	194	180	235	245	4.8	3.3	0.32	1.9	1	7.26
	254	46.038	46.038	33.338	4.8	3.3	340	535	1300	1800	44.9	86669/86100	194	181	235	246	4.8	3.3	0.37	1.6	0.89	7.09
	266.7	46.038	46.038	33.338	4.8	1.6	336	531	1300	1800	44.9	86669/86105	185	189	230	238	4.8	1.6	0.37	1.63	0.9	8.36

Single-row Tapered Roller Bearing - Imperial



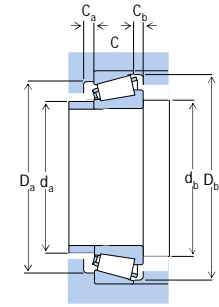
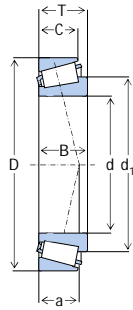
Boundary Dimensions (mm)							Basic Load Ratings (kN)		Speed Ratings (kN)		Load Center Spacing	Designations	Abutment and Fillet Dimensions						Calculation Factors			Mass (kg)
d	D	T	B	C	r1.2min	r3.4min	Cr	Cor	Grease	Oil	a		d _{max}	d _{bmin}	D _{max}	D _{bmin}	r _{amax}	r _{bmax}	e	Y	Y ₀	Refer.
171.45	222.25	25.4	24.608	19.05	1.6	1.6	157	299	1300	1800	36	L435049/L435010	180	185	208	213	1.6	1.6	0.38	1.6	0.88	2.33
	260.35	66.675	66.675	52.388	3.5	3.3	540	1030	1300	1800	57.6	HM535349/HM535310	198	182	236	252	3.5	3.3	0.4	1.5	0.82	12.5
	288.925	63.5	63.5	47.625	7.1	3.2	628	973	1200	1600	52.2	HM237540/HM237510	191	203	260	270	7.1	3.2	0.32	1.88	1.04	15.5
	288.925	63.5	63.5	47.625	7.1	3.2	550	960	1200	1600	63.2	94675/94113A	191	203	255	270	7.1	3.2	0.47	1.28	0.7	16.2
	288.925	63.5	63.5	47.625	7	3.3	545	940	1200	1600	62.6	94675/94113	209	189	261	277	7	3.3	0.47	1.3	0.7	16.3
	298.45	63.5	63.5	47.625	7	3.3	545	940	1200	1600	62.6	94675/94118	209	189	265	282	7	3.3	0.47	1.3	0.7	18
171.45	336.55	79.375	80.963	53.975	6.4	6.4	757	1100	1100	1600	75.7	EE590675/591326	189	213	286	303	6.4	6.4	0.49	1.22	0.67	29.2
	342.9	79.375	80.963	53.975	6.4	6.4	757	1100	1100	1600	75.7	EE590675/591350	189	213	286	303	6.4	6.4	0.49	1.22	0.67	30.6
	342.9	79.375	84.138	53.975	1.2	6.4	757	1100	1100	1600	75.7	590977/591350	179	213	286	303	1.2	6.4	0.49	1.22	0.67	30.9
	374.65	87.313	79.375	60.325	6.4	3.2	868	1220	1100	1600	103.7	EE117067/117148	189	218	308	338	6.4	3.2	0.73	0.82	0.45	42.2
174.625	247.65	47.625	47.625	38.1	7.9	3.2	346	701	1100	1600	52.3	67786/67720	195	192	227	238	7.9	3.2	0.44	1.36	0.75	6.93
	247.65	47.625	47.625	38.1	3.5	3.3	345	705	1100	1600	52.4	67787/67720	199	185	228	241	3.5	3.3	0.44	1.4	0.75	7.21
	260.35	53.975	53.975	41.275	3.6	3.2	442	821	1100	1600	48.4	M236845/M236810	187	198	238	247	3.6	3.2	0.33	1.8	0.99	9.31
	288.925	63.5	63.5	47.625	7	3.3	615	935	1100	1600	52.7	HM237542/HM237510	209	190	266	278	7	3.3	0.32	1.9	1	15.2
	288.925	63.5	63.5	47.625	7	3.3	545	940	1100	1600	62.6	94687/94113	211	190	261	277	7	3.3	0.47	1.3	0.7	15.9
	288.925	63.5	63.5	47.625	7.1	3.2	550	960	1100	1600	63.2	94687/94113A	194	203	255	270	7.1	3.2	0.47	1.28	0.7	15.8
	298.45	63.5	63.5	47.625	7	3.3	545	940	1100	1600	62.6	94687/94118	211	190	265	282	7	3.3	0.47	1.3	0.7	17.5
174.625	298.45	82.55	82.55	63.5	6.4	6.4	795	1290	1100	1600	66.4	EE219068/219117	211	190	267	288	6.4	6.4	0.38	1.6	0.88	22.1
	311.15	82.55	82.55	63.5	6.4	6.4	716	1130	1000	1500	67	EE219068/219122	192	202	264	280	6.4	6.4	0.38	1.59	0.88	24.7
	311.15	82.55	82.55	65.088	6.4	6.4	835	1280	1000	1500	63.9	H238148/H238110	212	191	279	298	6.4	6.4	0.33	1.8	1	24.9
177.292	355.6	79.375	77.788	53.975	6.4	6.4	754	1090	1000	1500	83.8	EE607071/607140	195	228	305	324	6.4	6.4	0.55	1.1	0.6	32.8
177.8	215.9	20.638	20.638	15.083	1.5	1.5	109	241	1200	1600	38.5	LL735449/LL735410	190	184	206	211	1.5	1.5	0.45	1.3	0.73	1.51
	227.012	30.162	30.162	23.02	1.5	1.5	181	415	1300	1800	42.9	36990/36920	193	185	214	222	1.5	1.5	0.44	1.4	0.75	3.01
	247.65	47.625	47.625	38.1	3.5	3.3	345	705	1300	1800	52.4	67790/67720	200	186	228	241	3.5	3.3	0.44	1.4	0.75	6.88
	247.65	47.625	47.625	38.1	10.4	3.3	345	705	1300	1800	52.4	67791/67720	207	186	228	241	10.4	3.3	0.44	1.4	0.75	6.79
	260.35	53.975	53.975	41.275	7.9	3.2	442	821	1300	1800	48.4	M236848/M236810	199	198	238	247	7.9	3.2	0.33	1.8	0.99	8.9
	260.35	53.975	53.975	41.275	3.5	3.3	455	835	1200	1700	47.5	M236849/M236810	201	189	241	252	3.5	3.3	0.33	1.8	0.99	9.35
	269.875	55.562	55.562	42.862	3.5	3.3	465	875	1200	1700	51.1	M238840/M238810	208	194	250	262	3.5	3.3	0.35	1.7	0.95	11.1

Single-row Tapered Roller Bearing - Imperial



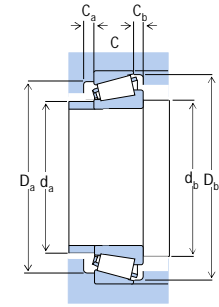
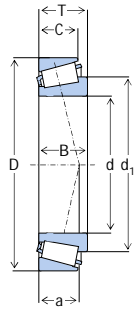
Boundary Dimensions (mm)							Basic Load Ratings (kN)		Speed Ratings (kN)		Load Center Spacing	Designations	Abutment and Fillet Dimensions						Calculation Factors			Mass (kg)
d	D	T	B	C	r1.2min	r3.4min	Cr	Cor	Grease	Oil	a		damax	dbmin	Damax	Dbmin	ramax	rbmax	e	Y	Yo	Refer.
279.4	61.913	61.913	43.655	3.2	3.2	483	821	1200	1700	65.6	82680X/82620	189	201	251	267	3.2	3.2	0.52	1.14	0.63	12.8	
285.75	63.5	63.5	41.275	6.4	3.3	450	725	1200	1700	58.9	EE91702/91112	210	193	260	274	6.4	3.3	0.43	1.4	0.77	13.7	
288.925	63.5	63.5	47.625	7	3.3	615	935	1200	1700	52.7	HM237545/HM237510	210	191	266	278	7	3.3	0.32	1.9	1	14.7	
288.925	63.5	63.5	47.625	7	3.3	545	940	1200	1700	62.6	94700/94113	213	192	261	277	7	3.3	0.47	1.3	0.7	15.5	
288.925	63.5	63.5	47.625	7.1	3.2	550	960	1200	1700	63.2	94700/94113A	197	203	255	270	7.1	3.2	0.47	1.28	0.7	15.3	
289.974	63.5	63.5	48	7	3	680	1070	1200	1700		HM237545/HM237513	205	194	267	272	7	3	0.32	1.88	1.04	14.6	
289.975	63.5	68.263	48	3.2	3	628	973	1200	1700	52.2	HM237543/HM237513	189	203	260	270	3.2	3	0.32	1.88	1.04	15.2	
304.8	60.325	63.5	42.863	1.6	3.2	548	802	1100	1500	54.4	280970/281200	186	211	271	282	1.6	3.2	0.36	1.67	0.92	16.4	
304.8	66.675	69.106	42.863	6.4	3.2	548	802	1100	1500	54.4	EE280702/281202	196	211	271	282	6.4	3.2	0.36	1.67	0.92	17.3	
304.8	66.675	69.106	42.862	6.4	3.3	555	810	1100	1500	54.3	EE280702/281200	214	196	280	292	6.4	3.3	0.36	1.7	0.92	17.4	
311.15	82.55	85.725	65.088	6.4	6.4	862	1340	1100	1500	64.3	H238147/H238110	196	207	273	288	6.4	6.4	0.33	1.82	1	24.9	
319.964	88.9	85.725	65.088	3.5	4.8	790	1300	1100	1500	72.6	EE222070/222126	218	199	287	307	3.5	4.8	0.4	1.5	0.83	28.4	
319.964	88.9	85.725	65.088	3.5	4.8	855	1270	1100	1500	66.3	H239640/H239610	215	197	292	309	3.5	4.8	0.32	1.9	1	26.9	
320.675	88.9	85.725	65.088	3.5	4.8	790	1300	1100	1500	72.6	EE222070/222128	218	199	287	308	3.5	4.8	0.4	1.5	0.83	28.6	
320.675	88.9	85.725	65.088	3.5	4.8	855	1270	1100	1500	66.3	H239640/H239612	215	197	292	309	3.5	4.8	0.32	1.9	1	27	
327.025	90.488	92.075	63.5	6.4	6.4	930	1500	1000	1500	68.6	EE470078/470128	223	200	294	315	6.4	6.4	0.37	1.6	0.9	31	
327.025	90.488	92.075	63.5	9.5	6.4	864	1430	1000	1500	68.3	EE470078X/470128	202	224	290	305	9.5	6.4	0.37	1.63	0.9	31	
177.8	327.025	90.488	92.075	63.5	6.4	6.4	864	1430	1000	1500	68.3	470978/470128	196	224	290	305	6.4	6.4	0.37	1.63	0.9	31.1
	336.55	79.375	80.963	53.975	3.2	6.4	757	1100	1000	1500	75.7	590900/591326	189	213	286	303	3.2	6.4	0.49	1.22	0.67	28.1
	336.55	90.488	92.075	63.5	13.5	6.4	864	1430	1000	1500	68.3	EE470073/470132	210	224	290	305	13.5	6.4	0.37	1.63	0.9	33.4
	355.6	79.375	77.788	53.975	6.4	6.4	754	1090	1000	1500	83.8	EE607070/607140	196	228	305	324	6.4	6.4	0.55	1.1	0.6	32.7
	360	92.075	88.897	63.5	12.7	3.2	938	1460	1000	1500	75.6	EE420701/421417	208	243	317	334	12.7	3.2	0.4	1.49	0.82	40.5
	365.049	92.075	88.897	63.5	12.7	3.3	875	1340	1000	1500	78.9	EE420701/421437	243	214	332	351	12.7	3.3	0.42	1.4	0.79	41.1
	368.3	92.075	88.897	63.5	12.7	3.3	875	1340	1000	1500	78.9	EE420701/421450	243	214	333	353	12.7	3.3	0.42	1.4	0.79	42
	428.625	106.362	95.25	61.912	6.4	6.4	1070	1390	1000	1500	118.7	EE350701/351687	196	237	350	382	6.4	6.4	0.76	0.79	0.44	64.6
178.595	265.112	51.595	57.15	38.895	3.3	3.3	495	880	1200	1700	47	M336948/M336912	194	196	250	251	3	3	0.33	1.8	1	9.6
179.934	265.112	51.595	57.15	38.895	3.3	3.3	495	880	1200	1700	47	M336949/M336912	194	196	250	251	3	3	0.33	1.8	1	9.6
179.972	317.5	63.5	63.5	46.038	3.5	3.3	575	1060	1200	1700	71	93708/93125	224	206	288	306	3.5	3.3	0.52	1.1	0.63	21.2

Single-row Tapered Roller Bearing - Imperial



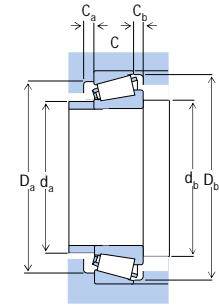
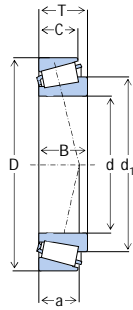
Boundary Dimensions (mm)							Basic Load Ratings (kN)		Speed Ratings (kN)		Load Center Spacing	Designations	Abutment and Fillet Dimensions						Calculation Factors			Mass (kg)
d	D	T	B	C	r1.2min	r3.4min	Cr	Cor	Grease	Oil	a		d _{amax}	d _{bmin}	D _{amax}	D _{bmin}	r _{amax}	r _{bmax}	e	Y	Y ₀	Refer.
	317.5	68.262	63.5	50.8	3.5	3.3	575	1060	1200	1700	75.8	93708/93126	224	206	286	306	3.5	3.3	0.52	1.1	0.63	22.1
179.975	317.5	63.5	63.5	46.038	3.6	3.2	604	1130	1200	1700	71.4	93708/93125	192	227	278	295	3.6	3.2	0.52	1.15	0.63	20.8
179.997	266.7	47.099	46	38.1	6.4	3.2	339	703	1200	1700	57.8	67875/67820	198	211	245	257	6.4	3.2	0.48	1.26	0.69	8.87
180	250	47	45	37	3	2.5	369	695	1200	1700	56	JM736149/JM736110	192	192	240	243	2.5	2.5	0.48	1.25	0.7	6.65
	288.925	63.5	68.262	47.625	7	3.2	628	973	1200	1700	52.2	HM237547/HM237510	199	203	260	270	7	3.2	0.32	1.88	1.04	14.6
180.975	269.875	55.563	55.563	42.863	1.6	3.2	411	805	1100	1600	49.9	M238843/M238810	189	209	246	255	1.6	3.2	0.33	1.8	0.99	10.5
184.15	236.538	26.192	25.4	19.05	1.5	1.5	155	291	1100	1600	38	LL537649/LL537610	199	193	225	230	1.5	1.5	0.37	1.6	0.89	2.66
	266.7	47.625	46.833	38.1	3.5	3.3	345	720	1100	1600	57.9	67883/67820	212	198	246	260	3.5	3.3	0.48	1.3	0.69	8.73
	279.997	46.525	46.833	36	3.6	3.2	339	703	1100	1600	56.7	67883/67830	196	211	245	257	3.6	3.2	0.48	1.26	0.69	10
187.325	266.7	47.625	46.833	38.1	3.5	3.3	345	720	1100	1600	57.9	67884/67820	214	200	246	260	3.5	3.3	0.48	1.3	0.69	8.39
	269.875	55.562	55.562	42.862	3.5	3.3	490	920	1100	1600	49.6	M238849/M238810	211	198	250	261	3.5	3.3	0.33	1.8	0.99	10.1
	282.575	50.8	47.625	36.512	3.5	3.3	360	600	1100	1600	54.8	87737/87111	215	202	262	274	3.5	3.3	0.42	1.4	0.79	9.94
	289.992	46.525	46.833	36	3.6	3.2	339	703	1100	1600	56.7	67884/67835	200	211	245	257	3.6	3.2	0.48	1.26	0.69	10.9
	319.964	88.9	85.725	65.088	5.5	4.8	855	1270	1100	1600	66.3	H239649/H239610	222	202	292	309	5.5	4.8	0.32	1.9	1	25
187.325	320.675	88.9	85.725	65.088	5.5	4.8	855	1270	1100	1600	66.3	H239649/H239612	222	202	292	309	5.5	4.8	0.32	1.9	1	25.2
189.738	279.4	52.388	57.15	41.275	3.3	3.3	523	980	1100	1600	49	M239447/M239410	202	212	266	266	3	3	0.33	1.8	1	11
190	260	46	44	36.5	3	2.5	370	730	1100	1600	56.4	JM738249/JM738210	212	198	241	255	3	2.5	0.48	1.3	0.69	6.94
190.078	266.7	47.099	46	38.1	6.4	3.2	339	703	1100	1600	57.8	67886/67820	208	211	245	257	6.4	3.2	0.48	1.26	0.69	7.82
190.475	279.4	52.388	57.15	41.275	3.3	3.3	523	980	1100	1600	49	M239449/M239410	203	212	266	266	3	3	0.33	1.8	1	11
190.5	266.7	47.625	46.833	38.1	3.5	3.3	345	720	1100	1600	57.9	67885/67820	215	202	246	260	3.5	3.3	0.48	1.3	0.69	8.04
	282.575	50.8	47.625	36.512	3.5	3.3	360	600	1100	1600	54.8	87750/87111	217	204	262	274	3.5	3.3	0.42	1.4	0.79	9.59
	317.5	63.5	63.5	46.038	4.3	3.3	575	1060	1000	1500	71	93750/93125	231	211	288	306	4.3	3.3	0.52	1.1	0.63	19.7
	317.5	68.262	63.5	50.8	4.3	3.3	575	1060	1000	1500	75.8	93750/93126	231	211	286	306	4.3	3.3	0.52	1.1	0.63	20.6
	327.025	90.488	92.075	63.5	6.4	6.4	930	1500	1000	1500	68.6	EE470075/470128	229	206	294	315	6.4	6.4	0.37	1.6	0.9	28.3
	330.2	82.551	84.138	63.5	4.8	6.4	864	1430	1000	1500	68.4	470975/470130	205	224	290	305	4.8	6.4	0.37	1.63	0.9	27.9

Single-row Tapered Roller Bearing - Imperial



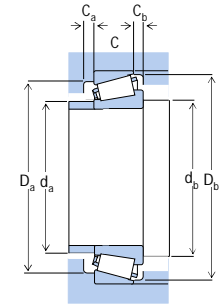
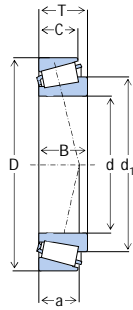
Boundary Dimensions (mm)							Basic Load Ratings (kN)		Speed Ratings (kN)		Load Center Spacing	Designations	Abutment and Fillet Dimensions						Calculation Factors			Mass (kg)
d	D	T	B	C	r1.2min	r3.4min	Cr	Cor	Grease	Oil	a		d _{amax}	d _{bmin}	D _{amax}	D _{bmin}	r _{amax}	r _{bmax}	e	Y	Y ₀	Refer.
336.55	98.425	95.25	73.025	6.4	6.4	940	1600	1000	1500	93.7	HH840249/HH840210	237	205	292	325	6.4	6.4	0.58	1	0.57	35.7	
339.725	82.551	84.138	63.5	4.8	6.4	864	1430	1000	1500	68.4	470975/470133	205	224	290	305	4.8	6.4	0.37	1.63	0.9	30.4	
339.725	90.488	92.075	63.5	6.4	6.4	864	1430	1000	1500	68.3	EE470075/470133	208	224	290	305	6.4	6.4	0.37	1.63	0.9	31.7	
355.6	79.375	77.788	53.975	6.4	6.4	754	1090	1000	1500	83.8	EE607075/607140	208	228	305	324	6.4	6.4	0.55	1.1	0.6	30.5	
365.049	92.075	88.897	63.5	6.4	3.3	975	1600	1000	1500	78.9	EE420751/421437	227	218	329	334	6.4	3.3	0.4	1.49	0.82	42.9	
368.3	92.075	88.897	63.5	6.4	3.3	875	1340	1000	1500	78.9	EE420751/421450	243	220	333	353	6.4	3.3	0.42	1.4	0.79	39.6	
428.625	106.362	95.25	61.912	6.4	6.4	1140	1400	950	1400	119	EE350750/351687	246	213	369	405	6.4	6.4	0.76	0.79	0.44	57.9	
191.237	279.4	53.975	58.738	41.275	3.3	3.3	523	980	1100	1600	49	M239448A/M239410	204	212	265	266	3	3	0.33	1.8	1	10.5
192.088	266.7	47.625	46.833	38.1	10.4	3.2	339	703	1100	1600	57.8	67887/67820	218	211	245	257	10.4	3.2	0.48	1.26	0.69	7.6
193.675	282.575	50.8	47.625	36.512	3.5	3.3	360	600	1100	1600	54.8	87762/87111	218	205	262	274	3.5	3.3	0.42	1.4	0.79	9.23
194.975	266.7	47.625	46.833	38.1	3.6	3.2	339	703	1100	1600	57.8	67888/67820	207	211	245	257	3.6	3.2	0.48	1.26	0.69	7.38
196.85	241.3	23.812	23.017	17.462	1.5	1.5	131	293	1100	1600	41.4	LL639249/LL639210	210	204	230	236	1.5	1.5	0.42	1.4	0.79	2.23
196.85	254	28.575	27.783	21.433	1.5	1.5	177	355	1100	1600	42.9	L540049/L540010	213	206	241	247	1.5	1.5	0.4	1.5	0.83	3.48
257.175	39.688	39.688	30.162	3.5	3.3	271	620	1100	1600	51.3	LM739749/LM739710	218	206	240	251	3.5	3.3	0.45	1.3	0.73	5.33	
266.7	39.688	39.688	30.163	3.6	3.2	268	632	1100	1600	50.6	LM739749/LM739719	209	211	238	247	3.6	3.2	0.45	1.34	0.74	6.18	
317.5	63.5	63.5	46.038	4.3	3.3	575	1060	1100	1600	71	93775/93125	234	214	288	306	4.3	3.3	0.52	1.1	0.63	18.7	
317.5	68.262	63.5	50.8	4.3	3.3	575	1060	1100	1600	75.8	93775/93126	234	214	286	306	4.3	3.3	0.52	1.1	0.63	19.7	
198.298	279.4	46.038	49.213	36.513	3.6	3.2	349	707	1100	1600	61.6	67981/67919	211	222	259	272	3.6	3.2	0.51	1.18	0.65	8.75
282.575	46.038	49.213	36.513	3.6	3.2	349	707	1100	1600	61.6	67981/67920	211	222	259	272	3.6	3.2	0.51	1.18	0.65	9.15	
199.949	282.575	46.038	49.213	36.513	3.6	3.2	349	707	1100	1600	61.6	67982/67920	212	222	259	272	3.6	3.2	0.51	1.18	0.65	8.95
199.975	317.5	66.675	70	50.8	4.3	3.2	741	1270	1100	1600	54.4	122978/122125	214	232	289	299	4.3	3.2	0.3	2.02	1.11	19.5
200	300	65	62	51	3.5	2.5	615	1130	950	1400	73.1	JHM840449/JHM840410	230	211	274	292	3.5	2.5	0.52	1.2	0.63	15.5
	310	70	70	53	3	2.5	760	1370	950	1400	67.4	HR32040XJ	231	213	285	302	2.5	2	0.43	1.4	0.77	18.9
200.025	276.225	42.862	46.038	34.133	3.5	3.3	390	780	1000	1500	45	LM241147/LM241110	216	220	261	265	3	3	0.31	1.9	1.1	7.7

Single-row Tapered Roller Bearing - Imperial



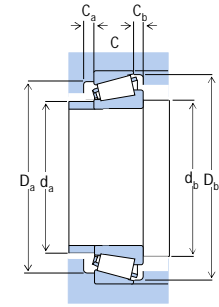
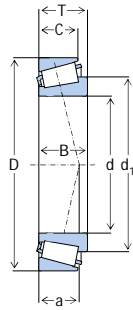
Boundary Dimensions (mm)							Basic Load Ratings (kN)		Speed Ratings (kN)		Load Center Spacing	Designations	Abutment and Fillet Dimensions						Calculation Factors			Mass (kg)
d	D	T	B	C	r1.2min	r3.4min	Cr	Cor	Grease	Oil	a		damax	dbmin	Damax	Dbmin	ramax	rbmax	e	Y	Yo	Refer.
	292.1	57.945	57.945	46.038	3.6	3.2	545	1030	1000	1500	52.6	M241543/M241510	213	223	268	278	3.6	3.2	0.33	1.8	0.99	12.1
	292.1	57.945	61.913	46.038	6.4	3.2	545	1030	1000	1500	52.6	M241542/M241510	219	223	268	278	6.4	3.2	0.33	1.8	0.99	12.3
	317.5	63.5	63.5	46.038	4.3	3.3	575	1060	1000	1500	71	93787/93125	235	216	288	306	4.3	3.3	0.52	1.1	0.63	18.3
	317.5	68.262	63.5	50.8	4.3	3.3	575	1060	1000	1500	75.8	93787/93126	235	216	286	306	4.3	3.3	0.52	1.1	0.63	19.2
	333.375	69.85	69.85	52.388	6.4	6.4	690	1190	1000	1500	71.3	HM743337/HM743310	242	222	302	322	6.4	6.4	0.44	1.4	0.75	23.3
	355.6	69.85	69.85	49.212	6.8	1.5	695	1230	1000	1500	59.8	EE130787/131400	250	232	329	340	6.8	1.5	0.33	1.8	0.99	28.3
	384.175	112.712	112.712	90.488	6.4	6.4	1220	2220	1000	1500	84.2	H247535/H247510	258	234	344	369	6.4	6.4	0.33	1.8	0.99	58.8
	393.7	111.125	111.125	84.138	6.4	6.4	1300	2030	1000	1500	78.1	HH144642/HH144614	251	227	352	374	6.4	6.4	0.3	2	1.1	57.4
200.812	292.1	57.945	61.913	46.038	6.4	3.2	545	1030	1000	1500	52.6	M241545/M241510	220	223	268	278	6.4	3.2	0.33	1.8	0.99	12.2
201.612	360	92.075	88.897	63.5	3.3	3.3	875	1340	1000	1500	78.9	EE420793/421417	246	226	329	349	3.3	3.3	0.42	1.4	0.79	34.9
203.2	261.142	28.575	27.783	21.433	1.5	1.5	176	355	1100	1600	43.7	LL641149/LL641110	219	212	247	254	1.5	1.5	0.41	1.5	0.81	3.54
	276.225	42.862	42.862	34.133	3.5	3.3	335	620	1100	1600	44	LM241149/LM241110	224	213	259	269	3.5	3.3	0.32	1.9	1	6.84
	279.4	46.038	46.038	36.513	3.6	3.2	349	707	1100	1600	61.6	67983/67919	216	222	259	272	3.6	3.2	0.51	1.18	0.65	8.04
203.2	282.575	46.038	46.038	36.512	3.5	3.3	365	800	1100	1600	61.9	67983/67920	230	215	261	276	3.5	3.3	0.51	1.2	0.65	8.85
	292.1	57.945	57.945	46.038	3.6	3.2	545	1030	1100	1600	52.6	M241547/M241510	216	223	268	278	3.6	3.2	0.33	1.8	0.99	11.7
	317.5	53.975	53.975	34.925	4	3.3	460	725	1100	1600	48	EE132083/132125	232	219	293	302	4	3.3	0.31	1.9	1.1	13.5
	317.5	63.5	63.5	46.038	4.3	3.3	575	1060	1100	1600	71	93800/93125	237	217	288	306	4.3	3.3	0.52	1.1	0.63	17.8
	317.5	63.5	63.5	46.038	7.9	3.3	575	1060	1100	1600	71	93800A/93125	240	217	288	306	7.9	3.3	0.52	1.1	0.63	17.7
	317.5	66.675	66.675	50.8	4.3	3.3	615	995	1100	1600	55.9	EE122080/122125	234	218	293	305	4.3	3.3	0.3	2	1.1	17.4
	317.5	68.262	63.5	50.8	4.3	3.3	575	1060	1100	1600	75.8	93800/93126	237	217	286	306	4.3	3.3	0.52	1.1	0.63	18.7
	317.5	68.262	63.5	50.8	7.9	3.3	575	1060	1100	1600	75.8	93800A/93126	240	217	286	306	7.9	3.3	0.52	1.1	0.63	18.6
	346.075	79.375	80.962	60.325	1.5	3.3	900	1460	1000	1500	78.9	HM542948/HM542911	224	224	315	322	1.5	3.3	0.39	1.55	0.85	28.8
	360	92.075	88.897	63.5	3.3	3.3	875	1340	1000	1500	78.9	EE420801/421417	246	227	329	349	3.3	3.3	0.42	1.4	0.79	34.5
	365.049	92.075	88.897	63.5	3.3	3.3	875	1340	1000	1500	78.9	EE420801/421437	246	227	332	351	3.3	3.3	0.42	1.4	0.79	36
	368.3	92.075	88.897	63.5	3.3	3.3	875	1340	1000	1500	78.9	EE420801/421450	246	227	333	353	3.3	3.3	0.42	1.4	0.79	36.9
	399.928	72	61.913	54	7.1	3.2	788	1100	1000	1500	84.5	EE710806/711574	223	274	354	371	7.1	3.2	0.47	1.27	0.7	36.8
	406.4	92.075	85.725	57.15	6.4	6.4	935	1310	1000	1500	119.9	EE114080/114160	260	226	352	387	6.4	6.4	0.79	0.75	0.42	48.1
	482.6	117.475	95.25	73.025	6.4	6.4	1190	1590	1000	1500	148.6	EE380080/380190	274	236	408	451	6.4	6.4	0.87	0.69	0.38	88.7

Single-row Tapered Roller Bearing - Imperial



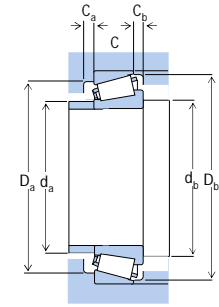
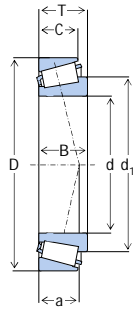
Boundary Dimensions (mm)								Basic Load Ratings (kN)		Speed Ratings (kN)		Load Center Spacing	Designations	Abutment and Fillet Dimensions						Calculation Factors			Mass (kg)
d	D	T	B	C	r1.2min	r3.4min	Cr	Cor	Grease	Oil	a	dmax		dbmin	Damax	Dbmin	ramax	rbmax	e	Y	Yo	Refer.	
203.479	261.142	28.575	31.75	21.433	1.6	1.6	189	394	1000	1500	43.7	LL641148/LL641110	213	220	244	250	1.6	1.6	0.41	1.47	0.81	3.57	
203.987	276.225	42.662	46.038	34.133	3.5	3.3	390	780	1000	1500	45	LM241148/LM241110	220	220	261	265	3	3	0.31	1.9	1.1	7.25	
	276.225	42.863	46.038	34.132	3.6	3.2	375	715	1000	1500	46.3	LM241148/LM241111	217	221	257	264	3.6	3.2	0.32	1.88	1.04	7.12	
204.788	292.1	57.945	57.945	46.038	3.5	3.3	540	1050	1000	1500	52.8	M241549/M241510	229	216	271	283	3.5	3.3	0.33	1.8	0.99	12.1	
	317.5	63.5	63.5	46.038	4.3	3.2	604	1130	1000	1500	71.4	93806A/93125	219	227	278	295	4.3	3.2	0.52	1.15	0.63	17.1	
206.375	282.575	46.038	46.038	36.512	3.5	3.3	365	800	1000	1500	61.9	67985/67920	231	216	261	276	3.5	3.3	0.51	1.2	0.65	8.48	
	282.575	46.038	49.212	36.513	3.6	3.2	349	707	1000	1500	61.6	67987/67920	220	222	259	272	3.6	3.2	0.51	1.18	0.65	8.17	
	317.5	53.975	53.975	34.925	4	3.3	460	725	1000	1500	48	EE132084/132125	234	220	293	302	4	3.3	0.31	1.9	1.1	13	
	317.5	63.5	63.5	46.038	4.3	3.2	6.4	1130	1000	1500	71.4	93812/93125	221	227	278	295	4.3	3.2	0.52	1.15	0.63	16.9	
	319.088	53.975	53.975	34.925	4	3.2	439	724	1000	1500	48.4	EE132084/162127	220	238	285	292	4	3.2	0.31	1.91	1.05	13.6	
	336.55	98.425	100.012	77.788	3.3	3.3	1040	1900	900	1300	73.4	H242649/H242610	242	222	306	325	3.3	3.3	0.33	1.8	0.99	32.8	
	360	92.075	88.897	63.5	6.4	3.2	938	1460	900	1300	75.6	EE420812X/421417	225	243	317	334	6.4	3.2	0.4	1.49	0.82	34.7	
	206.375	482.6	117.475	95.25	73.025	6.4	6.4	1450	2060	900	1300	152.8	EE380081/380190	225	272	386	428	6.4	6.4	0.87	0.69	0.38	92.7
209.55	282.575	46.038	46.038	36.512	3.5	3.3	365	800	900	1300	61.9	67989/67920	233	218	261	276	3.5	3.3	0.51	1.2	0.65	8.11	
	317.5	63.5	63.5	46.038	4.3	3.3	575	1060	1000	1500	71	93825/93125	240	221	288	306	4.3	3.3	0.52	1.1	0.63	16.7	
	317.5	63.5	63.5	46.038	12.7	3.3	575	1060	1000	1500	71	93825A/93125	248	221	288	306	12.7	3.3	0.52	1.1	0.63	16.6	
	317.5	68.262	63.5	50.8	4.3	3.3	575	1060	1000	1500	75.8	93825/93126	240	221	286	306	4.3	3.3	0.52	1.1	0.63	17.6	
	317.5	68.262	63.5	50.8	12.7	3.3	575	1060	1000	1500	75.8	93825A/93126	248	221	286	306	12.7	3.3	0.52	1.1	0.63	17.5	
	333.375	69.85	69.85	52.388	6.4	6.4	690	1190	1000	1500	71.3	HM743345/HM743310	247	227	302	322	6.4	6.4	0.44	1.4	0.75	21.7	
	355.6	68.262	66.675	47.625	7	3.3	605	1170	1000	1500	85.9	96825/96140	260	236	321	343	7	3.3	0.59	1	0.56	26.7	
212.725	285.75	46.038	46.038	34.925	3.5	3.3	350	755	1000	1500	60.4	LM742745/LM742710	237	224	267	280	3.5	3.3	0.48	1.2	0.69	8.15	
	336.55	65.088	65.088	50.8	6.4	3.2	708	1380	1000	1500	59.9	M246932/M246910	232	258	309	320	6.4	3.2	0.33	1.8	0.99	21.6	
215.9	285.75	46.038	46.038	34.925	3.6	3.2	356	781	1000	1500	60.7	LM742748/LM742710	229	231	265	276	3.6	3.2	0.48	1.25	0.69	7.55	
	285.75	46.038	46.038	34.925	3.5	3.3	350	755	1000	1500	60.4	LM742749/LM742710	239	225	267	280	3.5	3.3	0.48	1.2	0.69	7.77	
	290.01	31.75	31.75	22.225	3.5	3.3	225	455	1000	1500	45.3	543085/543114	237	228	271	279	3.5	3.3	0.39	1.5	0.85	5.49	
	355.6	69.85	69.85	49.212	6.8	1.5	695	1230	1000	1500	59.8	EE130852/131400	258	240	329	340	6.8	1.5	0.33	1.8	0.99	25.4	

Single-row Tapered Roller Bearing - Imperial



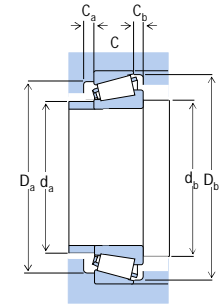
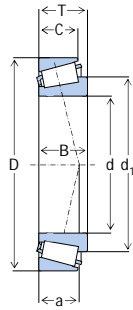
Boundary Dimensions (mm)							Basic Load Ratings (kN)		Speed Ratings (kN)		Load Center Spacing	Designations	Abutment and Fillet Dimensions						Calculation Factors			Mass (kg)
d	D	T	B	C	r1.2min	r3.4min	Cr	Cor	Grease	Oil	a		d _{amax}	d _{bmin}	D _{amax}	D _{bmin}	r _{amax}	r _{bmax}	e	Y	Y ₀	Refer.
	355.6	69.85	69.85	49.213	6.7	1.6	727	1310	1000	1500	59.9	EE130851/131400	235	263	319	330	6.7	1.6	0.33	1.82	1	25.9
	360	82.55	79.372	63.5	1.6	3.2	938	1460	1000	1500	75.7	EE420850/421417	225	243	317	334	1.6	3.2	0.4	1.49	0.82	30.9
216.408	285.75	46.038	49.212	34.925	3.5	3.3	352	780	1000	1500	60	LM742747/LM742710	230	230	271	277	3	3	0.48	1.25	0.7	7.85
216.713	285.75	46.038	49.212	34.925	3.5	3.3	352	780	1000	1500	60	LM742747A/LM742710	230	230	271	277	3	3	0.48	1.25	0.7	7.8
219.916	406.4	63.5	61.913	39.688	7.1	6.4	788	1100	1000	1500	76	EE710865/711600	240	274	355	367	7.1	6.4	0.47	1.27	0.7	32.1
219.969	290.01	31.75	31.75	22.225	3.5	3.3	225	455	1000	1500	45.3	543086/543114	239	231	271	279	3.5	3.3	0.39	1.5	0.85	5.14
	292.009	31.75	31.75	22.225	3.6	3.2	231	472	1000	1500	45.1	543086/543116	233	238	267	272	3.6	3.2	0.38	1.56	0.86	5.27
220.116	317.5	47.625	52.338	36.512	3.3	3.3	523	980	900	1300	49	LM245832/LM245810	235	249	302	304	3	3	0.31	1.9	1.1	12.5
220.662	314.325	61.912	61.912	49.212	6.4	3.3	595	1190	900	1300	57	M244249/M244210	250	233	292	305	6.4	3.3	0.33	1.8	0.99	14.9
220.878	317.5	47.625	52.338	36.512	3.3	3.3	523	980	900	1300	49	LM245833/LM245810	336	249	302	304	3	3	0.31	1.9	1.1	12.5
222.25	482.6	117.475	95.25	73.025	6.4	6.4	1450	2060	900	1300	152.8	EE380875/380190	241	272	386	428	6.4	6.4	0.87	0.69	0.38	88.8
223.838	295.275	46.038	46.038	34.925	3.6	3.2	360	792	900	1300	63.1	LM844049/LM844010	237	239	274	286	3.6	3.2	0.5	1.2	0.66	8.01
225.425	355.6	69.85	69.85	49.212	6.8	1.5	695	1230	900	1300	59.8	EE130889/131400	263	245	329	340	6.8	1.5	0.33	1.8	0.99	23.6
	400.05	88.9	87.312	63.5	1.5	3.3	945	1510	900	1300	82	EE430888/431575	266	246	359	379	1.5	3.3	0.44	1.4	0.75	42.6
227.33	406.4	63.5	61.913	39.688	7.1	6.4	788	1100	900	1300	76	EE710905/711600	248	274	355	367	7.1	6.4	0.47	1.27	0.7	30.9
228.397	431.8	92.075	85.725	49.212	6.4	6.4	885	1320	900	1300	132.5	EE113089/113170	287	256	378	410	6.4	6.4	0.88	0.68	0.38	49
	459.892	85.344	85.725	42.482	6.4	3.2	994	1450	900	1300	128.1	EE113089/113181	247	275	372	397	6.4	3.2	0.88	0.68	0.37	55
228.46	431.8	92.075	85.725	49.212	6.4	6.4	885	1320	900	1300	132.5	EE113091/113170	287	256	378	410	6.4	6.4	0.88	0.68	0.38	49
228.6	295.275	33.338	31.75	23.812	3.5	3.3	224	460	900	1300	49.6	544090/544116	250	240	279	288	3.5	3.3	0.4	1.5	0.82	5.25
	300.038	33.338	31.75	23.812	3.5	3.3	224	460	900	1300	49.6	544090/544118	250	240	282	291	3.5	3.3	0.4	1.5	0.82	5.66
	320.675	50.8	49.212	33.338	6.4	3.3	445	840	900	1300	65.4	88900/88126	260	242	300	312	6.4	3.3	0.48	1.2	0.68	11.6
	327.025	52.388	49.212	34.925	6.4	3.3	445	840	900	1300	67	88900/88128	260	242	302	315	6.4	3.3	0.48	1.2	0.68	12.7
	327.025	52.388	52.388	36.512	6.4	3.3	470	940	900	1300	59.6	8573/8520	261	244	304	317	6.4	3.3	0.41	1.5	0.81	13.3
	355.6	68.262	66.675	47.625	7	3.3	605	1170	900	1300	85.9	96900/96140	270	246	321	343	7	3.3	0.59	1	0.56	23.3

Single-row Tapered Roller Bearing - Imperial



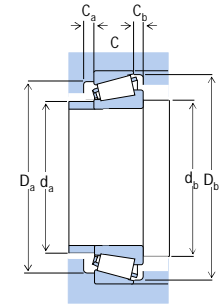
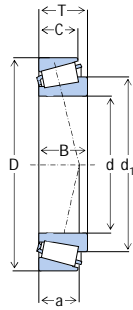
Boundary Dimensions (mm)							Basic Load Ratings (kN)		Speed Ratings (kN)		Load Center Spacing	Designations	Abutment and Fillet Dimensions						Calculation Factors			Mass (kg)
d	D	T	B	C	r1.2min	r3.4min	Cr	Cor	Grease	Oil	a		damax	dbmin	Damax	Dbmin	ramax	rbmax	e	Y	Yo	Refer.
355.6	69.85	69.85	49.212	6.8	1.5	695	1230	900	1300	59.8	EE130902/131400	265	246	329	340	6.8	1.5	0.33	1.8	0.99	23	
355.6	69.85	69.85	50.8	6.4	6.4	772	1370	900	1300	77	HM746645/HM746610	247	261	322	338	6.4	6.4	0.47	1.27	0.7	24	
355.6	69.85	69.85	50.8	6.4	6.4	765	1300	900	1300	75.6	HM746646/HM746610	266	244	324	345	6.4	6.4	0.47	1.3	0.7	23.1	
358.775	71.438	71.438	53.975	3.6	3.2	773	1590	900	1300	64.4	M249732/M249710	242	279	330	342	3.6	3.2	0.33	1.8	0.99	26.6	
399.928	72	61.913	54	7.1	3.2	788	1100	900	1300	84.5	EE710906/711574	249	274	354	371	7.1	3.2	0.47	1.27	0.7	32.6	
400.05	88.9	87.312	63.5	10.4	3.3	945	1510	900	1300	82	EE430900/431575	277	248	359	379	10.4	3.3	0.44	1.4	0.75	41.7	
400.05	88.9	87.312	63.5	19.8	3.3	945	1510	900	1300	82	EE430902/431575	286	248	359	379	19.8	3.3	0.44	1.4	0.75	41.3	
425.45	101.6	95.25	76.2	7	6.4	1280	2000	900	1300	80.8	EE700091/700167	281	257	384	406	7	6.4	0.33	1.8	0.99	57	
488.95	123.825	111.125	73.025	6.4	6.4	1500	2500	900	1300	166.5	HH849549/HH849510	307	264	429	479	6.4	6.4	0.94	0.64	0.35	103	
508	147.475	95.25	73.025	6.4	6.4	1240	1780	900	1300	188.3	EE390090/390200	305	266	429	479	6.4	6.4	0.94	0.64	0.35	96.5	
230.188	317.5	47.625	52.338	36.512	3.3	3.3	523	980	900	1300	49	LM245846/LM245810	246	249	302	304	3	3	0.31	1.9	1.1	11
231.775	268.288	22.499	21.501	18.499	2	2	130	317	900	1300	38.1	LL244549/LL244510	242	240	258	262	2	2	0.33	1.8	0.99	1.82
	295.275	33.338	31.75	23.812	3.5	3.3	224	460	900	1300	49.6	544091/544116	251	241	279	288	3.5	3.3	4	1.5	0.82	4.96
	300.038	33.338	31.75	23.812	3.5	3.3	224	460	900	1300	49.6	544091/544118	251	241	282	291	3.5	3.3	0.4	1.5	0.82	5.38
	317.5	47.625	52.338	36.512	3.3	3.3	523	980	900	1300	49	LM245848/LM245810	248	249	302	304	3	3	0.31	1.9	1.1	10.5
	336.55	65.088	65.088	50.8	6.4	3.3	640	1270	900	1300	60.1	M246942/M246910	265	247	313	326	6.4	3.3	0.33	1.8	0.99	18.4
	336.55	65.088	69.85	50.8	6.4	3.2	708	1380	900	1300	59.9	M246943/M246910	251	258	309	320	6.4	3.2	0.33	1.8	0.99	18.6
	358.775	71.438	71.438	53.975	6.4	3.2	773	1590	900	1300	64.4	M249734/M249710	251	279	330	342	6.4	3.2	0.33	1.8	0.99	26.3
	377.825	79.375	80.963	58.738	3.2	3.2	958	1630	900	1300	77.6	HM647448/HM647411	244	266	337	353	3.2	3.2	0.43	1.4	0.77	32.9
	358.775	71.438	71.438	53.975	6.4	3.3	760	1540	900	1300	64.6	M249743/M249710	276	256	335	348	6.4	3.3	0.33	1.8	0.99	26.2
234.95	311.15	46.038	46.038	33.338	3.6	3.2	407	825	900	1300	52.4	LM446349/LM446310	248	253	290	298	3.6	3.2	0.36	1.66	0.91	8.73
	314.325	49.212	49.212	36.512	3.5	3.3	455	955	900	1300	57.4	LM545849/LM545810	260	247	296	309	3.5	3.3	0.4	1.5	0.83	10.4
	317.5	49.213	49.213	36.513	3.6	3.2	485	981	900	1300	57.5	LM545849/LM545812	248	252	294	303	3.6	3.2	0.4	1.51	0.83	10.6
	320.675	50.8	49.212	33.338	6.4	3.3	445	840	900	1300	65.4	88925/88126	263	246	300	312	6.4	3.3	0.48	1.2	0.68	10.7
	327.025	52.388	49.212	34.925	6.4	3.3	445	840	900	1300	67	88925/88128	263	246	302	315	6.4	3.3	0.48	1.2	0.68	11.8
	327.025	52.388	52.388	36.513	6.4	3.2	468	930	900	1300	60	8574/8520	254	258	300	310	6.4	3.2	0.41	1.48	0.81	12.2
	327.025	52.388	52.388	36.512	6.4	3.3	470	940	900	1300	59.6	8575/8520	264	248	304	317	6.4	3.3	0.41	1.5	0.81	12.4
	328.625	52.388	52.388	36.513	6.4	3.2	468	930	900	1300	60	8575/8522	254	258	300	310	6.4	3.2	0.41	1.48	0.81	12.4

Single-row Tapered Roller Bearing - Imperial



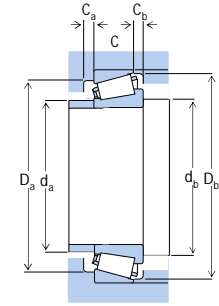
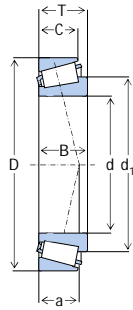
Boundary Dimensions (mm)							Basic Load Ratings (kN)		Speed Ratings (kN)		Load Center Spacing	Designations	Abutment and Fillet Dimensions						Calculation Factors			Mass (kg)
d	D	T	B	C	r1.2min	r3.4min	Cr	Cor	Grease	Oil	a		damax	dbmin	Damax	Dbmin	ramax	rbmax	e	Y	Yo	Refer.
	355.6	68.262	66.675	47.625	7	3.3	605	1170	900	1300	85.9	96925/96140	273	249	321	343	7	3.3	0.59	1	0.56	22.1
	381	74.613	74.613	57.15	6.4	3.2	854	1670	900	1300	69	M252330/M252310	254	294	351	363	6.4	3.2	0.33	1.8	0.99	32.5
	384.175	112.713	112.712	90.488	6.4	6.4	1450	2680	900	1300	83.8	H247548/H247510	254	265	342	362	6.4	6.4	0.33	1.8	0.99	50
	384.175	112.712	112.712	90.488	6.4	6.4	1220	2220	900	1300	84.2	H247549/H247510	276	251	344	369	6.4	6.4	0.33	1.8	0.99	48.2
236.538	320.675	44.45	44.45	33.338	3.6	3.2	409	755	900	1300	64.4	88931/88126	250	254	298	309	3.6	3.2	0.48	1.24	0.68	9.24
237.33	336.55	65.088	65.088	50.8	6.4	3.3	640	1270	900	1300	60.1	M246949/M246910	268	250	313	326	6.4	3.3	0.33	1.8	0.99	17.3
	358.775	71.438	71.438	53.975	6.4	3.3	760	1540	900	1300	64.6	M249736/M249710	279	259	335	348	6.4	3.3	0.33	1.8	0.99	25
241.122	368.3	68.262	68.262	53.975	6.4	3.3	685	1210	900	1300	65.3	EE125094/125145	277	258	339	354	6.4	3.3	0.34	1.7	0.96	24.1
241.3	327.025	52.388	52.388	36.512	6.4	3.3	470	940	900	1300	59.6	8578/8520	267	250	304	317	6.4	3.3	0.41	1.5	0.81	11.4
	355.6	50.8	50.8	33.338	6.4	3.2	508	924	900	1300	56.1	EE170950/171400	260	280	328	336	6.4	3.2	0.36	1.65	0.91	16.1
241.3	349.148	57.15	57.15	44.45	6.4	3.3	570	1060	900	1300	59.5	EE127095/127135	274	257	325	338	6.4	3.3	0.35	1.7	0.93	16.8
	355.6	50.8	50.8	33.338	6.4	3.3	460	815	900	1300	56	EE170950/171400	275	260	331	341	6.4	3.3	0.36	1.7	0.91	15.2
	355.6	57.15	57.15	44.45	6.4	3.3	570	1060	900	1300	59.5	EE127095/127140	274	257	328	341	6.4	3.3	0.35	1.7	0.93	18
	365.049	50.8	50.8	33.338	6.4	3.2	508	924	900	1300	56.1	EE170950/171436	260	280	328	336	6.4	3.2	0.36	1.65	0.91	17.4
	368.3	50.8	50.8	33.338	6.4	3.3	460	815	900	1300	56	EE170950/171450	275	260	338	348	6.4	3.3	0.36	1.7	0.91	17.1
	368.3	68.262	68.262	53.975	6.4	3.3	685	1210	900	1300	65.3	EE125095/125145	278	258	339	354	6.4	3.3	0.34	1.7	0.96	24.1
	393.7	73.817	69.85	50.005	6.4	6.4	700	1280	900	1300	76.1	EE275095/275155	293	274	364	382	6.4	6.4	0.4	1.5	0.82	32.3
	406.4	69.85	69.85	46.038	6.4	6.4	700	1280	800	1100	72.1	EE275095/275160	293	274	371	389	6.4	6.4	0.4	1.5	0.82	34.3
	444.5	101.6	100.012	76.2	6.4	4.8	1410	2240	800	1100	84.4	EE923095/923175	295	273	403	423	6.4	4.8	0.34	1.8	0.98	65.4
	488.95	120.65	120.65	92.075	6.4	6.4	1720	2860	800	1100	92.8	EE295950/295193	315	288	445	469	6.4	6.4	0.31	1.9	1.1	101
	508	117.475	95.25	73.025	6.4	6.4	1240	1780	800	1100	168.3	EE390095/390200	312	272	429	479	6.4	6.4	0.94	0.64	0.35	93
243.683	315.913	31.75	31.75	22.225	3.6	3.2	241	549	800	1100	54	LL648434/LL648415	257	268	295	301	3.6	3.2	0.43	1.39	0.77	6
244.475	381	79.375	76.2	57.15	6.4	4.8	820	1540	800	1100	87.5	EE126097/126150	286	261	344	367	6.4	4.8	0.52	1.2	0.64	30.7
	425.45	93.6663	87.313	76.2	1.6	6.4	1180	1980	800	1100	81.2	EE700096/700167	254	285	364	381	1.6	6.4	0.33	1.8	0.99	52.4
247.65	304.8	22.225	22.225	15.875	1.6	1.6	155	322	800	1100	38.8	28880/28820	257	262	285	289	1.6	1.6	0.32	1.85	1.02	3.05
	346.075	63.5	63.5	50.8	6.4	6.4	726	1440	800	1100	61.7	M348449/M348410	267	268	319	331	6.4	6.4	0.34	1.75	0.96	17.4
	355.6	50.8	50.8	33.338	6.4	3.3	460	815	800	1100	56	EE170975/171400	278	263	331	341	6.4	3.3	0.36	1.7	0.91	14.2

Single-row Tapered Roller Bearing - Imperial



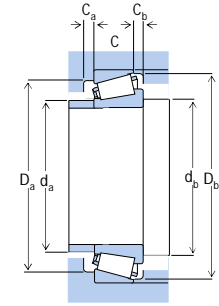
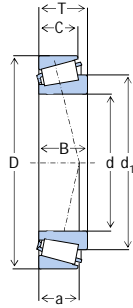
Boundary Dimensions (mm)							Basic Load Ratings (kN)		Speed Ratings (kN)		Load Center Spacing	Designations	Abutment and Fillet Dimensions						Calculation Factors			Mass (kg)
d	D	T	B	C	r1.2min	r3.4min	Cr	Cor	Grease	Oil	a		damax	dbmin	Damax	Dbmin	ramax	rbmax	e	Y	Yo	Refer.
	368.3	50.8	50.8	33.338	6.4	3.3	460	815	800	1100	56	EE170975/171450	278	263	338	348	6.4	3.3	0.36	1.7	0.91	16.1
	381	74.613	74.613	57.15	6.4	3.2	854	1670	800	1100	69	M252337/M252310	267	294	351	363	6.4	3.2	0.33	1.8	0.99	29.7
	406.4	115.888	117.475	93.662	6.4	6.4	1530	2920	800	1100	87.4	HH249949/HH249910	293	266	366	392	6.4	6.4	0.33	1.8	0.99	58.2
	444.5	104.775	103.188	76.2	6.4	4.8	1560	2460	800	1100	85.3	EE115097/115175	267	296	395	412	6.4	4.8	0.35	1.73	0.95	65
	603.25	160.338	158.75	122.238	6.4	9.5	3070	4210	800	1100	127.4	EE515097/515237	267	345	520	545	6.4	9.5	0.38	1.57	0.86	224
249.25	381	79.375	76.2	57.15	6.4	4.8	788	1470	800	1100	88.5	EE126098/126150	268	27.8	337	356	6.4	4.8	0.52	1.16	0.64	29.5
254	315.913	31.75	31.75	22.225	3.6	4.8	241	549	800	1100	54	LL648449/LL648416	267	268	295	301	3.6	4.8	0.43	1.39	0.77	4.99
	317.5	22.225	22.225	15.875	1.5	1.5	153	380	800	1100	43.4	29875/29819	276	271	307	311	1.5	1.5	0.35	1.7	0.95	4.18
	323.85	22.225	22.225	15.875	1.5	1.5	153	380	800	1100	43.4	29875/29820	276	271	310	315	1.5	1.5	0.35	1.7	0.95	4.57
254	358.775	71.438	71.438	53.975	3.5	3.3	760	1540	800	1100	64.6	HH249749/HH249710	284	267	335	348	3.5	3.3	0.33	1.8	0.99	21.5
	365.125	58.738	58.738	42.862	6.4	6.4	580	1100	800	1100	64.2	EE134100/134143	289	272	339	354	6.4	6.4	0.37	1.6	0.88	18.4
	368.3	58.738	58.738	42.862	6.4	6.4	580	1100	800	1100	64.2	EE134100/134145	289	272	340	356	6.4	6.4	0.37	1.6	0.88	19.1
	393.7	73.817	69.85	50.005	6.4	6.4	700	1280	800	1100	76.1	EE275100/275155	299	280	364	382	6.4	6.4	0.4	1.5	0.82	29.6
	403.225	69.85	69.85	46.038	6.4	6.4	738	1540	700	1000	71.5	EE275100/275158	273	313	365	378	6.4	6.4	0.4	1.49	0.82	32.5
	422.275	86.121	79.771	66.675	6.7	3.2	1010	1680	700	1000	78.7	HM252343/HM252310	273	309	384	399	6.7	3.2	0.33	1.8	0.99	42.7
	422.275	86.121	79.771	66.675	6.7	3.2	1010	1680	700	1000	78.7	HM252344/HM252310	273	309	384	399	6.7	3.2	0.33	1.8	0.99	42.7
	444.5	76.2	73.025	50.8	6.4	6.4	860	1380	700	1000	81	EE822100/822175	273	316	392	406	6.4	6.4	0.42	1.44	0.79	43
	444.5	76.2	76.2	50.8	6.4	6.4	860	1380	700	1000	81	EE822100X/822175	273	316	392	406	6.4	6.4	0.42	1.44	0.79	43.6
	400.05	57.15	55.562	41.275	3.3	1.5	635	1050	700	1000	61.2	EE251001/251575	291	276	372	381	3.3	1.5	0.33	1.8	1	24.3
	406.4	69.85	69.85	46.038	6.4	6.4	700	1280	700	1000	72.1	EE275100/275160	299	280	371	389	6.4	6.4	0.4	1.5	0.82	31.6
	422.275	86.121	79.771	66.675	6.8	3.3	1140	1850	700	1000	77.6	HM252343/HM252310	301	278	392	408	6.8	3.3	0.33	1.8	0.99	43.2
	431.724	82.55	79.771	60.325	6.8	3.5	1140	1850	700	1000	74.1	HM252343/HM252315	301	278	397	413	6.8	3.5	0.33	1.8	0.99	44.9
	444.5	76.2	73.025	50.8	6.4	6.4	995	1500	700	1000	71.1	EE822100/822175	302	281	405	421	6.4	6.4	0.34	1.8	0.97	42.7
	495.3	76.2	74.612	53.975	6.4	3.3	1080	1790	700	1000	85.1	EE941002/941950	327	304	455	471	6.4	3.3	0.4	1.5	0.83	64
	495.3	141.288	141.288	114.3	6.4	6.4	2330	4670	700	1000	108.1	HH258232/HH258210	273	346	442	467	6.4	6.4	0.33	1.8	0.99	128
	533.4	133.35	120.65	77.788	6.4	6.4	1840	2770	600	800	177.9	HH953749/HH953710	332	285	457	511	6.4	6.4	0.94	0.64	0.35	127
255.6	342.9	57.15	63.5	44.45	1.6	3.2	612	1280	700	1000	60.1	M349546XX/M349510	265	276	321	331	1.6	3.2	0.35	1.73	0.95	14.1

Single-row Tapered Roller Bearing - Imperial



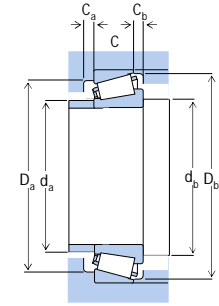
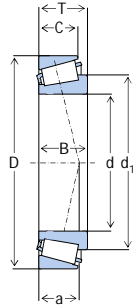
Boundary Dimensions (mm)							Basic Load Ratings (kN)		Speed Ratings (kN)		Load Center Spacing	Designations	Abutment and Fillet Dimensions						Calculation Factors			Mass (kg)
d	D	T	B	C	r1.2min	r3.4min	Cr	Cor	Grease	Oil	a		d _{amax}	d _{bmin}	D _{amax}	D _{bmin}	r _{amax}	r _{bmax}	e	Y	Y ₀	Refer.
	342.9	57.15	63.5	44.45	1.6	3.2	612	1280	700	1000	60.1	M349547/M349510	265	276	321	331	1.6	3.2	0.35	1.73	0.95	14.1
257.175	342.9	57.15	57.15	44.45	6.4	3.3	560	1190	850	1200	59.6	M349549/M349510	285	269	323	336	6.4	3.3	0.35	1.7	0.94	14.1
	358.775	71.438	76.2	53.975	1.6	3.2	773	1590	850	1200	64.4	M249747/M249710	266	279	330	342	1.6	3.2	0.33	1.8	0.99	21
258.763	400.05	69.85	67.47	46.038	9.5	6.4	759	1280	850	1200	71.2	EE221018/221575	284	295	359	371	9.5	6.4	0.39	1.52	0.84	26.7
260.35	365.125	58.738	58.738	42.862	6.4	6.4	580	1100	850	1200	64.2	EE134102/134143	293	275	339	354	6.4	6.4	0.37	1.6	0.88	17.3
	368.3	58.738	58.738	42.862	6.4	6.4	580	1100	850	1200	64.2	EE134102/134145	293	275	340	356	6.4	6.4	0.37	1.6	0.88	17.9
260.35	400.05	69.85	67.47	46.038	9.7	6.4	735	1220	800	1100	71.4	EE221026/221575	300	278	366	383	9.7	6.4	0.39	1.5	0.84	26.7
	406.4	69.85	67.673	53.975	3.3	3.3	750	1430	800	1100	73.5	EE128102/128160	302	285	376	391	3.3	3.3	0.39	1.6	0.86	31.8
	419.1	85.725	84.138	61.912	6.4	3.3	960	1820	800	1100	106	EE435102/435165	310	281	378	405	6.4	3.3	0.61	0.99	0.54	42.9
260.35	422.275	86.121	79.771	66.675	6.7	3.2	1010	1680	800	1100	78.7	HM252348/HM252310	280	309	384	399	6.7	3.2	0.33	1.8	0.99	41.2
	422.275	86.121	79.771	66.675	6.8	3.3	1140	1850	800	1100	77.6	HM252349/HM252310	304	282	392	408	6.8	3.3	0.33	1.8	0.99	41.6
	422.275	86.124	79.771	66.675	6.8	3.3	975	1590	800	1100	77.3	EE551026/551662	302	281	387	404	6.8	3.3	0.33	1.8	0.99	41
260.35	431.724	82.55	79.771	60.325	6.7	3.6	1010	1680	800	1100	75.2	HM252348/HM252315	280	309	385	398	6.7	3.6	0.33	1.8	0.99	42.9
	431.724	82.55	79.771	60.325	6.8	3.5	1140	1850	800	1100	74.1	HM252349/HM252315	304	282	397	413	6.8	3.5	0.33	1.8	0.99	43.3
	488.95	120.65	120.65	92.075	6.4	6.4	1720	2860	800	1100	92.8	EE295102/295193	325	297	445	469	6.4	6.4	0.31	1.9	1.1	93.8
262.975	355.6	57.15	62	44.45	3.6	3.2	605	1280	900	1300	62.3	LM451344/LM451310	276	287	332	343	3.6	3.2	0.36	1.67	0.92	15.7
263.525	325.438	28.575	28.575	25.4	1.5	1.5	228	555	900	1300	46.6	38880/38820	281	274	312	318	1.5	1.5	0.35	1.7	0.95	5.3
	355.6	57.15	57.15	44.45	3.5	3.3	615	1260	850	1200	62.4	LM451345/LM451310	290	276	335	348	3.5	3.3	0.36	1.6	0.9	15.3
264.975	352.425	36.513	34.925	23.813	3.6	3.2	310	653	850	1200	71.2	L853042/L853010	278	295	329	338	3.6	3.2	0.54	1.11	0.61	8.82
	355.6	57.15	62	44.45	3.6	3.2	605	1280	850	1200	62.3	LM451347/LM451310	278	287	332	343	3.6	3.2	0.36	1.67	0.92	15.3
266.7	323.85	22.225	22.225	15.875	1.5	1.5	153	380	850	1200	43.4	29880/29820	282	277	310	315	1.5	1.5	0.35	1.7	0.95	3.67
	325.438	28.575	28.575	25.4	1.5	1.5	228	555	850	1200	46.6	38885/38820	283	276	312	318	1.5	1.5	0.35	1.7	0.95	5
	325.438	28.575	33.47	25.4	1.6	1.6	217	7	850	1200	48.6	38886/38820XX	276	281	306	312	1.6	1.6	0.37	1.64	0.9	4.97
	355.6	57.15	57.15	44.45	3.5	3.3	615	1260	850	1200	62.4	LM451349/LM451310	292	277	335	348	3.5	3.3	0.36	1.6	0.9	14.7
	355.6	57.15	57.15	44.4	10.4	3.2	605	1280	850	1200	62.3	LM451349A/LM451311	294	287	332	343	10.4	3.2	0.36	1.67	0.92	14.5
	393.7	73.817	69.85	50.005	6.4	6.4	700	1280	850	1200	76.1	EE275105/275155	306	286	364	382	6.4	6.4	0.4	1.5	0.82	26.7
	406.4	69.85	69.85	46.038	6.4	6.4	700	1280	850	1200	72.1	EE275105/275160	306	286	371	389	6.4	6.4	0.4	1.5	0.82	28.8

Single-row Tapered Roller Bearing - Imperial



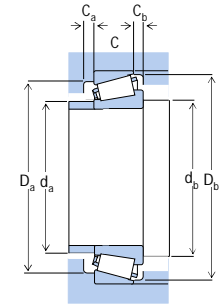
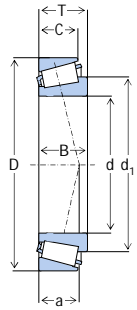
Boundary Dimensions (mm)							Basic Load Ratings (kN)		Speed Ratings (kN)		Load Center Spacing	Designations	Abutment and Fillet Dimensions						Calculation Factors			Mass (kg)
d	D	T	B	C	r1.2min	r3.4min	Cr	Cor	Grease	Oil	a		d _{max}	d _{min}	D _{max}	D _{min}	r _{max}	r _{bmax}	e	Y	Y ₀	Refer.
	422.275	86.121	79.771	66.675	6.8	3.2	1010	1680	850	1200	78.7	HM252349A/HM252310	286	309	384	399	6.8	3.2	0.33	1.8	0.99	39.5
	431.724	82.55	79.771	60.325	6.7	3.6	980	1710	850	1200	74.3	EE551050/551700	286	304	375	388	6.7	3.6	0.33	1.8	0.99	40.9
	422.275	86.124	79.771	66.675	6.8	3.3	975	1590	850	1200	77.3	EE551050/551662	306	284	387	404	6.8	3.3	0.33	1.8	0.99	39.4
	444.5	120.65	117.475	88.9	6.4	6.4	1610	3050	850	1200	119.9	H852849/H852810	320	282	392	431	6.4	6.4	0.58	1	0.57	72
269.875	381	74.612	74.612	57.15	6.4	3.3	790	1590	850	1200	68.8	M252349/M252310	304	285	356	370	6.4	3.3	0.33	1.8	0.99	24.8
273.05	317.5	22.225	22.225	15.875	1.6	1.6	147	361	850	1200	43	29888/29819	282	284	304	307	1.6	1.6	0.35	1.73	0.95	2.61
	393.7	73.817	69.85	50.005	6.4	6.4	700	1280	850	1200	76.1	EE275108/275155	309	290	364	382	6.4	6.4	0.4	1.5	0.82	25.2
	406.4	69.85	69.85	46.038	6.4	6.4	700	1280	850	1200	72.1	EE275108/275160	309	290	371	389	6.4	6.4	0.4	1.5	0.82	27.3
275	352.425	36.513	40	23.813	3.6	3.2	310	653	850	1200	71.2	L853048/L853010	281	295	329	338	3.6	3.2	0.54	1.11	0.61	7.96
276.225	352.425	36.512	34.925	23.812	3.5	3.3	320	665	850	1200	72	L853049/L853010	300	288	333	344	3.5	3.3	0.54	1.1	0.62	7.85
279.4	317.5	22.225	22.86	17.653	1.6	1.6	151	422	850	1200	44	LL352148/LL352111	289	289	307	311	1.6	1.6	0.35	1.73	0.95	2.37
	317.5	24.384	24.384	18.288	1.6	1.6	151	422	850	1200	44.7	LL352149/LL352110	289	289	307	311	1.6	1.6	0.35	1.73	0.95	2.52
	374.65	47.625	47.625	34.925	3.6	3.2	468	971	850	1200	64.7	L555233/L555210	293	309	352	361	3.6	3.2	0.4	1.49	0.82	14
	469.9	95.25	93.662	69.85	9.7	3.3	1180	2060	850	1200	87.2	EE722110/722185	336	308	431	451	9.7	3.3	0.38	1.6	0.87	60.9
	488.95	120.65	120.65	92.075	1.3	6.4	1720	2860	850	1200	92.8	EE295110/295193	329	307	445	469	1.3	6.4	0.31	1.9	1.1	86.2
279.982	380.009	65.088	65.088	49.212	3.6	3.2	664	1410	850	1200	75.9	LM654642/LM654611	293	307	356	370	3.6	3.2	0.43	1.39	0.77	20
	380.898	65.088	65.088	49.212	3.5	3.3	660	1550	850	1200		LM654642/LM654610	302	298	356	368	3.5	3.3	0.43	1.39	0.76	19
280	6.4	69.85	67.673	53.975	6.4	3.2	767	1470	850	1200	75	EE128112/128160	299	311	369	383	6.4	3.2	0.39	1.56	0.86	27.7
280.192	400.05	52.388	0.211	34.925	6.7	3.2	521	991	850	1200	67.7	EE101103/101575	300	317	366	375	6.7	3.2	0.41	1.48	0.81	18.7
	406.4	52.388	50.211	34.925	6.8	3.3	520	870	850	1200	68.1	EE101103/101600	315	299	380	391	6.8	3.3	0.41	1.5	0.81	18.9
	406.4	69.85	67.673	53.975	6.7	3.2	767	1470	850	1200	75	EE128110/128160	300	311	369	383	6.7	3.2	0.39	1.56	0.86	27.6
	406.4	69.85	67.673	53.975	6.8	3.3	750	1430	850	1200	73.5	EE128111/128160	316	295	376	391	6.8	3.3	0.39	1.6	0.86	27.2
	409.981	69.85	67.673	53.975	6.8	3.3	750	1430	850	1200	73.5	EE128111/128161	316	295	377	393	6.8	3.3	0.39	1.6	0.86	28.2
285.75	354.013	33.338	31.75	22.225	3.6	3.2	240	537	850	1200	65.8	545112/545139	299	308	337	344	3.6	3.2	0.49	1.23	0.68	6.3
	358.775	33.338	31.75	22.225	3.5	3.3	252	575	850	1200	66.3	545112/545141	307	298	339	348	3.5	3.3	0.49	1.2	0.67	7.09
	380.898	65.088	65.088	49.212	3.5	3.3	615	1490	850	1200	76.1	LM654649/LM654610	316	300	355	371	3.5	3.3	0.43	1.4	0.77	20

Single-row Tapered Roller Bearing - Imperial



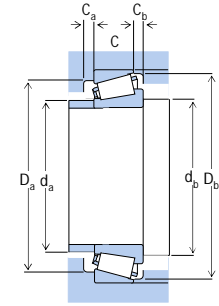
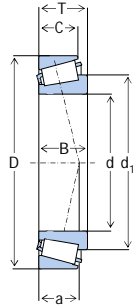
Boundary Dimensions (mm)							Basic Load Ratings (kN)		Speed Ratings (kN)		Load Center Spacing	Designations	Abutment and Fillet Dimensions						Calculation Factors			Mass (kg)
d	D	T	B	C	r1.2min	r3.4min	Cr	Cor	Grease	Oil	a		damax	dbmin	Damax	Dbmin	ramax	rbmax	e	Y	Yo	Refer.
	469.9	81.77	80.569	57.15	9.7	3.3	1100	1810	850	1200	69.4	EE921124/921850	338	315	438	451	9.7	3.3	0.29	2.1	1.1	49.4
288.925	406.4	77.788	77.788	60.325	6.4	3.3	1010	2080	850	1200	72.8	M255499/M255410A	316	310	379	388	6.4	3.3	0.34	1.78	0.98	29.8
	406.4	77.788	77.788	60.325	6.4	3.3	895	1830	850	1200	72.8	M255449/M255410	324	304	380	395	6.4	3.3	0.34	1.8	0.98	29.8
	406.949	77.907	77.788	61	9.5	3.6	1010	2210	850	1200	73.3	M255448/M255411	314	318	374	388	9.5	3.6	0.34	1.77	0.98	31.1
289.975	393.7	50.8	50.8	38.1	6.4	3.2	524	1180	850	1200	64.8	L357040/L357010	309	329	369	378	6.4	3.2	0.36	1.67	0.92	17.4
292.1	374.65	47.625	47.625	34.925	3.5	3.3	490	1060	800	1100	64.5	L555249/L555210	316	303	355	366	3.5	3.3	0.4	1.5	0.82	12.5
	393.7	63.5	50.8	44.45	3.5	6.4	545	1120	800	1100	99.8	84115/84155	323	305	364	383	3.5	6.4	0.61	0.99	0.54	18.6
	469.9	95.25	93.662	69.85	9.7	3.3	1180	2060	800	1100	87.2	EE722115/722185	342	315	431	451	9.7	3.3	0.38	1.6	0.87	56.7
292.1	508	106.363	107.95	74.613	6.4	3.2	1480	2540	800	1100	88.5	EE224115/224200	311	362	453	469	6.4	3.2	0.33	1.84	1.01	82.5
	558.8	136.525	136.525	98.425	6.4	6.4	2480	4100	700	1000	113.5	EE790114/790221	362	332	506	537	6.4	6.4	0.39	1.5	0.84	147
	558.8	136.525	136.525	98.425	19.8	6.4	2350	4000	700	1000	114.2	EE790116/790221	338	366	488	510	19.8	6.4	0.4	1.52	0.84	142
298.45	431.8	69.85	58.738	53.975	6.4	3.3	755	1400	700	1000	88.1	EE111175/111700	336	316	400	417	6.4	3.3	0.44	1.4	0.75	29.2
	444.5	63.5	61.912	39.688	8	3.3	685	1140	700	1000	71.8	EE291175/291749	339	319	415	427	8	3.3	0.38	1.6	0.87	28.7
	444.5	63.5	61.912	39.688	8	1.5	685	1140	700	1000	71.8	EE291175/291750	339	319	417	427	8	1.5	0.38	1.6	0.87	28.7
299.975	495.3	141.288	141.288	114.3	6.4	6.4	2330	4670	700	1000	108.1	HH258248/HH258210	319	346	442	467	6.4	6.4	0.33	1.8	0.99	106
300	495.3	141.288	141.288	114.3	6.4	6.4	2330	4550	630	850	106	HH258248/HH258210	330	341	464	468	6	6	0.33	1.8	1	107
300.038	422.275	82.55	82.55	63.5	6.4	3.3	990	2050	630	850	76.7	HM256849/HM256810	337	317	395	411	6.4	3.3	0.34	1.8	0.98	34.2
304.8	393.7	50.8	50.8	38.1	6.4	3.3	530	1140	630	850	63.7	L357049/L357010	334	318	374	385	6.4	3.3	0.36	1.7	0.92	14.5
	406.4	63.5	63.5	47.625	6.4	3.3	690	1490	630	850	79.4	LM757049/LM757010	337	317	380	396	6.4	3.3	0.44	1.4	0.75	21.4
	438.048	76.2	76.992	53.975	6.4	4.8	788	1610	630	850	82	EE129120X/129172	325	343	401	415	6.4	4.8	0.4	1.49	0.82	34.4
	444.5	63.5	61.912	39.688	8	3.3	685	1140	630	850	71.8	EE291201/291749	342	323	415	427	8	3.3	0.38	1.6	0.87	27.3
	444.5	63.5	61.912	39.688	8	1.5	685	1140	630	850	71.8	EE291201/291750	342	323	417	427	8	1.5	0.38	1.6	0.87	27.3
	488.95	92.075	92.075	63.5	16	3.2	1270	2340	630	850	92	EE724119/724191	344	359	439	456	16	3.2	0.4	1.49	0.82	60.4
	488.95	92.075	92.075	63.5	16	3.2	1270	2340	630	850	92	EE724120/724191	344	359	439	456	16	3.2	0.4	1.49	0.82	60.4
	495.3	76.2	74.612	53.975	6.4	3.3	1080	1790	630	850	85.1	EE941205/941950	352	329	455	471	6.4	3.3	0.4	1.5	0.83	51
	495.3	76.2	74.612	53.975	6.4	3.3	1140	1940	630	850	85.1	EE941205/941950A	339	329	459	463	6.4	3.3	0.4	1.49	0.82	55.8
	495.3	76.2	77.866	53.975	6.4	3.2	1020	1610	630	850	88.1	EE941205X/941950	325	355	441	455	6.4	3.2	0.4	1.49	0.82	50.7

Single-row Tapered Roller Bearing - Imperial



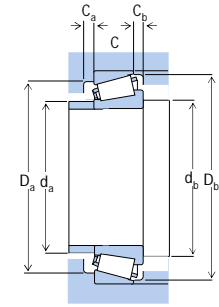
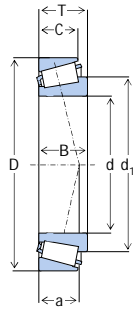
Boundary Dimensions (mm)							Basic Load Ratings (kN)		Speed Ratings (kN)		Load Center Spacing	Designations	Abutment and Fillet Dimensions						Calculation Factors			Mass (kg)
d	D	T	B	C	r1.2min	r3.4min	Cr	Cor	Grease	Oil	a		damax	dbmin	Damax	Dbmin	ramax	rbmax	e	Y	Yo	Refer.
	495.3	95.25	92.075	69.85	16	6.4	1270	2340	630	850	95.2	EE724119/724195	344	359	439	47.4	16	6.4	0.4	1.49	0.82	64.8
	495.3	95.25	92.075	69.85	16	6.4	1240	2150	630	850	93.9	EE724120/724195	364	329	451	47.4	16	6.4	0.4	1.5	0.82	63.3
	499.948	101.6	79.375	53.975	6.4	6.4	1190	2030	630	850	203	M959442/M959410	367	327	444	487	6.4	6.4	1.2	0.51	0.28	67.6
	558.8	136.525	136.525	98.425	1.3	6.4	2480	4100	630	850	113.5	EE790120/790221	364	338	506	537	1.3	6.4	0.39	1.5	0.84	141
305.054	406.4	63.5	63.5	47.625	6	3.2	748	1580	630	850	79.6	LM757049A/LM757010	325	323	376	390	6.4	3.2	0.44	1.36	0.75	21.2
314.325	495.3	120.65	119.062	88.9	6.4	6.4	1710	3300	630	850	125.3	H859049/H859010	368	335	446	484	6.4	6.4	0.55	1.1	0.6	83.8
317.5	444.5	63.5	61.912	39.688	8	1.5	685	1140	630	850	71.8	EE291250/291750	349	329	417	427	8	1.5	0.38	1.6	0.87	24.3
	444.5	63.5	61.913	39.688	15	1.6	721	1380	630	850	70	EE291251/291750	355	346	404	414	15	1.6	0.38	1.59	0.87	25.7
	444.5	63.5	61.912	39.688	8	3.3	685	1140	630	850	71.8	EE291250/291749	349	329	415	427	8	3.3	0.38	1.6	0.87	24.2
	447.675	85.725	85.725	68.263	3.6	3.2	1060	2330	630	850	79.7	HM259048/HM259010	332	352	411	426	3.6	3.2	0.33	1.8	0.99	40.9
	447.675	85.725	85.725	68.262	3.5	3.3	1120	2350	630	850	80.1	HM259049/HM259010	353	333	418	435	3.5	3.3	0.33	1.8	0.99	40.4
	596.9	136.525	136.525	98.425	19.8	6.4	2480	4110	600	800	119.6	EE720125/720236	364	389	520	545	19.8	6.4	0.42	1.42	0.78	161
	622.3	147.638	131.762	82.55	14.3	12.7	2270	3800	600	800	206.4	H961649/H961610	414	358	535	597	14.3	12.7	0.94	0.64	0.35	184
323.85	381	28.575	28.575	20.638	3.6	3.3	219	570	670	900	64.8	LL758744/LL758715	338	340	363	369	3.6	3.3	0.44	1.36	0.75	5.15
325.438	596.9	136.525	136.525	98.425	6.4	6.4	2480	4110	630	850	119.6	EE720128/720236	345	389	520	545	6.4	6.4	0.42	1.42	0.78	158
329.87	533.4	76.2	76.2	50.8	4.7	3.3	1060	1800	630	850	78.4	EE971298/972100	383	364	497	510	4.7	3.3	0.33	1.8	0.99	58.5
330.2	415.925	47.625	47.625	34.925	12.7	3.3	505	1150	630	850	83	L860048/L860010	365	342	394	408	12.7	3.3	0.5	1.2	0.66	14.3
	415.925	47.625	47.625	34.925	3.5	3.3	505	1150	630	850	83	L860049/L860010	356	342	394	408	3.5	3.3	0.5	1.2	0.66	14.6
	469.9	60.325	55.562	38.1	7	6.4	710	1420	630	850	92.7	EE161300/161850	377	358	441	459	7	6.4	0.5	1.2	0.66	30.1
	482.6	60.325	55.562	38.1	7	6.4	710	1420	630	850	92.7	EE161300/161900	377	358	447	464	7	6.4	0.5	1.2	0.66	32.9
	482.6	66.675	63.5	44.45	6.8	6.8	810	1560	630	850	84.9	EE203130/203190	377	358	450	467	6.8	6.8	0.42	1.4	0.79	36.4
	482.6	85.725	80.167	60.325	6.4	3.3	995	1830	630	850	88.9	EE526130/526190	370	348	447	465	6.4	3.3	0.39	1.5	0.85	44.9
	482.6	85.725	80.167	60.325	3.3	3.3	995	1830	630	850	88.9	EE526132/526190	367	348	447	465	3.3	3.3	0.39	1.5	0.85	45
	488.95	60.325	55.562	38.1	7	6.4	710	1420	630	850	92.7	EE161300/161925	377	358	451	468	7	6.4	0.5	1.2	0.66	34.3
333.375	469.9	90.488	90.488	71.438	6.4	3.3	1340	2850	630	850	85	HM261049/HM261010	365	362	438	452	6	3	0.33	1.8	1	47

Single-row Tapered Roller Bearing - Imperial



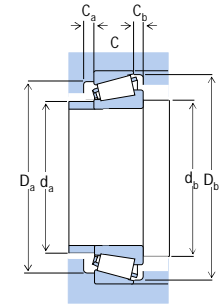
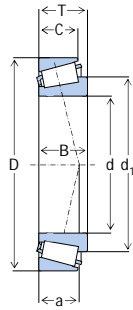
Boundary Dimensions (mm)							Basic Load Ratings (kN)		Speed Ratings (kN)		Load Center Spacing	Designations	Abutment and Fillet Dimensions						Calculation Factors			Mass (kg)
d	D	T	B	C	r1.2min	r3.4min	Cr	Cor	Grease	Oil	a		dmax	dbmin	Damax	Dbmin	ramax	rbmax	e	Y	Yo	Refer.
342.9	450.85	66.675	66.675	52.388	8.5	3.5	805	1840	670	900	75.8	LM361649/LM361610 LM961548/LM961510	379	359	426	441	8.5	3.5	0.35	1.7	0.94	27.2
	457.098	66.675	63.5	46.038	3.2	3.2	729	1670	670	900	122.3		356	365	421	443	3.2	3.2	0.71	0.84	0.46	28.2
342.9	457.098	68.262	63.5	47.625	3.3	3.3	705	1640	670	900	78.4	LM961548/LM961511 EE971354/972100	367	363	423	443	3.3	3.3	0.71	0.84	0.46	30
	533.4	76.2	76.2	50.8	4.7	3.3	1060	1800	670	900			390	371	497	510	4.7	3.3	0.33	1.8	0.99	54.4
346.075	469.9	60.325	55.562	38.1	7	6.4	710	1420	670	900	92.7	EE161363/161850 EE161363/161900 EE203136/203190	385	366	441	459	7	6.4	0.5	1.2	0.66	26.4
	482.6	60.325	55.562	38.1	7	6.4	710	1420	630	850	92.7		385	366	447	464	7	6.4	0.5	1.2	0.6	29.2
	482.6	66.675	63.5	44.45	6.8	6.8	810	1560	630	850	84.9		385	366	450	467	6.8	6.8	0.42	1.4	0.79	32.2
346.075	482.6	66.675	63.5	44.45	12.7	6.8	810	1560	630	850	84.9	EE203137/203190 EE161363/161925 HM262748/HM262710 HM262749/HM262710	391	366	450	467	12.7	6.8	0.42	1.4	0.79	32
	488.95	60.325	55.562	38.1	7	6.4	710	1420	630	850	92.7		385	366	451	468	7	6.4	0.5	1.2	0.66	30.7
	488.95	95.25	95.25	74.613	6.4	3.2	1350	2900	630	850	88.5		366	381	450	467	6.4	3.2	0.33	1.79	0.99	53.3
	488.95	95.25	95.25	74.612	6.4	3.3	1250	2600	630	850	87.8		386	364	457	475	6.4	3.3	0.33	1.8	0.99	52.9
349.25	501.65	90.488	84.138	69.85	6.4	3.3	1320	2720	630	850	95	EE333137/333197	394	371	470	488	6.4	3.3	0.37	1.6	0.9	55.8
354.012	469.9	60.325	55.562	38.1	7	6.4	710	1420	630	850	92.7	EE161394/161850 EE161394/161900 EE161394/161925	389	370	441	459	7	6.4	0.5	1.2	0.66	24.5
	482.6	60.325	55.562	38.1	7	6.4	710	1420	630	850	92.7		389	370	447	464	7	6.4	0.5	1.2	0.66	27.3
	488.95	60.325	55.562	38.1	7	6.4	710	1420	630	850	92.7		389	370	451	468	7	6.4	0.5	1.2	0.66	28.8
355.6	444.5	60.325	60.325	47.625	3.5	3.3	660	1660	630	850	67.9	L163149/L163110 EE161400/161850 EE161400/161900 EE161400/161925 EE231400/231975 EE333140/333197 EE231400/232025 EE121140/121265	381	369	423	435	3.5	3.3	0.31	2	1.1	20.6
	469.9	60.325	55.562	38.1	7	6.4	710	1420	630	850	92.7		390	370	441	459	7	6.4	0.5	1.2	0.66	24.1
	482.6	60.325	55.562	38.1	7	6.4	710	1420	630	850	92.7		390	370	447	464	7	6.4	0.5	1.2	0.66	26.9
	488.95	60.325	55.562	38.1	7	6.4	710	1420	630	850	92.7		390	370	451	468	7	6.4	0.5	1.2	0.66	28.4
	501.65	74.612	66.675	50.8	6.4	3.3	795	1640	630	850	97		403	382	472	489	6.4	3.3	0.44	1.4	0.75	40.5
	501.65	90.488	84.138	69.85	6.4	3.3	1320	2720	630	850	95		397	374	470	488	6.4	3.3	0.37	1.6	0.9	53.5
	514.35	74.612	66.675	50.8	6.4	3.3	795	1640	630	850	97		403	382	478	495	6.4	3.3	0.44	1.4	0.75	44.6
673.1	152.4	152.4	114.3	16	6.4	3400	5490	630	850	229.9	395	436	595	620	16	6.4	0.38	1.59	0.88	234		
361.95	406.4	23.812	23.812	17.462	2.3	1.5	173	470	630	850		LL562749/LL562710	372	371	396	401	2.3	1.5	0.4	1.49	0.82	3.56
368.249	523.875	101.6	101.6	79.375	6.4	6.4	1590	3390	600	800	94	HM265049/HM265010	388	407	484	500	6.4	6.4	0.33	1.8	0.99	56.6
368.3	596.9	95.25	92.075	60.325	9.7	6.4	1670	2870	600	800	102.6	EE181453/182350 EE321145/321240	428	403	549	570	9.7	6.4	0.41	1.5	0.8	92.7
	609.6	142.875	139.7	111.125	8	6.4	2460	4600	600	800	118.9		431	401	556	587	8	6.4	0.36	1.7	0.93	154

Single-row Tapered Roller Bearing - Imperial



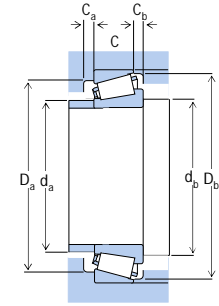
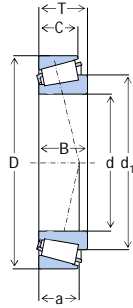
Boundary Dimensions (mm)								Basic Load Ratings (kN)		Speed Ratings (kN)		Load Center Spacing	Designations	Abutment and Fillet Dimensions						Calculation Factors			Mass (kg)
d	D	T	B	C	r1.2min	r3.4min	Cr	Cor	Grease	Oil	a	damax		dbmin	Damax	Dbmin	ramax	rbmax	e	Y	Yo	Refer.	
371.475	501.65	74.612	66.675	50.8	6.4	3.3	795	1640	600	800	97	EE231462/231975 EE231462/232025	411	390	472	489	6.4	3.3	0.44	1.4	0.75	35.8	
	514.35	74.612	66.675	50.8	6.4	3.3	795	1640	600	800	97		411	390	478	495	6.4	3.3	0.44	1.4	0.75	39.8	
374.65	431.8	28.575	28.575	20.638	3.6	3.2	222	622	600	800	56.9	LL264648/LL264610	389	393	415	419	3.6	3.2	0.33	1.8	0.99	6.02	
374.65	522.288	85.725	84.138	61.912	6.4	3.3	1210	2550	600	800	92.9	LM565943/LM565910	417	393	490	508	6.4	3.3	0.39	1.6	0.86	51.3	
377.825	508	63.5	58.738	38.1	6.4	3.3	725	1490	600	800	103.9	EE192148/192200	418	397	480	495	6.4	3.3	0.53	1.1	0.62	31.1	
377.825	522.288	85.725	84.138	61.912	6.4	3.3	1210	2550	600	800	92.9	LM565946/LM565910	418	395	490	508	6.4	3.3	0.39	1.6	0.86	50	
	523.875	85.725	84.138	61.913	6.4	3.2	1170	2590	600	800	92.8	LM565946/LM565912	398	414	481	497	6.4	3.2	0.38	1.56	0.86	51.9	
381	479.425	49.212	47.625	34.925	6.4	3.3	585	1310	600	800	92	L865547/L865512	412	394	456	469	6.4	3.3	0.49	1.2	0.67	18.9	
	479.425	49.213	47.625	34.925	12.7	3.2	595	1280	600	800	91.4	L865548/L865512	413	405	454	466	12.7	3.2	0.49	1.23	0.68	18.6	
	508	63.5	58.738	38.1	6.4	3.3	725	1490	600	800	103.9	EE192150/192200	420	399	480	495	6.4	3.3	0.53	1.1	0.62	30.3	
	522.288	85.725	84.138	61.912	6.4	3.3	1210	2550	600	800	92.9	LM565949/LM565910	420	396	490	508	6.4	3.3	0.39	1.6	0.86	48.8	
381	523.875	85.725	84.138	61.913	6.4	3.2	1170	2590	600	800	92.8	LM565949/LM565912	401	414	481	497	6.4	3.2	0.38	1.56	0.86	50.7	
	546.1	104.775	104.775	82.55	6.4	6.4	1900	4210	600	800	97.6	HM266446/HM266410	401	421	505	515	6.4	6.4	0.33	1.8	0.99	79.5	
	546.1	104.775	104.775	82.55	6.4	6.4	1840	4000	600	800	97.5	HM266447/HM266410	428	405	508	531	6.4	6.4	0.33	1.8	0.99	78.3	
381	590.55	114.3	114.3	88.9	6.4	6.4	1980	4470	600	800	103.7	M268730/M268710	401	459	545	560	6.4	6.4	0.33	1.8	0.99	116	
	546.1	104.775	104.775	82.55	6.4	6.4	1840	4000	600	800	97.5	HM266449/HM266410	429	407	508	531	6.4	6.4	0.33	1.8	0.99	76.7	
384.175	441.325	28.575	28.575	20.638	3.5	3.3	247	655	560	750	59.2	LL365348/LL365310	402	394	427	435	3.5	3.3	0.34	1.8	0.97	6.33	
	441.325	28.575	31.75	20.638	3.6	3.2	236	612	560	750	58.6	LL365347/LL365310	398	398	424	428	3.6	3.2	0.34	1.76	0.97	5.66	
	546.1	104.775	104.775	82.55	6.4	6.4	1900	4210	560	750	97.6	HM266448/HM266410	404	421	505	515	6.4	6.4	0.33	1.8	0.99	78	
	546.1	104.775	104.775	82.55	6.4	6.4	1840	4000	560	750	97.5	HM266449/HM266410	429	407	508	531	6.4	6.4	0.33	1.8	0.99	76.7	
385.762	514.35	82.55	82.55	63.5	6.4	3.3	1180	2610	560	750	99	LM665949/LM665910	424	401	485	504	6.4	3.3	0.42	1.4	0.79	45.2	
387.248	546.1	87.313	87.313	66.675	6.4	6.4	1330	2870	560	750	105.1	M667935/M667910	407	438	510	525	6.4	6.4	0.42	1.44	0.79	61.6	
	546.1	87.312	87.312	68.262	6.4	6.4	1390	3150	560	750	105.1	M667935/M667911G2	424	414	510	528	6.4	6.4	0.42	1.43	0.79	56.6	
393.7	546.1	76.2	61.12	55.562	6.4	6.4	815	1650	600	800	112.9	EE234154/234215	438	417	507	529	6.4	6.4	0.48	1.3	0.69	44.8	
	558.8	65.088	61.119	44.45	6.4	6.4	815	1650	600	800	101.8	EE234154/234220	438	417	516	536	6.4	6.4	0.48	1.3	0.69	44.3	
396.875	546.1	76.2	61.12	55.562	6.4	6.4	815	1650	600	800	112.9	EE234156/234215	439	419	507	529	6.4	6.4	0.48	1.3	0.69	43.9	
	549.275	85.725	84.138	61.912	6.4	3.3	1260	2720	600	800	101.1	LM567943/LM567910	442	420	517	535	6.4	3.3	0.41	1.5	0.81	57.1	

Single-row Tapered Roller Bearing - Imperial



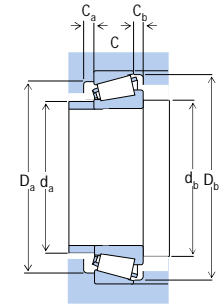
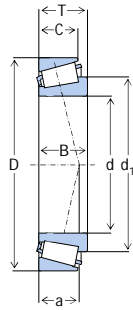
Boundary Dimensions (mm)							Basic Load Ratings (kN)		Speed Ratings (kN)		Load Center Spacing	Designations	Abutment and Fillet Dimensions						Calculation Factors			Mass (kg)
d	D	T	B	C	r1.2min	r3.4min	Cr	Cor	Grease	Oil	a		damax	dbmin	Damax	Dbmin	ramax	rbmax	e	Y	Yo	Refer.
	558.8	65.088	61.12	44.45	6.4	6.4	815	1650	600	800	101.8	EE234156/234220	439	419	516	536	6.4	6.4	0.48	1.3	0.69	43.4
403.225	460.375	28.575	28.575	20.638	3.5	3.3	246	765	600	800	70	LL566848/LL566810	420	417	443	448	3	3	0.4	1.5	0.8	6.7
406.4	508	61.912	61.912	47.625	3.3	3.3	800	1960	560	750	83.3	L467549/L467510	435	420	484	498	3.3	3.3	0.37	1.6	0.9	27.6
	546.1	76.2	61.12	55.562	6.4	6.4	815	1650	560	750	112.9	EE234160/234215	444	424	507	529	6.4	6.4	0.48	1.3	0.69	44.3
	546.1	87.313	87.313	68.263	6.4	6.4	1330	2870	560	750	105.1	M667944/M667911	427	438	510	525	6.4	6.4	0.42	1.44	0.79	53.7
406.4	549.275	85.725	84.138	61.912	6.4	3.3	1260	2720	530	700	101.1	LM567949/LM567910	447	425	517	535	6.4	3.3	0.41	1.5	0.81	53.2
	558.8	65.088	61.12	44.45	6.4	6.4	815	1650	530	700	101.8	EE234160/234220	444	424	516	536	6.4	6.4	0.48	1.3	0.69	43.8
	574.675	76.2	67.866	50.8	6.8	3.3	920	1850	530	700	114	EE285160/285226	453	429	534	552	6.8	3.3	0.5	1.2	0.66	53.2
	590.55	107.95	107.95	80.963	9.5	6.4	1780	3540	530	700	100	EE833160X/833232	433	453	545	560	9.5	6.4	0.32	1.85	1.02	89.7
	609.524	82.55	79.375	60.325	7.9	6.4	1520	3030	530	700	95.9	EE736160/736238	430	476	565	570	7.9	6.4	0.35	1.73	0.95	76.2
	609.6	92.075	84.138	60.325	6.7	6.4	1430	2640	530	700	105.6	EE911600/912400	428	466	555	570	6.7	6.4	0.38	1.57	0.86	80.1
	673.1	88.9	87.833	60.325	6.4	3.3	1750	3100	530	700	110	EE571602/572650	479	457	629	647	6.4	3.3	0.4	1.5	0.83	119
	762	180.975	161.925	107.95	12.7	12.7	3690	6100	380	500	250	H969249/H969210	446	467	723	723	12	12	0.94	0.64	0.35	320
409.575	546.1	87.313	87.312	68.263	6.4	6.4	1330	2870	380	500	105.1	M667947/M667911	430	438	510	525	6.4	6.4	0.42	1.44	0.79	52.4
	546.1	87.312	87.312	68.262	6.4	6.4	1350	3050	380	500	105.1	M667948/M667911	440	431	510	528	6.4	6.4	0.42	1.43	0.79	49.8
	546.1	87.313	87.313	66.675	6.4	6.4	1330	2870	380	500	105.1	M667948/M667910	430	438	510	525	6.4	6.4	0.42	1.44	0.79	52.2
	574.675	76.2	67.866	50.8	6.8	3.3	920	1850	380	500	114	EE285162/285226	455	431	534	552	6.8	3.3	0.5	1.2	0.66	52.1
411.162	609.6	92.075	84.138	60.325	6.8	6.4	1470	2750	500	670	103.9	EE911618/912400	461	440	566	586	6.8	6.4	0.38	1.6	0.86	80.7
415.925	590.55	114.3	114.3	88.9	6.4	6.4	1860	4250	500	670	105	M268749/M268710	437	459	545	560	6.4	6.4	0.34	1.8	1	94.5
	590.55	114.3	114.3	88.9	6.4	6.4	2120	4800	500	670	104	M268749/M268710	448	453	560	563	6	6	0.33	1.8	1	120
425.45	685.698	142.875	142.8	104.775	12.7	6.4	3050	5700	500	670	135.1	EE328167/328269	497	462	630	661	12.7	6.4	0.4	1.5	0.83	193
430.212	603.25	76.2	73.025	50.8	6.4	6.4	1240	2250	500	670	122.1	EE241693/242375	479	457	564	585	6.4	6.4	0.52	1.1	0.63	62
431.8	533.4	46.038	46.038	34.925	3.3	3.3	580	1380	500	670	69.3	EE80385/80325	458	447	511	521	3.3	3.3	0.31	2	1.1	20.8
	552.45	44.45	44.45	31.75	3.3	3.3	610	1480	500	670	71	80170/80217	467	456	530	538	3.3	3.3	0.32	1.9	1	25.8
	571.5	73.025	73.025	53.975	3.2	3.2	980	2150	500	670	96.5	EE239170/239225	446	469	535	540	3.2	3.2	0.38	1.57	0.86	45.6
	565.15	44.45	44.45	31.75	3.3	3.3	610	1480	500	670	71	80170/80222	467	456	536	545	3.3	3.3	0.32	1.9	1	28.6

Single-row Tapered Roller Bearing - Imperial



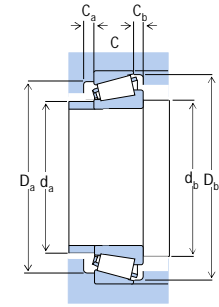
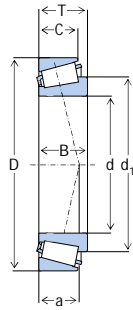
Boundary Dimensions (mm)							Basic Load Ratings (kN)		Speed Ratings (kN)		Load Center Spacing	Designations	Abutment and Fillet Dimensions						Calculation Factors			Mass (kg)
d	D	T	B	C	r1.2min	r3.4min	Cr	Cor	Grease	Oil	a		damax	dbmin	Damax	Dbmin	ramax	rbmax	e	Y	Yo	Refer.
	571.5	74.612	74.612	52.388	3.3	3.3	1080	2350	500	670	122.6	LM869448/LM869410	471	448	539	560	3.3	3.3	0.55	1.1	0.6	47.9
	571.5	76.2	73.025	57.15	3.2	3.2	980	2150	500	670	99.7	EE239170/239225A	446	469	535	540	3.2	3.2	0.38	1.57	0.86	46.8
	571.5	89.694	89.77	66.75	6.4	6.4	1450	3450	500	670	111	BT1B328284/HA1	464	460	540	550	6	6	0.44	1.35	0.8	60
	603.25	76.2	73.025	50.8	6.4	6.4	1240	2500	480	600	122.1	EE241701/242375	480	458	564	585	6.4	6.4	0.52	1.1	0.63	61.4
	673.1	88.9	87.833	60.325	6.4	3.3	1750	3100	480	600	110	EE571703/572650	491	469	629	647	6.4	3.3	0.4	1.5	0.83	108
441.325	660.4	91.28	85.725	62.705	10.4	6.4	1350	2630	480	600	109.5	EE737173/737260	470	510	600	610	10.4	6.4	0.37	1.6	0.88	95.5
444.5	635	120.65	120.65	95.25	6.4	6.4	2290	5250	480	600	113.8	M270744/M270710	465	495	585	600	6.4	6.4	0.33	1.8	0.99	120
447.675	552.45	44.45	44.45	31.75	3.3	3.3	610	1480	480	600	71	80176/80217	475	464	530	538	3.3	3.3	0.32	1.9	1	22
	565.15	44.45	44.45	31.75	3.3	3.3	610	1480	480	600	71	80176/80222	475	464	536	545	3.3	3.3	0.32	1.9	1	24.8
	635	120.65	120.65	95.25	6.4	6.4	1900	4350	450	600	114.6	M270749/M270710	502	474	591	617	6.4	6.4	0.33	1.8	0.99	117
450.85	603.25	85.725	84.138	60.325	6.4	3.3	1310	2900	450	600	115.9	LM770945/LM770910	496	471	570	590	6.4	3.3	0.45	1.3	0.73	62.5
456.692	660.4	92.075	91.262	63.5	6.4	6.4	1350	2630	450	600	110.3	EE737179X/737262	478	510	600	610	6.4	6.4	0.37	1.6	0.88	90.5
456.794	761.873	142.875	142.875	101.6	16	6.4	3240	5610	450	600	154.5	EE425179A/425299	497	530	685	710	16	6.4	0.44	1.35	0.74	242
457.073	573.088	74.613	74.612	57.15	6.4	6.4	1100	2930	450	600	100.4	L570648/L570610	478	484	540	550	6.4	6.4	0.4	1.49	0.82	42.8
457.2	552.45	44.45	44.45	31.75	3.3	3.3	615	1340	450	600		80180/80217	474	471	531	536	3.3	3.3	0.32	1.88	1.04	18.7
	573.088	74.612	74.612	57.15	6.4	6.4	1020	2610	500	670	101.2	L570649/L570610	493	472	542	562	6.4	6.4	0.4	1.5	0.83	42
	596.9	76.2	73.025	53.975	9.5	3.3	1040	2360	500	670	102	EE244180/244235	500	475	565	580	9.5	3.3	0.4	1.5	0.82	49.9
	603.25	85.725	84.138	60.325	6.4	3.3	1310	2900	480	630	115.9	LM770949/LM770910	499	474	570	590	6.4	3.3	0.45	1.3	0.73	59.5
	615.95	85.725	85.725	66.675	6.4	6.4	1470	3800	450	600	98	LM272235/LM272210	489	512	584	596	6	6	0.33	1.8	1	72
	660.4	91.28	85.725	62.705	10.4	6.4	1550	2780	450	600	106.9	EE737181/737260	507	479	615	636	10.4	6.4	0.37	1.6	0.88	86.2
	660.4	92.075	85.725	63.5	10.4	6.4	1350	2630	450	600	110.3	EE737181/737262	486	510	600	610	10.4	6.4	0.37	1.6	0.88	88.5
	730.148	120.65	114.3	82.55	9.5	6.4	2420	4120	450	600	128.9	EE671801/672873	484	520	660	680	9.5	6.4	0.39	1.53	0.84	163
476.25	565.15	41.275	41.275	31.75	3.3	3.3	535	1340	450	600	100.2	LL771948/LL771911	502	489	545	557	3.3	3.3	0.47	1.3	0.7	18.2
479.425	679.45	128.588	128.588	101.6	6.4	6.4	2800	6400	450	600	121.1	M272749/M272710	535	504	635	663	6.4	6.4	0.34	1.8	0.97	148
482.6	615.95	53.975	46.038	41.275	3.3	3.3	780	1700	450	600	90	80480/80425	516	503	588	600	3.3	3.3	0.35	1.7	0.95	35.2

Single-row Tapered Roller Bearing - Imperial



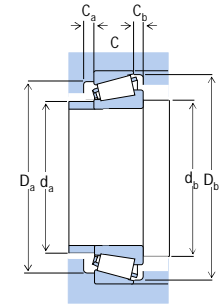
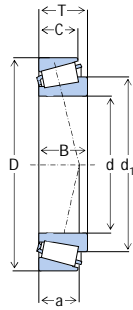
Boundary Dimensions (mm)							Basic Load Ratings (kN)		Speed Ratings (kN)		Load Center Spacing	Designations	Abutment and Fillet Dimensions						Calculation Factors			Mass (kg)
d	D	T	B	C	r1.2min	r3.4min	Cr	Cor	Grease	Oil	a		damax	dbmin	Damax	Dbmin	ramax	rbmax	e	Y	Yo	Refer.
	615.95 634.873	85.725 80.962	85.725 80.962	66.675 63.5	6.4 6.4	6.4 3.3	1390 1340	3450 3300	450 450	600 600	106.1 99.1	LM272249/LM272210 EE243190/243250	522 530	501 508	582 606	604 622	6.4 6.4	6.4 3.3	0.37 0.34	1.6 1.8	0.88 0.97	59.8 67.6
488.671	660.4	93.662	94.458	69.85	6.4	6.4	1700	3800	450	600	98.2	EE640191/640260	535	511	624	643	6.4	6.4	0.31	2	1.1	87.7
488.95	634.873 660.4	84.138 93.662	84.138 94.458	61.912 69.85	6.4 6.4	3.3 6.4	1370 1700	3200 3800	450 450	600 600	124.7 98.2	LM772748/LM772710 EE640192/640260	532 535	508 511	602 624	623 643	6.4 6.4	3.3 6.4	0.47 0.31	1.3 2	0.7 1.1	63.9 87.6
489.026	634.873	80.962	80.962	63.5	6.4	3.3	1340	3300	450	600	99.1	EE243192/243250	533	512	606	622	6.4	3.3	0.34	1.8	0.97	64.5
498.323	634.873	80.963	80.962	63.5	6.4	3.2	1320	3290	450	600	100	EE243197/243250	520	530	595	605	6.4	3.2	0.34	1.75	0.96	58.7
498.399	634.873	80.962	80.962	63.5	6.4	3.3	1470	3650	450	600	100	EE243196AX/243250	530	522	616	610	6	3	0.35	1.7	0.9	60
498.475	634.873	80.962	80.962	63.5	6.4	3.3	1340	3300	450	600	99.1	EE243196/243250	538	516	606	622	6.4	3.3	0.34	1.8	0.97	59.9
498.653	634.873	80.962	80.962	63.5	6.4	3.3	1470	3650	450	600	100	EE243196AS/243250	530	522	616	610	6	3	0.35	1.7	0.9	59.5
501.65	711.2	136.525	136.525	106.363	6.4	6.4	2800	6410	450	600	126.8	M274149/M274110	525	550	655	675	6.4	6.4	0.33	1.8	0.99	164
505.968	736.6	88.9	81.758	53.975	6.4	3.3	1620	3400	450	600	134.9	EE981992/982900	571	547	693	712	6.4	3.3	0.48	1.3	0.69	114
508	736.6 838.2	88.9 146.03	81.758 139.7	53.975 104.775	6.4 9.5	3.3 9.5	1620 3320	3400 5860	450 400	600 530	134.9 170.6	EE982003/982900 EE426200/426330	572 540	548 590	693 755	712 780	6.4 9.5	3.3 9.5	0.48 0.48	1.3 1.26	0.69 0.69	113
514.35	736.6	88.9	81.758	53.975	6.4	3.3	1620	3400	400	530	134.9	EE982028/982900	576	551	693	712	6.4	3.3	0.48	1.3	0.69	109
520.7	736.6	88.9	81.758	53.975	6.4	3.3	1620	3400	400	530	134.9	EE982051/982900	579	554	693	712	6.4	3.3	0.48	1.3	0.69	106
533.4	635 784.225	50.8 88.9	50.8 82.55	38.1 53.975	6.4 6.4	6.4 6.4	705 1750	1800 3500	400 380	530 500	101.4 139.5	LL575343/LL575310 EE522102/523087	566 596	549 573	610 730	626 752	6.4 6.4	6.4 6.4	0.4 0.48	1.5 1.3	0.82 0.69	28.2 129
536.575	761.873	146.05	146.05	114.3	6.4	6.4	3360	8000	380	500	134	M276449/M276410	564	582	726	735	6	6	0.33	1.8	1	208
539.75	635	50.8	50.8	38.1	6.4	6.4	705	1800	430	560	101.4	LL575349/LL575310	569	552	610	626	6.4	6.4	0.4	1.5	0.82	26.1
546.1	736.6	76.2	76.2	50.8	6.4	6.4	1280	2590	400	530	142.2	EE542215/542290	598	574	695	715	6.4	6.4	0.51	1.2	0.65	79.7

Single-row Tapered Roller Bearing - Imperial



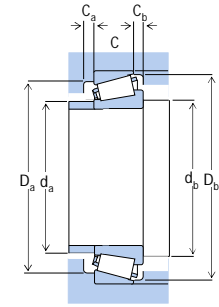
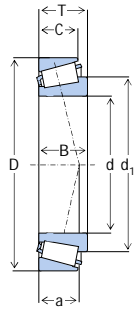
Boundary Dimensions (mm)							Basic Load Ratings (kN)		Speed Ratings (kN)		Load Center Spacing	Designations	Abutment and Fillet Dimensions						Calculation Factors			Mass (kg)
d	D	T	B	C	r1.2min	r3.4min	Cr	Cor	Grease	Oil	a		d _{amax}	d _{bmin}	D _{amax}	D _{bmin}	r _{amax}	r _{bmax}	e	Y	Y ₀	Refer.
549.275	692.15	80.962	80.962	61.912	6.4	6.4	1430	3550	560	750	113.1	L476549/L476510	591	568	658	679	6.4	6.4	0.38	1.6	0.88	67.4
558.8	736.6	76.2	76.2	50.8	6.4	6.4	1280	2590	380	500	142.2	EE542220/542290	604	581	695	715	6.4	6.4	0.51	1.2	0.65	73.2
	736.6	88.108	88.108	63.5	6.4	6.4	1750	3900	380	500	111.3	EE843220/843290	606	585	699	718	6.4	6.4	0.34	1.8	0.97	93.7
558.8	736.6	104.775	104.775	80.963	6.4	6.4	2090	4940	380	500	120.3	LM377448/LM377410	580	600	690	705	6.4	6.4	0.35	1.73	0.95	114
	736.6	104.775	104.775	80.962	6.4	6.4	2300	5600	380	500	120.7	LM377449/LM377410	607	581	696	720	6.4	6.4	0.35	1.7	0.95	118
571.5	812.8	155.575	155.575	120.65	6.4	6.4	4000	9300	370	470	143.6	M278749/M278710	634	601	759	790	6.4	6.4	0.33	1.8	0.99	256
571.6	812.8	155.575	158.75	120.65	6.4	6.4	3790	8760	370	470	143.2	M278749/M278710	595	630	750	775	6.4	6.4	0.33	1.8	0.99	254
584.2	685.8	49.212	49.212	34.925	3.5	3.3	735	1970	370	470	114.3	LL778149/LL778110	613	599	663	675	3.5	3.3	0.44	1.4	0.75	29.6
	901.7	150.02	139.7	107.95	7.9	9.5	3900	7360	360	460	152.6	EE662303/663550	610	670	830	840	7.9	9.5	0.33	1.81	1	319
596.9	685.8	31.75	31.75	25.4	3.5	3.3	380	995	340	450	124.9	680235/680270	621	610	664	675	3.5	3.3	0.52	1.1	0.63	17.4
602.945	787.4	93.662	93.662	69.85	6.4	6.4	2000	4800	340	450	129.2	EE649237/649310	655	629	749	771	6.4	6.4	0.37	1.6	0.89	115
607.72	787.4	93.662	93.662	69.85	6.4	6.4	2000	4800	340	450	129.2	EE649239/649310	658	631	749	771	6.4	6.4	0.37	1.6	0.89	111
609.345	787.4	93.663	93.662	69.85	6.4	6.4	1980	4970	340	450	126.9	EE649238/649310	635	650	740	750	6.4	6.4	0.37	1.61	0.89	112
609.397	762	95.25	92.075	71.438	6.4	6.4	1700	4510	340	450	153	L879946/L879910	635	640	720	740	6.4	6.4	0.49	1.23	0.67	91.4
609.6	762	95.25	92.075	71.438	6.4	6.4	1780	4700	340	450	152.9	L879947/L879910	656	627	722	750	6.4	6.4	0.49	1.2	0.68	93.3
	774.7	85.725	79.375	60.32	6.4	6.4	1780	4250	340	450	130.5	L580049/L580010	654	634	737	755	6.4	6.4	0.4	1.5	0.82	90.1
	787.4	93.662	93.662	69.85	6.4	6.4	2000	4800	340	450	129.2	EE649240/649310	659	632	749	771	6.4	6.4	0.37	1.6	0.89	110
	787.4	93.662	93.662	69.85	6.4	6.4	2000	4800	340	450	125	EE649240AX/649310	637	643	760	755	6	6	0.37	1.6	0.9	110
	812.8	82.55	82.55	60.325	6.4	6.4	1910	4290	340	450	112.7	EE743240/743320	635	660	755	765	6.4	6.4	0.33	1.83	1.01	112
635	736.6	57.15	53.975	41.275	3.3	3.3	870	2500	340	450	125	80780/80720	664	648	712	726	3.3	3.3	0.44	1.4	0.75	36.6
653.928	933.45	179.388	177.8	141.288	12	6.4	5040	11500	320	430	167.7	M281635/M281610	690	720	870	890	12	6.4	0.33	1.8	0.99	384
660.235	812.8	95.25	95.25	73.025	6.4	6.4	2000	5270	320	430	123.8	L281146/L281110	685	695	775	790	6.4	6.4	0.33	1.8	0.99	100
660.4	812.8	95.25	95.25	73.025	6.4	6.4	2000	5270	320	430	123.8	L281147/L281110	685	695	775	790	6.4	6.4	0.33	1.8	0.99	100

Single-row Tapered Roller Bearing - Imperial



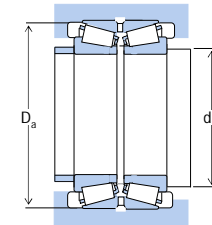
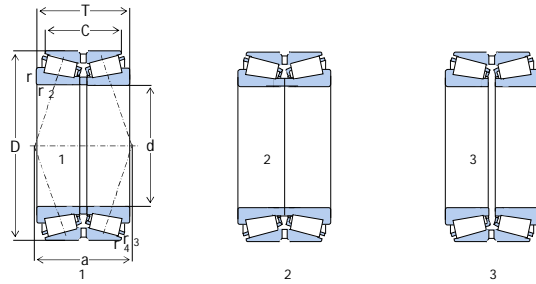
Boundary Dimensions (mm)							Basic Load Ratings (kN)		Speed Ratings (kN)		Load Center Spacing	Designations	Abutment and Fillet Dimensions						Calculation Factors			Mass (kg)
d	D	T	B	C	r1.2min	r3.4min	Cr	Cor	Grease	Oil	a		damax	dbmin	Damax	Dbmin	ramax	rbmax	e	Y	Yo	Refer.
	812.8 854.075	95.25 85.725	95.25 85.468	73.025 60.325	6.4 9.7	6.4 6.4	2200 2000	5900 4650	320 320	430 430	123.1 124.5	L281148/L281110 EE749260/749336	701 712	678 690	778 813	799 831	6.4 9.7	6.4 6.4	0.33 0.35	1.8 1.7	0.99 0.94	105 119
673.1	793.75	66.675	61.912	49.212	6.4	6.4	995	2660	320	430	119.7	LL481448/LL481411	708	691	764	781	6.4	6.4	0.36	1.7	0.92	52
679.45	901.7	142.875	142.875	111.125	9.7	6.4	3580	9000	280	380	149	LM281849/LM281810	730	728	870	867	9	6	0.33	1.8	1	242
685.8	876.3	93.662	92.075	69.85	6.4	6.4	2160	5550	300	400	149.9	EE655270/655345	737	712	832	857	6.4	6.4	0.42	1.4	0.79	134
711.2	914.4	85.725	82.55	60.325	6.4	6.4	1870	4800	280	380	140.5	EE755280/755360	767	746	870	891	6.4	6.4	0.38	1.6	0.87	136
719.854	914.4	84.138	80.963	60.325	4.8	6.4	1760	4470	280	380	139.3	EE755282/755360	740	780	870	870	4.8	6.4	0.38	1.58	0.87	123
723.9	914.4	84.138	80.962	60.325	3.3	6.4	1870	4800	280	380	140.5	EE755285/755360	770	752	870	891	3.3	6.4	0.38	1.6	0.87	126
736.6	825.5 825.5	31.75 31.75	31.75 31.75	25.4 25.4	3.5 3.6	3.3 3.2	429 497	1370 1550	300 300	400 400	119 117	LL582949/LL582910B LL582949/LL582910	754 755	767 760	804 800	809 800	3 3.6	3 3.2	0.4 0.4	1.5 1.51	0.8 0.83	22.5 21.3
749.3	965.2 990.6	93.663 159.5	80.963 160.338	66.675 123	6.4 6.4	3.2 6.4	1830 4400	4790 11700	280 280	380 380	159.7 165.2	EE752295/752380 LM283649/LM283610	775 815	820 782	910 938	920 969	6.4 6.4	3.2 6.4	0.4 0.33	1.49 1.8	0.82 0.99	152 329
758.825	901.7	66.675	65.088	46.038	6.4	6.4	1410	3790	280	380	149.9	LL783647/LL783610	785	790	870	870	6.4	6.4	0.44	1.36	0.75	71.2
759.925	889 889	69.85 88.9	69.85 88.9	50.8 72	3.3 3.3	3.3 3.3	1230 1940	3800 6200	280 260	380 360	132 123	LL483448/33483418 L183448/L183410	782 782	785 785	867 867	858 872	3 3	3 3	0.37 0.3	1.6 2	0.9 1.1	67.5 94
762	889 889 889	63.5 69.85 69.85	63.5 69.85 69.85	50.8 50.8 50.8	3.3 3.2 3.3	3.3 3.2 3.3	1160 1290 1160	3450 3920 3450	280 280 280	380 380 380	131.4 132.3 133.8	EE175301/175350 EE175300/175350 LL483449/LL483418	797 780 797	780 790 861	861 860 875	876 860 875	3.3 3.2 3.3	3.3 3.2 3.3	0.38 0.38 0.38	1.6 1.58 1.6	0.87 0.87 0.87	64.4 69 68.1
	889 901.7 965.2	88.9 66.675 93.662	88.9 65.088 80.962	72 46.038 66.675	3.3 6.4 6.4	3.3 6.4 3.3	1940 1410 2100	6200 3790 5200	260 260 260	360 360 360	123 149.9 158.8	L183449/L183410 LL783649/LL783610 EE752300/752380	784 785 815	785 790 793	867 870 926	872 870 943	3 6.4 6.4	3 6.4 3.3	0.3 0.44 0.4	2 1.36 1.5	1.1 0.75 0.83	92.5 69.3 147
774.7	965.2	93.663	80.962	66.675	6.4	3.2	1830	4790	240	340	159.7	EE752306/752380	800	820	910	920	6.4	3.2	0.4	1.49	0.82	133
857.25	965.2 1092.2	93.662 120.65	80.962 111.125	66.675 76.2	6.4 19	3.3 6.4	2100 2810	5200 7350	240 200	340 300	158.8 228	EE752305/752380 EE157337/157430	822 912	800 912	926 1062	943 1047	6.4 18	3.3 6	0.4 0.57	1.5 1.05	0.83 0.6	137 245

Single-row Tapered Roller Bearing - Imperial



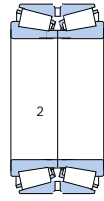
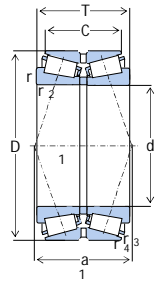
Boundary Dimensions (mm)							Basic Load Ratings (kN)		Speed Ratings (kN)		Load Center Spacing	Designations	Abutment and Fillet Dimensions						Calculation Factors			Mass (kg)
d	D	T	B	C	r1.2min	r3.4min	Cr	Cor	Grease	Oil	a		d _{amax}	d _{bmin}	D _{amax}	D _{bmin}	r _{amax}	r _{bmax}	e	Y	Y ₀	Refer.
889	1123.95	120.65	111.125	76.2	19	6.4	2860	6850	200	300	199	EE158350/158442	940	940	1070	1080	19	6.4	0.45	1.34	0.73	237
977.9	1130.3	66.675	63.5	47.625	6.4	6.4	1460	4350	180	260	182.9	LL687949/LL687910	1019	1002	1095	1112	6.4	6.4	0.43	1.4	0.76	101
1016	1270	101.6	101.6	66.675	9.7	9.7	2750	7500			229	EE168400/168500	1054	1087	1232	1214	9	9	0.5	1.2	0.7	275
1066.8	1219.2	65.088	65.088	42.862	3.3	3.3	1520	4750			209	LL788349/LL788310	1106	1090	1187	1202	3.3	3.3	0.47	1.3	0.7	108
1066.8	1320.8	95.25	88.9	69.85	6.4	6.4	2660	7140			170.5	EE776420/776520	1090	1140	1260	1280	6.4	6.4	0.57	1.05	0.58	270
1092.2	1320.8	95.25	88.9	69.85	6.4	6.4	2730	7650			270.7	EE776430/776520	1153	1128	1269	1301	6.4	6.4	0.57	1.1	0.58	249
1155.7	1435.1	120.65	120.65	95.25	6.4	6.4	4150	12000			207.3	EE277455/277565	1227	1199	1377	1403	6.4	6.4	0.36	1.7	0.92	431
1270	1435.1	69.85	65.088	47.625	6.4	6.4	1630	5550			285.4	LL889049/LL889010	1315	1294	1392	1413	6.4	6.4	0.57	1.1	0.58	144

Double-row Taper Roller Bearing (Imperial)

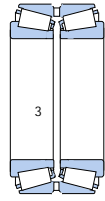


Boundary Dimensions (mm)						Basic Load Ratings (kN)		Designations	Design	Abutment and Fillet Dimensions				Calculation Factors				Mass (kg)
d	D	T	C	r1.2min	r3.4min	Cr	Cor			da min	Da max	rb max	ra max	e	Y1	Y2	Y0	Refer.
100	180.975	104.775	85.725	1.6	3.6	440	750	783/774D	1	123	171	1.6	3.6	0.39	1.8	2.6	1.7	10.6
101.6	161.925	82.548	61.912	0.8	3.6	310	570	52400/52637D	1	120	155	0.8	3.6	0.47	1.4	2.1	1.4	5.7
	168.275	92.075	69.85	0.8	3.6	380	685	687/672D	1	121	161	0.8	3.6	0.47	1.4	2.1	1.4	7.3
104.775	180	104.775	85.725	0.8	3.6	440	750	780/773D	1	124	171	0.8	3.6	0.39	1.8	2.6	1.7	10.2
	180.975	104.775	85.725	1.6	3.6	440	750	780/774D	1	124	171	1.6	3.6	0.39	1.8	2.6	1.7	10.4
	190.5	127	101.6	1.6	8	605	1000	861/854D	1	130	180	1.6	8	0.33	2	3	2	14.4
	190.5	127	104.775	1.6	8	665	1040	HH221449/HH221410D	1	131	183	1.6	8	0.33	2	3	2	14.3
	200.025	115.888	80.216	2.3	3.6	540	850	98400/98789D	1	132	190	2.3	3.6	0.63	1.1	1.6	1	14.8
	212.725	142.875	117.475	1.6	7	975	1620	HH224335/HH224310D	1	137	205	1.6	7	0.33	2.1	3.1	2	23.3
	180	104.775	85.725	0.8	3.6	440	750	782/773D	1	125	171	0.8	3.6	0.39	1.8	2.6	1.7	9.7
	180.975	104.775	85.725	1.6	6.4	440	750	786/774D	1	128	171	1.6	6.4	0.39	1.8	2.6	1.7	9.9
	190.5	106.632	80.962	1.6	3.6	510	925	71412/71751D	1	131	182	1.6	3.6	0.42	1.6	2.4	1.6	12.2
	106.362	165.1	82.55	63.5	0.8	3.6	335	645	56418/56650D	1	126	160	0.8	3.6	0.5	1.4	2	1.3
107.95	146.05	49.212	39.688	0.8	1.5	147	330	L521949/L521910D	1	120	141	0.8	1.5	0.39	1.7	2.6	1.7	2.2
	165.1	82.55	63.5	0.8	3.6	335	645	56425/56650D	1	127	160	0.8	3.6	0.5	1.4	2	1.3	5.7
	190.5	106.362	80.962	1.6	3.6	510	925	71425/71751D	1	133	182	1.6	3.6	0.42	1.6	2.4	1.6	11.8
	212.725	142.875	117.475	1.6	8	975	1620	HH224340/HH224310D	1	142	205	1.6	8	0.33	2.1	3.1	2	22.1
109.952	234.95	111.125	82.55	1.6	6.4	610	840	EE342043/342091D	1	144	222	1.6	6.4	0.43	1.6	2.3	1.5	20
	190.5	106.362	80.962	1.6	3.6	510	925	71432/71751D	1	134	182	1.6	3.6	0.42	1.6	2.4	1.6	11.5
	177.8	92.075	69.85	0.8	3.6	400	750	64433/64700D	1	132	173	0.8	3.6	0.52	1.3	1.9	1.3	8
111.125	190.5	106.362	80.962	1.6	3.6	510	925	71437/71751D	1	135	182	1.6	3.6	0.42	1.6	2.4	1.6	11.3
114.3	177.8	92.075	69.85	0.8	3.6	444	788	64450/64700D	1	135	173	0.8	3.6	0.52	1.3	1.9	1.3	7.75
	212.725	142.875	117.475	1.6	7	975	1620	HH224346/HH224310D	1	144	205	1.6	7	0.33	2.1	3.1	2	20.9
	212.725	142.875	117.475	1.6	3.6	975	1620	HH224346NA/HH224310D	2	140	205	1.6	3.6	0.33	2.1	3.1	2	21
	228.6	115.888	84.138	2.3	3.6	645	1060	HM926740/HM926710D	1	152	220	2.3	3.6	0.74	0.92	1.4	0.9	20.5

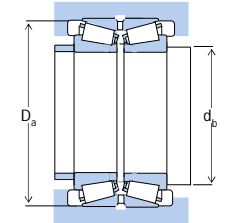
Double-row Taper Roller Bearing (Imperial)



2

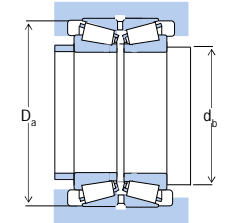
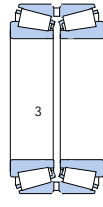
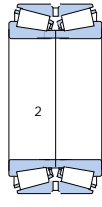
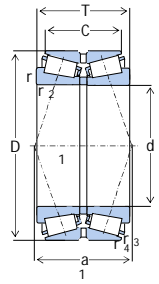


3



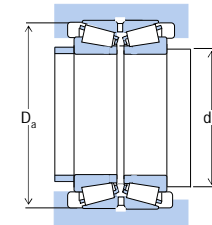
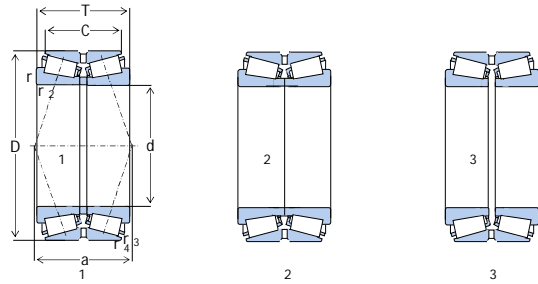
Boundary Dimensions (mm)						Basic Load Ratings (kN)		Designations	Design	Abutment and Fillet Dimensions				Calculation Factors			Mass (kg)	
d	D	T	C	r1.2min	r3.4min	Cr	Cor			da min	Da max	rb max	ra max	e	Y1	Y2	Y0	Refer.
114.976	212.725	142.875	117.475	1.6	7	975	1620	HH224349/HH224310D	1	144	205	1.6	7	0.33	2.1	3.1	2	20.8
120	174.625	77.788	61.913	0.8	3.6	365	765	M224748/M224710D	1	137	169	0.8	3.6	0.33	2	3	2	5.8
120.65	174.625	77.788	61.913	0.8	3.6	365	765	M224749/M224710D	1	138	169	0.8	3.6	0.33	2	3	2	5.7
	206.375	107.95	82.55	0.8	3.2	545	1060	795/792D	1	149	199	0.8	3.2	0.46	1.5	2.2	1.4	14
123.825	182.562	85.725	73.025	0.8	3.6	390	885	48286/48220D	1	143	177	0.8	3.6	0.31	2.2	3.3	2.2	7.4
124.943	234.95	142.875	114.3	1.6	6.4	875	1580	95491/95927D	1	162	226	1.6	6.4	0.37	1.8	2.7	1.8	25.7
127	169.975	58.738	49.213	1	1.6	225	501	L225849/L225812D	1	135.2	161.8	1	1.6	0.33	2.03	3.02	1.98	3.45
	182.563	85.725	73.025	0.8	3.6	389	858	48291/48220D	1	139.2	173.2	0.8	3.6	0.31	2.21	3.29	2.16	6.99
	196.85	101.6	85.725	0.8	3.6	535	1120	67388/67322D	1	150	192	0.8	3.6	0.34	2	2.9	1.9	11.1
	196.85	107.95	92.075	0.8	3.6	534	1120	67388/67323D	1	139.2	188.8	0.8	3.6	0.34	1.96	2.92	1.92	11.4
	200.025	101.6	85.725	0.8	3.6	535	1120	67388/67325D	1	150	193	0.8	3.6	0.34	2	2.9	1.9	11.7
	206.375	107.95	82.55	0.8	3.6	558	1100	798/792D	1	139.2	194.1	0.8	3.6	0.46	1.47	2.19	1.44	13.2
	215.9	106.362	80.962	1.6	3.6	495	985	74500/74851D	1	157	208	1.6	3.6	0.49	1.4	2.1	1.4	15
127.792	228.6	115.888	84.138	2.3	3.6	645	1060	HM926747/HM926710D	1	158	220	2.3	3.6	0.74	0.92	1.4	0.9	18.3
	230	126	84	1.6	4	645	1060	127KDE2301	1	158	220	1.6	4	0.74	0.92	1.4	0.9	19.6
128.588	234.95	142.875	114.3	1.6	6.4	875	1580	95500/95927D	1	163	226	1.6	6.4	0.37	1.8	2.7	1.8	25.2
	258.762	177.8	136.525	1.6	9.6	975	1600	EE153050/153103D	1	167	243	1.6	9.6	0.32	2.1	3.1	2.1	38
130.175	196.85	101.6	85.725	0.8	3.2	535	1120	67389/67322D	1	152	192	0.8	3.2	0.34	2	2.9	1.9	10.6
130.175	200.025	101.6	85.725	0.8	3.2	535	1120	67389/67325D	1	152	192	0.8	3.2	0.34	2	2.9	1.9	11.2
	206.375	107.95	82.55	0.8	3.2	545	1060	799A/792D	1	154	199	0.8	3.2	0.46	1.5	2.2	1.4	12.4
133.35	177.008	57.15	47.625	0.8	1.5	213	515	L327249/L327210D	1	147	172	0.8	1.5	0.35	1.9	2.9	1.9	3.7

Double-row Taper Roller Bearing (Imperial)



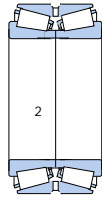
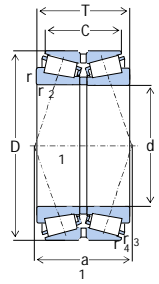
d	Boundary Dimensions (mm)					Basic Load Ratings (kN)		Designations	Design	Abutment and Fillet Dimensions				Calculation Factors				Mass (kg)
	D	T	C	r1.2min	r3.4min	Cr	Cor			da min	Da max	rb max	ra max	e	Y1	Y2	Y0	Refer.
133.35	177.008	60.325	47.625	0.8	1.5	241	557	L327248NA/L327210D	1	141.6	169	0.8	1.5	0.35	1.94	2.89	1.9	3.79
	190.5	85.725	73.025	0.8	3.6	370	880	48385/48320D	1	153	185	0.8	3.6	0.32	2.1	3.1	2.1	7.7
	196.85	101.6	85.725	0.8	3.6	535	1120	67390/67322D	1	153	192	0.8	3.6	0.34	2	2.9	1.9	10
	200.025	101.6	85.725	0.8	3.6	535	1120	67390/67325D	1	153	193	0.8	3.6	0.34	2	2.9	1.9	10.6
	215.9	106.362	80.962	1.6	3.6	495	985	74525/74851D	1	160	208	1.6	3.6	0.49	1.4	2.1	1.4	14
	234.95	142.875	114.3	1.6	9.6	875	1580	95525/95927D	1	169	226	1.6	9.6	0.37	1.8	2.7	1.8	23.8
136.525	190.5	85.725	73.025	0.8	3.6	370	880	48393/48320D	1	155	185	0.8	3.6	0.32	2.1	3.1	2.1	7.3
	215.9	106.362	80.962	1.6	3.6	495	985	74537/74851D	1	162	208	1.6	3.6	0.49	1.4	2.1	1.4	13.4
	228.6	123.825	98.425	1.6	3.6	650	1240	896/892D	1	163	219	1.6	3.6	0.42	1.6	2.4	1.6	18.7
	254	149.225	111.125	1.6	7.1	941	1830	99537/99102D	1	155.7	236.4	1.6	7.1	0.41	1.66	2.47	1.62	31.9
	254	152.4	114.3	1.6	7.1	885	1660	99537/99101D	1	178	245	1.6	7.1	0.41	1.7	2.5	1.6	31.2
139.7	215.9	106.362	80.962	1.6	3.6	495	985	74550/74851D	1	163	208	1.6	3.6	0.49	1.4	2.1	1.4	12.8
	222.25	75.692	53.975	2.3	3.6	325	535	73551/73876D	1	162	211	2.3	3.6	0.44	1.5	2.3	1.5	9.3
	228.6	123.825	98.425	1.6	3.6	753	1460	898/892D	1	151.9	214.2	1.6	3.6	0.42	1.6	2.39	1.57	18.5
	236.538	131.762	106.362	1.6	3.6	775	1440	HM231132/HM231111D	1	168	227	1.6	3.6	0.32	2.1	3.2	2.1	21
	241.3	131.762	106.362	1.6	3.6	775	1440	HM231132/HM231116D	1	168	230	1.6	3.6	0.32	2.1	3.2	2.1	22.6
	244.475	107.95	79.375	1.6	3.6	552	989	81550/81963D	1	151.9	226.5	1.6	3.6	0.35	1.93	2.88	1.89	18.8
	254	149.225	111.125	1.6	7	1026	1862	99550/99102D	1	179	245	1.6	7	0.4	1.7	2.5	1.6	31
	254	152.4	114.3	1.6	7	885	1660	99550/99101D	1	179	245	1.6	7	0.41	1.7	2.5	1.6	30.4
	268.288	160.338	125.413	1.6	6.4	1130	2090	EE107055/107105D	1	157.5	249	1.6	6.4	0.39	1.74	2.59	1.7	39.9
	304.8	135.733	97.633	1.6	3.2	1030	1600	EE750558/751204D	1	151.1	267.5	1.6	3.2	0.33	2.03	3.02	1.98	44.7
142.875	307.975	200.025	155.575	1.6	3.2	1740	2780	HH234031/HH234011D	1	180	285	1.6	3.2	0.33	2.07	3.08	2.02	65.9
	307.975	200.025	146.05	2.4	9.5	1360	2300	EE450551/451215D	1	163.7	274.9	2.4	9.5	0.33	2.07	3.09	2.03	66.2
	200.025	87.315	73.025	0.8	8	390	915	48684/48620D	1	167	195	0.8	8	0.34	2	3	2	7.9
	200.025	93.665	73.025	0.8	3.6	422	982	48686/48620D	1	155.1	190.1	0.8	3.6	0.34	2.01	2.99	1.96	8.43
	236.538	131.763	106.363	1.6	3.6	856	1660	HM231136/HM231111D	1	155.1	222.7	1.6	3.6	0.32	2.12	3.15	2.07	21.8
	241.3	131.762	106.362	1.6	3.6	685	1360	HM231136/HM231116D	1	171	230	1.6	3.6	0.44	1.5	2.3	1.5	22.4

Double-row Taper Roller Bearing (Imperial)

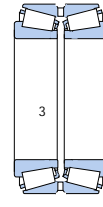


d	Boundary Dimensions (mm)					Basic Load Ratings (kN)		Designations	Design	Abutment and Fillet Dimensions				Calculation Factors				Mass (kg)	
	D	T	C	r1.2min	r3.4min	Cr	Cor			da min	Da max	rb max	ra max	e	Y1	Y2	Y0		Refer.
146.05	193.675	65.085	53.975	0.8	1.5	303	660	36690/36620D	1	161	188	0.8	1.5	0.37	1.8	2.7	1.8	5	
	236.538	131.762	106.362	1.6	3.6	775	1440	HM231140/HM231111D	1	171	227	1.6	3.6	0.32	2.1	3.2	2.1	19.6	
	236.538	131.762	106.362	1.6	3.6	685	1360	82576/82932D	1	173	228	1.6	3.6	0.44	1.5	2.3	1.5	20.4	
	236.538	131.762	106.362	1.6	3.6	775	1440	HM231140NA/HM231111D	2	171	227	1.6	3.6	0.32	2.1	3.2	2.1	19.7	
	241.3	131.762	106.362	1.6	3.6	775	1440	HM231140/HM231116D	1	171	230	1.6	3.6	0.32	2.1	3.2	2.1	21.2	
	241.3	131.762	106.362	1.6	3.6	775	1440	HM231140NA/HM231116D	2	171	230	1.6	3.6	0.32	2.1	3.2	2.1	21.3	
146.05	241.3	131.762	106.362	1.6	3.6	719	1460	82576/82951D	1	158.3	224.3	1.6	3.6	0.44	1.53	2.27	1.49	22.6	
	244.475	107.95	79.375	1.6	3.6	570	1020	81575/81963D	1	175	235	1.6	3.6	0.35	1.9	2.9	1.9	17.9	
	254	149.225	111.125	1.6	7	885	1660	99575/99102D	1	182	245	1.6	7	0.41	1.7	2.5	1.6	28	
	254	152.4	114.3	1.6	7	941	1830	99575/99101D	1	165.3	236.4	1.6	7	0.41	1.66	2.47	1.62	30	
	268.288	160.338	125.412	1.6	7	1040	1960	EE107057/107105D	1	184	256	1.6	7	0.39	1.7	2.6	1.7	36.5	
	304.8	135.733	97.633	1.6	3.2	1090	1560	EE750576/751204D	1	180	285	1.6	3.2	0.33	2	3	2	42.1	
	307.975	200.025	155.575	2.3	9.7	1510	2380	HH234040/HH234011D	1	194	294	2.3	9.7	0.33	2.1	3.1	2	61.6	
	307.975	200.025	146.05	2.3	9.7	1360	2300	EE450577/451215D	1	170.1	274.9	2.3	9.7	0.33	2.07	3.09	2.03	63.9	
	149.225	236.538	131.762	106.362	1.6	6.4	775	1440	HM231148/HM231111D	1	176	227	1.6	6.4	0.32	2.1	3.2	2.1	18.8
		236.538	131.762	106.362	1.6	3.6	775	1440	HM231149/HM231111D	1	173	227	1.6	3.6	0.32	2.1	3.2	2.1	18.8
236.538		131.762	106.362	1.6	3.6	685	1360	82587/82932D	1	175	228	1.6	3.6	0.44	1.5	2.3	1.5	19.7	
236.538		131.762	106.362	1.6	3.6	775	1440	HM231149NA/HM231111D	2	173	227	1.6	3.6	0.32	2.1	3.2	2.1	18.9	
236.538		131.762	106.362	1.6	6.4	856	1660	HM231148/HM231111D	1	167	222.7	1.6	6.4	0.32	2.12	3.15	2.07	20.2	
236.538		131.762	106.362	1.6	3.6	856	1660	HM231149/HM231111D	1	161.4	222.7	1.6	3.6	0.32	2.12	3.15	2.07	20.3	
236.538		131.762	106.362	1.6	3.6	719	1460	82587/82932D	1	161.4	224.3	1.6	3.6	0.44	1.53	2.27	1.49	20.4	
241.3		131.762	106.362	1.6	3.6	775	1440	HM231149/HM231116D	1	173	230	1.6	3.6	0.32	2.1	3.2	2.1	20.4	
241.3		131.762	106.362	1.6	3.6	685	1360	82587/82951D	1	175	230	1.6	3.6	0.44	1.5	2.3	1.5	21	
241.3		131.762	106.362	1.6	3.6	775	1440	HM231149NA/HM231116D	2	173	230	1.6	3.6	0.32	2.1	3.2	2.1	20.5	
241.3		131.762	106.362	1.6	6.4	856	1660	HM231148/HM231116D	1	167	222.7	1.6	6.4	0.32	2.12	3.15	2.07	21.7	
241.3		131.762	106.362	1.6	3.6	856	1660	HM231149/HM231116D	1	161.4	222.7	1.6	3.6	0.32	2.12	3.15	2.07	21.8	
254		149.225	111.125	1.6	6.4	885	1660	99587/99102D	1	184	245	1.6	6.4	0.41	1.7	2.5	1.6	27.4	

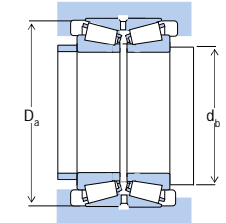
Double-row Taper Roller Bearing (Imperial)



2

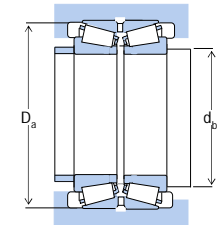
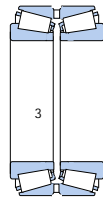
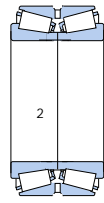
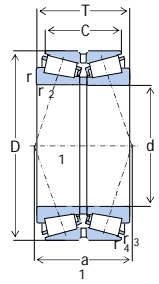


3



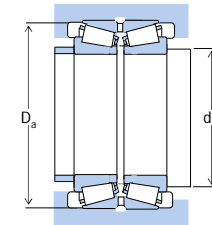
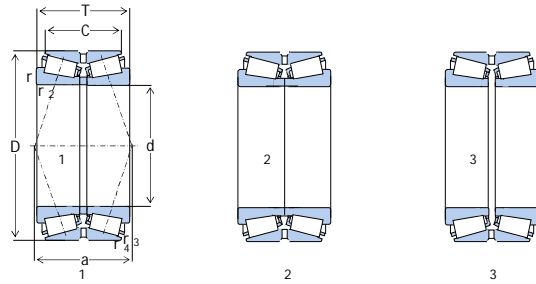
Boundary Dimensions (mm)						Basic Load Ratings (kN)		Designations	Design	Abutment and Fillet Dimensions				Calculation Factors			Mass (kg)	
d	D	T	C	r1.2min	r3.4min	Cr	Cor			d _{a min}	D _{a max}	r _{b max}	r _{a max}	e	Y ₁	Y ₂	Y ₀	Refer.
149.225	254	152.4	114.3	1.6	6.4	941	1830	99587/99101D	1	168.4	236.4	1.6	6.4	0.41	1.66	2.47	1.62	29.1
150	244.475	107.95	79.375	1.6	3.6	552	989	81590/81963D	1	162.2	226.5	1.6	3.6	0.35	1.93	2.88	1.89	16.8
150.812	244.475	107.95	79.375	1.6	3.6	570	1020	81593/81963D	1	177	235	1.6	3.6	0.35	1.9	2.9	1.9	16.9
152.4	222.25	100.01	76.2	0.8	8	490	1060	M231648/M231610D	1	179	215	0.8	8	0.33	2	3	2	11.9
	222.25	100.01	76.2	0.8	3.6	575	1187	M231649/M231610D	1	175	215	0.8	3.6	0.33	2	3	2	12
	222.25	100.01	76.2	0.8	8	541	1190	M231648/M231610D	1	173.2	209.3	0.8	8	0.33	2.03	3.02	1.98	11.8
	222.25	100.01	76.2	0.8	3.6	541	1190	M231649/M231610D	1	164.6	209.3	0.8	3.6	0.33	2.03	3.02	1.98	11.9
	222.25	106.36	82.55	0.8	3.6	490	1060	M231649/M231611D	1	175	215	0.8	3.6	0.33	2	3	2	12.5
	244.475	107.95	79.375	1.6	3.6	570	1020	81600/81693D	1	178	235	1.6	3.6	0.35	1.9	2.9	1.9	16.6
	254	149.225	111.125	1.6	7	885	1660	99600/99102D	1	185	245	1.6	7	0.41	1.7	2.5	1.6	26.5
254	152.4	114.3	1.6	7	885	1660	99600/99101D	1	185	245	1.6	7	0.41	1.7	2.5	1.6	27.1	
268.288	160.338	125.412	1.6	7	1040	1960	EE107060/107105D	1	187	256	1.6	7	0.39	1.7	2.6	1.7	34.6	
307.975	200.025	146.05	2.3	9.7	1280	2150	EE450601/451215D	1	199	289	2.3	9.7	0.33	2.1	3.1	2	60.1	
307.975	200.025	155.575	2.3	9.7	1510	2380	HH234048/HH234011D	1	197	294	2.3	9.7	0.33	2.1	3.1	2	59.3	
153.988	244.475	107.95	79.375	1.6	3.6	552	989	81606/81963D	1	166.2	226.5	1.6	3.6	0.35	1.93	2.88	1.89	16
158.75	225.425	85.725	69.85	0.8	3.6	410	1080	46780/46720D	1	183	219	0.8	3.6	0.38	1.8	2.6	1.7	11.1
	288.925	142.875	111.125	1.6	7	1050	1870	158KBE2851	1	201	278	1.6	7	0.32	2.1	3.2	2.1	37.3
	304.8	147.838	98.425	1.6	7	939	1600	EE280626/281201D	1	176.6	281.2	1.6	7	0.36	1.87	2.79	1.83	43
159.951	244.475	107.95	79.375	1.6	3.6	570	1020	81629/81963D	1	182	235	1.6	3.6	0.35	1.9	2.9	1.9	15.1
160.325	288.925	142.875	111.125	1.6	7	1050	1870	HM237532/HM237510D	1	202	278	1.6	7	0.32	2.1	3.2	2.1	36.8
	288.925	146.05	114.3	1.6	7	1080	190	HM237532/HM237511XD	1	179.5	270.2	1.6	7	0.32	2.12	3.15	2.07	37.9
161.925	374.65	184.15	130.175	1.6	7	1460	2180	EE117063/117148D	1	217	355	1.6	7	0.71	0.96	1.4	0.93	89.3
165.1	215.9	58.74	47.625	0.8	1.5	263	590	L433749/L433710D	1	180	210	0.8	1.5	0.36	1.9	2.8	1.8	5.3
	225.425	85.725	69.85	0.8	8	470	1121	46790/46720D	1	186	219	0.8	8	0.37	1.8	2.7	1.8	10

Double-row Taper Roller Bearing (Imperial)



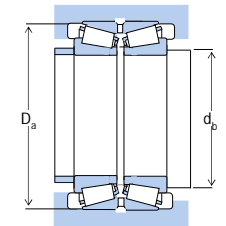
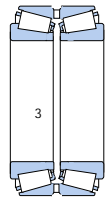
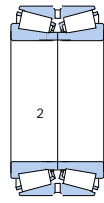
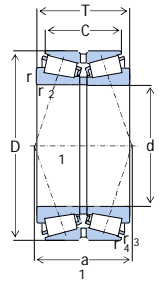
d	Boundary Dimensions (mm)					Basic Load Ratings (kN)		Designations	Design	Abutment and Fillet Dimensions				Calculation Factors			Mass (kg)	
	D	T	C	r1.2min	r3.4min	Cr	Cor			da min	Da max	rb max	ra max	e	Y1	Y2	Y0	Refer.
165.1	225.425	85.725	69.85	0.8	3.6	442	1140	46790R/46720D	1	177.3	215	0.8	3.6	0.38	1.76	2.62	1.72	9.64
	247.65	103.188	84.138	0.8	3.6	595	1410	67780/67720D	1	194	241	0.8	3.6	0.44	1.5	2.3	1.5	17.2
	247.65	106.362	87.312	0.8	3.6	593	1400	67780/67721D	1	177.3	237.6	0.8	3.6	0.44	1.54	2.29	1.5	17.4
	254	101.6	76.2	1.6	4.8	635	1190	M235145/M235113D	1	191	244	1.6	4.8	0.32	2.1	3.2	2.1	16.4
	288.925	142.875	111.125	1.6	7	1050	1870	HM237535/HM237510D	1	204	278	1.6	7	0.32	2.1	3.2	2.1	35.4
	288.925	142.875	111.125	1.6	7	1111	2166	94649/94114D	1	206	277	1.6	7	0.46	1.5	2.2	1.4	38
	288.925	142.875	111.125	1.6	3.6	1080	1950	HM237536NA/HM237510D	1	177.3	270.2	1.6	3.6	0.32	2.12	3.15	2.07	36.1
	288.925	142.875	111.125	1.6	3.6	943	1920	94650/94114D	1	177.3	269.8	1.6	3.6	0.47	1.44	2.15	1.41	37.8
	288.925	146.05	114.3	1.6	7	1050	1870	HM237535/HM237511D	1	204	278	1.6	7	0.32	2.1	3.2	2.1	36
	298.45	142.875	111.125	1.6	7	943	1920	94649/94118D	1	184.3	269.8	1.6	7	0.47	1.44	2.15	1.41	41.5
	298.45	142.875	111.125	1.6	3.6	943	1920	94650/94118D	1	177.3	269.8	1.6	3.6	0.47	1.44	2.15	1.41	41.6
	347.662	146.05	107.95	1.6	9.7	1310	2010	EE618065/618136D	1	214	326	1.6	9.7	0.33	2	3	2	58.7
368.3	193.675	136.525	1.6	9.7	1500	2690	EE420651/421451D	1	234	353	1.6	9.7	0.42	1.6	2.4	1.6	93	
165.496	225.425	95.25	69.85	0.8	3.6	442	1140	46790R/46720D	1	177.7	215	0.8	3.6	0.38	1.76	2.62	1.72	10.3
166.688	225.425	85.725	69.85	0.8	3.6	442	1140	46792R/46720D	1	178.9	215	0.8	3.6	0.38	1.76	2.62	1.72	9.37
168.275	247.65	103.188	84.138	0.8	3.6	595	1410	67782/67720D	1	195	241	0.8	3.6	0.44	1.5	2.3	1.5	16.5
	247.65	106.362	87.312	0.8	3.6	593	1400	67782/67721D	1	180.5	237.6	0.8	3.6	0.44	1.54	2.29	1.5	16.7
170	254	101.6	76.2	1.6	4.8	635	1190	M235149/M235113D	1	194	244	1.6	4.8	0.32	2.1	3.2	2.1	15.4
171.45	288.925	142.875	111.125	1.6	7	943	1920	94675/94114D	1	190.7	269.8	1.6	7	0.47	1.44	2.15	1.41	35.9
	298.45	142.875	111.125	1.6	7	943	1920	94675/94118D	1	190.7	269.8	1.6	7	0.47	1.44	2.15	1.41	39.6
174.625	247.65	103.188	84.138	0.8	3.6	595	1410	67787/67720D	1	199	241	0.8	3.6	0.44	1.5	2.3	1.5	15.1
	247.65	103.188	84.138	0.8	7.9	593	1400	67786/67720D	1	195.4	237.6	0.8	7.9	0.44	1.54	2.29	1.5	14.8
	247.65	106.362	87.312	0.8	7.9	593	1400	67786/67721D	1	195.4	237.6	0.8	7.9	0.44	1.54	2.29	1.5	15.2
	247.65	106.362	87.312	0.8	3.6	593	1400	67787/67721D	1	186.8	237.6	0.8	3.6	0.44	1.54	2.29	1.5	15.3
	288.925	142.875	111.125	0.8	3.6	940	1900	94687/94114D	1	204	272	0.8	3.6	0.47	1.44	2.15	1.41	33.1
	288.925	142.875	111.125	1.6	7	1080	1950	HM237542/HM237510D	1	193.8	270.2	1.6	7	0.32	2.12	3.15	2.07	33.1

Double-row Taper Roller Bearing (Imperial)



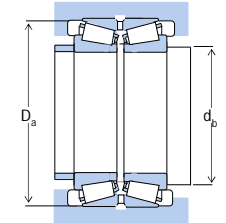
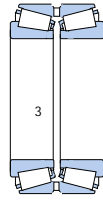
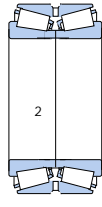
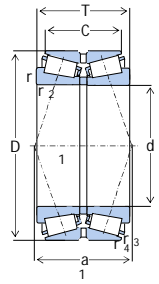
d	Boundary Dimensions (mm)					Basic Load Ratings (kN)		Designations	Design	Abutment and Fillet Dimensions				Calculation Factors				Mass (kg)
	D	T	C	r1.2min	r3.4min	Cr	Cor			da min	Da max	rb max	ra max	e	Y1	Y2	Y0	
174.625	288.925	142.875	111.125	1.6	7	943	1920	94687/94114D	1	193.8	269.8	1.6	7	0.47	1.44	2.15	1.41	34.9
	288.925	146.05	114.3	1.6	7	1050	1870	HM237542/HM237511D	1	209	278	1.6	7	0.32	2.1	3.2	2.1	33.1
	298.45	142.875	111.125	1.6	7	943	1920	94687/94118D	1	193.8	269.8	1.6	7	0.47	1.44	2.15	1.41	38.7
177.8	227.012	66.672	52.388	0.8	1.5	299	785	36990/36920D	1	193	222	0.8	1.5	0.44	1.5	2.3	1.5	6.4
	247.65	103.188	84.138	0.8	3.6	595	1410	67790/67720D	1	200	241	0.8	3.6	0.44	1.5	2.3	1.5	14.4
	247.65	103.188	84.138	0.8	10.4	595	1410	67991/67720D	1	207	241	0.8	10.4	0.44	1.5	2.3	1.5	14.2
	247.65	106.362	87.312	0.8	3.6	593	1400	67790/67721D	1	190	237.6	0.8	3.6	0.44	1.54	2.29	1.5	14.6
	247.65	106.362	87.312	0.8	10.4	593	1400	67791/67721D	1	203.6	237.6	0.8	10.4	0.44	1.54	2.29	1.5	14.4
	269.875	119.062	93.662	1.6	3.6	836	1805	M238840/M238810D	1	208	262	1.6	3.6	0.33	2	3	2	23
	282.575	107.95	79.375	1.6	3.6	702	1450	87700/87112D	1	190	266.3	1.6	3.6	0.42	1.62	2.42	1.59	23.8
	285.75	136.525	92.075	1.6	6.4	775	1450	EE91702/91113XD	1	210	274	1.6	6.4	0.43	1.6	2.3	1.5	28.7
	288.925	142.875	111.125	1.6	7	1050	1870	HM237545/HM237509D	1	210	278	1.6	7	0.32	2.1	3.2	2.1	31.7
	288.925	142.875	111.125	1.6	7	930	1880	94700/94114D	1	213	277	1.6	7	0.47	1.4	2.1	1.4	33.6
	288.925	142.875	111.125	1.6	5.6	1080	1950	HM237545NA/HM237510D	1	194	270.2	1.6	5.6	0.32	2.12	3.15	2.07	32.2
	288.925	142.875	111.125	1.6	5.6	1050	1870	HM237545NA/HM237510D	2	209	278	1.6	5.6	0.32	2.1	3.2	2.1	31.9
	288.925	146.05	114.3	1.6	7	1050	1870	HM237545/HM237511D	1	210	278	1.6	7	0.32	2.1	3.2	2.1	32.2
	298.45	142.875	111.125	1.6	7	930	1880	94700/94118D	1	213	282	1.6	7	0.47	1.4	2.1	1.4	37.5
	304.8	147.838	98.425	1.6	6.4	939	1600	EE280702/281201D	1	195.6	281.2	1.6	6.4	0.36	1.87	2.79	1.83	37.2
320.675	185.738	138.112	1.6	3.6	1470	2530	H239640/H239612D	1	215	309	1.6	3.6	0.32	2.1	3.2	2.1	55.6	
320.675	185.738	138.112	1.6	3.6	1270	2420	177KBE3251	1	218	309	1.6	3.6	0.49	1.4	2.1	1.4	58.9	
320.675	185.738	138.112	1.6	3.6	1280	2450	EE222070/222127D	1	190	297.9	1.6	3.6	0.4	1.68	2.5	1.64	59	
368.3	193.675	136.525	1.6	12.7	1500	2690	EE420701/421451D	1	243	353	1.6	12.7	0.42	1.6	2.4	1.6	87.6	
179.972	317.5	146.05	111.125	1.6	3.6	990	2120	93708/93127D	1	224	306	1.6	3.6	0.52	1.3	1.9	1.3	46.9
	319.976	146.05	111.125	1.6	3.6	990	2120	93708/93128XD	1	224	307	1.6	3.6	0.52	1.3	1.9	1.3	49.1
184.15	236.538	55.56	41.275	0.8	1.5	265	580	LL537649/LL537610D	1	199	230	0.8	1.5	0.37	1.8	2.7	1.8	5.5
	242.888	95.25	69.85	0.8	3.6	425	1200	LM637349NW/LM637310D	2	199	236	0.8	3.6	0.42	1.6	2.4	1.6	11.5
	266.7	103.188	84.138	0.8	3.6	590	1440	67883/67820D	1	212	260	0.8	3.6	0.48	1.4	2.1	1.4	18.4

Double-row Taper Roller Bearing (Imperial)



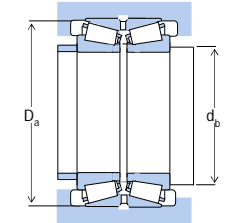
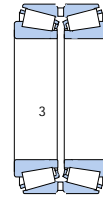
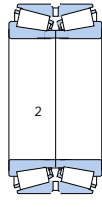
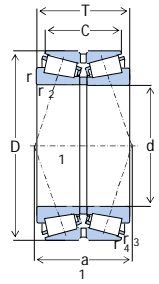
Boundary Dimensions (mm)						Basic Load Ratings (kN)		Designations	Design	Abutment and Fillet Dimensions				Calculation Factors				Mass (kg)
d	D	T	C	r1.2min	r3.4min	Cr	Cor			da min	Da max	rb max	ra max	e	Y1	Y2	Y0	Refer.
187.325	266.7	103.188	84.138	0.8	3.6	614	1520	67884/67820D	1	199.5	256.5	0.8	3.6	0.48	1.41	2.11	1.38	18
	269.875	119.062	93.662	1.6	3.6	704	1610	M238849/M238810D	1	199.5	255	1.6	3.6	0.33	2.03	3.02	1.98	20.4
	282.575	107.95	79.375	1.6	3.6	702	1450	87737/87112D	1	199.5	266.3	1.6	3.6	0.42	1.62	2.42	1.59	21.4
	320.675	185.738	138.112	1.6	5.6	1470	2530	H239649/H239612D	1	222	309	1.6	5.6	0.32	2.1	3.2	2.1	51.6
	320.675	185.738	138.112	1.6	5.6	1280	2450	222075/222127D	1	203.5	297.9	1.6	5.6	0.4	1.68	2.5	1.64	55
	320.675	185.738	138.112	1.6	5.6	1470	2530	H239649NA/H239612D	2	222	309	1.6	5.6	0.32	2.1	3.2	2.1	51.8
190.5	266.7	103.188	84.138	0.8	3.6	590	1440	67885/67820D	1	215	260	0.8	3.6	0.48	1.4	2.1	1.4	16.9
	282.575	107.95	79.375	1.6	3.6	615	1200	87750/87112D	1	217	273	1.6	3.6	0.42	1.6	2.4	1.6	20.2
	317.5	146.05	111.125	1.6	4.3	990	2120	93750/93127D	1	231	306	1.6	4.3	0.52	1.3	1.9	1.3	43.7
	319.977	146.05	111.125	1.6	4.3	1040	2270	93750/93128XD	1	204.1	294.5	1.6	4.3	0.52	1.29	1.92	1.26	44.8
	368.3	193.675	136.525	1.6	6.4	1610	2920	EE420751/421451D	1	208.3	334	1.6	6.4	0.4	1.68	2.5	1.64	85.2
192.088	266.7	103.188	84.138	0.8	10.4	614	1520	67887/67820D	1	217.9	256.5	0.8	10.4	0.48	1.41	2.11	1.38	16.6
193.675	282.575	107.95	79.375	1.6	3.6	702	1450	87762/87112D	1	205.9	266.3	1.6	3.6	0.42	1.62	2.42	1.59	19.8
196.85	254	61.91	47.625	0.8	1.5	305	715	L540049/L540010D	1	213	247	0.8	1.5	0.4	1.7	2.5	1.7	7.4
	257.175	85.725	66.675	0.8	3.6	459	1260	LM739749/LM739710D	1	209.1	247	0.8	3.6	0.45	1.51	2.25	1.48	11.2
	317.5	146.05	111.125	1.6	4.3	990	2120	93775/93127D	1	234	306	1.6	4.3	0.52	1.3	1.9	1.3	41.5
	319.977	146.05	111.125	1.6	4.3	1040	2270	93775/93128XD	1	210.5	294.5	1.6	4.3	0.52	1.29	1.92	1.26	42.6
200.025	292.1	125.415	101.6	1.6	4.3	915	2070	M241543/M241510D	1	219	279	1.6	4.3	0.33	1.03	3.02	1.98	24.8
	317.5	146.05	111.125	1.6	4.3	1040	2270	93787/93127D	1	214.6	294.5	1.6	4.3	0.52	1.29	1.92	1.26	40.5
	319.977	146.05	111.125	1.6	4.3	1040	2270	93787/93128XD	1	214.6	294.5	1.6	4.3	0.52	1.29	1.92	1.26	41.5
	333.375	149.225	114.3	1.6	6.4	1210	240	HM743337/HM743310D	1	218.8	315.5	1.6	6.4	0.44	1.54	2.29	1.5	49.4
	355.6	152.4	111.125	1.6	6.4	1190	2470	EE130787/131401D	1	250	340	1.6	6.4	0.33	3	0.33	2	60.3
	355.6	158.75	117.475	0.8	6.8	1190	2470	EE130787/131402D	1	250	341	0.8	6.8	0.33	3	0.33	2	62.4
201.612	384.175	238.125	193.675	1.6	6.4	2090	4450	H247535/H247510D	1	258	369	1.6	6.4	0.33	3	0.33	2	122
	317.5	146.05	111.125	1.6	4.3	1110	2280	93787/93127D	1	225	300	1.6	4.3	0.52	1.3	1.9	1.3	41.5
	368.3	193.675	136.525	1.6	4.3	1500	2690	EE420793/421451D	1	246	353	1.6	4.3	0.42	2.4	0.42	1.6	77.2

Double-row Taper Roller Bearing (Imperial)



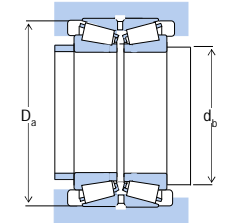
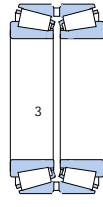
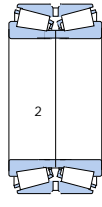
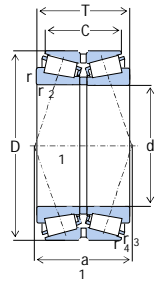
d	Boundary Dimensions (mm)					Basic Load Ratings (kN)		Designations	Design	Abutment and Fillet Dimensions				Calculation Factors				Mass (kg)
	D	T	C	r1.2min	r3.4min	Cr	Cor			da min	Da max	rb max	ra max	e	Y1	Y2	Y0	
203.2	276.225	90.485	73.025	0.8	3.6	580	1240	LM241149/LM241110D	1	224	269	0.8	3.6	0.32	3.2	0.32	2.1	13.9
	276.225	95.25	73.025	0.8	3.6	580	1240	LM241149NW/LM241110D	2	226	269	0.8	3.6	0.32	2.1	3.2	2.1	14.7
	282.575	101.6	82.55	0.8	3.6	598	1410	67983/67920D	1	216.4	271.5	0.8	3.6	0.51	1.33	1.97	1.3	18.3
	282.575	107.95	88.9	0.8	3.6	598	1410	67983/67921D	1	216.4	271.5	0.8	3.6	0.51	1.33	1.97	1.3	19.3
	292.1	125.415	101.6	1.6	3.6	930	2100	M241547/M241510D	1	229	283	1.6	3.6	0.33	3	0.33	2	25.7
	317.5	120.65	88.9	1.6	6.4	753	1450	132083/132126D	1	222	292.3	1.6	6.4	0.31	2.15	3.21	2.11	30.9
	317.5	127	88.9	1.6	4	790	1450	EE132083/132126D	1	232	302	1.6	4	0.31	3.2	0.31	2.1	30.6
	317.5	146.05	111.125	1.6	4	990	2120	93800/93127D	1	237	306	1.6	4	0.52	1.9	0.52	1.3	39
	317.5	146.05	111.125	1.6	7.9	1040	2270	93800A/93127D	1	225	294.5	1.6	7.9	0.52	1.29	1.92	1.26	39.2
	319.976	146.05	111.125	1.6	4.3	990	2120	93800/93128D	1	237	307	1.6	4.3	0.52	1.9	0.52	1.3	40.5
	368.3	193.675	136.525	1.6	3.2	1500	2690	EE420801/421451D	1	246	353	1.6	3.2	0.42	2.4	0.42	1.6	76.4
	371.475	193.675	136.525	1.6	3.2	1610	2920	EE420801/421462XD	1	215.6	334	1.6	3.2	0.4	1.68	2.5	1.64	81.3
	406.4	196.85	127	3.2	6.4	1600	2610	EE114080/114161D	1	260	386	3.2	6.4	0.79	0.85	1.3	0.83	102
	203.238	406.4	196.85	127	3.2	6.4	1630	2920	EE114081/114161D	1	222	367.5	3.2	6.4	0.79	0.85	1.27	0.83
292.1		125.415	101.6	1.6	3.6	934	2050	M241549/M241510D	1	218	277.7	1.6	3.6	0.33	2.03	3.02	1.98	24.4
317.5		146.05	111.125	1.6	4.3	1040	2270	93806A/93127D	1	219.4	294.5	1.6	4.3	0.52	1.29	1.92	1.26	38.8
319.977		146.05	111.125	1.6	4.3	1040	2270	93806A/93128XD	1	219.4	294.5	1.6	4.3	0.52	1.29	1.92	1.26	39.8
206.375	282.575	101.6	82.55	0.8	3.6	630	1600	67985/67920D	1	231	276	0.8	3.6	0.51	2	0.51	1.3	18.2
	282.575	107.95	88.9	0.8	3.6	598	1410	67985/67921D	1	219.6	271.5	0.8	3.6	0.51	1.33	1.97	1.3	18.4
	317.5	127	88.9	1.6	4	790	1450	EE132084/132126D	1	234	302	1.6	4	0.31	3.2	0.31	2.1	29.6
	336.55	211.138	169.862	1.6	3.2	2014	4085	H242649/H242610D	1	242	325	1.6	3.2	0.33	2	3	2	70
209.55	282.575	101.6	82.55	0.8	3.6	598	1410	67989/67920D	1	222.8	271.5	0.8	3.6	0.51	1.33	1.97	1.3	16.7
	317.5	146.05	111.125	1.6	4.3	990	2120	93825/93127D	1	240	306	1.6	4.3	0.52	1.3	1.9	1.3	37.1
	317.5	146.05	111.125	1.6	12.7	1040	2270	93825A/93127D	1	241	294.5	1.6	12.7	0.52	1.29	1.92	1.26	36.7
	333.375	149.225	114.3	1.6	6.4	1180	2380	HM743345/HM743310D	1	247	322	1.6	6.4	0.44	1.5	2.3	1.5	45.3
	355.6	152.4	111.125	1.6	7.1	1130	2630	96825/96140D	1	229.8	331.4	1.6	7.1	0.59	1.14	1.7	1.12	60

Double-row Taper Roller Bearing (Imperial)



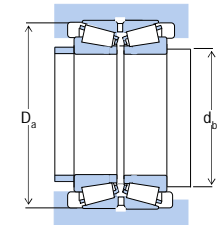
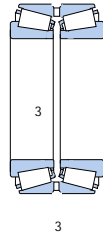
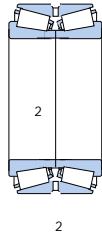
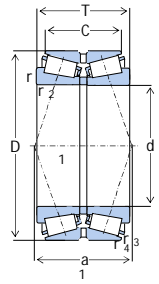
Boundary Dimensions (mm)						Basic Load Ratings (kN)		Designations	Design	Abutment and Fillet Dimensions				Calculation Factors			Mass (kg)	
d	D	T	C	r1.2min	r3.4min	Cr	Cor			da min	Da max	rb max	ra max	e	Y1	Y2	Y0	Refer.
212.725	285.75	98.425	76.2	0.8	3.6	600	1510	LM742745/LM742710D	1	237	280	0.8	3.6	0.48	1.4	2.1	1.4	16.8
	288.925	98.425	76.2	0.8	3.6	611	1560	LM742745/LM742714D	1	225.9	276.4	0.8	3.6	0.48	1.4	2.09	1.37	17.6
215.9	285.75	98.425	76.2	0.8	3.6	611	1560	LM742749/LM742710D	1	229.1	276.4	0.8	3.6	0.48	1.4	2.09	1.37	15.9
	287.338	69.85	50.8	0.8	3.6	396	945	543085/543115D	1	229.1	272.4	0.8	3.6	0.38	1.76	2.62	1.72	11.4
	288.925	98.425	76.2	0.8	3.6	611	1560	LM742749/LM742714D	1	229.1	276.4	0.8	3.6	0.48	1.4	2.09	1.37	16.8
	355.6	152.4	111.125	1.6	6.8	1250	2610	EE130851/131401D	1	235.3	330	1.6	6.8	0.33	2.04	3.04	2	55.7
219.075	355.6	158.75	117.475	0.8	6.8	1250	2610	EE130851/131402D	1	235.3	330	0.8	6.8	0.33	2.04	3.04	2	57.6
	406.4	195.262	147.638	1.6	6.4	2040	3600	EE820085/820161D	1	267	389	1.6	6.4	0.39	1.7	2.5	1.7	101
	358.775	196.85	181.44	1.6	6.4	1660	3590	543086/543115D	1	237.9	337.2	1.6	6.4	0.33	2.03	3.02	1.98	78.3
219.969	287.338	69.85	50.8	0.8	3.6	396	94	543086/543115D	1	233.2	272.4	0.8	3.6	0.38	1.76	2.62	1.72	10.6
220.662	314.325	131.762	106.362	1.6	6.4	1020	2390	M244249/M244210D	1	250	305	1.6	6.4	0.33	2	3	2	30.9
225.425	355.6	152.4	111.125	1.6	6.8	1190	2470	EE130889/131401D	1	263	340	1.6	6.8	0.33	2	3	2	50.2
	355.6	158.75	117.475	0.8	6.7	1250	2610	EE130889/131402D	1	244.8	330	0.8	6.7	0.33	2.04	3.04	2	53.6
	400.05	187.325	136.525	1.6	1.5	1620	3000	EE430888/431576D	1	266	379	1.6	1.5	0.44	1.5	2.3	1.5	88
228.397	431.8	196.85	111.125	3.2	6.4	1520	2640	EE113089/113171D	1	287	410	3.2	6.4	0.88	0.77	1.1	0.75	105
228.46	431.8	196.85	111.125	3.2	6.4	1700	2890	EE113091/113171D	1	247.3	396.8	3.2	6.4	0.88	0.76	1.14	0.75	111
228.6	327.025	114.3	82.55	1.6	6.4	800	2014	8573/8520D	1	261	316	1.6	6.4	0.4	1.7	2.5	1.6	30
	328.625	114.3	82.55	1.6	6.4	802	1860	8573/8522D	1	247.4	309.8	1.6	6.4	0.41	1.66	2.47	1.62	28.8
	355.6	146.05	111.125	1.6	6.4	1250	2610	130902/131401D	1	247.4	330	1.6	6.4	0.33	2.04	3.04	2	49.4
228.6	355.6	152.4	111.125	1.6	7	1190	2470	EE130902/131401D	1	265	340	1.6	7	0.33	2	3	2	48.8
	355.6	152.4	111.125	1.6	7	1030	2340	96900/96140D	1	270	342	1.6	7	0.59	1.1	1.7	1.1	51
	355.6	152.4	114.3	1.6	6.4	1310	2590	HM746646/HM746610D	1	266	345	1.6	6.4	0.47	1.4	2.1	1.4	49.1
	355.6	152.4	111.125	1.6	7	1250	2610	EE130902/131401D	1	248	330	1.6	7	0.33	2.04	3.04	2	50.4
228.6	355.6	152.4	111.125	1.6	7	1130	2630	96900/96140D	1	248.8	331.4	1.6	7	0.59	1.14	1.7	1.12	52.3

Double-row Taper Roller Bearing (Imperial)



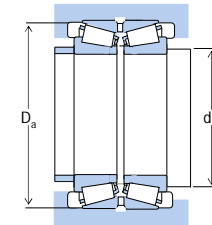
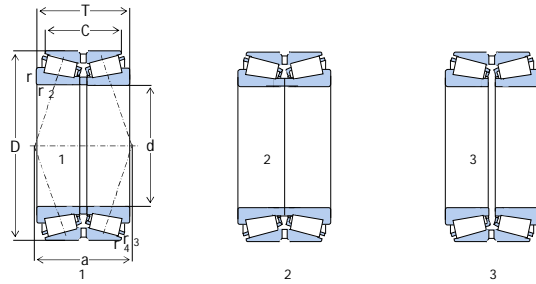
d	Boundary Dimensions (mm)					Basic Load Ratings (kN)		Designations	Design	Abutment and Fillet Dimensions				Calculation Factors				Mass (kg)
	D	T	C	r1.2min	r3.4min	Cr	Cor			da min	Da max	rb max	ra max	e	Y1	Y2	Y0	Refer.
228.6	355.6	158.75	117.475	0.8	6.8	1190	2470	EE130902/131402D	1	265	341	0.8	6.8	0.33	2	3	2	50.4
	358.775	152.4	117.475	1.6	3.6	1463	3372	M249732/M249710D	1	256	343	1.6	3.6	0.33	2	3	2	57
	400.05	17.325	136.525	1.6	19.8	1690	3210	EE430902/431576D	1	274.2	363.1	1.6	19.8	0.44	1.54	2.29	1.5	86.7
	400.05	187.325	136.525	1.6	10.4	1620	3000	EE430900/431576D	1	277	379	1.6	10.4	0.44	1.5	2.3	1.5	86.1
	425.45	209.55	158.75	1.6	7	2200	4000	EE700091/700168D	1	281	406	1.6	7	0.33	2	3	2	118
	488.95	254	152.4	1.6	6.4	2774	4275	HH949549/HH949510D	1	307	470	1.6	6.4	0.94	0.7	1.1	0.7	205
231.775	358.775	152.4	117.475	1.6	6.4	1330	3170	M249734/M249710D	1	250.6	342.1	1.6	6.4	0.33	2.03	3.02	1.98	55
234.95	311.15	98.425	73.025	0.8	3.6	640	1610	LM446349/LM446310D	1	259	304	0.8	3.6	0.36	1.9	2.8	1.8	18.8
	311.15	101.6	73.025	0.8	3.6	640	1610	LM446349NW/LM446310D	2	259	304	0.8	3.6	0.36	1.9	2.8	1.8	19.3
	327.025	114.3	82.55	1.6	6.4	805	1880	8575/8520D	1	264	316	1.6	6.4	0.41	1.7	2.5	1.6	26.1
	328.625	114.3	82.55	1.6	6.4	802	1860	8575/8522D	1	253.8	309.8	1.6	6.4	0.41	1.66	2.47	1.62	26.7
	355.6	152.4	111.125	1.6	7	1030	2340	96925/96140D	1	273	342	1.6	7	0.59	1.1	1.7	1.1	48.3
	384.175	238.125	193.675	1.6	6.4	2090	4450	H247549/H247510D	1	276	369	1.6	6.4	0.33	2	3	2	99.7
237.33	358.775	152.4	117.475	1.6	6.4	1330	3170	M249736/M249710D	1	256.1	342.1	1.6	6.4	0.33	2	3	2	52.6
241.3	327.025	114.3	82.55	1.6	6.4	805	1880	8578/8520D	1	267	316	1.6	6.4	0.41	1.7	2.5	1.6	23.9
	328.625	114.3	82.55	1.6	6.4	802	1860	8578/8522D	1	260.1	309.8	1.6	6.4	0.41	1.66	2.47	1.62	24.6
	349.148	127	101.6	1.6	6.4	950	2050	EE127095/127136D	1	260.1	329.6	1.6	6.4	0.35	1.91	2.84	1.86	36.4
	350.838	127	101.6	1.6	6.4	980	2130	EE127095/127137D	1	274	338	1.6	6.4	0.35	1.9	2.8	1.9	36.9
	355.498	127	101.6	1.6	6.4	980	2130	EE127095/127139D	1	274	341	1.6	6.4	0.35	1.9	2.8	1.9	38.9
	368.3	120.65	85.725	1.6	6.4	870	1850	EE170950/171451D	1	260.1	335.8	1.6	6.4	0.36	1.86	2.77	1.82	41.7
	393.7	157.162	109.538	1.6	6.4	1200	2570	EE275095/275156D	1	293	382	1.6	6.4	0.4	1.7	2.5	1.6	68
	406.4	155.58	107.95	1.6	6.4	1200	2570	EE275095/275161D	1	293	389	1.6	6.4	0.4	1.7	2.5	1.6	74.2
	406.4	215.9	184.15	1.6	6.4	2220	4450	H249148/H249111D	1	287	392	1.6	6.4	0.33	2	3	2	105
	444.5	209.55	158.75	1.6	6.4	2410	4500	EE923095/923176D	1	295	423	1.6	6.4	0.34	2	3	2	133
	488.95	254	196.85	1.6	6.4	2950	5700	EE295950/295192D	1	315	469	1.6	6.4	0.31	2.2	3.2	2.1	207

Double-row Taper Roller Bearing (Imperial)



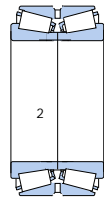
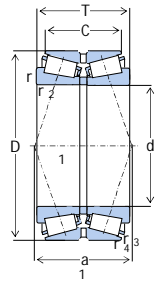
d	Boundary Dimensions (mm)					Basic Load Ratings (kN)		Designations	Design	Abutment and Fillet Dimensions				Calculation Factors				Mass (kg)
	D	T	C	r1.2min	r3.4min	Cr	Cor			da min	Da max	rb max	ra max	e	Y1	Y2	Y0	
244.475	349.148	133.35	101.6	1.6	6.4	950	2050	EE127096/127136D	1	263.3	329.6	1.6	6.4	0.35	1.91	2.84	1.86	36.3
	380.898	171.45	127	1.6	6.4	1350	2930	EE126097/126149D	1	263.3	356.4	1.6	6.4	0.52	1.31	1.95	1.28	65.9
	381	171.45	127	1.6	6.4	1410	3100	EE126097/126151D	1	286	367	1.6	6.4	0.52	1.3	1.9	1.3	65.1
247.65	368.3	120.65	85.725	1.6	6.4	870	1850	EE170975/171451D	1	266.5	335.8	1.6	6.4	0.36	1.86	2.77	1.82	39.4
	406.4	247.65	203.2	1.6	6.4	2770	6250	HH249949/HH249910D	1	266.5	382.5	1.6	6.4	0.33	2.03	3.02	1.98	123
249.25	380.898	171.45	127	1.6	6.4	1350	2930	EE126098/126149D	1	268.1	356.4	1.6	6.4	0.52	1.31	1.95	1.28	63.5
	381	171.45	127	1.6	6.4	1410	3100	EE126098/126151D	1	288	367	1.6	6.4	0.52	1.3	1.9	1.3	62.6
254	323.85	63.5	50.8	0.8	1.5	263	760	29875/29820D	1	276	315	0.8	1.5	0.35	1.9	2.9	1.9	12.4
	347.662	95.25	69.85	1.6	3.6	755	1610	LM249748/LM249710D	1	278	336	1.6	3.6	0.33	2	3	2	23.1
	347.662	101.6	69.85	1.6	3.6	780	1760	LM249747NW/LM249710D	2	285	338	1.6	3.6	0.33	2	3	2	25.3
	358.775	152.4	117.475	1.6	3.6	1300	3100	M249749/M249710D	1	284	348	1.6	3.6	0.33	2	3	2	44.6
	365.125	130.175	98.425	1.6	6.4	990	2200	EE134100/134144D	1	289	354	1.6	6.4	0.37	1.8	2.7	1.8	39.8
	393.7	157.162	109.538	1.6	6.4	1200	2570	EE275100/275156D	1	299	382	1.6	6.4	0.4	1.7	2.5	1.6	61.9
	406.4	155.575	107.95	1.6	6.4	1270	3090	EE275100/275161D	1	272.8	377.8	1.6	6.4	0.4	1.68	2.5	1.64	73.4
	422.275	173.038	128.588	1.6	6.8	1950	3700	HM252343/HM252311D	1	301	408	1.6	6.8	0.33	2	3	2	86.6
	422.275	173.038	128.588	1.6	1.6	1730	3360	HM252349NA/HM252311D	1	263.2	397.9	1.6	1.6	0.33	2.03	3.02	1.98	87.3
	422.275	173.038	128.588	1.6	6.4	1950	3700	HM252344/HM252311D	2	301	408	1.6	6.4	0.33	2	3	2	86.8
	422.275	178.592	139.7	1.6	6.8	2128	3847	HM252343/HM252310D	1	301	408	1.6	6.8	0.33	2	3	2	97.5
	422.91	178.592	139.7	1.6	6.8	1730	3360	HM252343/HM252312D	1	273.4	399.1	1.6	6.8	0.33	2.03	3.02	1.98	90.3
	431.724	173.038	128.588	1.6	6.8	1730	3360	HM252343/HM252315D	1	273.4	397.9	1.6	6.8	0.33	2.03	3.02	1.98	93.3
	431.724	173.038	128.588	1.6	6.4	1680	3420	551002/551701D	1	272.8	388.3	1.6	6.4	0.33	2.03	3.02	1.98	93
	431.724	173.038	128.588	1.6	6.4	1950	3700	HM252343NA/HM252315D	2	301	413	1.6	6.4	0.33	2	3	2	93.4
	444.5	165.1	114.3	1.6	6.4	1470	2770	EE822100/822176D	1	272.8	406.2	1.6	6.4	0.42	1.62	2.42	1.59	93.9
	495.3	162.245	120.65	1.6	6.4	1750	3220	EE941002/941951XD	1	272.8	455.7	1.6	6.4	0.4	1.68	2.5	1.64	135
	495.3	168.595	127	1.6	6.4	1750	3220	EE941002/941953D	1	272.8	455.7	1.6	6.4	0.4	1.68	2.5	1.64	139
	533.4	276.225	165.1	1.6	6.4	3296	5225	HH953749/HH953710D	1	332	511	1.6	6.4	0.94	0.7	1.1	0.7	260
258.763	400.05	155.575	107.95	1.6	9.5	1300	2570	EE221018/221576D	1	283.8	371.2	1.6	9.5	0.39	1.71	2.54	1.67	59.2

Double-row Taper Roller Bearing (Imperial)

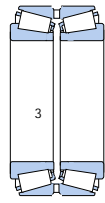


Boundary Dimensions (mm)						Basic Load Ratings (kN)		Designations	Design	Abutment and Fillet Dimensions				Calculation Factors			Mass (kg)	
d	D	T	C	r1.2min	r3.4min	Cr	Cor			da min	Da max	rb max	ra max	e	Y1	Y2	Y0	Refer.
260.35	365.125	130.175	98.425	1.6	6.4	990	2200	EE134102/134144D	1	293	354	1.6	6.4	0.37	1.8	2.7	1.8	37.2
	400.05	146.05	107.95	1.6	6.4	1300	2570	221026/221576D	1	279.2	371.2	1.6	6.4	0.39	1.71	2.54	1.67	56.7
	400.05	155.575	107.95	1.6	9.7	1260	2440	EE221026/221576D	1	300	383	1.6	9.7	0.39	1.7	2.5	1.7	58.3
	406.4	149.225	117.475	1.6	3.2	1290	2870	EE128102/128160D	1	302	391	1.6	3.2	0.39	1.8	2.6	1.7	66.8
	419.1	184.15	136.525	1.6	3.2	1580	3250	EE435102/435165D	1	295	395	1.6	3.2	0.61	1.11	1.66	1.09	86.8
	422.275	173.038	128.588	1.6	6.8	1950	3700	HM252349/HM252311D	1	304	408	1.6	6.8	0.33	2	3	2	83.1
	422.275	178.592	139.7	1.6	6.8	2128	3847	HM252349/HM252310D	1	304	408	1.6	6.8	0.33	2	3	2	86.5
	422.275	178.598	139.7	1.6	6.8	1670	3200	EE551026/551663D	1	302	404	1.6	6.8	0.33	2	3	2	85.3
	422.91	178.592	139.7	1.6	6.8	1730	3360	HM252349/HM252312D	1	279.8	399.1	1.6	6.8	0.33	2.03	3.02	1.98	86.7
	431.724	173.038	128.588	1.6	6.8	1730	3360	HM252349/HM252315D	1	279.8	397.9	1.6	6.8	0.33	2.03	3.02	1.98	89.9
	431.724	173.038	128.588	1.6	6.4	1950	3700	HM252349NA/HM252315D	2	304	413	1.6	6.4	0.33	2	3	2	89.9
	488.95	254	196.85	1.6	6.4	2950	5700	EE295102/295192D	1	325	469	1.6	6.4	0.31	2.2	3.2	2.1	193
731.724	173.038	128.588	1.6	6.4	1730	3360	HM252348NA/HM252315D	1	279.2	397.9	1.6	6.4	0.33	2.03	3.02	1.98	90	
263.525	355.6	127	101.6	1.6	3.6	1040	2550	LM451345/LM451310D	1	276.7	342.6	1.6	3.6	0.36	1.87	2.79	1.83	33.1
	357.2	127	101.6	1.6	3.6	1040	2550	LM451345/LM451312D	1	276.7	342.6	1.6	3.6	0.36	1.87	2.79	1.83	33.8
266.7	323.85	63.5	50.8	0.8	1.6	252	723	29880/29820D	1	275.9	307.1	0.8	1.6	0.35	1.95	2.9	1.91	9.57
	352.425	107.95	82.55	1.6	6.4	855	2110	LM251649NW/LM251610D	2	295	343	1.6	6.4	0.32	2.1	3.2	2.1	26.3
	355.6	127	101.6	1.6	3.6	1060	2520	LM451349/LM451310D	1	292	348	1.6	3.6	0.36	1.9	2.8	1.8	31.2
	355.6	127	101.6	1.6	10.4	1040	2550	LM451349A/LM451310D	1	293.5	342.6	1.6	10.4	0.36	1.87	2.79	1.83	31.5
	357.2	127	101.6	1.6	3.6	1060	2520	LM451349/LM451312D	1	292	348	1.6	3.6	0.36	1.9	2.8	1.8	32
	393.7	157.162	109.538	1.6	6.4	1200	2570	EE275105/275156D	1	306	382	1.6	6.4	0.4	1.7	2.5	1.6	56.6
	406.4	155.575	107.95	1.6	6.4	1200	2570	EE275105/275161D	1	306	389	1.6	6.4	0.4	1.7	2.5	1.6	62.8
	422.275	178.598	139.7	1.6	6.8	1670	3200	EE551050/551663D	1	306	404	1.6	6.8	0.33	2	3	2	81.6
431.724	173.038	128.588	1.6	6.8	1670	3200	EE551050/551701D	1	306	408	1.6	6.8	0.33	2	3	2	84.9	
269.875	381	158.75	123.825	1.6	6.4	1360	3200	M252349/M252310D	1	304	370	1.6	6.4	0.33	2	3	2	51.6
273.05	393.7	157.162	109.538	1.6	6.4	1200	2570	EE275108/275156D	1	309	382	1.6	6.4	0.4	1.7	2.5	1.6	53.3
	406.4	155.575	107.95	1.6	6.4	1270	3090	EE275108/275161D	1	291.9	377.8	1.6	6.4	0.4	1.68	2.5	1.64	63.8

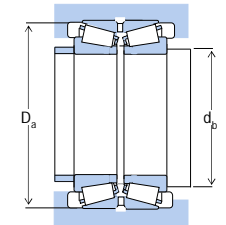
Double-row Taper Roller Bearing (Imperial)



2

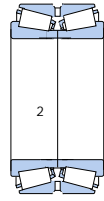
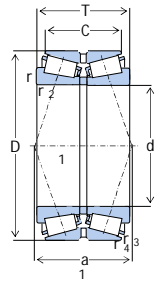


3

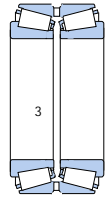


Boundary Dimensions (mm)						Basic Load Ratings (kN)		Designations	Design	Abutment and Fillet Dimensions				Calculation Factors			Mass (kg)	
d	D	T	C	r1.2min	r3.4min	Cr	Cor			da min	Da max	rb max	ra max	e	Y1	Y2	Y0	Refer.
279.4	374.65	104.775	79.375	1.6	6.4	810	2020	L555233/L555210D	1	300	362	1.6	6.4	0.4	1.68	2.5	1.64	28.5
	469.9	200.025	149.225	1.6	9.7	2030	4150	EE722110/722186D	1	336	451	1.6	9.7	0.38	1.8	2.7	1.7	127
	488.95	254	196.85	1	1.3	2950	5700	EE295110/295192D	1	329	469	1	1.3	0.31	2.2	3.2	2.1	177
279.982	380.898	139.7	107.95	1.6	3.6	1140	2820	LM654642/LM654610D	1	293.2	370.2	1.6	3.6	0.43	1.57	2.34	1.53	42.7
280	406.4	149.225	117.475	1.6	6.4	1290	2870	EE128114/128160D	1	315	391	1.6	6.4	0.39	1.8	2.6	1.7	56.9
280.192	406.4	120.65	85.725	1.6	6.8	890	1740	EE101103/101601D	1	315	391	1.6	6.8	0.41	1.7	2.5	1.6	42.5
	406.4	149.225	117.475	1.6	6.8	1290	2870	EE128111/128160D	1	316	391	1.6	6.8	0.39	1.8	2.6	1.7	56.8
285.75	358.775	76.2	53.975	1.6	3.6	430	1150	545112/545142D	1	307	348	1.6	3.6	0.49	1.4	2	1.3	15.8
	380.898	139.7	107.95	1.6	3.6	1168	3040	LM654649/LM654610D	1	316	371	1.6	3.6	0.43	1.6	2.3	1.6	42
	469.9	177.785	127	1.6	9.7	1890	3600	EE921124/921851D	1	338	450	1.6	9.7	0.29	2.3	3.4	2.3	105
288.925	476.25	177.785	127	1.6	9.7	1960	3460	EE921124/921876D	1	310.8	439.8	1.6	9.7	0.29	2.31	3.44	2.26	111
	501.65	203.2	120.65	3.2	6.4	2160	4100	EE147112/147198D	1	350	483	3.2	6.4	0.83	0.81	1.2	0.79	151
	406.4	165.1	130.175	1.6	6.4	1843	4270	M255449/M255410DC	1	324	395	1.6	6.4	0.33	2	3	2	63
288.925	406.4	165.1	130.175	1.6	9.5	1720	4420	M255448/M255410D	1	313.9	387.5	1.6	9.5	0.34	2	2.97	1.95	64.6
	374.65	104.775	79.375	1.6	6.4	810	2020	L555249/L555210D	1	309	362	1.6	6.4	0.4	1.68	2.5	1.64	25.2
292.1	469.9	200.025	149.225	1.6	9.5	2100	4370	EE722115/722186D	1	317.1	430.1	1.6	9.5	0.38	1.79	2.67	1.75	118
	520.7	228.6	165.1	1.6	6.4	2660	4900	EE224115/224205D	1	345	492	1.6	6.4	0.33	2.1	3.1	2	180
	558.8	298.45	222.25	1.6	6.4	4250	8200	EE790114/790223D	1	362	537	1.6	6.4	0.39	1.7	2.5	1.7	312
292.1	558.8	298.45	222.25	1.6	19.8	4040	8000	EE790116/790223D	1	337.7	515	1.6	19.8	0.4	1.71	2.54	1.67	306
298.45	444.5	146.05	98.425	1.6	8	1170	2280	EE291175/291751D	1	339	427	1.6	8	0.38	1.8	2.7	1.7	63.9
299.974	495.3	301.625	247.65	1.6	8	4200	9800	HH258248/HH258210D	1	342	467	1.6	8	0.33	2.03	3.02	1.98	205
300.038	422.275	174.625	136.525	1.6	6.4	1950	4520	HM256849/HM256810D	1	337	411	1.6	6.4	0.33	2	3	2	71.5
300.787	438.048	161.925	123.825	1.6	6.4	1510	3450	329115/329173D	1	320.6	411.6	1.6	6.4	0.33	2.04	3.04	2	74.4

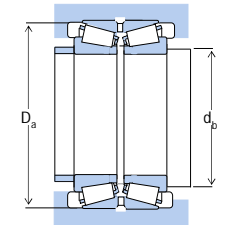
Double-row Taper Roller Bearing (Imperial)



2

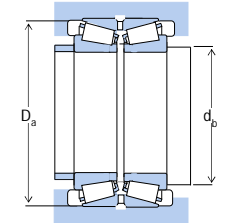
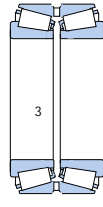
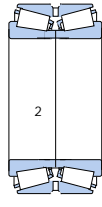
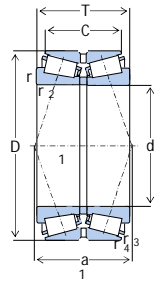


3



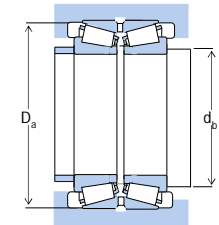
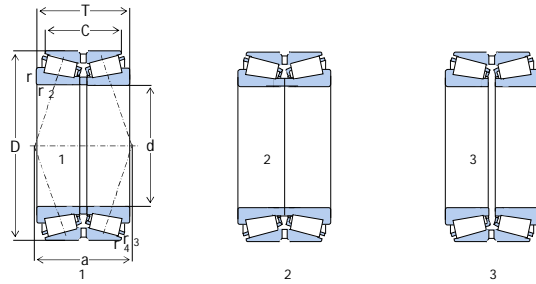
d	Boundary Dimensions (mm)					Basic Load Ratings (kN)		Designations	Design	Abutment and Fillet Dimensions				Calculation Factors			Mass (kg)	
	D	T	C	r1.2min	r3.4min	Cr	Cor			da min	Da max	rb max	ra max	e	Y1	Y2	Y0	Refer.
304.8	393.7	107.95	82.55	1.6	6.4	910	2280	L357049/L357010D	1	334	385	1.6	6.4	0.36	1.9	2.8	1.8	30
	393.7	107.95	82.55	1.6	6.4	910	2280	L357049NW/L357010D	2	335	385	1.6	6.4	0.36	1.9	2.8	1.8	30.2
	412.75	123.825	92.075	1.6	6.4	1090	2520	EE109120/109163D	1	337	401	1.6	6.4	0.43	1.6	2.4	1.6	42.1
	438.048	161.925	123.825	1.6	6.4	1510	3450	329120/329173D	1	324.6	411.6	1.6	6.4	0.33	2.04	3.04	2	72
	438.048	165.1	120.65	1.6	6.4	1380	3200	EE129120X/129120D	1	334	411	1.6	6.4	0.42	1.62	2.42	1.59	71.4
	444.5	139.7	98.425	1.6	6.4	1240	2760	291201/291751D	1	324.6	413.5	1.6	6.4	0.38	1.79	2.66	1.75	64.5
304.8	444.5	146.05	98.425	1.6	8	1170	2280	EE291201/291751D	1	342	427	1.6	8	0.38	1.8	2.7	1.7	60.5
	495.3	162.245	120.65	1.6	6.4	1750	3220	EE941205/941951XD	1	324.6	455.7	1.6	6.4	0.4	1.68	2.5	1.64	107
	495.3	168.595	127	1.6	6.4	1840	3550	EE941205/941953D	1	352	471	1.6	6.4	0.4	1.7	2.5	1.7	111
	495.3	195.85	146.05	1.6	16	2180	4680	EE724119/724196D	1	343.8	457.4	1.6	16	0.4	1.68	2.5	1.64	135
	495.3	196.85	146.05	1.6	16	2130	4300	EE724120/724196D	1	364	474	1.6	16	0.4	1.7	2.5	1.6	130
	558.8	298.45	222.25	1.2	1.6	4250	8200	EE790120/790223D	1	364	537	1.2	1.6	0.39	1.7	2.5	1.7	298
311.15	558.8	190.5	111.125	3.2	9.7	2140	4250	EE148122/148221D	1	377	521	3.2	9.7	0.88	0.77	1.1	0.75	173
317.5	444.5	146.05	98.425	1.6	8	1170	2280	EE291250/291751D	1	349	427	1.6	8	0.38	1.8	2.7	1.7	53.4
	447.675	180.975	146.05	1.6	3.6	2210	5130	HM259049/HM259010D	1	353	435	1.6	3.6	0.33	2	3	2	84
	622.3	304.8	174.625	3.2	14.3	3900	7550	H961649/H961610D	1	414	597	3.2	14.3	0.94	0.72	1.1	0.7	386
329.87	533.4	165.1	114.3	1.6	4.7	1810	3600	EE971298/972102D	1	383	510	1.6	4.7	0.33	2	3	2	125
	533.4	174.635	123.825	1.6	4.7	1810	3600	EE971298/972103D	1	383	510	1.6	4.7	0.33	2	3	2	130
	546.1	177.8	152.4	3.2	4.7	1810	3600	EE971298/972151D	1	383	517	3.2	4.7	0.33	2	3	2	151
330.2	482.6	133.35	88.9	1.6	7	1210	2840	EE161300/161901	1	377	465	1.6	7	0.5	1.4	2	1.3	73.6
	482.6	133.35	88.9	1.6	7	1050	2500	EE161300/161901D	1	351.4	453.4	1.6	7	0.5	1.35	2.01	1.32	74.8
	482.6	177.8	127	1.6	3.2	2130	4750	EE526130/526191D	1	370	465	1.6	3.2	0.4	1.7	2.5	1.6	100
333.375	469.9	190.5	152.4	1.6	6.4	2340	5400	HM261049/HM261010D	1	375	457	1.6	6.4	0.33	2	3	2	98
342.9	457.098	142.875	101.6	1.6	3.2	1170	3050	LM961548/LM961511D	1	378	444	1.6	3.2	0.71	0.95	1.4	0.93	59.4
	533.4	165	114.3	1.6	4.7	1810	3600	EE971354/972102D	1	390	510	1.6	4.7	0.33	2	3	2	116
	533.4	174.63	123.825	1.6	4.8	2261	4180	EE971354/972103D	1	390	510	1.6	4.8	0.33	2	3	2	130
	546.1	177.8	152.4	3.2	4.7	1810	3600	EE971354/972151D	1	390	517	3.2	4.7	0.33	2	3	2	141

Double-row Taper Roller Bearing (Imperial)



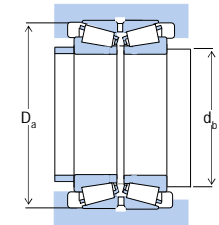
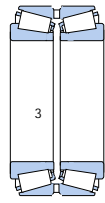
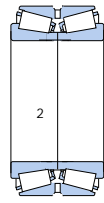
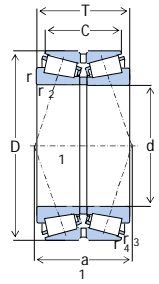
Boundary Dimensions (mm)						Basic Load Ratings (kN)		Designations	Design	Abutment and Fillet Dimensions				Calculation Factors			Mass (kg)	
d	D	T	C	r1.2min	r3.4min	Cr	Cor			da min	Da max	rb max	ra max	e	Y1	Y2	Y0	Refer.
346.075	482.6	133.35	88.9	1.6	7	1210	2840	EE161363/161901D	1	385	465	1.6	7	0.5	1.4	2	1.3	64.8
	488.95	200.025	158.75	1.6	6.4	2500	5980	HM262749/HM262710D	1	386	475	1.6	6.4	0.33	2	3	2	110
349.25	514.35	193.675	152.4	1.6	6.4	2270	5450	EE333137/333203D	1	394	495	1.6	6.4	0.37	1.8	2.7	1.8	130
354.013	482.6	133.35	88.9	1.6	7	1050	2500	EE161394/161901D	1	375.2	453.4	1.6	7	0.5	1.35	2.01	1.32	61.6
355.6	444.5	136.525	111.125	1.6	3.6	1180	3460	L163149/L163110D	1	381	435	1.6	3.6	0.31	2.2	3.3	2.2	46
	482.6	133.35	88.9	1.6	7	1210	2840	EE161400/161901D	1	390	465	1.6	7	0.5	1.4	2	1.3	59.3
	501.65	155.575	107.95	1.6	6.4	1740	4040	EE231400/231976D	1	403	489	1.6	6.4	0.44	1.5	2.3	1.4	87
	514.35	193.675	152.4	1.6	6.4	2270	5450	EE333140/333203D	1	397	495	1.6	6.4	0.37	1.8	2.7	1.8	125
368.249	523.875	214.312	169.862	1.6	6.4	2980	7130	HM265049/HM265010D	1	400	499	1.6	6.4	0.33	2	3	2	140
368.3	596.9	203.2	133.35	2.3	9.7	2930	5560	EE181453/182351D	1	428	570	2.3	9.7	0.41	1.7	2.5	1.6	188
371.475	501.65	155.575	107.95	1.6	6.4	1740	4040	231462/231976DC	1	411	489	1.6	6.4	0.44	1.5	2.3	1.4	76.5
	514.35	155.575	107.95	1.6	6.4	1360	3300	EE231462/232026D	1	411	495	1.6	6.4	0.44	1.5	2.3	1.5	83.8
377.825	508	139.7	88.9	1.6	6.4	1180	2980	EE192148/192201D	1	397.6	479.7	1.6	6.4	0.53	1.27	1.89	1.24	68.8
381	508	139.7	88.9	1.6	6.4	1180	2980	EE192150/192201D	1	400.8	479.7	1.6	6.4	0.53	1.27	1.89	1.24	66.7
	546.1	222.25	177.8	1.6	6.4	3150	8000	HM266447/HM266410D	1	428	531	1.6	6.4	0.33	2	3	2	162
	590.55	244.475	193.675	1.6	6.4	3100	8350	HM268730/HM268710D	1	425	561	1.6	6.4	0.33	2.03	3.02	1.98	218
384.175	441.325	68.262	52.388	1.6	6.4	360	1060	LL365340/LL365310D	1	399	433	1.6	6.4	0.34	1.99	2.96	1.94	14.1
	546.1	222.25	177.8	1.6	6.4	3030	6980	HM266449/HM266410D	1	429	531	1.6	6.4	0.33	2	3	2	161
385.762	514.35	177.8	139.7	1.6	6.4	2120	5550	LM665949/LM665910D	1	415	495	1.6	6.4	0.42	1.61	2.4	1.58	90
393.7	539.75	142.875	101.6	1.6	6.4	1400	3300	EE234154/234213D	1	438	526	1.6	6.4	0.48	1.4	2.1	1.4	84.7
	546.1	158.75	117.475	1.6	6.4	1400	3300	EE234154/234216D	1	438	529	1.6	6.4	0.48	1.4	2.1	1.4	97
	558.8	146.05	104.775	1.6	6.4	1490	3810	EE234154/234221D	1	413.5	515	1.6	6.4	0.48	1.42	2.11	1.39	104
	560.248	146.05	104.78	1.6	6.4	1400	3300	EE234154/234223D	1	438	536	1.6	6.4	0.48	1.4	2.1	1.4	100
396.875	539.75	142.875	101.6	1.6	6.4	1400	3300	EE234156/234213D	1	439	526	1.6	6.4	0.48	1.4	2.1	1.4	82.5

Double-row Taper Roller Bearing (Imperial)



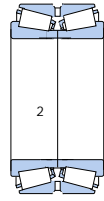
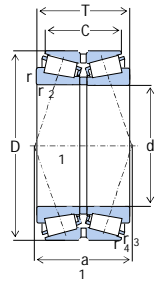
Boundary Dimensions (mm)						Basic Load Ratings (kN)		Designations	Design	Abutment and Fillet Dimensions				Calculation Factors			Mass (kg)	
d	D	T	C	r1.2min	r3.4min	Cr	Cor			da min	Da max	rb max	ra max	e	Y1	Y2	Y0	Refer.
396.875	546.1	158.75	117.475	1.6	6.4	1400	3300	EE234156/234216D	1	439	529	1.6	6.4	0.48	1.4	2.1	1.4	94.6
	558.8	146.05	104.775	1.6	6.4	1490	3810	EE234156/234221D	1	416.7	515	1.6	6.4	0.48	1.42	2.11	1.39	102
406.4	539.75	142.875	101.6	1.6	6.4	1600	4180	EE234160/234213D	1	444	526	1.6	6.4	0.48	1.4	2.1	1.4	82.6
	546.1	158.75	117.475	1.6	6.4	1400	3300	EE234160/234216D	1	444	529	1.6	6.4	0.48	1.4	2.1	1.4	94.2
	546.1	185.738	144.462	1.6	6.4	2270	5950	M667944/M667910D	1	449	536	1.6	6.4	0.42	1.6	2.4	1.6	113
	546.1	185.738	147.638	1.6	6.4	2270	5950	M667944/M667911D	1	449	537	1.6	6.4	0.42	1.6	2.4	1.6	114
	558.8	146.05	104.775	1.6	6.4	1490	3810	EE234160/234221D	1	427.2	515	1.6	6.4	0.48	1.42	2.11	1.39	95
	574.675	157.162	106.362	1.6	6.8	1580	3700	EE285160/285228D	1	453	552	1.6	6.8	0.5	1.4	2	1.3	111
	590.55	228.6	174.625	1.6	9.5	3060	7070	EE833160X/833233D	1	433.4	560	1.6	9.5	0.32	2.08	3.1	2.04	188
	609.524	177.8	133.35	1.6	8	2590	5600	EE736160/736239D	1	459	585	1.6	8	0.35	1.9	2.9	1.9	163
	609.6	187.325	123.825	1.6	6.8	2520	5500	EE911600/912401D	1	459	586	1.6	6.8	0.38	1.8	2.6	1.7	172
	673.1	192.639	127	1.6	6.4	3000	6200	EE571602/572651D	1	479	646	1.6	6.4	0.4	1.7	2.5	1.7	251
673.1	192.639	152.4	1.6	6.4	2530	5240	EE571602/572653D	1	427.2	630	1.6	6.4	0.4	1.68	2.5	1.64	242	
409.575	546.1	185.738	147.638	1.6	6.4	2280	5740	M667948/M667911D	1	430.4	530	1.6	6.4	0.42	1.62	2.42	1.59	110
	574.675	157.162	106.362	1.6	6.8	1580	3700	EE285162/285228D	1	455	552	1.6	6.8	0.5	1.4	2	1.3	109
411.162	609.6	187.325	123.825	1.6	6.8	2520	5500	EE911618/912401D	1	461	586	1.6	6.8	0.38	1.8	2.6	1.7	167
415.925	590.55	244.475	193.675	1.6	6.4	3710	9170	M268749/M268710DC	1	465	576	1.6	6.4	0.33	2	3	2	205
425.45	685.698	311.15	234.95	3.2	12.7	5200	11400	EE328167/328268D	1	497	661	3.2	12.7	0.4	1.7	2.5	1.7	410
	603.25	153.289	98.425	1.6	6.4	1680	3770	EE241693/242376D	1	451	565	1.6	6.4	0.53	1.28	1.91	1.26	109
430.213	603.25	159.639	104.775	1.6	6.4	1680	3770	EE241693/242377D	1	451	565	1.6	6.4	0.53	1.28	1.91	1.26	113
	571.5	155.575	111.125	1.6	3.2	1880	4850	LM869448/LM869410D	1	471	560	1.6	3.2	0.54	1.25	1.8	1.3	100
431.8	603.25	153.289	98.425	1.6	6.4	1680	3770	EE241701/242376D	1	452.6	565	1.6	6.4	0.53	1.28	1.91	1.26	107
	603.25	159.639	104.775	1.6	6.4	1670	4100	EE241701/242377D	1	446	561	1.6	6.4	0.53	1.28	1.91	1.25	124
673.1	192.639	127	1.6	6.4	3000	6200	EE571703/572651D	1	491	646	1.6	6.4	0.4	1.7	2.5	1.7	225	
	673.1	192.639	152.4	1.6	6.4	3000	6200	EE571703/572653D	1	491	649	1.6	6.4	0.4	1.7	2.5	1.7	235

Double-row Taper Roller Bearing (Imperial)

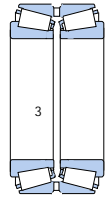


Boundary Dimensions (mm)						Basic Load Ratings (kN)		Designations	Design	Abutment and Fillet Dimensions				Calculation Factors			Mass (kg)	
d	D	T	C	r1.2min	r3.4min	Cr	Cor			da min	Da max	rb max	ra max	e	Y1	Y2	Y0	Refer.
441.325	660.4	195.262	138.112	1.6	10.4	2650	5550	EE737173/737261D	1	499	636	1.6	10.4	0.37	1.8	2.7	1.8	198
447.675	635	257.175	206.375	1.6	6.4	4180	10450	M270749/M270710D	1	502	617	1.6	6.4	0.33	2	3	2	245
	649.924	257.175	206.375	1.6	6.4	3930	10500	M270749/M270720D	1	468.5	605	1.6	6.4	0.33	2.03	3.02	1.98	272
457.2	596.9	165.1	120.65	1.6	9.7	2050	5220	EE244180/244236D	1	500	581	1.6	9.7	0.4	1.7	2.5	1.6	110
	660.4	195.262	138.112	1.6	10.4	2650	5550	EE737181/737261D	1	507	636	1.6	10.4	0.37	1.8	2.7	1.8	182
	730.148	254	177.8	1.6	9.7	3900	8350	EE671801/672875D	1	527	699	1.6	9.7	0.39	1.7	2.6	1.7	368
479.425	679.45	276.225	222.25	1.6	6.4	4760	12060	M272749/M272710D	1	535	663	1.6	6.4	0.33	2	3	2	302
482.6	615.95	184.15	146.05	1.6	6.4	2380	6900	LM272249/LM272210D	1	522	604	1.6	6.4	0.37	1.8	2.7	1.8	126
	634.873	177.8	142.875	1.6	6.4	2290	6600	EE243190/243251D	1	530	622	1.6	6.4	0.34	2	2.9	1.9	144
488.671	660.4	206.375	158.75	1.6	6.4	2920	7550	EE640191/640261D	1	535	643	1.6	6.4	0.31	2.2	3.3	2.1	185
	666.674	206.375	158.75	1.6	6.4	3100	7910	EE640191/640262D	1	510	630	1.6	6.4	0.31	2.2	3.27	2.15	194
488.95	634.873	180.975	136.525	1.6	6.4	2350	6350	LM772748/LM772710D	1	532	623	1.6	6.4	0.47	1.4	2.1	1.4	134
	660.4	206.375	158.75	1.6	6.4	2920	7550	EE640192/640261D	1	535	643	1.6	6.4	0.31	2.2	3.3	2.1	185
	666.674	206.375	158.75	1.6	6.4	3100	7910	EE640192/243251D	1	510	630	1.6	6.4	0.31	2.2	3.27	2.15	194
489.026	634.873	177.8	142.875	1.6	6.4	2610	6980	EE243192/243251D	1	533	622	1.6	6.4	0.35	1.9	2.9	1.8	130
498.475	634.873	177.8	142.875	1.6	6.4	2610	6980	EE243196/243251D	1	538	622	1.6	6.4	0.35	1.9	2.9	1.8	125
501.65	711.2	292.1	231.775	1.6	6.4	4810	12800	M274149/M274110D	1	525	680	1.6	6.4	0.33	2.03	3.02	1.98	346
505.968	736.6	186.502	114.3	1.6	6.4	2780	6800	EE981992/982901	1	571	712	1.6	6.4	0.48	1.4	2.1	1.4	242
508	736.6	186.502	114.3	1.6	6.4	2780	6800	EE982003/982901	1	572	712	1.6	6.4	0.48	1.4	2.1	1.4	240
	838.2	304.8	222.25	3.2	9.7	6200	14100	EE426200/426331D	1	595	804	3.2	9.7	0.48	1.4	2.1	1.4	630
514.35	736.6	186.502	114.3	1.6	6.4	2520	5150	EE982028/982901D	1	540	690	1.6	6.4	0.48	1.42	2.11	1.39	213
520.7	736.6	186.502	114.3	1.6	6.4	2880	6370	EE982051/982901D	1	579	712	1.6	6.4	0.48	1.4	2.1	1.4	210

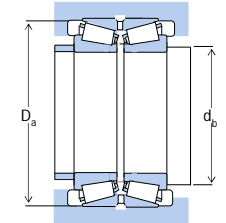
Double-row Taper Roller Bearing (Imperial)



2

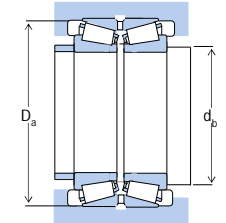
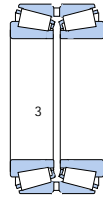
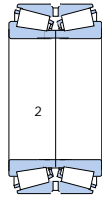
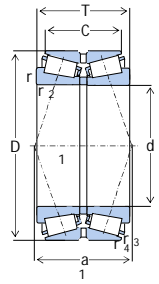


3



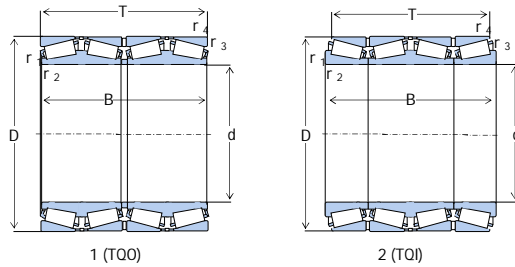
Boundary Dimensions (mm)						Basic Load Ratings (kN)		Designations	Design	Abutment and Fillet Dimensions				Calculation Factors			Mass (kg)	
d	D	T	C	r1.2min	r3.4min	Cr	Cor			da min	Da max	rb max	ra max	e	Y1	Y2	Y0	Refer.
533.4	784.225	190.5	120.65	1.6	6.4	3000	7000	EE522102/523088D	1	596	752	1.6	6.4	0.48	1.4	2.1	1.4	276
	812.8	269.875	187.325	3.2	9.7	4950	11300	EE626210/626321D	1	607	783	3.2	9.7	0.44	1.5	2.3	1.5	465
534.988	622.3	111.125	82.55	1.6	3.6	1000	3080	LL475048/LL475011D	1	555	610	1.6	3.6	0.37	1.83	2.73	1.79	47.1
536.575	761.873	311.15	247.65	1.6	6.4	5960	15200	M276449 /M276410DG2	1	576	726	1.6	6.4	0.33	2	3	2	430
546.1	736.6	165.1	114.3	3.2	6.4	2190	5200	EE542215/542291D	1	598	715	3.2	6.4	0.51	1.3	2	1.3	168
549.275	692.15	174.625	136.525	3.2	6.4	2320	6950	L476549/L476510D	1	579	666	3.2	6.4	0.38	1.79	2.67	1.75	135
558.8	736.6	165.1	114.3	3.2	6.4	2050	5400	EE542220/542291D	1	594	705	3.2	6.4	0.51	1.32	1.96	1.29	166
558.8	736.6	187.328	138.112	1.6	6.4	3240	7880	EE843220/843291D	1	591	708	1.6	6.4	0.35	1.9	2.9	1.8	190
	736.6	225.425	177.8	1.6	6.4	4080	11020	LM377449/LM377410DC	1	591	708	1.6	6.4	0.35	1.9	2.9	1.8	150
	742.95	187.328	138.113	1.6	6.4	2960	8050	EE843220/843292D	1	580	710	1.6	6.4	0.34	1.97	2.93	1.93	206
565.15	863.6	317.5	228.6	3.2	8	6550	15200	EE929225/929341D	1	638	832	3.2	8	0.34	2	2.9	1.9	613
571.5	812.8	333.375	263.525	1.6	6.4	6120	15200	M278749 /M278710DAG2	1	615	774	1.6	6.4	0.33	2	3	2	520
588.8	736.6	165.1	114.3	3.2	6.4	2190	5200	EE542220/542291D	1	604	715	3.2	6.4	0.51	1.3	2	1.3	154
	736.6	187.328	138.112	1.6	6.4	3000	7800	EE843220/843291D	1	606	718	1.6	6.4	0.34	2	2.9	1.9	195
	736.6	225.425	177.8	1.6	6.4	3950	11200	LM377449/LM377410D	1	607	720	1.6	6.4	0.35	1.9	2.9	1.9	247
	742.95	187.328	138.112	1.6	6.4	3000	7800	EE843220/843292D	1	606	721	1.6	6.4	0.34	2	2.9	1.9	203
602.945	787.4	206.375	158.75	1.6	6.4	3820	10070	649237/649311D	1	655	771	1.6	6.4	0.37	1.8	2.7	1.8	240
	793.75	206.375	158.75	1.6	6.4	3450	9600	EE649237/649313D	1	655	774	1.6	6.4	0.37	1.8	2.7	1.8	253
607.72	787.4	206.375	158.75	1.6	6.4	3450	9600	EE649239/649311D	1	658	771	1.6	6.4	0.37	1.8	2.7	1.8	237
	793.75	206.375	158.75	1.6	6.4	3390	9940	EE649239/649313D	1	630	755	1.6	6.4	0.37	1.82	2.7	1.78	254
609.6	717.55	127	95.25	1.6	6.4	1530	4600	LL579749/LL579710D	1	642	708	1.6	6.4	0.4	1.7	2.5	1.6	81.7
	787.4	206.375	158.75	1.6	6.4	3820	10070	EE649240/649311D	1	659	771	1.6	6.4	0.37	1.8	2.7	1.8	232

Double-row Taper Roller Bearing (Imperial)



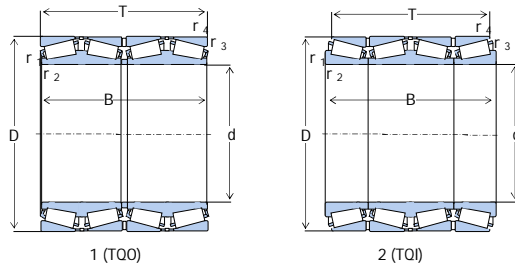
Boundary Dimensions (mm)						Basic Load Ratings (kN)		Designations	Design	Abutment and Fillet Dimensions				Calculation Factors			Mass (kg)	
d	D	T	C	r1.2min	r3.4min	Cr	Cor			da min	Da max	rb max	ra max	e	Y1	Y2	Y0	Refer.
609.6	793.75	206.375	158.75	1.6	6.4	3450	9600	EE649240/649313D	1	659	774	1.6	6.4	0.37	1.8	2.7	1.8	243
	812.8		146.05	3.2	6.4	3400	8360	EE743240/743321D	1	664	785	3.2	6.4	0.33	2	3	2	250
660.4	812.8	203.2	158.75	3.2	6.4	3250	10300	L281148/L281110DA	1	693	789	3.2	6.4	0.37	1.8	2.69	1.76	199
	854.924		135.9	2.4	9.5	3120	8010	EE749260/749335D	1	690	820	2.4	9.5	0.35	1.92	2.86	1.88	238
673.1	793.75	133.35	98.426	1.6	6.4	1750	5850	673KBE7951	1	710	781	1.6	6.4	0.36	1.9	2.8	1.8	108
685.8	876.3	200.025	152.4	1.6	6.4	3510	10800	EE655270/655346D	1	710	850	1.6	6.4	0.42	1.62	2.42	1.59	280
711.2	914.4	190.5	139.7	1.6	6.4	3610	9170	EE755280/755361D	1	767	891	1.6	6.4	0.37	1.8	2.7	1.8	265
723.9	914.4	187.325	139.7	1.6	3.2	3020	8930	EE755285/75361D	1	745	880	1.6	3.2	0.38	1.78	2.65	1.74	266
749.3	965.2	187.325	133.35	1.6	6.4	3130	9590	EE752295/752381D	1	775	920	1.6	6.4	0.4	1.68	2.5	1.64	320
749.3	990.6	338	265	3.2	6.4	7850	23900	LM283649/LM283610D	1	775	960	3.2	6.4	0.32	2.12	3.15	2.07	681
762	965.2	187.325	133.35	1.6	6.4	3580	9800	EE752300/752381D	1	815	943	1.6	6.4	0.4	1.7	2.5	1.6	290
774.7	965.2	187.325	133.35	1.6	6.4	3580	9800	EE752305/752381D	1	822	943	1.6	6.4	0.4	1.7	2.5	1.6	265
812.8	1016	190.5	146.05	3.2	6.4	3580	10200	EE762320/762401D	1	876	994	3.2	6.4	0.43	1.6	2.3	1.6	350
	1066.8		146.05	3.2	6.4	3580	10200	EE762320/762420XD	1	867	1019	3.2	6.4	0.43	1.6	2.3	1.6	445
914.4	1066.8	139.7	101.6	3.2	6.4	2460	8000	LL686947/LL686910D	1	955	1048	3.2	6.4	0.4	1.7	2.5	1.6	190
939.8	1270	547.2	317.5	3.2	12.7	9200	27550	940KBE1270-1	1	976	1250	3.2	12.7	0.88	0.77	1.15	0.8	1540
977.9	1130.3	139.7	101.6	3.2	6.4	2510	8750	LL687949/LL687910D	1	1019	1112	3.2	6.4	0.43	1.6	2.3	1.5	210
1270	1435.1	146.05	101.6	3.2	6.4	2800	11100	LL889049/LL889010D	1	1315	1413	3.2	6.4	0.57	1.2	1.8	1.2	303
1431.925	1584.325	130.175	79.375	3.2	6.4	2440	8850	LL989349/LL989310D	1	1460	1560	3.2	6.4	0.62	1.09	1.62	1.06	259
1562.1	1086.575	279.4	196.85	3.2	9.7	7210	28000	EE299615/299711D	1	1632	1777	3.2	9.7	0.48	1.4	2.1	1.4	1045

Four Row Tapered Roller Bearing



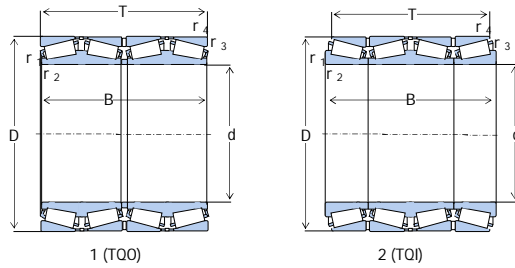
Boundary Dimensions (mm)			Designations		Design	Calculation Factors					Mass (kg)
d	D	T	New	Old		e	Y1	Y2	Y0	K	Refer.
100	140	104	100TQ0140-1		1	0.29	2.3	3.4	2.3	2.01	4.9
	165	112	100TQ0165-1		1	0.35	1.95	2.9	1.91	1.67	8.6
	170	155	100TQ0170-1		1	0.32	2.1	3.2	2.1	1.82	14
105	150	110	105TQ0150-1		1	0.4	1.7	2.5	1.7	1.46	6.2
	160	100	105TQ0160-1		1	0.47	1.43	2.12	1.4	1.24	6.9
	160	150	105TQ0160-1		1	0.37	1.8	2.7	1.8	1.58	10.8
	190	210	105TQ0190-1		1	0.35	1.9	2.9	1.9	1.67	26
107.95	146.05	106.365	L521949DE/L521910/L521910DE		1	0.39	1.7	2.6	1.7	1.50	5.1
110	150	150	110TQ0150-1		1	0.18	3.66	5.46	3.58	3.24	7.1
	155	114	110TQ0155-1		1	0.29	2.3	3.4	2.3	2.01	6.6
	160	115	110TQ0160-1		1	0.43	1.6	2.3	1.5	1.36	7.4
	180	120	110TQ0180-1		1	0.39	1.7	2.6	1.7	1.50	12.1
	180	154	110TQ0180-2		1	0.39	1.74	2.59	1.7	1.50	15.4
	180	170	110TQ0180-3		1	0.33	2.03	3.02	1.98	1.77	16.7
114.3	190.5	207.963	71451D/71750/71751D		1	0.42	1.62	2.42	1.59	1.39	23.3
115	160	120	115TQ0160-1		1	0.39	1.7	2.6	1.7	1.50	7.4
120	170	124	120TQ0170-1		1	0.32	2.1	3.2	2.1	1.82	8.5
	180	100	120TQ0180-1		1	0.4	1.7	2.5	1.7	1.46	8.5
	200	132	120TQ0200-1		1	0.39	1.7	2.6	1.7	1.50	16.5
	210	174	120TQ0210-1		1	0.33	2.03	3.02	1.98	1.77	24.6
120.65	161.925	106.365	L624549D/L624514/L624514D		1	0.43	1.6	2.3	1.5	1.36	6.1
	174.625	139.703	M224749DW/M224710/M224710D		1	0.33	2	3	2	1.76	11
127	182.562	158.75	48290DW/48220/48220D		1	0.3	2.3	3.4	2.2	1.91	14
	183	160	127TQ0183-1		1	0.31	2.21	3.29	2.16	1.88	13.8
	196.85	193.675	67388D/67322/67322D		1	0.34	1.96	2.92	1.92	1.72	21.6
130	184	134	130TQ0184-1		1	0.31	2.2	3.2	2.1	1.88	11.1
	190	170	130TQ0190-1		1	0.33	2.03	3.02	1.98	1.77	16
	200	112	130TQ0200-1		1	0.4	1.7	2.5	1.7	1.46	12.5

Four Row Tapered Roller Bearing



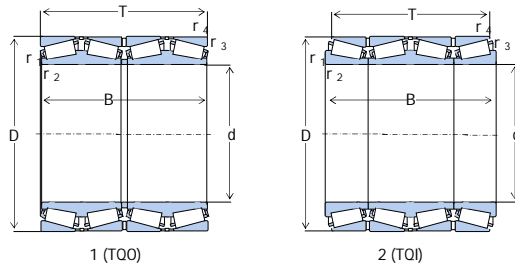
Boundary Dimensions (mm)			Designations		Design	Calculation Factors					Mass (kg)
d	D	T	New	Old		e	Y1	Y2	Y0	K	Refer.
130	210	136	130TQ0210-1		1	0.39	1.7	2.6	1.7	1.50	17.2
130.175	196.85	200.025	67391D/67322/67323D		1	0.34	1.96	2.92	1.92	1.72	21.1
	222.25	127	73512D/73875/73876D		1	0.44	1.54	2.3	1.51	1.33	19.8
133.35	196.85	193.675	67390D/67322/67322D		1	0.34	1.96	2.92	1.92	1.72	19.4
135	180	160	135TQ0180-1		1	0.28	2.4	3.6	2.4	2.08	11.1
	185	140	135TQ0185-1		1	0.29	2.3	3.4	2.3	2.01	10.9
	195	160	135TQ0195-1		1	0.33	2.03	3.02	1.98	1.77	15.4
136.525	190.5	161.925	48393D/48320/48320D		1	0.32	2.1	3.13	2.06	1.82	14.2
139.7	200.025	160.338	48685D/48620/48620D	77928	1	0.33	2	3	2	1.74	15.5
139.7	200.025	160.34	48680DW/48620/48620D		1	0.34	2.0	3.0	1.9	1.74	17
140	198	144	140TQ0198-1		1	0.43	1.6	2.3	1.5	1.36	13.6
	210	111	140TQ0210-1		1	0.4	1.7	2.5	1.7	1.46	13
	210	114	140TQ0210-2		1	0.4	1.7	2.5	1.7	1.46	13.8
	210	115	140TQ0210-3		1	0.4	1.7	2.5	1.7	1.46	13.3
	225	145	140TQ0225-1		1	0.4	1.7	2.5	1.7	1.46	20.9
	270	290	140TQ0270-1		1	0.55	1.2	1.8	1.2	1.06	75.5
	145	195	130	145TQ0195-1		1	0.31	2.2	3.3	2.1	1.88
146.05	244.475	187.325	81576D/81962/81963D		1	0.35	1.93	2.88	1.89	1.67	34.1
150	210	155	150TQ0210-1		1	0.4	1.7	2.5	1.7	1.46	16.2
	210	165		2077930	1	0.27	2.5	3.7	2.4	2.16	21.2
	210	190	150TQ0210-2		1	0.39	1.7	2.5	1.7	1.50	20.3
	212	155	150TQ0212-1		1	0.4	1.7	2.5	1.7	1.46	17
	225	120	150TQ0225-1		1	0.4	1.7	2.5	1.7	1.46	16.3
	225	136			77730	1	0.33	2.03	3.02	1.98	1.77
250	170	150TQ0250-1		1	0.4	1.7	2.5	1.7	1.46	32.2	
152.4	222.25	174.625	M231649D/M231610/M231610D		1	0.33	2.03	3.02	1.98	1.77	22.5
152.4	244.475	187.325	81601D/81962/81963D		1	0.35	1.93	2.88	1.89	1.67	31.9

Four Row Tapered Roller Bearing



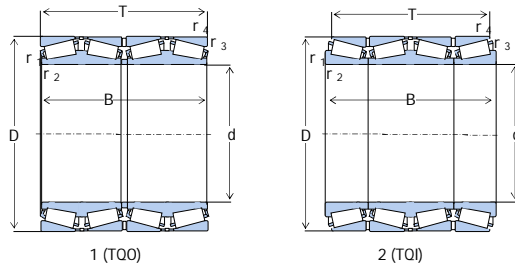
Boundary Dimensions (mm)			Designations		Design	Calculation Factors					Mass (kg)	
d	D	T	New	Old		e	Y1	Y2	Y0	K	Refer.	
152.781	244.475	187.325	81603D/81962/81963D		1	0.35	1.93	2.88	1.89	1.67	31.7	
158.75	304.8	233.365	EE280625D/281200/281201D		1	0.36	1.87	2.79	1.83	1.62	78.2	
160	226	165	160TQ0226-1		1	0.29	2.3	3.4	2.3	2.01	20.5	
	240	130	160TQ0240-1		1	0.4	1.7	2.5	1.7	1.46	19.9	
	240	145	160TQ0240-2		1	0.33	2.03	3.02	1.98	1.77	22.2	
	250	145	160TQ0250-1		1	0.33	2.03	3.02	1.98	1.77	25.3	
	265	173	160TQ0265-1		1	0.4	1.7	2.5	1.7	1.46	36.2	
165	270	180	160TQ0270-1		1	0.4	1.7	2.5	1.7	1.46	40.3	
	270	240	165TQ0270-1		1	0.36	1.9	2.8	1.8	1.62	55	
165.1	225.425	168.275	46791D/46720/46720D		1	0.38	1.77	2.63	1.73	1.54	19.8	
168.275	247.65	192.088	67782D/67720/67721D		1	0.44	1.54	2.29	1.5	1.33	31.7	
170	230	175	170TQ0230-1		1	0.34	2	2.9	1.9	1.72	20.6	
	240	175	170TQ0240-1		1	0.4	1.7	2.5	1.7	1.46	24.5	
	260	230		2077134		1	0.31	2.2	3.2	2.1	1.88	43
	260	144	170TQ0260-1		1	0.4	1.7	2.5	1.7	1.46	25.7	
	260	160	170TQ0260-2		1	0.39	1.7	2.6	1.7	1.50	29.5	
	280	181	170TQ0280-1		1	0.4	1.7	2.5	1.7	1.46	42.3	
	280	185	170TQ0280-2		1	0.4	1.7	2.5	1.7	1.46	43	
177.8	247.65	188.913	67790D/67720/67720D		1	0.44	1.54	2.29	1.5	1.33	27.5	
	247.65	192.088	67790DW/67720/67721D		1	0.44	1.5	2.3	1.4	1.33	29	
	273.05	234.947	82681D/82622/82622D		1	0.52	1.29	1.92	1.26	1.12	46.9	
	279.4	234.947	82681D/82620/82620D		1	0.52	1.29	1.92	1.26	1.12	51.9	
	285.75	222.245	EE91700D/91112/91113XD		1	0.43	1.57	2.34	1.53	1.36	53.7	
	288.925	263.525	94706D/94113/94114D		1	0.47	1.44	2.15	1.41	1.24	67.4	
288.925	266.7	HM237545D/HM237510/HM237511XD		1	0.32	2.12	3.15	2.07	1.82	64.9		
177.8	298.45	263.525	94706D/94118/94118D		1	0.47	1.44	2.15	1.41	1.24	76.4	
	304.8	233.362	EE280700D/281200/281201D		1	0.36	1.9	2.8	1.8	1.62	68	

Four Row Tapered Roller Bearing



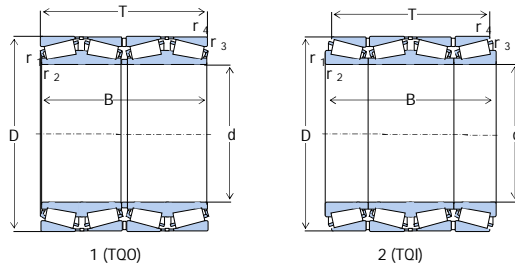
Boundary Dimensions (mm)			Designations		Design	Calculation Factors					Mass (kg)
d	D	T	New	Old		e	Y1	Y2	Y0	K	Refer.
180	250	185	180TQ0250-1		1	0.44	1.5	2.3	1.5	1.33	27.9
	254	185	180TQ0254-1		1	0.47	1.4	2.1	1.4	1.24	29.2
	260	160	180TQ0260-1		1	0.37	1.8	2.7	1.8	1.58	27.1
	260	200	180TQ0260-2		1	0.35	1.9	2.8	1.9	1.67	34.1
	280	158	180TQ0280-1		1	0.35	1.9	2.9	1.9	1.67	35.4
	280	180		77736	1	0.45	1.5	2.2	1.5	1.30	39.6
	280	181	180TQ0280-2		1	0.33	2.03	3.02	1.98	1.77	39.3
	300	202	180TQ0300-1		1	0.4	1.7	2.5	1.7	1.46	54.5
	300	280	180TQ0300-2		1	0.34	2	3	1.9	1.72	79.8
	180.975	269.875	211.138	M238843D/M238810/M238810D		1	0.33	2.03	3.02	1.98	1.77
187.325	269.875	211.138	M238849D/M238810/M238810D		1	0.33	2.03	3.02	1.98	1.77	39.6
187.325	282.575	190.05	67975D/67920/67921XD		1	0.51	1.33	1.97	1.3	1.14	43.2
190	260	200	190TQ0260-1		1	0.36	1.9	2.8	1.8	1.62	29
	268	196	190TQ0268-1		1	0.4	1.7	2.5	1.7	1.46	34.1
	270	160	190TQ0270-1		1	0.4	1.68	2.5	1.64	1.46	28
	270	190	190TQ0270-2		1	0.4	1.7	2.5	1.7	1.46	34.7
	290	160	190TQ0290-1		1	0.39	1.7	2.6	1.7	1.50	36.1
	292.1	225.425	M241538D/M241510/M241510D		1	0.33	2.03	3.02	1.98	1.77	55.2
	320	218	190TQ0320-1		1	0.4	1.7	2.5	1.7	1.46	71.2
190.5	266.7	188.913	67885D/67820/67820D		1	0.48	1.42	2.11	1.38	1.22	32.4
	368.3	327.025	EE420750D/421450/421451D		1	0.4	1.68	2.5	1.64	1.46	163
198.438	284.163	225.425	M240648D/M240611/M240611D		1	0.33	2.03	3.02	1.98	1.77	42.7
200	280	206	200TQ0280-1		1	0.4	1.7	2.5	1.7	1.46	38.1
	280	220	200TQ0280-2		1	0.4	1.68	2.5	1.64	1.46	41.7
	282	206	200TQ0282-1		1	0.4	1.7	2.5	1.7	1.46	39.6
200	310	174	200TQ0310-1		1	0.4	1.7	2.5	1.7	1.46	47.2
	310	200		77740	1	0.39	1.7	2.6	1.7	1.50	53.6
	310	275		2077140	1	0.39	1.7	2.6	1.7	1.50	75.1
	340	234	200TQ0340-1		1	0.4	1.7	2.5	1.7	1.46	87.3

Four Row Tapered Roller Bearing



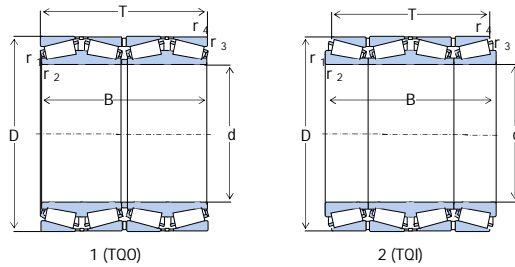
Boundary Dimensions (mm)			Designations		Design	Calculation Factors					Mass (kg)
d	D	T	New	Old		e	Y1	Y2	Y0	K	Refer.
203.2	314.325	239.713	M244240DW/M244210/M244210D		1	0.33	2.03	3.02	1.98	1.77	70.2
	317.5	209.55	EE132081D/132125/132126D		1	0.31	2.15	3.2	2.1	1.88	60.2
	317.5	209.55	EE132082D/132125/132126D		1	0.31	2.15	3.21	2.11	1.88	60.9
	317.5	266.7	93800D/93125/93127D		1	0.52	1.29	1.92	1.26	1.12	76.8
	368.3	327.025	EE420800D/421450/421451D		1	0.4	1.68	2.5	1.64	1.46	153
	368.3	327.025	EE420801D/421450/421451D		1	0.4	1.68	2.5	1.64	1.46	154
205	320	203.5	205TQ0320-1	77741	1	0.46	1.5	2.2	1.4	1.29	54.5
	320	205			1	0.4	1.7	2.5	1.7	1.46	58.1
206.375	282.575	184.15	67985D/67920/67920D		1	0.51	1.33	1.97	1.3	1.14	33.9
	282.575	190.5	67986D/67920/67921D		1	0.51	1.33	1.97	1.3	1.14	34.1
215.9	288.925	177.8	LM742749D/LM742714/LM742714D		1	0.48	1.4	2.09	1.37	1.22	32.5
	336.55	266.7	47T433427		1	0.5	1.34	2	1.32	1.17	85.1
	355.6	254	EE130850D/131400/131401D		1	0.33	2.04	3.04	2	1.77	104
	355.6	260.35	EE130850D/131400/131402D		1	0.33	2.04	3.04	2	1.77	106
	355.6	269.875	96851D/96140/96140D		1	0.59	1.14	1.7	1.12	0.99	111
216.103	330.2	269.875	9974D/9920/9920D		1	0.55	1.22	1.82	1.19	1.06	79.7
220	300	230	220TQ0300-1		1	0.41	1.7	2.5	1.6	1.42	47.1
	310	226	220TQ0310-1		1	0.4	1.7	2.5	1.7	1.46	52.2
	320	200	220TQ0320-1		1	0.33	2	3	2	1.76	54
	320	201	220TQ0320-2		1	0.33	2.03	3.02	1.98	1.77	52
	320	250	220TQ0320-3		1	0.33	2	3	2.0	1.77	68
	330	260	220TQ0330-1		1	0.55	1.2	1.8	1.2	1.06	75.7
	340	190	220TQ0340-1		1	0.4	1.7	2.5	1.7	1.46	60.5
220	340	303.5	220TQ0340-2	2077144	1	0.43	1.6	2.3	1.6	1.36	100
	340	305			1	0.35	1.95	2.9	1.91	1.67	97.6
	370	250	220TQ0370-1		1	0.39	1.7	2.6	1.7	1.50	106
220.663	314.325	239.713	M244249D/M244210/M244210D		1	0.33	2.03	3.02	1.98	1.77	56.9

Four Row Tapered Roller Bearing



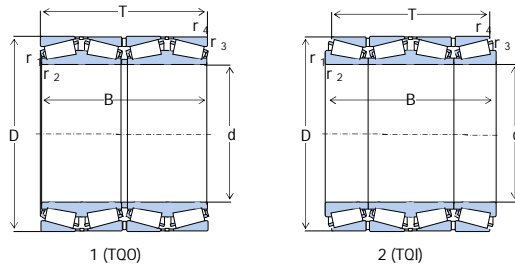
Boundary Dimensions (mm)			Designations		Design	Calculation Factors					Mass (kg)
d	D	T	New	Old		e	Y1	Y2	Y0	K	Refer.
225	320	230	225TQ0320-1		1	0.41	1.6	2.4	1.6	1.42	58.8
225.425	355.6	254	EE130887D/131400/131401D		1	0.33	2.04	3.04	2	1.77	97.2
	355.6	260.35	EE130887D/131400/131402D		1	0.33	2.04	3.04	2	1.77	99
228.6	311.15	200.025	LM245149D/LM245110/LM245110D		1	0.33	2.03	3.02	1.98	1.77	41.8
	355.6	254	EE130901D/131400/131401D		1	0.33	2.04	3.04	2	1.77	95
	355.6	260.35	EE130904DW/130400/130402D		1	0.34	2.0	3.0	1.9	1.69	101
	355.6	260.35	EE130900D/131400/131402D		1	0.33	2.04	3.04	2	1.77	96.9
	364	296.875	228TQ0364A-1		1	0.32	2.12	3.15	2.07	1.82	115
	400.05	296.875	EE529091D/529157/529158XD		1	0.31	2.19	3.25	2.14	1.88	155
	400.05	327.025	EE430901D/431575/431576D		1	0.44	1.54	2.29	1.5	1.33	173
	425.45	361.95	EE700090D/700167/700168D		1	0.33	2.03	3.02	1.98	1.77	235
	425.45	361.95	EE700092D/700167/700168D		1	0.33	2.03	3.02	1.98	1.77	237
	230	315	190	230TQ0315-1		1	0.36	1.9	2.8	1.8	1.62
234.95	327.025	196.85	8576D/8520/8520D		1	0.41	1.66	2.47	1.62	1.42	47.4
235	325	240	235TQ0325-1		1	0.33	2.03	3.02	1.98	1.77	60.5
240	320	250	240TQ0320-1		1	0.33	2	3	2.0	1.77	54.7
	338	248	240TQ0338-1		1	0.4	1.7	2.5	1.6	1.51	70
	350	230	240TQ0350-1		1	0.42	1.6	2.4	1.6	1.39	72
	360	194	240TQ0360-1		1	0.35	1.9	2.9	1.9	1.67	66.9
	360	218	240TQ0360-2		1	0.43	1.6	2.3	1.5	1.36	76.5
	360	308.5	240TQ0360-3		1	0.33	2	3	2	1.77	110
	360	310		2077148		1	0.31	2.2	3.2	2.1	1.9
240	365	290	240TQ0365-1		1	0.46	1.5	2.2	1.4	1.27	106
	400	266	240TQ0400-1		1	0.4	1.7	2.5	1.7	1.46	127
	410	270	240TQ0410-1		1	0.29	2.32	3.45	2.26	2.01	145
241.224	349.148	228.6	EE127094D/127135/127136D		1	0.35	1.91	2.84	1.86	1.67	70.9
	355.498	228.6	EE127094D/127138/127139D		1	0.35	1.91	2.8/4	1.86	1.67	77.1

Four Row Tapered Roller Bearing



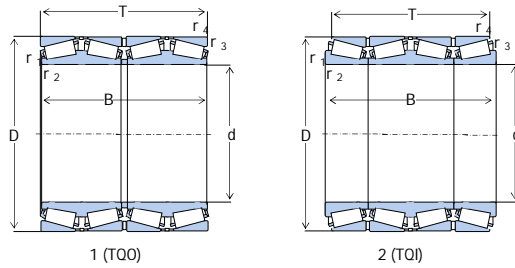
Boundary Dimensions (mm)			Designations		Design	Calculation Factors					Mass (kg)
d	D	T	New	Old		e	γ_1	γ_2	γ_0	K	Refer.
241.3	368.3	204.47	EE170951D/171450/171451D		1	0.36	1.86	2.77	1.82	1.62	81.4
241.478	349.148	228.6	EE127097D/127135/127136D		1	0.35	1.91	2.84	1.86	1.67	70.4
	350.838	228.6	EE127097D/127137/127137D		1	0.35	1.91	2.84	1.86	1.67	72.4
	355.498	228.6	EE127097D/127138/127139D		1	0.35	1.91	2.84	1.86	1.67	76.9
244.475	327.025	193.675	LM247748D/LM247710/LM247710D		1	0.32	2.1	3.13	2.06	1.82	44.7
	381	304.8	EE126096D/126150/126151D		1	0.52	1.31	1.95	1.28	1.12	125
245	380	254	245TQ0380-1		1	0.44	1.5	2.3	1.4	1.32	105
247.65	400.05	253.995	EE220975D/221575/221576D		1	0.39	1.71	2.54	1.67	1.50	119
250	350	240	250TQ0350-1		1	0.4	1.68	2.5	1.64	1.46	66.4
	360	186	250TQ0360-1		1	0.4	1.7	2.5	1.7	1.46	59.1
	365	270	250TQ0365-1		1	0.33	2	3	2.0	1.77	96.2
	370	220	250TQ0370-1		1	0.37	1.8	2.7	1.8	1.58	80.8
	381 460	320 270	250TQ0381-1	77750	1 1	0.55 1.2	1.8 1.8	2.7 1.8	1.8 1.2	1.58 1.06	130 192
250.825	431.724	298.453	HM252340D/HM252315/HM252315D		1	0.33	2.03	3.02	1.98	1.77	181
254	358.775	257.175	M249749/249749DW/249710D		2	0.33	2	3	2	1.76	90.5
	358.775	269.875	M249749DW/M249710/M249710D		1	0.33	2	3	2	1.76	88
	368.3	204.47	EE171000D/171450/171451D		1	0.36	1.86	2.77	1.82	1.62	73.6
422.275	305.595		HM252343D/HM252310/HM252311D		1	0.33	2.03	3.02	1.98	1.77	165
	311.15		HM252343D/HM252310/HM252310D		1	0.33	2.03	3.02	1.98	1.77	168
	317.5		HM252342D/HM252310/HM252310D		1	0.33	2.03	3.02	1.98	1.77	171
431.724	298.453		HM252344D/HM252315/HM252315D		1	0.33	2.03	3.02	1.98	1.77	179
	444.5	279.4	EE822101D/822175/822176D		1	0.42	1.62	2.42	1.59	1.39	180
260	360	265	382952/HC		1						77.8
	360	272	260TQ0360-1		1	0.34	2	3	1.9	1.72	82.2
	368	268	260TQ0368-1		1	0.32	2.1	3.2	2.1	1.82	87.1
	400	213	260TQ0400-1		1	0.4	1.7	2.5	1.7	1.46	92.9

Four Row Tapered Roller Bearing



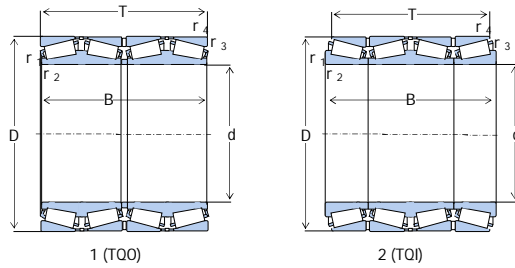
Boundary Dimensions (mm)			Designations		Design	Calculation Factors					Mass (kg)
d	D	T	New	Old		e	Y1	Y2	Y0	K	Refer.
260	400	220	260TQ0400-2		1	0.4	1.7	2.5	1.7	1.46	96
	400	255		77752	1	0.39	1.72	2.56	1.68	1.50	113
	400	320	260TQ0400-4		1	0.35	1.9	2.8	1.9	1.67	144
	400	344	260TQ0400-5		1	0.29	2.32	3.45	2.26	2.01	155
	400	345	382052		1						
	440	298.5	260TQ0440-1		1	0.54	1.25	1.8	1.3	1.07	190
260.35	440	300		77752	1	0.35	1.9	2.9	1.9	1.67	196
	365.125	228.6	EE134103D/134143/134144D		1	0.37	1.8	2.69	1.76	1.58	72
400.05	253.995	EE221025D/221575/221576D		1	0.39	1.71	2.54	1.67	1.50	109	
	253.995	EE221027D/221575/221576D		1	0.39	1.71	2.54	1.67	1.50	110	
422.275	305.595	HM252347D/HM252310/HM252311D		1	0.33	2.03	3.02	1.98	1.77	159	
	311.15	HM252347D/HM252310/HM252310D		1	0.33	2.03	3.02	1.98	1.77	162	
	317.5	HM252349D/HM252310/HM252310D		1	0.33	2.03	3.02	1.98	1.77	166	
	298.453	HM252347D/HM252315/HM252315D		1	0.33	2.03	3.02	1.98	1.77	173	
	311.15	HM252347D/HM252310/HM252310D		1	0.33	2.03	3.02	1.98	1.77	162	
266.7	355.6	228.6	LM451349D/LM451310/LM451310D		1	0.36	1.87	2.79	1.83	1.62	62.2
	393.7	269.878	EE275106D/275155/275156D		1	0.4	1.68	2.5	1.64	1.46	108
	406.4	260.335	EE275106D/275160/275161D		1	0.4	1.68	2.5	1.64	1.46	128
269.875	381	282.575	M252349D/M252310/M252310D		1	0.33	2.03	3.02	1.98	1.77	99.7
270	364	260	270TQ0364-1		1	0.39	1.7	2.6	1.7	1.50	76.7
	410	222	270TQ0410-1		1	0.35	1.9	2.9	1.9	1.67	99.7
276.225	380.898	203.2	89108D/89149/89149XD		1	0.58	1.2	1.7	1.1	1.01	64.4
	381	193.675	89108D/89148/89151XD		1	0.59	1.15	1.72	1.13	0.99	64.2
276.225	381	209.55	89108D/89150/89151XD		1	0.59	1.15	1.72	1.13	0.99	67.2
	393.7	269.878	EE275109D/275155/275156D		1	0.4	1.68	2.5	1.64	1.46	105
	406.4	260.335	EE275109D/275160/275161D		1	0.4	1.68	2.5	1.64	1.46	119
279.4	381	269.875	279TQ0381A-1		1	0.35	1.9	2.9	1.8	1.64	91
	393.7	269.875	EE135111D/135155/135156D		1	0.38	1.77	2.64	1.73	1.54	101
	407	288	M255449/M255440DW/M255411		2	0.33	2	3	2	1.73	140
	410	310	279TQ0410-1		1	0.4	1.68	2.5	1.64	1.46	140

Four Row Tapered Roller Bearing



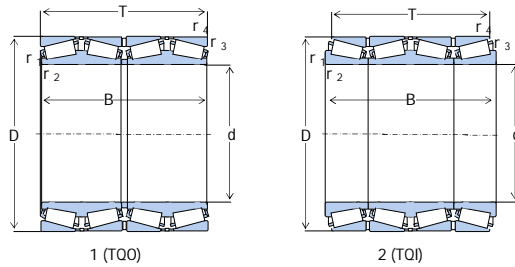
Boundary Dimensions (mm)			Designations		Design	Calculation Factors					Mass (kg)
d	D	T	New	Old		e	Y1	Y2	Y0	K	Refer.
279.4	469.9	349.25	EE722111D/722185/722186D		1	0.38	1.79	2.67	1.75	1.54	247
	469.9	390.525	EE722112D/722185/722186D		1	0.38	1.79	2.67	1.75	1.54	265
	495.3	285.75	EE941106D/941950/941951XD		1	0.4	1.68	2.5	1.64	1.46	236
	495.3	292.1	EE941106D/941950/941952XD		1	0.4	1.68	2.5	1.64	1.46	240
279.578	380.898	244.475	LM65464D/LM654610/LM654610D		1	0.43	1.57	2.34	1.53	1.36	76.9
	381	193.675	89111D/89148/89151XD		1	0.59	1.15	1.72	1.13	0.99	62.1
	381	209.55	89111D/89150/89151XD		1	0.59	1.15	1.72	1.13	0.99	65.1
	495.3	292.1	EE941106D/941950/941952XD		1	0.4	1.7	2.5	1.7	1.46	240
280	380	290	280TQ0380-1		1	0.28	2.4	3.6	2.5	2.07	95
	395	288	280TQ0395-1		1	0.28	2.4	3.6	2.5	2.12	110
	420	224	280TQ0420-1		1	0.4	1.7	2.5	1.7	1.46	109
	420	250		77756	1	0.42	1.6	2.4	1.6	1.39	117
	420	343.5	280TQ0420-2		1	0.33	2.03	3.02	1.98	1.77	161
	460	305	280TQ0460-1		1	0.39	1.7	2.6	1.7	1.50	197
	460	324	280TQ0460-2		1	0.47	1.4	2.1	1.4	1.24	214
	285.75	380.898	244.475	LM654648D/LM654610/LM654610D		1	0.43	1.57	2.34	1.53	1.36
288.925	469.9	292.1	EE921151D/921850/921851D		1	0.29	2.31	3.44	2.26	2.01	201
	476.25	292.1	EE921126D/921875/921876D		1	0.29	2.31	3.44	2.26	2.01	211
	406.4	298.45	M255449D/M255410/M255410D		1	0.34	2	2.97	1.95	1.72	124
292.1	422.275	269.875	EE330116D/330166/330167D		1	0.32	2.11	3.14	2.06	1.82	124
298.45	444.5	241.3	EE291176D/291750/291751D		1	0.38	1.79	2.66	1.75	1.54	131
299.974	439.949	279.4	EE129119D/129174/129175XD		1	0.4	1.68	2.5	1.64	1.46	145
300	420	310		77860U	1	0.29	2.3	3.4	2.3	2.01	132
	424	310	300TQ0424-1		1	0.4	1.7	2.5	1.7	1.46	138
	430	280	300TQ0430-1		1	0.47	1.4	2.1	1.4	1.24	129
	430	300	300TQ0430-2		1	0.35	1.9	2.9	1.9	1.67	141
	440	279.4	EE129119D/129174/129175D		1	0.4	1.7	2.5	1.7	1.46	145
	460	248	300TQ0460-1		1	0.42	1.6	2.4	1.6	1.39	146

Four Row Tapered Roller Bearing



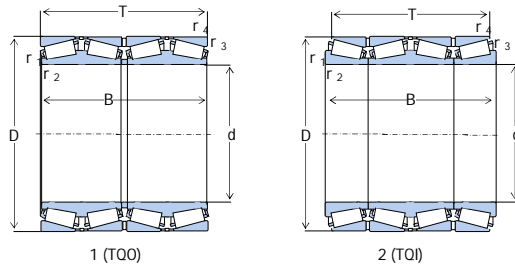
Boundary Dimensions (mm)			Designations		Design	Calculation Factors					Mass (kg)	
d	D	T	New	Old		e	Y1	Y2	Y0	K	Refer.	
300	460	360	300TQ0460-2		1	0.31	2.2	3.3	2.1	1.88	216	
	460	388.5	300TQ0460-3		1	0.33	2	3	2	1.82	240	
	460	390		2077160	1						222	
	470	270	300TQ0470-1		1	0.33	2	3	2.0	1.77	181	
	470	292	300TQ0470-2		1	0.33	2	3	2.0	1.77	196	
	470	310	300TQ0470-3		1	0.36	1.9	2.8	1.8	1.62	197	
	500	332	300TQ0500-1		1	0.39	1.7	2.6	1.7	1.50	254	
	500	350		77760U	1						280	
	500	380	300TQ0500-2		1	0.35	1.9	2.9	1.9	1.67	300	
	300.038	422.275	311.15	HM256849D/HM256810/HM256810D		1	0.34	2	2.98	1.96	1.72	126
	304.648	438.048	279.4	EE129121D/129172/129173D		1	0.4	1.68	2.5	1.64	1.46	137
	304.8	412.75	266.7	304TQ0412A-1		1	0.32	2.12	3.15	2.07	1.82	100
419.1		269.875	M257149D/M257110/M257110D		1	0.33	2.03	3.02	1.98	1.77	111	
444.5		241.3	EE291200D/291750/291751D		1	0.38	1.79	2.66	1.75	1.54	125	
444.5		241.3	EE291202D/291750/291751D		1	0.38	1.79	2.66	1.75	1.54	127	
482.6		345	304TQ0482A-1		1	0.33	2	3	2.0	1.77	245	
482.6		377.825	304TQ0482A-2		1	0.37	1.8	2.7	1.8	1.58	223	
495.3		285.75	EE941206D/941950/941951XD		1	0.4	1.68	2.5	1.64	1.46	217	
495.3		292.1	EE941206D/941950/941952XD		1	0.4	1.68	2.5	1.64	1.46	221	
495.3		292.1	EE941207D/941950/941952XD		1	0.4	1.68	2.5	1.64	1.46	215	
304.8		495.3	349.25	EE724121D/724195/724196D		1	0.4	1.68	2.5	1.64	1.46	283
	501.65	336.55	304TQ0501A-1		1	0.33	2.03	3.02	1.98	1.77	262	
304.902	412.648	266.7	M257248D/M257210/M257210D		1	0.32	2.12	3.15	2.07	1.82	102	
305.003	438.048	279.4	M757449D/M757410/M757410D		1	0.47	1.44	2.15	1.41	1.24	132	
310	430	310	310TQ0430-1		1	0.34	2	2.9	1.9	1.72	135	
	455	222	310TQ0455-1		1	0.39	1.7	2.6	1.7	1.50	117	
	460	325	310TQ0460-1		1	0.41	1.6	2.4	1.6	1.42	186	

Four Row Tapered Roller Bearing



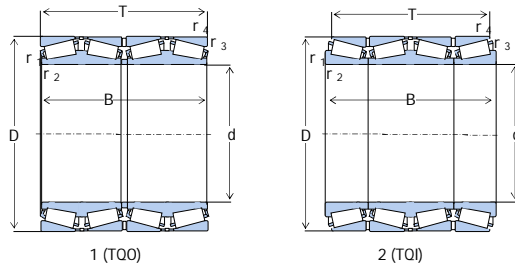
Boundary Dimensions (mm)			Designations		Design	Calculation Factors					Mass (kg)
d	D	T	New	Old		e	Y1	Y2	Y0	K	Refer.
317.5	422.275	269.875	LM258649D/LM258610/LM258610D		1	0.32	2.12	3.15	2.07	1.82	104
	438.15	276.225	317TQ0438A-1		1	0.43	1.6	2.3	1.6	1.34	125
	447.675	327.025	HM259049D/HM259010/HM259010D		1	0.33	2.02	3	1.97	1.77	165
320	440	335	320TQ0440-1		1	0.33	2	3	2.0	1.77	146
	460	325	320TQ0460-1		1	0.42	1.6	2.4	1.6	1.39	170
	460	338	320TQ0460-2		1	0.4	1.7	2.5	1.7	1.46	178
	480	254	320TQ0480-1		1	0.39	1.7	2.6	1.7	1.50	156
	480	360	320TQ0480-2		1	0.47	1.4	2.1	1.4	1.24	227
	480	380		2077164		1					252
500	380		320TQ0500-1		1	0.33	2.03	3.02	1.98	1.77	284
	540	364	320TQ0540-1		1	0.39	1.7	2.6	1.7	1.50	352
325	430	230	325TQ0430-1		1	0.4	1.68	2.5	1.64	1.46	82.9
327.025	482.6	311.15	EE526129D/526190/526191D		1	0.39	1.7	2.6	1.7	1.50	185
330	460	240	330TQ0460-1		1	0.47	1.4	2.1	1.4	1.24	123
330.2	444.5	301.625	M260149D/M260110/260110D		1	0.4	1.7	2.5	1.7	1.46	136
	482.6	311.15	EE526131D/526190/526191D		1	0.39	1.73	2.57	1.69	1.50	188
	508	290	330TQ0508A-1		1	0.49	1.38	2.06	1.35	1.19	210
	508	292.1	330TQ0508A-2		1	0.4	1.7	2.5	1.7	1.46	214
	508	307.975	330TQ0508A-3		1	0.29	2.32	3.45	2.26	2.01	219
	533.4	280	330TQ0533A-1		1	0.33	2.03	3.02	1.98	1.77	225
540	290	330TQ0540A-1		1	0.33	2.03	3.02	1.98	1.77	277	
330.302	438.023	254	EE138131D/138172/138173D		1	0.44	1.5	2.3	1.5	1.33	108
333.375	469.9	328.612	333TQI469A-1		2	0.33	2	3	2	1.73	190
333.375	469.9	342.9	HM261049D/HM261010/HM261010D		1	0.33	2.02	3	1.97	1.77	184
335	460	342.9	335TQ0460-1		1	0.39	1.7	2.6	1.7	1.50	167
340	420	278	340TQ0420-1		1	0.26	2.55	3.8	2.5	2.24	207
	460	254	340TQ0460-1		1	0.47	1.4	2.1	1.4	1.24	118

Four Row Tapered Roller Bearing



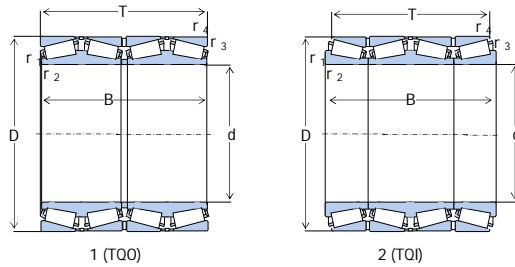
Boundary Dimensions (mm)			Designations		Design	Calculation Factors					Mass (kg)
d	D	T	New	Old		e	Y1	Y2	Y0	K	Refer.
340	460	310		2077968	1						147
	480	350	340TQO480-1		1	0.29	2.3	3.4	2.3	2.01	198
	520	278	340TQO520-1		1	0.39	1.7	2.6	1.7	1.50	213
	520	323	340TQO520-2		1	0.4	1.68	2.5	1.64	1.46	242
	520	323.5	340TQO520-3		1	0.3	2.3	3.4	2.2	2.01	245
	520	325	381068		1	0.3	2.3	3.4	2.2	1.95	251
	580	392	340TQO580-1		1	0.39	1.7	2.6	1.7	1.50	442
341.312	457.098	254	LM761648DW/LM761610/LM761610D		1	0.45	1.5	2.2	1.5	1.30	116
342.9	533.4	301.625	EE971355D/972100/972103D		1	0.33	2.03	3.02	1.98	1.77	238
	571.5	342.9	EE536136D/536225/536226D		1	0.33	2	3	2.0	1.77	369
343.052	457.098	209	343TQO457A-1		1	0.47	1.43	2.12	1.4	1.24	91.1
	457.098	254	LM961548D/LM961511/LM961511D		1	0.71	0.95	1.41	0.93	0.82	115
346.075	457.2	254	346TQO457A-1		1	0.47	1.43	2.12	1.4	1.24	102
	488.95	358.775	HM262749D/HM262710/HM262710D		1	0.36	1.9	2.8	1.8	1.62	210
347.662	469.9	246.063	347TOI469A-1		2	0.33	2	3	2	1.76	135
	469.9	260.35	LM262449DW/LM262410/LM262410D		1	0.33	2	3	2.0	1.77	129
	469.9	292.1	M262449D/M262410/M262410D		1	0.33	2.03	3.02	1.98	1.77	146
355	490	316	355TQO490-1		1	0.33	2	3	2.0	1.77	177
355.6	444.5	241.3	L163149D/L163110/L163110D		1	0.31	2.2	3.27	2.15	1.88	85.5
	457.2	252.412	LM263149DW/LM263110/LM263110D		1	0.32	2.1	3.1	2.1	1.83	104
355.6	482.6	269.875	LM763449D/LM763410/LM763410D		1	0.47	1.43	2.14	1.4	1.24	138
	488.95	317.5	M263349D/M263310/M263310D		1	0.33	2.03	3.02	1.98	1.77	174
	514.35	260.35	EE231401D/232025/232026D		1	0.44	1.53	2.28	1.5	1.33	177
356.387	482.6	222.25	EE161403D/161900/161901D		1	0.5	1.35	2.01	1.32	1.17	116
360	480	370	360TQO480-1	77872	1	0.33	2	3	2.0	1.77	181
	480	375			1	0.33	2	3	2.0	1.77	183
	508	370	360TQO508-1		1	0.4	1.7	2.5	1.7	1.46	235
	510	380	360TQO510-1		1	0.33	2	3	2	1.81	255

Four Row Tapered Roller Bearing



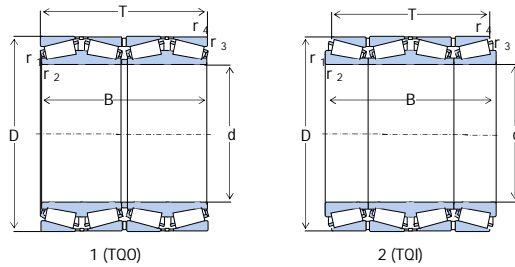
Boundary Dimensions (mm)			Designations		Design	Calculation Factors					Mass (kg)
d	D	T	New	Old		e	Y1	Y2	Y0	K	Refer.
360	520	370	360TQ0520-1		1	0.33	2.1	3.1	2.0	1.77	256
		410	360TQ0520-2		1	0.33	2.03	3.02	1.98	1.77	281
	540	280	360TQ0540-1		1	0.39	1.7	2.6	1.7	1.50	229
		360	360TQ0540-2		1	0.4	1.7	2.5	1.7	1.46	278
		460	360TQ0540-3		1	0.27	2.47	3.67	2.41	2.16	375
	600	396	360TQ0600-1		1	0.39	1.7	2.6	1.7	1.50	465
		420		1077772	1	0.44	1.5	2.3	1.5	1.33	388
		540	360TQ0600-2		1	0.42	1.6	2.4	1.6	1.39	628
	368.3	523.875	366.712	368TOI523A-1		2	0.33	2	3	2	1.76
382.588			HM265049D/HM265010/HM265010D		1	0.33	2.03	3.02	1.98	1.77	270
382.588			368TQ0523A-1		1	0.29	2.32	3.45	2.26	2.01	352
596.9		342.9	EE181455D/1812350/1812351D		1	0.41	1.6	2.4	1.6	1.42	385
	342.9	EE181454D/182350/182351D		1	0.42	1.62	2.42	1.59	1.39	347	
370	490	292	370TQ0490-1		1	0.34	2	2.9	1.9	1.72	151
	510	340	370TQ0510-1		1	0.35	1.95	2.9	1.91	1.67	200
	516	346	370TQ0516-1		1	0.4	1.68	2.5	1.64	1.46	211
374.65	501.65	260.35	EE231475D/231975/231976D		1	0.44	1.53	2.28	1.5	1.33	137
	514.35	260.35	EE231475D/232025/232026D		1	0.44	1.53	2.28	1.5	1.33	158
380	520	350	380TQ0520-1		1	0.31	2.2	3.3	2.1	1.88	219
380	520	360	380TQ0520-2		1	0.32	2.12	3.15	2.07	1.82	225
		400	380TQ0520-3		1	0.35	1.9	2.9	1.9	1.67	243
	536	390	380TQ0536-1		1	0.4	1.7	2.5	1.7	1.46	272
		350		77776	1	0.44	1.5	2.3	1.5	1.33	273
		282	380TQ0560-1		1	0.42	1.6	2.4	1.6	1.39	244
	560	285	380TQ0560-2		1	0.37	1.8	2.7	1.8	1.58	246
		325	380TQ0560-3		1	0.31	2.2	3.3	2.2	1.85	265
		360	380TQ0560-4		1	0.4	1.7	2.5	1.6	1.44	295
		370	380TQ0560-5		1	0.33	2.03	3.02	1.98	1.77	312

Four Row Tapered Roller Bearing



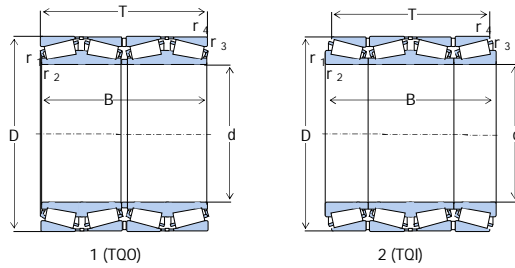
Boundary Dimensions (mm)			Designations		Design	Calculation Factors					Mass (kg)
d	D	T	New	Old		e	Y1	Y2	Y0	K	Refer.
380	580	500	380TQ0580-1		1	0.33	2.03	3.02	1.98	1.77	467
	620	368	380TQ0620-1		1	0.43	1.6	2.3	1.6	1.36	438
	620	388		3077776		1					443
	620	400	380TQ0620-2		1	0.4	1.7	2.5	1.7	1.46	490
	620	418.5	380TQ0620-1		1	0.46	1.47	2.19	1.44	1.27	499
	620	420	381176/HC	1077776		1					485
384.175	546.1	384.175	384TQI546A-1		2	0.33	2	3	2	1.76	300
	546.1	400.05	HM266449D/HM266410/HM266410D		1	0.33	2.03	3.02	1.98	1.77	315
385.763	514.35	317.5	LM665949DW/LM665910/LM665910D		1	0.42	1.61	2.4	1.58	1.39	182
390	510	350	390TQ0510-1		1	0.33	2	3	2.0	1.77	188
393.7	546.1	288.925	LM767745D/LM767710/LM67710D		1	0.48	1.42	2.11	1.39	1.22	205
	558.8	254	EE234157D/234220/234221D		1	0.48	1.42	2.11	1.39	1.22	205
395	545	288.7		77779	1	0.44	1.5	2.3	1.5	1.33	194
	545	288.7	395TQ0545-1		1	0.47	1.4	2.1	1.4	1.24	196
	545	288.7	395TQ0545-2		1	0.43	1.57	2.34	1.53	1.36	181
	545	288.9	395TQ0545-3		1	0.48	1.4	2.1	1.4	1.22	195
400	540	280		77880	1						187
	540	295	400TQI540-1		2	0.31	2.2	3.3	2.2	1.89	210
400	540	400	380680/HC		1						262
	600	356	381080/HC		1						345
	564	412	400TQ0564-1		1	0.4	1.7	2.5	1.7	1.46	315
	590	304	400TQ0590-1		1	0.42	1.6	2.4	1.6	1.39	287
	600	308	400TQ0600-1		1	0.37	1.8	2.7	1.8	1.58	316
406.4	650	414	400TQ0650-1		1	0.39	1.7	2.6	1.7	1.50	555
	546.1	288.925	EE234161D/234215/234216D		1	0.48	1.42	2.11	1.39	1.22	184
	546.1	288.925	LM767749D/LM767710/LM767710D		1	0.48	1.42	2.11	1.39	1.22	192
	546.1	330	406TQ0546A-1		1	0.41	1.7	2.5	1.6	1.42	214
	546.1	357.4	406TQ0546A-2		1	0.47	1.43	2.12	1.4	1.24	232

Four Row Tapered Roller Bearing



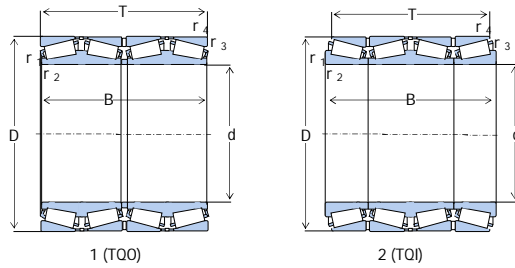
Boundary Dimensions (mm)			Designations		Design	Calculation Factors					Mass (kg)
d	∅D	T	New	Old		e	Y1	Y2	Y0	K	
406.4	558.8	254	EE234161D/234220/234221D		1	0.48	1.42	2.11	1.39	1.22	189
	565.15	381	M267949D/M267910/M267910XD		1	0.33	2.03	3.02	1.98	1.77	291
	590.55	381	406TQI590A-1		2	0.33	2	3	2	1.8	370
	590.55	400.05	EE833161D/833232/833233D		1	0.32	2.08	3.1	2.04	1.82	358
	609.6	317.5	EE911603D/912400/912401D		1	0.38	1.76	2.62	1.72	1.54	320
409.575	546.1	334.963	M667947D/M667910/M667910D		1	0.42	1.62	2.42	1.59	1.39	200
415.925	590.55	419.1	415TQI546A-1		2	0.33	2	3	2	1.76	405
	590.55	434.975	M268749D/M268710/M268710D		1	0.33	2.03	3.02	1.98	1.77	390
416	574	480	416TQ0574-1		1	0.28	2.4	3.6	2.4	2.08	366
420	560	370	420TQ0560-1		1	0.32	2.12	3.15	2.07	1.82	246
	560	437	380684/HC		1	0.31	2.2	2.3	2.1	1.88	284
	592	432	420TQ0592-1		1	0.41	1.7	2.5	1.6	1.42	363
	620	312	420TQ0620-1		1	0.39	1.7	2.6	1.7	1.50	331
	620	355	420TQ0620-2		1	0.39	1.7	2.6	1.7	1.50	364
	630	540	420TQ0630-1		1	0.3	2.25	3.34	2.2	1.95	600
	650	460	420TQ0650-1		1	0.4	1.7	2.5	1.7	1.46	547
	700	460	420TQ0700-1		1	0.39	1.7	2.6	1.7	1.50	736
420	700	480	381184		1						
	760	500	420TQ0760-1		1	0.33	2.03	3.02	1.98	1.77	1050
430	570	336	430TQ0570-1		1	0.35	1.9	2.9	1.9	1.67	233
	570	336.55	430TQ0570-2		1	0.44	1.5	2.3	1.4	1.33	240
431.8	571.5	279.4	EE239171D/239225/239226XD		1	0.39	1.75	2.61	1.71	1.50	187
	571.5	279.4	LM869449/LM869410/LM869410D		1	0.55	1.24	1.84	1.21	1.06	194
	571.5	320.675	431TQI571A-1		2	0.44	1.5	2.3	1.4	1.33	250
	571.5	336.55	LM769349/LM769310/LM769310D		1	0.48	1.41	2.1	1.38	1.22	232
	635	355.6	EE931070DGW/931250/931251XD		1	0.33	2	3	2	1.82	385
635	355.6	431TQ0635A-1		1	0.33	2	3	2	1.82	405	

Four Row Tapered Roller Bearing



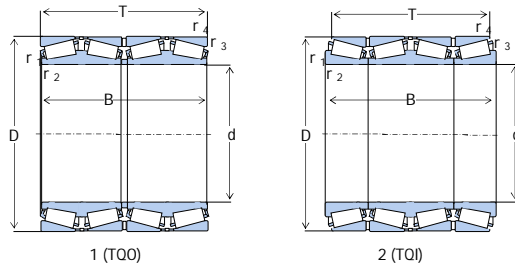
Boundary Dimensions (mm)			Designations		Design	Calculation Factors					Mass (kg)
d	D	T	New	Old		e	Y1	Y2	Y0	K	Refer.
431.8	635	355.6	EE931170D/931250/931251XD		1	0.32	2.1	3.13	2.06	1.82	385
	647.7	338.138	431TQ0647A-1		2	0.33	2	3	2	1.82	420
431.902	685.698	533.273	EE328172D/328269/328268D		1	0.4	1.7	2.5	1.7	1.46	761
432.003	609.524	317.5	EE736173D/736238/736239D		1	0.35	1.94	2.89	1.9	1.67	293
438	580	460	438TQ0580-1		1	0.26	2.55	3.8	2.5	2.24	323
440	580	420	440TQ0580-1		1	0.26	2.6	3.9	2.5	2.27	300
	620	454		77888	1	0.4	1.7	2.5	1.7	1.46	442
	635	430	440TQ0635-1		1	0.33	2.03	3.02	1.98	1.77	453
	635	470	440TQ0635-2		1	0.33	2	3	2.0	1.77	509
	650	326	440TQ0650-1		1	0.39	1.7	2.6	1.7	1.50	381
	650	334	440TQ0650-2		1	0.28	2.43	3.61	2.37	2.08	371
	650	353.5	440TQ0650-3		1	0.33	2	3	2	1.82	410
	650	355		77788	1	0.46	1.47	2.19	1.44	1.27	409
	720	465	440TQ0720-1		1	0.39	1.7	2.6	1.7	1.50	771
444.5	571.5	336.55	444TQ0571-1		1	0.31	2.2	3.3	2.2	1.9	215
447.675	635	446.088	447TQI635-1		2	0.33	2	3	2	1.76	475
	635	463.55	M270749D/M270710/M270710D		1	0.33	2.03	3.02	1.98	1.77	464
448	635	464	448TQ0635-1		1	0.33	2	3	2.0	1.77	485
450	580	450	450TQ0580-1		1	0.31	2.2	3.2	2.1	1.88	282
	595	352	450TQI595-1		2	0.33	2	3	2	1.76	295
	595	368	M270749DA/M270410/M270410D		1	0.33	2	3	2	1.76	285
	595	404	M270449DA/M270410/M270410D		1	0.33	2	3	2	1.76	305
456.794	761.873	527.05	EE425176D/425299/425299D		1	0.44	1.52	2.26	1.49	1.33	980
457.073	730.148	419.1	EE671798DGW/672873/672875D		1	0.4	1.7	2.5	1.6	1.49	630
457.2	596.9	279.4	EE244181D/244235/244236D		1	0.4	1.67	2.48	1.63	1.46	204
	596.9	320	457TQ0596A-1		1	0.44	1.5	2.3	1.4	1.32	235

Four Row Tapered Roller Bearing



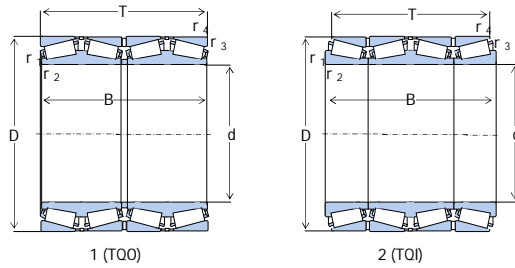
Boundary Dimensions (mm)			Designations		Design	Calculation Factors					Mass (kg)
d	D	T	New	Old		e	Y1	Y2	Y0	K	Refer.
457.2	660.4	323.847	EE737179D/737260/737261D		1	0.37	1.8	2.69	1.76	1.58	354
	660.4	495.3	457TQ0660A-1		1	0.33	2.03	3.02	1.98	1.77	571
457.403	730.148	419.1	EE671802D/672873/672875D		1	0.39	1.72	2.57	1.69	1.50	646
460	586	266	460TQ0586-1		1	0.46	1.5	2.2	1.4	1.27	168
	586	280	460TQ0586-2		1	0.44	1.52	2.26	1.49	1.33	166
	590	360	460TQ0590-1		1	0.28	2.4	3.6	2.4	2.08	242
	610	360	460TQ0610-1		1	0.33	2	3	2	1.76	295
	610	400	460TQ0610-2		1	0.28	2.4	3.6	2.5	2.08	315
	615	360	460TQ0610-1		1	0.45	1.5	2.2	1.5	1.30	289
620	310			1077992	1						260
625	421		M271149D/M271110/271110D		1	0.33	2	3	2.0	1.77	381
650	474			77892	1	0.4	1.7	2.5	1.7	1.46	477
	680	338	460TQ0680-1		1	0.4	1.7	2.5	1.7	1.46	433
	680	375	460TQ0680-2		1	0.36	1.87	2.79	1.83	1.62	476
	730	440	381192X3/HC		1						663
	760	494	460TQ0760-1		1	0.39	1.7	2.6	1.7	1.50	923
	462	615.95	330.2	462TQ0615A-1		1	0.4	1.7	2.5	1.6	1.45
475	600	368	475TQ0600-1		1	0.3	2.3	3.4	2.2	2.03	250
	660	450	475TQ0660-1		1	0.37	1.8	2.7	1.8	1.58	463
479.425	679.45	495.3	M272749D/M272710/M272710D		1	0.33	2.03	3.02	1.98	1.77	566
480	678	494	480TQ0678-1		1	0.34	2	3	1.9	1.72	586
	700	342	480TQ0700-1		1	0.39	1.7	2.6	1.7	1.50	453
	700	420	381096		1						582
	790	510	480TQ0790-1		1	0.39	1.7	2.6	1.7	1.50	1030
482.6	615.95	317.5	M272249DW/M272249W/M272210D		2	0.33	2	3	2	1.76	245
	615.95	330.2	LM272249D/LM272210/LM272210D		1	0.33	2.03	3.02	1.98	1.77	229
	615.95	420	482TQ0615A-1		1	0.26	2.55	3.8	2.5	2.24	296
630	420	482TQ0630A-1			1	0.33	2	3	2	1.76	345

Four Row Tapered Roller Bearing



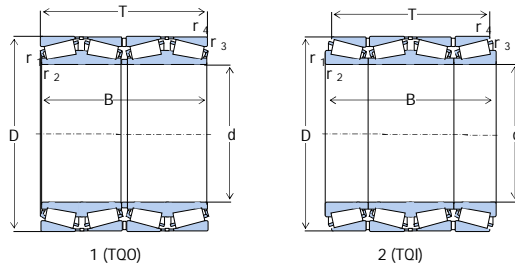
Boundary Dimensions (mm)			Designations		Design	Calculation Factors					Mass (kg)
d	D	T	New	Old		e	Y1	Y2	Y0	K	Refer.
482.6	635	421	M272449D/M272410/M272410D		1	0.33	2.03	3.02	1.98	1.77	366
	647.7	417.512	M272647D/M272610/M272610D		1	0.33	2.03	3.02	1.98	1.77	396
488.95	622.3	365.125	488TQ0622A-1		1	0.29	2.3	3.4	2.3	2.01	265
	660.4	361.95	EE640193D/640260/640261D		1	0.31	2.2	3.27	2.15	1.88	339
489.026	634.873	320.675	LM772749D/LM772710/LM772710D		1	0.47	1.43	2.12	1.4	1.24	258
490	625	385	380698/HC		1	0.32	2.1	3.2	2.1	1.82	284
500	670	515	500TQ0670-1		1	0.33	2	3	2.0	1.77	518
	705	515	500TQ0705-1		1	0.37	1.8	2.7	1.8	1.58	654
	710	430	500TQ0710-1		1	0.37	1.8	2.7	1.8	1.58	530
	720	348	500TQ0720-1		1	0.4	1.7	2.5	1.7	1.46	476
	720	400	500TQ0720-2		1	0.33	2	3	2.0	1.77	548
	729.805	440	500TQ0729A-1		1	0.33	2	3	2.0	1.77	639
	830	540	500TQ0640A-1		1	0.39	1.7	2.6	1.7	1.50	1210
500.25	640	450	500TQ0640A-1		1	0.28	2.4	3.6	2.4	2.08	366
501.65	673.1	387.35	EE641198D/641265/641266D		1	0.31	2.15	3.2	2.1	1.88	372
	711.2	520.7	M274149D/M274110/M274110D		1	0.33	2.03	3.02	1.98	1.77	652
508	749.3	355.6	508TQ0749A-1		1	0.36	1.9	2.8	1.8	1.62	548
508	762	420	508TQ0762-1		1	0.36	1.9	2.8	1.8	1.62	693
	762	463.55	EE531201D/531300/531301XD		1	0.38	1.78	2.65	1.74	1.54	741
509.948	654.924	379	509TQ0654A-1		1	0.41	1.6	2.4	1.6	1.42	319
510	655	362	510TQI655-1		2	0.33	2	3	2	1.7	330
	655	379	510TQ0655-1		1	0.33	2	3	2	1.76	330
514.35	673.1	422.275	LM274449D/LM274410/LM274410D		1	0.33	2.03	3.02	1.98	1.77	401
514.35	736.6	319.505	514TQ0736A-1		1	0.48	1.4	2.1	1.4	1.22	431
519.113	736.6	536.575	M275349D/M275310/M275310D		1	0.33	2.03	3.02	1.98	1.77	739

Four Row Tapered Roller Bearing



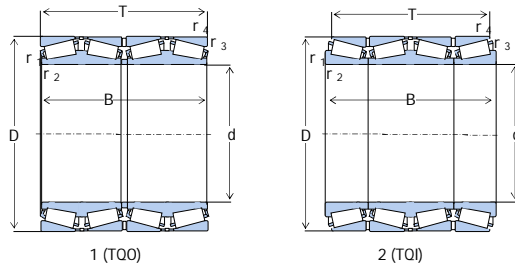
Boundary Dimensions (mm)			Designations		Design	Calculation Factors					Mass (kg)
d	D	T	New	Old		e	Y1	Y2	Y0	K	Refer.
520	735	535	520TQ0735-1		1	0.33	2	3	2.0	1.77	731
520.7	711.2	400.05	LM275349D/LM275310/LM275310D		1	0.33	2.03	3.02	1.98	1.77	438
530	730	540	530TQ0730-1		1	0.33	2	3	2.0	1.77	657
	750	480	530TQ0750-1		1	0.33	2	3	2.0	1.77	694
	750	550	530TQ0750-2		1	0.33	2	3	2.0	1.77	788
	780	385	530TQ0780-1		1	0.37	1.8	2.7	1.8	1.58	644
	780	450	3810/530		1						745
	780	570	530TQ0780-2		1	0.33	2	3	2.0	1.77	956
	870	560	530TQ0870-1		1	0.39	1.7	2.6	1.7	1.50	1360
535	750	560	535TQ0750-1		1	0.33	2.02	3.01	1.98	1.77	752
	760	560	535TQ0760-1		1	0.33	2	3	2.0	1.77	833
536.575	761.873	558.8	M276449D/M276410/M276410D		1	0.33	2.03	3.02	1.98	1.77	821
540	690	400		779/540	1	0.33	2	3	2	1.76	375
	760	560	540TQ0760-1		1	0.33	2.03	3.02	1.98	1.77	809
555.625	698.5	349.25	555TQ0698A-1		1	0.33	2	3	2.0	1.77	311
558.75	965.3	495.3	558TQ0965A-1		1	0.33	2.03	3.02	1.98	1.77	1580
558.8	736.6	322.263	EE843221D/843290/843291D		1	0.34	1.97	2.93	1.93	1.72	376
	736.6	409.575	LM377449D/LM377410/LM377410D		1	0.35	1.95	2.9	1.91	1.67	472
	736.6	430	558TQ0736A-1		1	0.35	1.9	2.9	1.9	1.67	492
	736.6	450	558TQ0736A-2		1	0.35	1.9	2.9	1.9	1.67	531
	736.6	457.2	LM277149DA/LM277110/LM277110D		1	0.33	2.03	3.02	1.98	1.77	525
560	750	368	3819/560/HC		1						447
	805	590	560TQ0805-1		1	0.33	2	3	2.0	1.77	1030
	820	405	560TQ0820-1		1	0.37	1.8	2.7	1.8	1.58	742
	920	575	560TQ0920-1		1	0.39	1.7	2.6	1.7	1.50	1560

Four Row Tapered Roller Bearing



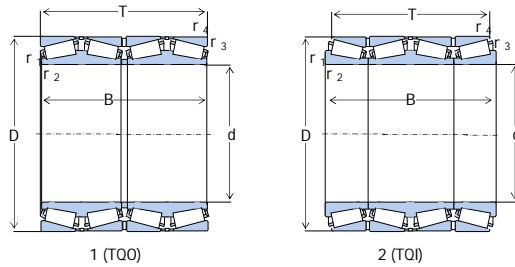
Boundary Dimensions (mm)			Designations		Design	Calculation Factors					Mass (kg)
d	D	T	New	Old		e	Y1	Y2	Y0	K	Refer.
560	920	618	560TQ0920-2		1	0.4	1.7	2.5	1.7	1.46	1670
	920	620	3811/560		1	0.4	1.68	2.5	1.64	1.46	1690
570	780	515	570TQ0780-1		1	0.36	1.9	2.8	1.8	1.62	752
	810	590	570TQ0810-1		1	0.33	2	3	2.0	1.77	998
571.5	812.8	593.725	M278749D/M278710/M278710D		1	0.33	2.03	3.02	1.98	1.77	1030
584.2	730.25	349.25	584TQ0730A-1		1	0.43	1.6	2.3	1.6	1.36	330
	762	401.638	LM778549D/LM778510/LM778510D		1	0.37	1.43	2.12	1.4	1.58	479
	901.573	539.75	EE665231D/665355/665356D		1	0.33	2	3	2.0	1.77	1280
	901.7	539.747	EE662300D/663550/663551D		1	0.33	2.04	3.03	1.99	1.77	1260
585.788	901.7	539.75	EE665231D/665355/665356D		1	0.33	2.03	3.02	1.98	1.77	1270
	771.525	479.425	LM278849D/LM278810/LM278810D		1	0.33	2.03	3.02	1.98	1.77	587
595	845	615	595TQ0845-1		1	0.33	2	3	2.0	1.77	1140
595.312	844.55	615.95	M280049D/M280010/M280010D		1	0.33	2.03	3.02	1.98	1.77	1130
596.9	980	609.6	596TQ0980A-1		1	0.4	1.7	2.5	1.6	1.45	1920
600	800	365		771/600	1						489
	800	380		10779/600	1	0.41	1.64	2.45	1.61	1.42	992
	855	620	600TQ0855-1		1	0.33	2	3	2.0	1.77	1170
600	870	415	600TQ0870-1		1	0.37	1.8	2.7	1.8	1.58	842
	870	488	600TQ0870-2		1	0.33	2	3	2	1.8	940
	980	615	600TQ0980-1		1	0.39	1.7	2.6	1.7	1.50	1890
	980	650		10777/600	1	0.32	2.1	3.1	2.1	1.82	1970
603.25	857.25	622.3	M280249D/M280210/M280210XD		1	0.33	2.03	3.02	1.98	1.77	1170
609.6	787.4	361.95	EE649242DW/649310/649311D		1	0.37	1.82	2.7	1.78	1.58	462
	813.562	479.425	LM280249DGW/LM280210/LM280210D		1	0.33	2	3	2	1.76	715
	817.4	361.95	609TQ0817A-1		1	0.33	2.03	3.02	1.98	1.77	496
	863.6	660.4	M280349D/M280310/M280310D		1	0.33	2	3	2.0	1.77	1260

Four Row Tapered Roller Bearing



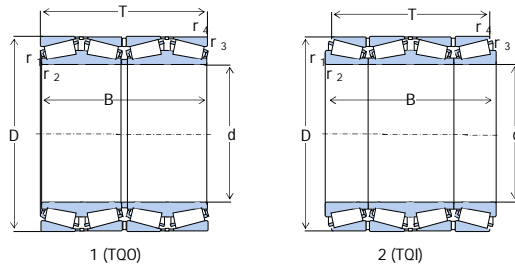
Boundary Dimensions (mm)			Designations		Design	Calculation Factors					Mass (kg)
d	D	T	New	Old		ϵ	γ_1	γ_2	γ_0	K	Refer.
611.5	832.8	593.72	611TQ0832A-1		1	0.33	2	3	2.0	1.77	981
620	800	363.5	620TQ0820-1		1	0.37	1.8	2.7	1.8	1.54	465
	800	365	620TQ0820-2		1	0.32	2.12	3.15	2.07	1.82	474
630	850	418	3819/630/HC		1						682
	890	650	630TQ0890-1		1	0.33	2	3	2.0	1.77	1310
920	920	440	630TQ0920-1		1	0.37	1.8	2.7	1.8	1.58	1010
	920	457.15	630TQ0920-2		1	0.33	2.03	3.02	1.98	1.77	1050
920	920	457.2	630TQ0920-3		1	0.37	1.8	2.7	1.8	1.58	1060
	920	515		771/630	1	0.43	1.56	2.33	1.53	1.36	1190
920	920	600	630TQ0920-4		1	0.36	1.9	2.8	1.8	1.62	1360
	1030	645	630TQ01030-1		1	0.37	1.8	2.7	1.8	1.58	2190
1030	670		3811/630/HC		1						2200
635	900	655	635TQ0900-1		1	0.33	2	3	2.0	1.77	1360
	900	660	635TQ0900-2		1	0.33	2	3	2.0	1.77	1380
901.7	654.05		M281049D/M281010/M281010XD		1	0.33	2.03	3.02	1.98	1.77	1360
640	1030	560		777/640L	1						1770
646.112	857.25	542.925	LM281049DW/LM281010/LM281010D		1	0.33	2	3	2.0	1.77	880
647.7	1028.7	565.15	EE424257DW/424405/424407D		1	0.31	2.2	3.2	2.1	1.87	1860
649.924	914.898	674	M281349D/M281310/M281310D		1	0.33	2.03	3.02	1.98	1.77	1390
650	915	674	M281349DGW/M281310/M281310D		1	0.33	2	3	2	1.76	1430
	1030	558.5	650TQ01030-1		1	0.32	2.12	3.15	2.07	1.82	1840
1030	560			777/650	1	0.31	2.1	3.2	2.1	1.88	1830
655	935	675	655TQ0935-1		1	0.33	2	3	2.0	1.77	1530
657.225	933.45	676.275	M281649D/M281610/M281610D		1	0.33	2.03	3.02	1.98	1.77	1520
659.924	854.924	318.48	EE749259D/749334/749335D		1	0.35	1.92	2.86	1.88	1.67	462

Four Row Tapered Roller Bearing



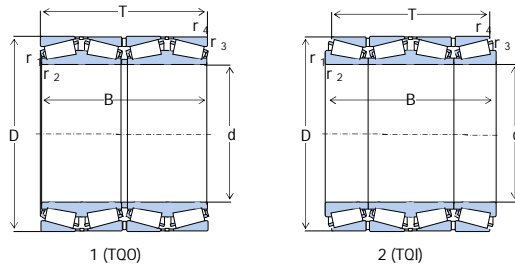
Boundary Dimensions (mm)			Designations		Design	Calculation Factors					Mass (kg)
d	D	T	New	Old		e	Y1	Y2	Y0	K	Refer.
660	855	318.48	EE749259DGW/749334/749335D		1	0.35	1.9	2.9	1.8	1.66	490
	855	320	660TQ0855-1		1	0.47	1.43	2.12	1.4	1.24	474
	1070	642	660TQ01070-1		1	0.33	2	3	2.0	1.77	2340
660.011	855.015	319.99	3806/660X4/HC		1	0.52	1.3	1.9	1.3	1.12	484
660.4	812.8	365.125	L281149D/L281110/L281110D		1	0.33	2.03	3.02	1.98	1.77	394
	1066.8	647.703	EE428262D/428420/428421XD		1	0.31	2.18	3.24	2.13	1.88	2240
670	900	412		10779/670	1						773
	950	700	670TQ0950-1		1	0.33	2	3	2.0	1.77	1620
	960	700	670TQ0960-1		1	0.33	2	3	2.0	1.77	1690
	980	475	670TQ0980-1		1	0.37	1.8	2.7	1.8	1.58	1240
	1090	690	670TQ01070-1		1	0.37	1.8	2.7	1.8	1.58	2600
676	910	620	676TQ0910-1		1	0.33	2	3	2	1.76	1150
679.45	901.7	552.45	LM281849D/LM281810/LM281810D		1	0.33	2.03	3.02	1.98	1.77	975
680	870	460	680TQ0870-1		1	0.42	1.6	2.4	1.6	1.39	695
	970	740	680TQ0970-1		1	0.33	2.03	3.02	1.98	1.77	1770
	1000	505	680TQ01000-1		1	0.33	2	3	2.0	1.77	1380
682.625	965.2	701.675	M282249D/M282210/M282210D		1	0.33	2	3	2.0	1.77	1670
685	965	700	685TQ0965-1		1	0.33	2	3	2.0	1.77	1650
685.8	876.3	355.6	EE655271DW/655345/655346D		1	0.42	1.6	2.4	1.6	1.39	543
708.025	930.275	365.15	LM282549D/LM282510/LM282510D		1	0.33	2	3	2.0	1.77	1070
710	900	410	L882449DGW/L882410/L882410D	779/710	1	0.35	1.9	2.9	1.8	1.66	660
	1000	730	710TQ0900-1		1	0.33	2	3	2.0	1.77	1850
	1030	490	710TQ01030-1		1	0.37	1.8	2.7	1.8	1.58	1390
	1150	710	710TQ01150-1		1	0.37	1.8	2.7	1.8	1.58	2970
711.2	914.4	317.5	EE755281D/755360/755361D		1	0.38	1.78	2.65	1.74	1.54	545
	914.4	355.6	711TQ0914A-1		1	0.44	1.5	2.3	1.5	1.33	607

Four Row Tapered Roller Bearing



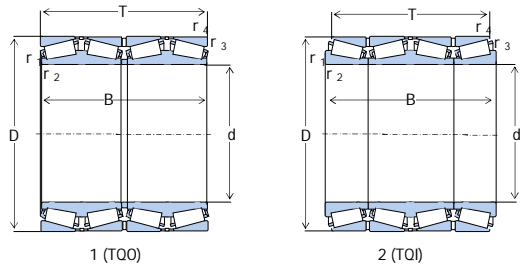
Boundary Dimensions (mm)			Designations		Design	Calculation Factors					Mass (kg)
d	D	T	New	Old		e	Y1	Y2	Y0	K	Refer.
714.375	1016	704.85	M383240D/M383210/M383210D		1	0.35	1.92	2.86	1.98	1.67	1850
717.55	946.15	565.15	LM282847D/LM282810/LM282810D		1	0.33	2.03	3.02	1.98	1.77	1030
730	940	500	730TQ0940-1		1	0.35	1.9	2.9	1.8	1.69	925
	1035	755	730TQ01035-1		1	0.33	2	3	2.0	1.77	2070
730.25	1035.05	755.65	M283449D/M283410/M283410D		1	0.33	2.03	3.02	1.98	1.77	2010
749.3	990.6	605	LM283649D/LM283610/LM283610D		1	0.32	2.12	3.15	2.07	1.82	132
	1066.8	736.6	EE325296D/325420/325421XD		1	0.33	2.1	3.1	2.0	1.77	2190
	1130.3	685.8	749TQ01130A-1		1	0.49	1.38	2.06	1.35	1.19	2330
750	1090	515	750TQ01090-1		1	0.37	1.8	2.7	1.8	1.58	1640
	1130	690	750TQ01130-1		1	0.48	1.4	2.1	1.4	1.2	2430
	1220	750	750TQ01220-1		1	0.37	1.8	2.7	1.8	1.58	3550
	1220	840		107770750	1	0.32	2.1	3.1	2.1	1.82	3985
762	1066.8	736.6	M284148DW/M284111/284110D		1	0.33	2.1	3.1	2.0	1.77	2100
	1079.5	787.4	M284249D/M284210/M284210XD		1	0.33	2.03	3.02	1.98	1.77	2270
780	1220	840	3806/780/HCC9		1						38100
785	1030	605	785TQ01030-1		1	0.42	1.6	2.4	1.6	1.39	1390
785	1040	560	785TQ01040-1		1	0.42	1.6	2.4	1.6	1.39	1330
	1120	820	800TQ01120-1		1	0.33	2	3	2.0	1.77	2600
	1150	535	800TQ01150-1		1	0.39	1.74	2.59	1.7	1.50	1850
	1280	770	800TQ01280-1		1	0.39	1.74	2.59	1.7	1.50	3890
812.8	1143	768.35	812TQ01143A-1		1	0.33	2	3	2	1.76	2590
825.5	1168.4	844.55	M285848D/0285810/M285810D		1	0.33	2.03	3.02	1.98	1.77	2990
825.5	1193.8	812.8	EE631325DW/631470/631470D		1	0.39	1.7	2.6	1.7	1.49	3110
840	1170	840	840TQ01170-1		1	0.33	2	3	2.0	1.77	2900

Four Row Tapered Roller Bearing



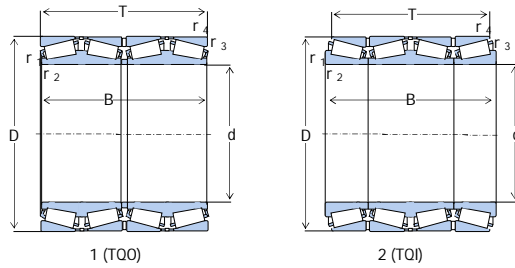
Boundary Dimensions (mm)			Designations		Design	Calculation Factors					Mass (kg)
d	D	T	New	Old		e	Y1	Y2	Y0	K	Refer.
850	1220	565	850TQ01220-1		1	0.39	1.74	2.59	1.7	1.50	2190
	1360	820	850TQ01360-1		1	0.39	1.74	2.59	1.7	1.50	4670
	1360	910	850TQ01360-2		1	0.35	1.9	2.9	1.8	1.62	5440
863.6	1130.3	669.925	LM286249D/LM286210/LM286210D		1	0.32	2.08	3.1	2.04	1.82	1780
	1169.987	844.55	863TQ01169A-1		1	0.33	2	3	2	1.76	2700
	1181.1	666.75	LM286449DGW/LM286410/LM286410D		1	0.33	2	3	2	1.76	2150
	1219.2	876.389	863TQ01219A-1		1	0.33	2	3	2.0	1.77	3350
	1219.2	889	EE547341D/547480/547481D		1	0.33	2.03	3.02	1.98	1.77	3330
877.888	1220	844.55	LM286749DGW/LM286711/LM286710		1	0.33	2	3	2	1.76	3080
900	1280	580	900TQ01280-1		1	0.39	1.74	2.59	1.7	1.50	2430
901.7	1295.4	914.4	EE634356D-510-510D		1	0.33	2	3	2.0	1.77	4010
938.213	1270	825.5	LM287649D/LM287610/LM287610D		1	0.33	2.03	3.02	1.98	1.77	3150
939.8	1333.5	952.5	LM287849D/LM287810/LM287810D		1	0.33	2.03	3.02	1.98	1.77	4380
950	1360	620	950TQ01360-1		1	0.39	1.74	2.59	1.7	1.50	2970
1001	1360	800	1001TQ01360-1		1	0.31	2.2	3.3	2.2	1.83	3390
1003.3	1358.9	800.1	1003TQ01358A-1		1	0.31	2.2	3.3	2.2	1.83	3450
1006.475	1295.4	764	LM288249D/LM288210/LM288210D		1	0.33	2	3	2.0	1.77	2590
1070	1400	889.762	1070TQ01400-1		1	0.33	2	3	2	1.76	3730
1080	1450	950	1080TQ01450-1		1	0.33	2	3	2	1.76	4450
1200.15	1593.85	990.6	LM288949DGW/LM288910/LM288910D		1	0.33	2	3	2	1.76	5635
1250	1550	890	1250TQ01550-1		1	0.33	2	3	2	1.77	3820
1260	1640	1000	1260TQ01640-1		1	0.31	2.2	3.3	2.2	1.83	5800

Four Row Tapered Roller Bearing



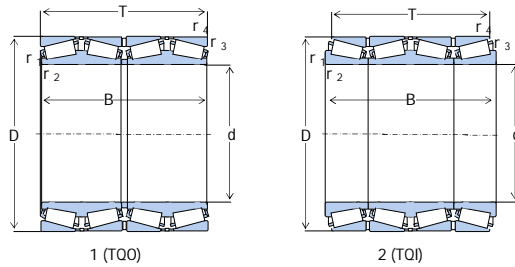
Boundary Dimensions (mm)			Designations		Design	Calculation Factors					Mass (kg)
d	D	T	New	Old		e	γ_1	γ_2	γ_0	K	$R_{eRefer.}$
1300	1720	1040	1300TQ01720-1		1	0.33	2	3	2	1.76	7000
1370	1765	1050	1370TQ01765-1		1	0.33	2	3	2	1.76	6960
1500	1900	1080	1500TQ01900-1		1	0.35	1.9	2.9	1.8	1.68	7700
	1915	1105	1500TQ01915-1		1	0.33	2	3	2.0	1.77	8410
1580	1960	1080	1580TQ01960-1		1	0.33	2	3	2	1.77	7800

Four Row Tapered Roller Bearing



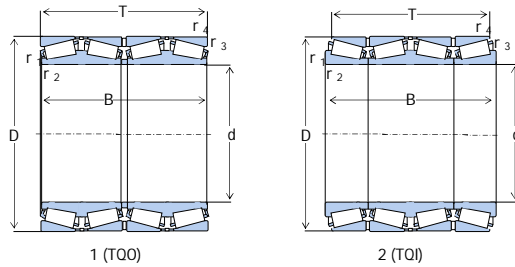
Boundary Dimensions (mm)						Basic load ratings (kN)		Designations	Calculation Factors					Mass (kg)
d	D	F	B	r1.3min r1.3min	r3.5min r3.5min	C _r	Cor		e _e	Y ₁	Y ₂	Y ₀	K	Refer.
152.4	244.475	187.325	192.088	1	3.3	1300	2160	152TQOS244-1	0.33	2	3	2	1.76	30
203.2	317.5	266.7	266.7	2.5	3.3	2460	4900	203TQOS317-1	0.31	2.2	3.3	2.2	1.86	76
206.375	282.575	226	226	0.6	3.3	1300	3350	206TQOS282-1	0.5	1.4	2	1.3	1.15	40
220.662	314.325	239.712	239.712	1.5	3.3	1790	3800	220TQOS314-1	0.35	1.9	2.9	1.8	1.71	56
228.6	400.05	296.875	296.875	2.5	3.3	3360	5700	228TQOS400-1	0.44	1.5	2.3	1.4	1.3	148
241.478	349.148	228.6	228.6	1.5	3.3	1900	3650	241TQOS349-1	0.35	1.9	2.9	1.8	1.62	64
254	358.775	269.875	269.875	1.5	3.3	2330	5400	254TQOS358-1	0.33	2	3	2	1.76	84
260	365	340	340	2.5	3.5	3140	8000	260TQOS365-1	0.35	1.9	2.9	1.8	1.63	112
266.7	355.6	228.6	230.188	1.5	3.3	1720	4150	266TQOS355-1	0.35	1.9	2.9	1.8	1.66	68
276.225	393.7	269.875	269.875	1	6.4	2750	5850	276TQOS393-1	0.37	1.8	2.7	1.8	1.55	96
280	395	340	340	2.5	3.5	3580	8650	280TQOS395-1	0.33	2	3	2	1.77	128
285.75	380.898	244.475	244.475	1	3.3	2200	5500	285TQOS380-1	0.43	1.6	2.3	1.6	1.38	74
300	440	279.4	280.99	3.3	4.8	3080	6700	300TQOS440-1	0.46	1.5	2.2	1.4	1.29	137
304.648	438.048	279.4	280.99	2	4.8	3080	6700	304TQOS438-1	0.46	1.5	2.2	1.4	1.29	129
304.8	419.1	269.875	269.875	1	6.4	2860	6950	304TQOS419-1	0.35	1.9	2.9	1.8	1.62	108
	501.65	336.55	336.55	2	6.4	4730	9300	304TQOS501-1	0.4	1.7	2.5	1.6	1.47	254
304.902	412.648	266.7	266.7	1	3.3	2700	6700	304TQOS412-1	0.31	2.2	3.3	2.2	1.85	100
305	438.048	279.4	280.99	2	4.8	3080	6700	305TQOS438-1	0.46	1.5	2.2	1.4	1.29	129
317.5	422.275	269.875	269.875	1.5	3.3	2640	6550	317TQOS422-1	0.33	2	3	2	1.76	98

Four Row Tapered Roller Bearing



Boundary Dimensions (mm)						Basic load ratings (kN)		Designations	Calculation Factors					Mass (kg)
d	D	T	T	r1.3min	r3.5min	Cr	Cor		e	Y1	Y2	Y0	K	Refer.
333.375	469.9	342.9	342.9	2.5	3.3	4290	10400	333TQOS469-1	0.33	2	3	2	1.73	182
343.052	457.098	254	254	1	3.3	2330	6000	343TQOS457-1	0.68	1	1.5	1	0.84	109
355.6	482.6	269.875	265.112	1.5	3.3	3080	7500	355TQOS482-1	0.46	1.5	2.2	1.4	1.24	136
	488.95	317.5	317.5	1	3.3	4130	10000	355TQOS488-1	0.33	2	3	2	1.75	172
385.762	514.35	317.5	317.5	1	3.3	3910	10000	385TQOS514-1	0.4	1.7	2.5	1.6	1.49	174
406.4	546.1	288.925	288.925	1.5	6.4	3910	9500	406TQOS546-1	0.48	1.4	2.1	1.4	1.22	183
	546.1	330	330	1.5	6.4	4020	10200	406TQOS546-2	0.48	1.4	2.1	1.4	1.23	202
409.575	546.1	334.962	334.962	1	6.4	4570	12000	409TQOS546-1	0.4	1.7	2.5	1.6	1.47	210
415.925	590.55	434.975	434.975	3.3	6.4	7040	18000	415TQOS590-1	0.33	2	3	2	1.78	379
416	574	440	440	2.5	5	6050	17000	416TQOS574-1	0.33	2	3	2	1.74	341
430	575	380	380	1.5	5	5230	14300	430TQOS575-1	0.33	2	3	2	1.77	267
440	590	480	480	1	5	7040	19200	440TQOS590-1	0.28	2.4	3.6	2.5	2.12	371
	650	353.5	353.5	5.5	6.4	6160	13200	440TQOS650-1	0.33	2	3	2	1.82	378
450	595	398	398	2	6	5500	16300	450TQOS595-1	0.33	2	3	2	1.76	301
457.2	596.9	279.4	276.225	1.5	3.3	3960	10000	457TQOS596-1	0.48	1.4	2.1	2.1	1.24	191
460	610	360	360	3	6	5120	12900	460TQOS610-1	0.37	1.8	2.7	1.8	1.56	270
475	600	368	368	2	6	4730	14000	475TQOS600-1	0.33	2	3	2	1.81	235
479.425	679.45	495.3	495.3	3.3	6.4	8580	2240	479TQOS679-1	0.33	2	3	2	1.76	565
482.6	615.95	330.2	330.2	1	6.4	4950	13700	482TQOS615-1	0.33	2	3	2	1.76	232
	615.95	402.05	402.05	1	6.4	5610	17300	482TQOS615-2	0.33	2	3	2	1.76	290
482.6	630	420	420	3.3	6.4	5940	17000	482TQOS630-1	0.33	2	3	2	1.76	325
489.026	634.873	320.675	320.675	1	3.3	4840	12500	489TQOS634-1	0.37	1.8	2.7	1.8	1.54	248

Four Row Tapered Roller Bearing



Boundary Dimensions (mm)						Basic load ratings (kN)		Designations	Calculation Factors					Mass (kg)
d	D	T	T	r1.3min	r3.5min	Cr	Cor		e	Y1	Y2	Y0	K	Refer.
510	655	379	377	1.5	6.4	5720	16300	510TQOS655-1	0.35	1.9	2.9	1.8	1.64	311
540	690	434	434	2	5	7040	21200	540TQOS690-1	0.33	2	3	2	1.7	392
558.8	736.6	322.262	322.262	1.5	6.4	5830	14300	558TQOS736-1	0.35	1.9	2.9	1.8	1.7	343
	736.6	409.575	409.575	3.3	6.4	6600	20000	558TQOS736-2	0.48	1.4	2.1	1.4	1.21	475
	736.6	457.2	455.612	3.3	6.4	7920	23200	558TQOS736-3	0.35	1.9	2.9	1.8	1.69	515
571.5	812.8	593.725	593.725	3.3	6.4	11900	33500	571TQOS812-1	0.33	2	3	2	1.78	998
585.788	771.525	479.425	479.425	4	6.4	9520	27500	585TQOS771-1	0.33	2	3	2	1.78	596
609.6	787.4	361.95	361.95	3.3	6.4	6820	18600	609TQOS787-1	0.37	1.8	2.7	1.8	1.58	430
	813.562	479.425	479.425	3.3	6.4	9680	27500	609TQOS813-1	0.37	1.8	2.7	1.8	1.61	693
635	901.7	654.05	654.05	3.3	6.4	14500	41500	635TQOS901-1	0.35	1.9	2.9	1.8	1.64	1354
679.45	901.7	552.45	552.45	3.3	6.4	12100	36000	679TQOS901-1	0.33	2	3	2	1.76	975
682.625	965.2	701.675	701.675	3.3	6.4	17200	49000	682TQOS965-1	0.35	1.9	2.9	1.8	1.69	651
685.8	876.3	355.6	352.425	3.3	6.4	7210	20000	685TQOS876-1	0.37	1.8	2.7	1.8	1.62	506
710	900	410	410	3	6	8250	24000	710TQOS900-1	0.33	2	3	2	1.8	602
711.2	914.4	317.5	317.5	2.5	6.4	6600	17300	711TQOS914-1	0.37	1.8	2.7	1.8	1.57	490
749.3	990.6	605	605	3.3	6.4	13200	40500	749TQOS990-1	0.37	1.8	2.7	1.8	1.59	1274
762	1079.5	787.4	784.4	4.8	12.7	21200	61000	762TQOS1079-1	0.35	1.9	2.9	1.8	1.68	2248
825.5	1168.4	844.55	844.55	4.8	12.7	24600	73500	825TQOS1168-1	0.31	2.2	3.3	2.2	1.85	2958
863.6	1169.987	844.55	844.55	4.8	12.7	23300	71000	863TQOS1169-1	0.37	1.8	2.7	1.8	1.6	2630