

# Product Catalogue



**AUSTIN ENGINEERING COMPANY LIMITED**

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<b>Symbols</b> .....	SYM 1
<b>Tolerance Tables</b> .....	TOL 1
<b>Clearance Tables</b> .....	CLR 1

## **Angular Contact Ball Bearings**

Single Row Metric Series .....	ABB 1
Single Row Inch Series .....	ABB 4
Double Row Metric Series .....	ABB 6

## **Ball Bearings**

Single Row Metric Series .....	BB 1
Single Row Inch Series .....	BB 8
Double Row Metric Series .....	BB 12
Wide Metric Series .....	BB 14
Four-Point Contact Metric Series .....	BB 16
Self Aligning Metric Series.....	BB 18
Self Aligning Inch Series.....	BB 21
Magneto Metric Series.....	BB 24
Thrust Metric Series .....	BB 25
Thrust Inch Series .....	BB 29
Thrust Full Complement Inch Series .....	BB 32

<b>Barrel Roller Bearings</b> .....	BRB 1
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## Cylindrical Roller Bearings

Single Row Metric Series .....	CRB 1
Single Row Inch Series .....	CRB 28
Double Row Metric Series .....	CRB 33
Full Complement Metric Series .....	CRB 35
Without Inner Ring .....	CRB 36
Thrust Metric Series .....	CRB 37
Thrust Inch Series .....	CRB 40

<b>Flexible Roller Bearings</b> .....	FRB 1
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## Needle Roller Bearings

Metric Series .....	NRB 1
Inch Series .....	NRB 4
Without Inner Ring Metric Series .....	NRB 6
Without Inner Ring Inch Series .....	NRB 10
Inner Ring Inch Series .....	NRB 12
Cage Assemblies .....	NRB 15

<b>Spherical Roller Bearings</b> .....	SRB 1
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Radial Metric Series .....	SRB 1
Thrust Metric Series .....	SRB 7

<b>Tapered Roller Bearings</b> .....	TRB 1
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Single Row Metric Series .....	TRB 1
Single Row Inch Series .....	TRB 8
Double Row Metric Series .....	TRB 15
Four Row Metric & Inch Series .....	TRB 17
Thrust Inch Series .....	TRB 18

Symbol	Definition
<b>d</b>	Nominal bore diameter
<b>d<sub>s</sub></b>	Single bore diameter
<b>d<sub>mp</sub></b>	1. Mean bore diameter; arithmetical mean of the largest and smallest single bore diameters in one plane 2. Mean diameter at the small end of a tapered bore; arithmetical mean of the largest and smallest single diameters
<b>Δd<sub>s</sub></b>	Deviation of single bore diameter from the nominal
<b>Δd<sub>mp</sub></b>	Deviation of the mean bore diameter from the nominal
<b>d<sub>1</sub></b>	Nominal diameter at theoretical large end of a tapered bore
<b>d<sub>1mp</sub></b>	Mean diameter at theoretical large end of tapered bore; arithmetical mean of the largest and smallest single bore diameters
<b>Δd<sub>1mp</sub></b>	Deviation of the mean bore diameter at the theoretical large end of a tapered bore from the nominal
<b>V<sub>dp</sub></b>	Bore diameter variation; difference between the largest and smallest single bore diameters in one plane
<b>V<sub>dmp</sub></b>	Mean bore diameter variation; difference between the largest and smallest mean bore diameters in one plane
<b>D</b>	Nominal outside diameter
<b>D<sub>s</sub></b>	Single outside diameter
<b>D<sub>mp</sub></b>	Mean outside diameter; arithmetical mean of the largest and smallest single outside diameters in one plane
<b>ΔD<sub>s</sub></b>	Deviation of single outside diameter from the nominal
<b>ΔD<sub>mp</sub></b>	Deviation of the mean outside diameter from the nominal
<b>V<sub>Dp</sub></b>	Outside diameter variation; difference between the largest and smallest single outside diameters in one plane
<b>V<sub>Dmp</sub></b>	Mean bore diameter variation; difference between the largest and smallest mean outside diameters of one ring or washer
<b>r<sub>s</sub></b>	Single chamfer dimension
<b>r<sub>s min</sub></b>	Smallest single chamfer dimension

Symbol	Definition
<b>r<sub>1</sub>, r<sub>3</sub></b>	Radial direction chamfer dimension
<b>r<sub>2</sub>, r<sub>4</sub></b>	Axial direction chamfer dimension
<b>B, C</b>	Nominal width of inner ring and outer ring, respectively
<b>B<sub>s</sub>, C<sub>s</sub></b>	Single width of inner ring and outer ring, respectively
<b>B<sub>1s</sub>, C<sub>1s</sub></b>	Single width of inner ring and outer ring, respectively, of a bearing specifically manufactured for paired mounting
<b>ΔB<sub>s</sub>, ΔC<sub>s</sub></b>	Deviation of single, inner ring or outer ring width, from the nominal
<b>V<sub>Bs</sub>, V<sub>Cs</sub></b>	Ring width variation; difference between the largest and smallest single widths of inner ring and or outer ring, respectively
<b>T<sub>s</sub></b>	1. Single width of taper roller bearing; distance between cone back face and cup back face 2. Single height of single direction thrust bearing except spherical roller thrust bearing
<b>T<sub>1s</sub></b>	1. Single width of cup assembled with master cup of taper roller bearing 2. Single height of double direction thrust ball bearing with seating washer
<b>T<sub>2s</sub></b>	1. Single width of cup assembled with master cone of taper roller bearing 2. Single height of double direction thrust bearing
<b>T<sub>3s</sub></b>	Single height of double direction thrust ball bearing with seating washer
<b>T<sub>4s</sub></b>	Single height of spherical roller thrust bearing
<b>ΔT<sub>s</sub>, ΔT<sub>1s</sub></b>	1. Deviation of single width of taper roller bearing from the nominal 2. Deviation of single height of thrust bearing from the nominal
<b>K<sub>ia</sub>, K<sub>ea</sub></b>	Radial runout of assembled bearing inner ring and assembled bearing outer ring, respectively
<b>S<sub>d</sub></b>	Side face runout with reference to bore
<b>S<sub>D</sub></b>	Outside inclination variation; variation in inclination of outside cylindrical surface to outer ring side face
<b>S<sub>ia</sub>, S<sub>ea</sub></b>	Side face runout of assembled bearing inner ring and assembled bearing outer ring, respectively
<b>S<sub>i</sub>, S<sub>e</sub></b>	Thickness variation, measured from middle of raceway to back face of shaft washer and of housing washer, respectively

# Normal Tolerances

## Radial Bearings

*except taper roller bearings*



### Inner Ring

d		$\Delta d_{mp}$		$V_{dp}$			$V_{dmp}$	$\Delta B_s$		$\Delta B_{1s}$		$V_{Bs}$	$K_{ia}$
mm		$\mu m$		Diameter Series									
				7, 8, 9	0, 1	2, 3, 4							
over	incl.	high	low	max	max	max	max	high	low	high	low	max	max
-	2,5	0	-8	10	8	6	6	0	-40	-	-	12	10
2,5	10	0	-8	10	8	6	6	0	-120	0	-250	15	10
10	18	0	-8	10	8	6	6	0	-120	0	-250	20	10
18	30	0	-10	13	10	8	8	0	-120	0	-250	20	13
30	50	0	-12	15	12	9	9	0	-120	0	-250	20	15
50	80	0	-15	19	19	11	11	0	-150	0	-380	25	20
80	120	0	-20	25	25	15	15	0	-200	0	-380	25	25
120	180	0	-25	31	31	19	19	0	-250	0	-500	30	30
180	250	0	-30	38	38	23	23	0	-300	0	-500	30	40
250	315	0	-35	44	44	26	26	0	-350	0	-500	35	50
315	400	0	-40	50	50	30	30	0	-400	0	-630	40	60
400	500	0	-45	56	56	34	34	0	-450	0	-630	50	65
500	630	0	-50	63	63	38	38	0	-500	0	-	60	70
630	800	0	-75	-	-	-	-	0	-750	-	-	70	80
800	1000	0	-100	-	-	-	-	0	-1000	-	-	80	90
1000	1250	0	-125	-	-	-	-	0	-1250	-	-	100	100
1250	1600	0	-160	-	-	-	-	0	-1600	-	-	120	120
1600	2000	0	-200	-	-	-	-	0	-2000	-	-	140	140

## Outer Ring

D		$\Delta d_{mp}$		$V_{Dp}$			$V_{Dmp}$	$\Delta C_s, \Delta C_{1s}, VC_s$	$K_{ea}$
mm		$\mu m$		Diameter Series			Bearings with shields or seals		
over	incl.	high	low	max	max	max	max		max
6	18	0	-8	10	8	6	10	6	Values identical to those for inner ring
18	30	0	-9	12	9	7	12	7	15
30	50	0	-11	14	11	8	16	8	20
50	80	0	-13	16	13	10	20	10	25
80	120	0	-15	19	19	11	26	11	335
120	150	0	-18	23	23	14	30	14	40
150	180	0	-25	31	31	19	38	19	45
180	250	0	-30	38	38	23	-	23	50
250	315	0	-35	44	44	56	-	26	60
315	400	0	-40	50	51	30	-	30	70
400	500	0	-45	56	56	34	-	34	80
500	630	0	-50	61	61	38	-	38	100
630	800	0	-75	94	94	55	-	55	120
800	1000	0	-100	125	125	75	-	75	140
1000	1250	0	-125	-	-	-	-	-	160
1250	1600	0	-160	-	-	-	-	-	190
1600	2000	0	-200	-	-	-	-	-	220
2000	2500	0	-250	-	-	-	-	-	250

# Class P6 Tolerances

## Radial Bearings

*except taper roller bearings*



### Inner Ring

d		$\Delta d_{mp}$		$V_{dp}$			$V_{dmp}$	$\Delta B_s$		$\Delta B_{1s}$		$V_{Bs}$	$K_{ia}$
mm		$\mu m$		Diameter Series									
over	incl.	high	low	7, 8, 9	0, 1	2, 3, 4		high	low	high	low	max	max
-	2.5	0	-7	9	7	5	5	0	-40	-	-	12	5
2.5	10	0	-7	9	7	5	5	0	-120	0	-250	15	6
10	18	0	-7	9	7	5	5	0	-120	0	-250	20	7
18	30	0	-8	10	8	6	6	0	-120	0	-250	20	8
30	50	0	-10	13	10	8	8	0	-120	0	-250	20	10
50	80	0	-12	15	45	9	9	0	-150	0	-380	25	10
80	120	0	-15	19	19	11	11	0	-200	0	-380	25	13
120	180	0	-18	23	23	14	14	0	-250	0	-500	30	18
180	250	0	-22	28	28	17	17	0	-300	0	-500	30	20
250	315	0	-25	31	31	19	19	0	-350	0	-500	35	25
315	400	0	-30	38	38	23	23	0	-400	0	-630	40	30
400	500	0	-35	44	44	26	26	0	-450	0	-630	45	35
500	630	0	-40	50	50	30	30	0	-500	0	-800	50	40
630	800	0	-50	-	-	-	-	0	-750	-	-	55	45
800	1000	0	-65	-	-	-	-	0	-1000	-	-	60	50
1000	1250	0	-80	-	-	-	-	0	-1250	-	-	70	60
1250	1600	0	-100	-	-	-	-	0	-1600	-	-	70	70
1600	2000	0	-130	-	-	-	-	0	-2000	-	-	80	80

## Outer Ring

D		$\Delta d_{mp}$		$V_{Dp}$			$V_{Dmp}$	$\Delta C_s, \Delta C_{1s}, VC_s$	$K_{ea}$	
mm		$\mu m$		Diameter Series			Bearings with shields or seals			
				7, 8, 9	0, 1	2, 3, 4				
over	incl.	high	low	max	max	max	max	max	max	
6	18	0	-7	9	7	5	9	5	Values identical to those for inner ring	8
18	30	0	-8	10	8	6	10	6		9
30	50	0	-9	11	9	7	13	7		10
50	80	0	-11	14	11	8	16	8		13
80	120	0	-13	16	16	10	20	10		18
120	150	0	-15	19	19	11	25	11		20
150	180	0	-18	23	23	14	30	14		23
180	250	0	-20	25	25	15	-	15		25
250	315	0	-25	31	31	19	-	19		30
315	400	0	-28	35	35	21	-	21		35
400	500	0	-33	41	41	25	-	25		40
500	630	0	-38	48	48	29	-	29		50
630	800	0	-45	56	56	31	-	34		60
800	1000	0	-60	75	75	45	-	45		75
1000	1250	0	-80	-	-	-	-	-		85
1250	1600	0	-100	-	-	-	-	-		100
1600	2000	0	-130	-	-	-	-	-		100
2000	2500	0	-160	-	-	-	-	-		120



# Class P5 Tolerances

## Radial Bearings

*except taper roller bearings*



### Inner Ring

d		$\Delta d_{mp}$		$V_{dp}$		$V_{dmp}$	$\Delta B_s$	$\Delta B_{1s}$		$V_{Bs}$	$K_{ia}$	$S_d$	$S_{ia}$	
mm		$\mu m$		Diameter Series										
				7, 8, 9		0, 1, 2, 3, 4								
over	incl.	high	low	max	max	max	high	low	high	low	max	max	max	max
-	2,5	0	-5	5	4	3	0	-40	0	-250	5	4	7	7
2,5	10	0	-5	5	4	3	0	-40	0	-250	5	4	7	7
10	18	0	-5	5	4	3	0	-80	0	-250	5	4	7	7
18	30	0	-6	6	5	3	0	-120	0	-250	5	4	8	8
30	50	0	-8	8	6	4	0	-120	0	-250	5	5	8	8
50	80	0	-9	9	7	5	0	-150	0	-250	6	5	8	8
80	120	0	-10	10	8	5	0	-200	0	-380	7	6	9	9
120	180	0	-13	13	10	7	0	-250	0	-380	8	8	10	10
180	250	0	-15	15	12	8	0	-300	0	-500	10	10	11	13
250	315	0	-18	18	14	9	0	-350	0	-500	13	13	13	15
315	400	0	-23	23	18	1	0	-400	0	-630	15	15	15	21
400	500	0	-27	28	21	1	0	-450	0	-630	18	17	18	23
500	630	0	-33	35	26	1	0	-500	0	-800	20	19	20	25
630	800	0	-40	-	-	-	0	-750	-	-	26	22	26	30
800	1000	0	-50	-	-	-	0	-1000	-	-	32	26	32	30
1000	1250	0	-65	-	-	-	0	-1250	-	-	38	30	38	30
1250	1600	0	-80	-	-	-	0	-1600	-	-	45	35	45	30
1600	2000	0	-100	-	-	-	0	-2000	-	-	55	40	55	30

## Outer Ring

D		$\Delta D_{mp}$		$V_{Dp}$	$V_{Dmp}$	$\Delta C_s, \Delta C_{1s}$	$V_{Cs}$	$K_{ea}$	$S_D$	$S_{ea}$	
mm		$\mu m$		Diameter Series							
				7, 8, 9	0, 1, 2, 3, 4						
over	incl.	high	low	max	max	max		max	max	max	max
6	18	0	-5	5	4	3	Values are identical to those for inner ring	5	5	8	8
18	30	0	-6	6	5	3		5	6	8	8
30	50	0	-7	7	5	4		5	7	8	8
50	80	0	-9	9	7	5		6	8	8	10
80	120	0	-10	10	8	5		8	10	9	11
120	150	0	-11	11	8	6		8	11	10	13
150	180	0	-13	13	10	7		8	13	10	14
180	250	0	-15	15	11	8		10	15	11	15
250	315	0	-18	18	14	9		11	18	13	18
315	400	0	-20	20	15	10		13	20	13	20
400	500	0	-23	23	17	12		15	23	15	23
500	630	0	-28	28	21	14		18	25	18	25
630	800	0	-35	35	26	18		20	30	20	30
800	1000	0	-40	50	29	25		25	35	25	35
1000	1250	0	-50	-	-	-		30	40	30	45
1250	1600	0	-65	-	-	-		35	45	35	55
1600	2000	0	-85	-	-	-		38	55	40	55
2000	2500	0	-110	-	-	-		45	65	50	55

# Normal Tolerances

## Taper Roller Bearings

Metric Series



### Inner Ring/Cone

d		$\Delta d_{mp}$		$V_{dp}$	$V_{dmp}$	$\Delta B_s$		$K_{ia}$	$\Delta T_s$		$\Delta T_{1s}$		$\Delta T_{1s}$	
mm		$\mu m$												
over	incl.	high	low	max	max	high	low	max	high	low	high	low	high	low
10	18	0	-12	12	9	0	-120	15	+200	0	+100	0	+100	0
18	30	0	-12	12	9	0	-120	18	+200	0	+100	0	+100	0
30	50	0	-12	12	9	0	-120	20	+200	0	+100	0	+100	0
50	80	0	-15	15	11	0	-150	25	+200	0	+100	0	+100	0
80	120	0	-20	20	15	0	-200	30	+200	-200	+100	-100	+100	-100
120	180	0	-25	25	19	0	-250	35	+350	-250	+150	-150	+200	-100
180	250	0	-30	30	23	0	-300	50	+350	-250	+150	-150	+200	-100
250	315	0	-35	35	26	0	-350	60	+350	-250	+150	-150	+200	-100
315	400	0	-40	40	30	0	-400	70	+400	-400	+200	-200	+200	-200
400	500	0	-45	45	34	0	-450	70	+400	-400				
500	630	0	-50	50	38	0	-500	85	+500	-500				
630	800	0	-75	75	56	0	-750	100	+600	-600				
800	1000	0	-100	100	75	0	-1000	120	+750	-750				
1000	1250	0	-125	-	-	0	-1250	120	+1000	-1000				
1250	1600	0	-160	-	-	0	-1600	120	+1500	-1500				
1600	2000	0	-200	-	-	0	-2000	120	+1500	-1500				

## Outer Ring/Cup

D		$\Delta D_{mp}$		$V_{Dp}$	$V_{Dmp}$	$\Delta C_s$	$K_{ea}$
mm		$\mu m$					
over	incl.	high	low	max	max		max
18	30	0	-12	12	9	Values are identical to those for inner ring/cone	18
30	50	0	-14	14	11		20
50	80	0	-16	16	12		25
80	120	0	-18	18	14		35
120	150	0	-20	20	15		40
150	180	0	-25	25	19		45
180	250	0	-30	30	23		50
250	315	0	-35	35	26		60
315	400	0	-40	40	30		70
400	500	0	-45	45	34		80
500	630	0	-50	50	38		100
630	800	0	-75	75	55		120
800	1000	0	-100	100	75		120
1000	1250	0	-125	125	94		120
1250	1600	0	-160	160	120		120
1600	2000	0	-200	-	-		120
2000	2500	0	-250	-	-		120

# Class CLN Tolerances

Taper Roller Bearings

Metric Series



## Inner Ring/Cone

d		$\Delta d_{mp}$		$V_{dp}$	$V_{dmp}$	$\Delta B_s$		$K_{ia}$	$\Delta T_s$		$\Delta T_{1s}$		$\Delta T_{1s}$	
mm		$\mu m$												
over	incl.	high	low	max	max	high	low	max	high	low	high	low	over	incl.
10	18	0	-12	12	9	0	-50	15	+100	0	+50	0	+50	0
18	30	0	-12	12	9	0	-50	18	+100	0	+50	0	+50	0
30	50	0	-12	12	9	0	-50	20	+100	0	+50	0	+50	0
50	80	0	-15	15	11	0	-50	25	+100	0	+50	0	+50	0
80	120	0	-20	20	15	0	-100	30	+100	0	+50	0	+50	0
120	180	0	-25	25	19	0	-100	35	+150	0	+50	0	+100	0
180	250	0	-30	30	23	0	-150	50	+150	0	+50	0	+100	0
250	315	0	-35	35	26	0	-150	60	+200	0	+100	0	+100	0
315	400	0	-40	40	30	0	-200	70	+200	0	+100	0	+100	0
400	500	0	-45	45	34	0	-200	70	+200	0	-	-	-	-
500	630	0	-50	50	38	0	-250	85	+250	0	-	-	-	-
630	800	0	-75	75	56	0	-350	100	+300	0	-	-	-	-
800	1000	0	-100	100	75	0	-500	120	+350	0	-	-	-	-
1000	1250	0	-125	-	-	0	-600	120	+500	0	-	-	-	-
1250	1600	0	-160	-	-	0	-800	120	+750	0	-	-	-	-
1600	2000	0	-200	-	-	0	-1000	120	+750	0	-	-	-	-

## Outer Ring/Cup

D		$\Delta D_{mp}$		$V_{Dp}$	$V_{Dmp}$	$\Delta C_s$		$K_{ea}$	
mm		$\mu m$							
over	incl.	high	low	max	max	high	low	max	max
18	30	0	-12	12	9	0	-100	18	
30	50	0	-14	14	11	0	-100	20	
50	80	0	-16	16	12	0	-100	25	
80	120	0	-18	18	14	0	-100	35	
120	150	0	-20	20	15	0	-150	40	
150	180	0	-25	25	19	0	-200	45	
180	250	0	-30	30	23	0	-250	50	
250	315	0	-35	35	26	0	-300	60	
315	400	0	-40	40	30	0	-350	70	
400	500	0	-45	45	34	0	-400	80	
500	630	0	-50	50	38	0	-450	100	
630	800	0	-75	75	55	0	-500	120	
800	1000	0	-100	100	75	0	-750	120	
1000	1250	0	-125	125	94	0	-1000	120	
1250	1600	0	-160	160	120	0	-1250	120	
1600	2000	0	-200	-	-	0	-1600	120	
2000	2500	0	-250	-	-	0	-2000	120	

# Class P5 Tolerances

## Taper Roller Bearings

Metric Series



### Inner Ring/Cone

d		$\Delta d_{mp}$		$V_{dp}$	$V_{dmp}$	$\Delta B_s$		$K_{ia}$	$\Delta T_s$		$\Delta T_{1s}$		$\Delta T_{1s}$	
mm		$\mu m$												
over	incl.	high	low	max	max	high	low	max	high	low	high	low	high	low
10	18	0	-12	12	9	0	-120	15	+200	0	+100	0	+100	0
18	30	0	-12	12	9	0	-120	18	+200	0	+100	0	+100	0
30	50	0	-12	12	9	0	-120	20	+200	0	+100	0	+100	0
50	80	0	-15	15	11	0	-150	25	+200	0	+100	0	+100	0
80	120	0	-20	20	15	0	-200	30	+200	-200	+100	-100	+100	-100
120	180	0	-25	25	19	0	-250	35	+350	-250	+150	-150	+200	-100
180	250	0	-30	30	23	0	-300	50	+350	-250	+150	-150	+200	-100
250	315	0	-35	35	26	0	-350	60	+350	-250	+150	-150	+200	-100
315	400	0	-40	40	30	0	-400	70	+400	-400	+200	-200	+200	-200
400	500	0	-45	45	34	0	-450	70	+400	-400				
500	630	0	-50	50	38	0	-500	85	+500	-500				
630	800	0	-75	75	56	0	-750	100	+600	-600				
800	1000	0	-100	100	75	0	-1000	120	+750	-750				
1000	1250	0	-125	-	-	0	-1250	120	+1000	-1000				
1250	1600	0	-160	-	-	0	-1600	120	+1500	-1500				
1600	2000	0	-200	-	-	0	-2000	120	+1500	-1500				

## Outer Ring/Cup

D		$\Delta D_{mp}$		$V_{Dp}$	$V_{Dmp}$	$\Delta C_s$	$K_{ea}$
mm		$\mu m$					
over	incl.	high	low	max	max		max
18	30	0	-12	12	9	Values are identical to those for inner ring/cone	18
30	50	0	-14	14	11		20
50	80	0	-16	16	12		25
80	120	0	-18	18	14		35
120	150	0	-20	20	15		40
150	180	0	-25	25	19		45
180	250	0	-30	30	23		50
250	315	0	-35	35	26		60
315	400	0	-40	40	30		70
400	500	0	-45	45	34		80
500	630	0	-50	50	38		100
630	800	0	-75	75	55		120
800	1000	0	-100	100	75		120
1000	1250	0	-125	125	94		120
1250	1600	0	-160	160	120		120
1600	2000	0	-200	-	-		120
2000	2500	0	-250	-	-		120



# Normal Tolerances

## Taper Roller Bearings

Inch Series



### Inner Ring/Cone

d		Δd <sub>s</sub>					
		Normal		CL3		CL0	
mm		μm					
over	incl.	high	low	high	low	high	low
-	76.2	+13	0	+13	0	+13	0
76.2	101.6	+25	0	+13	0	+13	0
101.6	266.7	+25	0	+13	0	+13	0
266.7	304.8	+25	0	+13	0	+13	0
304.8	609.6	+51	0	+25	0	+25	0
609.6	914.4	+76	0	+38	0	+38	0
914.4	1219.2	+102	0	+51	0	+51	0
1219.2		+127	0	+76	0	+76	0

### Outer Ring/Cup

D		$\Delta D_s$						$K_{ia}, K_{ea}, S_{ia}, S_{ea}$		
		Normal		CL3		CL0		Tolerance class		
mm		$\mu m$						Normal	CL3	CL0
over	incl.	high	low	high	low	high	low	max	max	max
-	266.7	+25	0	+13	0	+13	0	51	8	4
266.7	304.8	+25	0	+13	0	+13	0	51	8	4
304.8	609.6	+51	0	+25	0	+25	0	51	18	9
609.6	914.4	+76	0	+38	0	+38	0	76	51	26
914.4	1219.2	+102	0	+51	0	+51	0	76	76	38
1219.2		+127	0	+76	0	+76	0	76	76	-

### Abutment width (single row only)

d		D		Δd <sub>s</sub>					
				Normal		CL3		CL0	
mm		mm		μm					
over	incl.	over	incl.	high	low	high	low	high	low
-	101.6			+203	0	+203	-203	+203	-203
101.6	266.7			+356	+254	+203	-203	+203	-203
266.7	304.8			+356	+254	+203	-203	+203	-203
304.8	609.6	-	508	+381	+381	+203	-203	+203	-203
304.8	609.6	508		+381	+381	+381	-381	+381	-381
609.6	-			+381	+381	+381	-381	+381	-381

# Tapered Bore Tolerances



Taper 1:12

		Class Normal, P6					Class P5				
d		$\Delta d_{mp}$		$V_{dp}$	$\Delta d_{1mp} - \Delta d_{mp}$		$\Delta d_{mp}$		$V_{dp}$	$\Delta d_{1mp} - \Delta d_{mp}$	
over	incl.	high	low	max	high	low	high	low	max	high	low
18	30	+21	0	13	+21	0	+13	0	13	+13	0
30	50	+25	0	15	+25	0	+16	0	15	+16	0
50	80	+30	0	19	+30	0	+19	0	19	+19	0
80	120	+35	0	25	+35	0	+22	0	22	+22	0
120	180	+40	0	31	+40	0	+25	0	25	+25	0
180	250	+46	0	38	+46	0	+29	0	29	+29	0
250	315	+52	0	44	+52	0	+32	0	32	+32	0
315	400	+57	0	50	+57	0	+36	0	36	+36	0
400	500	+63	0	56	+63	0	+40	0	-	+40	0
500	630	+70	0	-	+70	0	+44	0	-	+44	0
630	800	+80	0	-	+80	0	+50	0	-	+50	0
800	1000	+90	0	-	+90	0	+56	0	-	+56	0
1000	1250	+105	0	-	+105	0	+66	0	-	+66	0
1250	1600	+125	0	-	+125	0	+78	0	-	+78	0
1600	2000	+150	0	-	+150	0	+92	0	-	+92	0

Taper 1:30

Class Normal						
d		$\Delta d_{mp}$		$V_{dp}$	$\Delta d_{1mp} - \Delta d_{mp}$	
over	incl.	high	low	max	high	low
80	120	+20	0	25	+40	0
120	150	+25	0	31	+50	0
180	250	+30	0	38	+55	0
250	315	+35	0	44	+60	0
315	400	+40	0	50	+65	0
400	500	+45	0	56	+75	0
500	630	+50	0	63	+85	0
630	800	+75	0	-	+100	0
800	1000	+100	0	-	+100	0
1000	1250	+125	0	-	+115	0
1250	1600	+160	0	-	+125	0
1600	2000	+200	0	-	+150	0

# Normal, P6 and P5 Tolerances

## Thrust Bearings



### Shaft Washer

<b>d</b>		<b>Δd<sub>mp</sub></b>		<b>V<sub>dp</sub></b>	<b>S<sub>i</sub></b> (do not apply to spherical roller thrust bearing)		
mm		μm			Tolerance class		
over	incl.	high	low	max	Normal	P6	P5
-	18	0	-8	6	10	5	3
18	30	0	-10	8	10	5	3
30	50	0	-12	9	10	6	3
50	80	0	-15	11	10	7	4
80	120	0	-20	15	15	8	4
120	180	0	-25	19	15	9	5
180	250	0	-30	23	20	10	5
250	315	0	-35	26	25	13	7
315	400	0	-40	30	30	15	7
400	500	0	-45	34	30	18	9
500	630	0	-50	38	35	21	11
630	800	0	-75	-	40	25	13
800	1000	0	-100	-	45	30	15
1000	1250	0	-125	-	50	35	18
1250	1600	0	-160	-	60	40	21
1600	2000	0	-200	-	75	50	25

## Housing Washer

D		$\Delta D_{mp}$		$V_{Dp}$	$S_e$		
mm		$\mu m$			Tolerance class		
					Normal	P6	P5
over	incl.	high	low	max	max	max	max
18	30	0	-13	10	10	5	3
30	50	0	-16	12	10	6	3
50	80	0	-19	14	10	7	4
80	120	0	-22	17	15	8	4
120	180	0	-25	19	15	9	5
180	250	0	-30	23	20	10	5
250	315	0	-35	26	25	13	7
315	400	0	-40	30	30	15	7
400	500	0	-45	34	30	18	9
500	630	0	-50	38	35	21	11
630	800	0	-75	55	40	25	13
800	1000	0	-100	75	45	30	15
1000	1250	0	-125	-	50	35	18
1250	1600	0	-160	-	60	40	21
1600	2000	0	-200	-	75	50	25

## Bearing Height

d		$\Delta T_s$		$\Delta T_{1s}$		$\Delta T_{2s}$		$\Delta T_{3s}$		$\Delta T_{4s}$	
mm		$\mu m$									
over	incl.	high	low	high	low	high	low	high	low	high	low
18	30	+20	-250	+100	-250	+150	-400	+300	-400	+20	-300
30	50	+20	-250	+100	-250	+150	-400	+300	-400	+20	-300
50	80	+20	-300	+100	-300	+150	-500	+300	-500	+20	-400
80	120	+25	-300	+150	-300	+200	-500	+400	-500	+25	-400
120	180	+25	-400	+150	-400	+200	-600	+400	-600	+25	-500
180	250	+30	-400	+150	-400	+250	-600	+500	-600	+30	-500
250	315	+40	-400	+200	-400	+350	-700	+600	-700	+40	-700
315	400	+40	-500	+200	-500	+350	-700	+600	-700	+40	-700
400	500	+50	-500	+300	-500	+400	-900	+750	-900	+50	-900
500	630	+60	-600	+350	-600	+500	-1100	+900	-1100	+60	-1200
630	800	+70	-750	+400	-750	+600	-1300	+1100	-1300	+70	-1400
800	1000	+80	-1000	+450	-1000	+700	-1500	+1300	-1500	+80	-1800
1000	1250	+100	-1400	+500	-1400	+900	-1800	+1600	-1800	+100	-2400

# Radial Internal Clearance

## Deep Groove Ball Bearing



Bore Diameter		Radial Internal Clearance (µm)									
d (mm)		C2		Normal		C3		C4		C5	
over	incl.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.
2.5	10	0	7	2	13	8	23	14	29	20	37
10	18	0	9	3	18	11	25	18	33	25	45
18	24	0	10	5	20	13	28	20	36	28	48
24	30	1	11	5	20	13	28	23	41	30	53
30	40	1	11	6	20	15	33	28	46	40	64
40	50	1	11	6	23	18	36	30	51	45	73
50	65	1	15	8	28	23	43	38	61	55	90
65	80	1	15	10	30	25	51	46	71	65	105
80	100	1	18	12	36	30	58	53	84	75	120
100	120	2	20	15	41	36	66	61	97	90	140
120	140	2	23	18	48	41	81	71	114	105	160
140	160	2	23	18	53	46	91	81	130	120	180
160	180	2	25	20	61	53	102	91	147	135	200
180	200	2	30	25	71	63	117	107	163	150	230
200	225	4	32	28	82	73	132	120	187	175	255
225	250	4	36	31	92	87	152	140	217	205	290
250	280	4	39	36	97	97	162	152	237	255	320
280	315	8	45	42	110	110	180	175	260	260	360
315	355	8	50	50	120	120	200	200	290	290	405
355	400	8	60	60	140	140	230	230	330	330	460
400	450	10	70	70	160	160	260	260	370	370	520
450	500	10	80	80	180	180	290	290	410	410	570
500	560	20	90	90	200	200	320	320	460	460	630
560	630	20	100	100	220	220	350	350	510	510	700
630	710	30	120	120	250	250	390	390	560	560	780
710	800	30	130	130	280	280	440	440	620	620	860
800	900	30	150	150	310	310	490	490	690	690	960
900	1000	40	160	160	340	340	540	540	760	760	1040
1000	1120	40	170	170	370	370	590	590	840	840	1120

# Radial Internal Clearance

Deep Groove Ball Bearing



## With filling slots

Bore Diameter		Radial Internal Clearance (µm)							
d (mm)		C2		Normal		C3			
over	incl.	max.	min.	max.	min.	max.	min.		
18	24	0	10	5	20	13	28		
24	30	1	11	5	20	13	28		
30	40	1	11	6	20	15	33		
40	50	1	11	6	23	18	36		
50	65	1	15	8	28	23	43		
65	80	1	15	10	30	25	51		
80	100	1	18	12	36	30	58		

# Radial Internal Clearance

## Self Aligning Ball Bearing



Bore Diameter		Radial Internal Clearance (µm)									
d (mm)		C2		Normal		C3		C4			
over	incl.	max.	min.	max.	min.	max.	min.	max.	min.		
With cylindrical bore											
2.5	6	1	8	5	15	10	20	15	25		
6	10	2	9	6	17	12	25	19	33		
10	14	2	10	6	19	13	26	21	35		
14	18	3	12	8	21	15	28	23	37		
18	24	4	14	10	23	17	30	25	39		
24	30	5	16	11	24	19	35	29	46		
30	40	6	18	13	29	23	40	34	53		
40	50	6	19	14	31	25	44	37	57		
50	65	7	21	16	36	30	50	45	69		
65	80	8	24	18	40	35	60	54	83		
80	100	9	27	22	48	42	70	64	96		
100	120	10	31	25	56	50	83	75	114		
120	140	10	38	30	68	60	100	90	135		
With tapered bore											
18	24	7	17	13	26	20	33	28	42		
24	30	9	20	15	28	23	39	33	50		
30	40	12	24	19	35	29	46	40	59		
40	50	14	27	22	39	33	52	45	65		
50	65	18	32	27	47	41	61	56	80		
65	80	23	39	35	57	50	75	69	98		
80	100	29	47	42	68	62	90	84	116		
100	120	35	56	50	81	75	108	100	139		



# Radial Internal Clearance

## Cylindrical Roller Bearing



Bore Diameter		Radial Internal Clearance (µm)							
d (mm)		C2		Normal		C3		C4	
over	incl.	max.	min.	max.	min.	max.	min.	max.	min.
	24	0	25	20	45	35	60	50	75
24	30	0	25	20	45	34	60	50	75
30	40	5	30	25	50	45	70	60	85
40	50	5	35	30	60	50	80	70	100
50	65	10	40	40	70	60	90	80	110
65	80	10	45	40	75	65	100	90	125
80	100	15	50	50	85	75	110	105	140
100	120	15	55	50	90	85	125	125	165
120	140	15	60	60	105	100	145	145	190
140	160	20	70	70	120	115	165	165	215
160	180	25	75	75	125	120	170	170	220
180	200	35	90	90	145	140	195	195	250
200	225	45	105	105	165	160	220	220	280
225	250	45	110	110	175	170	235	235	300
250	280	55	125	125	195	190	260	260	330
280	315	55	130	205	200	275	275	350	217
315	355	65	145	145	225	225	305	305	385
355	400	100	190	190	280	280	370	370	460
400	450	110	210	210	310	310	410	410	510
450	500	100	220	220	330	330	440	440	550
500	560	120	240	240	360	360	480	480	600
560	630	140	260	260	380	380	500	500	620
630	710	145	285	285	425	425	565	565	705
710	800	150	310	310	470	470	630	630	790

# Radial Internal Clearance

## Needle Roller Bearing



Bore Diameter		Radial Internal Clearance (µm)							
d (mm)		C2		Normal		C3		C4	
over	incl.	max.	min.	max.	min.	max.	min.	max.	min.
	24	0	25	20	45	35	60	50	75
24	30	0	25	20	45	35	60	50	75
30	40	5	30	25	50	45	70	60	85
40	50	5	35	30	60	50	80	70	100
50	65	10	40	40	70	60	90	80	110
65	80	10	45	40	75	65	100	90	125
80	100	15	50	50	85	75	110	105	140
100	150	15	55	50	90	85	125	125	165
120	140	15	60	60	105	100	145	145	190
140	160	20	70	70	120	115	165	165	215
160	180	25	75	75	125	120	170	170	220
180	200	35	90	90	145	140	195	195	250
200	225	45	105	105	165	160	220	220	280
225	250	45	110	110	175	170	235	235	300
250	280	55	125	125	195	190	260	260	330
280	315	55	130	130	205	200	275	275	350
315	355	65	145	145	225	225	305	305	385
355	400	100	190	190	280	280	370	370	460

# Radial Internal Clearance

## Spherical Roller Bearing



Bore Diameter		Radial Internal Clearance (µm)									
d (mm)		C2		Normal		C3		C4		C5	
over	incl.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.
With cylindrical bore											
18	24	10	20	20	35	35	45	45	60	60	75
24	30	15	25	25	40	40	55	55	75	75	95
30	40	15	30	30	45	45	60	60	80	80	100
40	50	20	35	35	55	55	75	75	100	100	125
50	65	20	40	40	65	65	90	90	120	120	150
65	80	30	50	50	80	80	110	110	145	145	180
80	100	35	60	60	100	100	135	135	180	180	225
100	120	40	75	75	120	120	160	160	210	210	260
120	140	50	95	95	145	145	190	190	240	240	300
140	160	60	110	110	170	170	220	220	280	280	350
160	180	65	120	120	180	180	240	240	310	310	390
180	200	70	130	130	200	200	260	260	340	340	430
200	225	80	140	140	220	220	290	290	380	380	470
225	250	90	150	150	240	240	320	320	420	420	520
250	280	100	170	170	260	260	350	350	460	460	570
280	315	110	190	190	280	280	370	370	500	500	630
315	355	120	200	200	310	310	410	410	550	550	690
355	400	130	220	220	340	340	450	450	600	600	750
400	450	1140	240	240	370	370	500	500	660	660	820
450	500	140	260	260	410	410	550	550	720	720	900
500	560	150	280	280	440	440	600	600	780	780	1000
560	630	170	310	310	480	480	650	650	850	850	1100
630	710	190	350	350	530	530	700	700	920	920	1190
710	800	210	390	390	580	580	770	770	1010	1010	1300
800	900	230	430	430	650	650	860	860	1120	1120	1440
900	1000	260	480	480	710	710	930	930	1220	1220	1570
1000	1120	290	530	530	780	780	1020	1020	1330	1330	1720
1120	1250	320	580	580	860	860	1120	1120	1460	1460	1870

# Radial Internal Clearance

## Spherical Roller Bearing



Bore Diameter		Radial Internal Clearance (µm)									
d (mm)		C2		Normal		C3		C4		C5	
over	incl.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.
With tapered bore											
24	30	20	30	30	40	40	55	55	75		
30	40	25	35	35	50	50	65	65	85	85	105
40	50	30	45	45	60	60	80	80	100	100	130
50	65	40	55	55	75	75	95	95	120	120	160
65	80	50	70	70	95	95	120	120	150	150	200
80	100	55	80	80	110	110	140	140	180	180	230
100	120	65	100	100	135	135	170	170	220	220	280
120	140	80	120	120	160	160	200	200	260	260	330
140	160	90	130	130	180	180	230	230	300	300	380
160	180	100	140	140	200	200	260	260	340	340	430
180	200	110	160	160	220	220	290	290	370	370	470
200	225	120	180	180	250	250	320	320	410	410	520
225	250	140	200	200	270	270	350	350	450	450	570
250	280	150	220	220	300	300	390	390	490	490	620
280	315	175	240	240	330	330	430	430	540	540	680
315	355	190	270	270	360	360	470	470	590	590	740
355	400	210	300	300	400	400	520	520	650	650	820
400	450	230	330	330	440	440	570	570	720	720	910
450	500	260	370	370	490	490	630	630	790	790	1000
500	560	290	410	410	540	540	680	680	870	870	1100
560	630	320	460	460	600	600	760	760	980	980	1230
630	710	350	510	510	670	670	850	850	1090	1090	1360
710	800	390	570	570	750	750	960	960	1220	1220	1500
800	900	440	640	640	840	840	1070	1070	1370	1370	1690
900	1000	490	710	710	930	930	1190	1190	1520	1520	1860
1000	1120	530	770	770	1030	1030	1300	1300	1670	1670	2050
1120	1250	570	830	830	1120	1120	1420	1420	1830	1830	2250

# Axial Internal Clearance

Angular Contact Ball Bearing - Series 72 B (E) and 73 B (E)  
*Mounted back-to-back or face-to-face in random pairs*



Bore Diameter		Axial Internal Clearance (μm), Class								
d (mm)		CA		CB		CC				
over	incl.	max.	min.	max.	min.	max.	min.			
-	10	4	12	14	22	22	30			
10	18	5	13	15	23	24	32			
18	30	7	15	18	26	32	40			
30	50	9	17	22	30	40	48			
50	80	11	23	26	38	48	60			
80	120	14	26	32	44	55	67			
120	180	17	29	35	47	62	74			
180	250	21	37	45	61	74	90			
250	315	26	42	52	68	90	106			

Radial Clearance ~ 0.85 Axial Clearance

# Preload

Angular Contact Ball Bearing - Series 72 B (E) and 73 B (E)  
*Mounted back-to-back or face-to-face in random pairs*

Bore Diameter		Preload, Class								
d (mm)		GA		GB			GC			
over	incl.	min. (μm)	max. (μm)	max. (N)	min. (μm)	max. (μm)	max. (N)	min. (μm)	max. (μm)	max. (N)
10	18	+ 4	- 4	80	- 2	- 10	330	- 8	- 16	660
18	30	+ 4	- 4	120	- 2	- 10	480	- 8	- 16	970
30	50	+ 4	- 4	160	- 2	- 10	630	- 8	- 16	1280
50	80	+ 6	- 6	380	- 3	- 15	1500	- 12	- 24	3050
80	120	+ 6	- 6	410	- 3	- 15	1600	- 12	- 24	3250
120	180	+ 6	- 6	540	- 3	- 15	2150	- 12	- 24	4300
180	250	+ 8	- 8	940	- 4	- 20	3700	- 16	- 32	7500
250	315	+ 8	- 8	1080	- 4	- 20	4250	- 16	- 32	8600

# Axial Internal Clearance

## Deep Groove Ball Bearings



Bore Diameter		Axial Internal Clearance		Preload GA Bearing Series					
d (mm)		CA (μm)		Load (N)					
over	incl.	max.	min.	60	62	63			
-	10	15	35	30	30	-			
10	18	20	40	50	50	100			
18	30	25	45	100	100	100			
30	50	35	55	100	100	200			
50	80	40	70	200	200	350			
80	120	50	80	300	400	600			
120	180	60	100	500	700	900			
180	250	70	110	800	1000	1200			

# Suffix

## Nomenclature



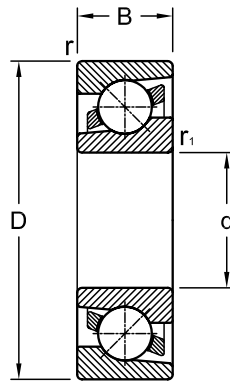
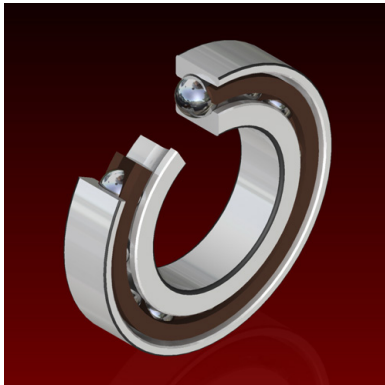
Suffix	Definition
<b>A</b>	Deep groove ball bearing without filling slots / Angular contact ball bearing with 30° contact angle
<b>AC</b>	Single row angular contact ball bearing with 25° contact angle
<b>B</b>	Angular contact ball bearing with 40° contact angle / Taper roller bearing with steep contact angle
<b>C</b>	Spherical roller bearing with a flangeless inner ring, symmetrical rollers, loose guide ring and window type steel cage
<b>C1</b>	Internal clearance smaller than C2
<b>C2</b>	Internal clearance smaller than Normal
<b>C3</b>	Internal clearance greater than Normal
<b>C4</b>	Internal clearance greater than C3
<b>C5</b>	Internal clearance greater than C4
<b>D</b>	Double row angular contact ball bearing with split inner ring
<b>E</b>	Cylindrical roller bearings of high load carrying capacity
<b>J</b>	Sheet metal pressed cage
<b>K</b>	Bearing with tapered bore, taper 1:12
<b>K30</b>	Bearing with tapered bore, taper 1:30
<b>M</b>	Machined brass cage, rolling element riding
<b>MA</b>	Machined brass cage, outer ring riding
<b>MB</b>	Machined brass cage, inner ring riding
<b>N</b>	Bearing with circular groove on O.D.
<b>NR</b>	Bearing with circular groove on O.D. with snap ring
<b>P4</b>	Tolerance Classes
<b>P5</b>	
<b>P6</b>	
<b>P6</b>	
<b>RS</b>	Bearing with seal on one side
<b>2RS</b>	Bearing with seal on both sides
<b>SP</b>	Super Precision
<b>S0</b>	Heat treatment
<b>S1</b>	
<b>S2</b>	
<b>S3</b>	

Suffix	Definition
<b>UA</b>	Universally mounted bearings
<b>UB</b>	
<b>UO</b>	
<b>UP</b>	Ultra precision bearings
<b>V</b>	Full complement bearings
<b>W33</b>	Lubrication groove and three holes in outer ring
<b>Y</b>	Pressed brass cage
<b>Z/ZR</b>	Bearing with shield on one side
<b>ZN</b>	Bearing with shield on one side and circular groove on opposite side
<b>ZNR</b>	Bearing with shield on one side and circular groove on opposite side and snap ring
<b>ZZ</b>	Bearing with shields on either side.

# Angular Contact Ball Bearings

Single Row  
Metric Series

**72, 73, 74**



Dimensions					Load Rating		AEC Bearing	B	BG	BMG
mm					kN					
d	D	B	r	r <sub>1</sub>	Dynamic (C)	Static (C <sub>0</sub> )				
15	35	11	0.6	0.3	8.84	4.80	7202	•	•	•
	42	13	1	0.6	13.00	6.70	7302	•	•	•
17	40	12	0.6	0.6	11.10	6.10	7203	•	•	•
	47	14	1	0.6	15.90	8.30	7303	•	•	•
20	47	14	1	0.6	14.00	8.30	7204	•	•	•
	52	15	1.1	0.6	19.00	10.40	7304	•	•	•
	72	19	1.1	0.6	35.60	19.10	7404	•	•	•
25	52	15	1	0.6	15.60	10.20	7205	•	•	•
	62	17	1.1	0.6	26.00	15.60	7305	•	•	•
	80	21	1.5	1	39.70	23.20	7405	•	•	•
30	62	16	1	0.6	23.80	15.60	7206	•	•	•
	72	19	1.1	0.6	34.50	21.20	7306	•	•	•
	90	23	1.5	1	47.60	28.40	7406	•	•	•
35	72	17	1.1	0.6	30.70	20.80	7207	•	•	•
	80	21	1.5	1	39.00	24.50	7307	•	•	•
	100	25	1.5	1	60.40	37.00	7407	•	•	•
40	80	18	1.1	0.6	36.40	26.00	7208	•	•	•
	90	23	1.5	1	49.40	33.50	7308	•	•	•
	110	27	2	1	69.90	43.50	7408	•	•	•
45	85	19	1.1	0.6	37.70	28.00	7209	•	•	•
	100	25	1.5	1	60.50	41.50	7309	•	•	•
	120	29	2	1	84.90	53.80	7409	•	•	•
50	90	20	1.1	0.6	39.00	30.50	7210	•	•	•
	110	27	2	1	74.10	51.00	7310	•	•	•
	130	31	2.1	1.1	97.40	65.30	7410	•	•	•
55	100	21	1.5	1	48.80	38.00	7211	•	•	•
	120	29	2	1	85.20	60.00	7311	•	•	•
	140	33	2.1	1.1	118.00	82.40	7411	•	•	•
60	110	22	1.5	1	57.20	45.50	7212	•	•	•



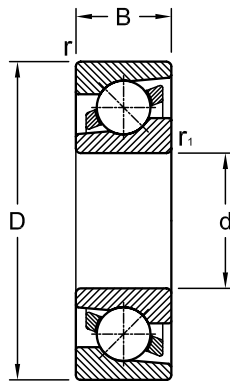
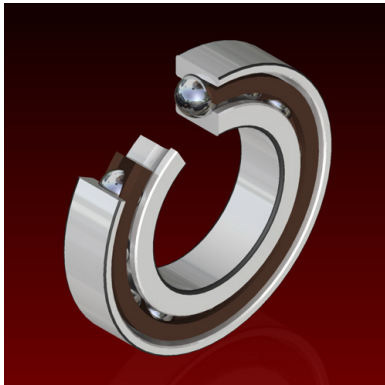
Dimensions					Load Rating		AEC Bearing	B	BG	BMG
mm					kN					
d	D	B	r	r <sub>1</sub>	Dynamic (C)	Static (C <sub>0</sub> )				
65	130	31	2.1	1.1	95.60	69.50	7312	•	•	•
	150	35	2.1	1.1	129.00	93.60	7412	•	•	•
	120	23	1.5	1	66.30	54.00	7213	•	•	•
	140	33	2.1	1.1	108.00	80.00	7313	•	•	•
	160	37	2.1	1.1	139.00	104.00	7413	•	•	•
70	125	24	1.5	1	71.50	60.00	7214	•	•	•
	150	35	2.1	1.1	119.00	90.00	7314	•	•	•
	180	42	3	1.1	149.00	115.00	7414	•	•	•
75	130	25	1.5	1	72.80	64.00	7215	•	•	•
	160	37	2.1	1.1	133.00	106.00	7315	•	•	•
	190	45	3	1.1	171.00	141.00	7415	•	•	•
80	140	26	2	1	83.20	73.50	7216	•	•	•
	170	39	2.1	1.1	143.00	118.00	7316	•	•	•
	200	48	3	1.1	193.00	166.00	7416	•	•	•
85	150	28	2	1	95.60	83.00	7217	•	•	•
	180	41	3	1.1	153.00	132.00	7317	•	•	•
	210	52	4	1.5	204.00	180.00	7417	•	•	•
90	160	30	2	1	108.00	96.50	7218	•	•	•
	190	43	3	1.1	165.00	146.00	7318	•	•	•
	225	54	4	1.5	216.00	196.00	7418	•	•	•
95	170	32	2.1	1.1	124.00	108.00	7219	•	•	•
	200	45	3	1.1	178.00	163.00	7319	•	•	•
100	180	34	2.1	1.1	135.00	122.00	7220	•	•	•
	215	47	3	1.1	203.00	190.00	7320	•	•	•
105	190	36	2.1	1.1	148.00	137.00	7221	•	•	•
	225	49	3	1.1	212.00	208.00	7321	•	•	•
110	200	38	2.1	1.1	163.00	153.00	7222	•	•	•
	240	50	3	1.1	225.00	224.00	7322	•	•	•
120	215	40	2.1	1.1	165.00	163.00	7224	•	•	•
	260	55	3	1.1	238.00	250.00	7324	•	•	•
130	230	40	3	1.1	186.00	193.00	7226	•	•	•
	280	58	4	1.5	251.00	270.00	7326	•	•	•
140	250	42	3	1.1	182.00	196.00	7228	•	•	•
	300	62	4	1.5	276.00	310.00	7328	•	•	•
150	270	45	3	1.1	195.00	224.00	7230	•	•	•
	320	65	4	1.5	302.00	365.00	7330	•	•	•
160	290	48	3	1.1	199.00	236.00	7232	•	•	•
	340	68	4	1.5	365.00	455.00	7332	•	•	•
170	310	52	4	1.5	221.00	270.00	7234	•	•	•
	360	72	4	1.5	358.00	455.00	7334	•	•	•
180	320	52	4	1.5	251.00	320.00	7236	•	•	•
	380	75	4	2	371.00	490.00	7336	•	•	•
190	340	55	4	1.5	276.00	355.00	7238	•	•	•

Dimensions					Load Rating		AEC Bearing	B	BG	BMG
mm					kN					
d	D	B	r	r <sub>1</sub>	Dynamic (C)	Static (C <sub>0</sub> )				
200	400	78	5	2	410.00	560.00	7338	●	●	●
	360	58	4	1.5	324.00	423.00	7240	●	●	●
	420	80	5	2	474.00	658.00	7340	●	●	●
220	400	65	4	1.5	319.00	465.00	7244	●	●	●
240	440	72	4	1.5	364.00	540.00	7248	●	●	●

# Angular Contact Ball Bearings

Single Row  
Inch Series

**ALS, AMS**



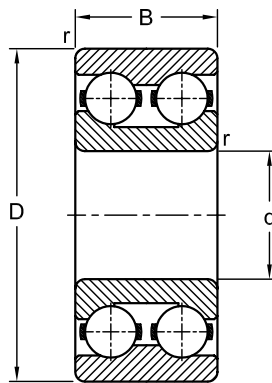
Dimensions				Load Rating		AEC Bearing	M
inch (mm)				kN			
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )		
0.500	1.313	0.375	0.0315 (0.8)	8.2	3.7	ALS 4	●
	1.625	0.625	0.0630 (1.6)	12.4	5.9	AMS 4	
0.625	1.563	0.438	0.0315 (0.8)	12.2	5.9	ALS 5	
	1.813	0.625	0.0630 (1.6)	15.9	8.0	AMS 5	
0.750	1.875	0.563	0.0630 (1.6)	15.9	8.0	ALS 6	
	2.000	0.688	0.0630 (1.6)	18.9	9.4	AMS 6	
0.875	2.000	0.563	0.0630 (1.6)	16.9	8.7	ALS 7	
	2.250	0.688	0.0630 (1.6)	22.1	11.5	AMS 7	
1.000	2.250	0.625	0.0630 (1.6)	25.3	13.5	ALS 8	
	2.500	0.750	0.0945 (2.4)	27.0	14.7	AMS 8	
1.125	2.500	0.625	0.0630 (1.6)	25.3	13.6	ALS 9	
	2.813	0.813	0.0945 (2.4)	36.8	20.5	AMS 9	
1.250	2.750	0.688	0.0630 (1.6)	27.2	14.7	ALS 10	
	3.125	0.875	0.0945 (2.4)	43.7	25.2	AMS 10	
1.375	3.000	0.688	0.0630 (1.6)	37.0	21.3	ALS 11	
	3.500	0.875	0.0945 (2.4)	50.5	28.9	AMS 11	
1.500	3.250	0.750	0.0945 (2.4)	41.6	24.2	ALS 12	
	3.750	0.938	0.0945 (2.4)	55.0	32.0	AMS 12	
1.625	3.500	0.750	0.0945 (2.4)	43.7	26.0	ALS 13	
	4.000	0.938	0.0945 (2.4)	65.5	38.7	AMS 13	
1.750	3.750	0.813	0.0945 (2.4)	51.5	30.6	ALS 14	
	4.250	1.063	0.0945 (2.4)	71.0	42.3	AMS 14	
1.875	4.000	0.813	0.0945 (2.4)	56.5	35.3	ALS 15	
	4.500	1.063	0.0945 (2.4)	82.5	50.0	AMS 15	
2.000	4.000	0.813	0.0945 (2.4)	56.5	35.5	ALS 16	
	4.500	1.063	0.0945 (2.4)	82.5	50.0	AMS 16	
2.250	4.500	0.875	0.0945 (2.4)	65.5	40.7	ALS 18	
	5.000	1.250	0.1260 (3.2)	101.0	62.5	AMS 18	
2.500	5.000	0.938	0.0945 (2.4)	81.0	53.0	ALS 20	
	5.500	1.250	0.1260 (3.2)	114.0	74.0	AMS 20	
2.750	5.250	0.938	0.0945 (2.4)	84.5	56.5	ALS 22	
	6.250	1.375	0.1260 (3.2)	145.0	96.5	AMS 22	

Dimensions				Load Rating		AEC Bearing	M
inch (mm)				kN			
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )		
3.000	5.750	1.063	0.0945 (2.4)	94.5	65.5	ALS 24	•
	7.000	1.563	0.1575 (4.0)	171.0	122.0	AMS 24	•
3.250	6.000	1.063	0.0945 (2.4)	106.0	72.5	ALS 26	•
	7.500	1.563	0.1575 (4.0)	180.0	132.0	AMS 26	•
3.375	7.500	1.563	0.1575 (4.0)	180.0	132.0	AMS 27	•
3.500	6.500	1.125	0.1260 (3.2)	114.0	81.5	ALS 28	•
	8.125	1.750	0.1575 (4.0)	198.0	151.0	AMS 28	•
3.750	6.750	1.125	0.1260 (3.2)	122.0	88.5	ALS 30	•
	8.250	1.750	0.1575 (4.0)	208.0	163.0	AMS 30	•
4.000	7.250	1.250	0.1260 (3.2)	140.0	103.0	ALS 32	•
	8.500	1.750	0.1575 (4.0)	218.0	174.0	AMS 32	•
4.250	7.500	1.250	0.1260 (3.2)	149.0	110.0	ALS 34	•
	8.750	1.750	0.1575 (4.0)	218.0	174.0	AMS 34	•
4.500	8.000	1.313	0.1260 (3.2)	163.0	124.0	ALS 36	•
	9.375	2.000	0.1575 (4.0)	233.0	192.0	AMS 36	•
4.750	8.250	1.313	0.1260 (3.2)	168.0	131.0	ALS 38	•
	10.000	2.000	0.1890 (4.8)	271.0	236.0	AMS 38	•
5.000	9.000	1.375	0.1260 (3.2)	188.0	149.0	ALS 40	•
	10.000	2.000	0.1890 (4.8)	271.0	236.0	AMS 40	•
5.500	9.500	1.375	0.1260 (3.2)	205.0	168.0	ALS 44	•
	11.000	2.000	0.1890 (4.8)	298.0	272.0	AMS 44	•
6.000	10.500	1.563	0.1575 (4.0)	228.0	198.0	ALS 48	•
	12.000	2.250	0.1890 (4.8)	332.0	318.0	AMS 48	•
6.500	11.000	1.563	0.1575 (4.0)	233.0	207.0	ALS 52	•
	13.000	2.500	0.1890 (4.8)	367.0	366.0	AMS 52	•
7.000	12.000	1.750	0.1575 (4.0)	262.0	244.0	ALS 56	•
	13.500	2.500	0.1890 (4.8)	384.0	392.0	AMS 56	•
7.500	12.500	1.750	0.1575 (4.0)	277.0	267.0	ALS 60	•
	14.500	2.750	0.1890 (4.8)	420.0	446.0	AMS 60	•
8.000	13.000	1.750	0.1575 (4.0)	282.0	279.0	ALS 64	•
	15.000	2.750	0.1890 (4.8)	435.0	475.0	AMS 64	•
8.500	14.000	2.000	0.1890 (4.8)	323.0	338.0	ALS 68	•
	16.000	3.000	0.1890 (4.8)	476.0	538.0	AMS 68	•
9.000	14.500	2.000	0.1890 (4.8)	338.0	352.0	ALS 72	•
	17.000	3.000	0.1890 (4.8)	567.0	672.0	AMS 72	•
9.500	15.125	2.000	0.1890 (4.8)	342.0	369.0	ALS 76	•
10.000	15.750	2.000	0.1890 (4.8)	376.0	418.0	ALS 80	•
	18.500	3.250	0.1890 (4.8)	552.0	672.0	AMS 80	•
10.500	16.625	2.250	0.1890 (4.8)	372.0	419.0	ALS 84	•
	19.500	3.500	0.250 (6.35)	573.0	743.0	AMS 84	•
11.000	17.500	2.250	0.1890 (4.8)	403.0	473.0	ALS 88	•
	20.000	3.500	0.250 (6.35)	594.0	743.0	AMS 88	•
11.500	18.000	2.375	0.1890 (4.8)	400.0	473.0	ALS 92	•
12.000	18.500	2.625	0.1890 (4.8)	460.0	563.0	ALS 96	•
	21.500	3.750	0.250 (6.35)	679.0	899.0	AMS 96	•
13.000	20.000	2.750	0.1890 (4.8)	498.0	627.0	ALS 104	•
14.000	21.500	2.875	0.1890 (4.8)	525.0	700.0	ALS 112	•
15.000	22.500	3.000	0.1890 (4.8)	586.0	805.0	ALS 120	•

# Angular Contact Ball Bearings

Double Row  
Metric Series

**32, 33**



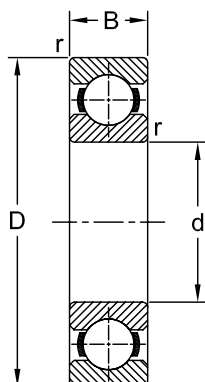
Dimensions				Load Rating		AEC Bearing	ZZ	2RS	M	Polyamide Cage
mm				kN						
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )					
15	35	15.9	0.6	11.2	6.8	3202	●	●		
	42	19.0	1.0	15.1	9.2	3302	●	●		
17	40	17.5	0.6	14.0	8.7	3203	●	●		
	47	22.2	1.0	21.2	12.5	3303	●	●		
20	47	20.6	1.0	18.6	12.0	3204	●	●		
	52	22.2	1.1	22.1	14.3	3304	●	●		●
25	52	20.6	1.0	20.3	14.0	3205	●	●		●
	62	25.4	1.1	31.2	20.8	3305	●	●		
30	62	23.8	1.0	28.1	20.0	3206	●	●		
	72	30.2	1.1	45.7	42.5	3306	●	●		
35	72	27.0	1.1	37.1	27.5	3207	●	●		
	80	34.9	1.5	53.9	51.0	3307	●	●		
40	80	30.2	1.1	44.9	33.5	3208	●	●		
	90	36.5	1.5	66.0	64.0	3308	●	●		
45	85	30.2	1.1	47.5	38.0	3209	●	●		
	100	39.7	1.5	72.1	73.5	3309			●	
50	90	30.2	1.1	47.5	39.0	3210	●	●		
	110	44.4	2.0	88.0	96.5	3310				
55	100	33.3	1.5	57.2	67.0	3211				
	120	49.2	2.0	95.2	108.0	3311				
60	110	36.5	1.5	72.1	85.0	3212				
	130	54.0	2.1	112.0	127.0	3312				
65	120	38.1	1.5	78.1	95.0	3213				
	140	58.7	2.1	128.0	150.0	3313				
70	125	39.7	1.5	76.5	98.0	3214	●	●		●
	150	63.5	2.1	147.0	173.0	3314				
75	130	41.3	1.5	84.2	110.0	3215				
	160	68.3	2.1	157.0	186.0	3315			●	

Dimensions				Load Rating		AEC Bearing	ZZ	2RS	M	Polyamide Cage
mm				kN						
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )					
80	140	44.5	2.0	101.0	134.0	3216	•	•		•
	170	68.3	2.1	176.0	212.0	3316			•	
85	150	49.2	2.0	110.0	146.0	3217	•	•		•
	180	73.0	3.0	194.0	240.0	3317			•	
90	160	52.4	2.0	128.0	173.0	3218	•	•		•
	190	73.0	3.0	220.0	285.0	3318			•	
95	170	55.6	2.1	147.0	204.0	3219				
	200	77.8	3.0	238.0	315.0	3319			•	
100	180	60.3	2.1	157.0	220.0	3220				
	215	82.6	3.0	255.0	355.0	3320			•	
105	225	87.3	3.0	29.8	387.7	3321			•	
110	200	69.8	2.1	190.0	270.0	3222			•	
	240	92.1	3.0	292.0	425.0	3322			•	
120	215	76.0	2.1	250.0	279.0	3224			•	

# Ball Bearings

Single Row  
Metric Series

**60, 62, 63, 64, 160, 618, 619**



Dimensions				Load Rating		AEC Bearing	Z	ZZ	RS	2RS	N	ZN	ZZN	M	K
mm				kN											
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )										
10	30	9	0.6	5.07	2.36	6200	•	•	•	•	•	•	•		
	35	11	0.6	8.06	3.40	6300	•	•	•	•					
12	32	10	0.6	6.89	3.10	6201	•	•	•	•	•	•	•		
	37	12	1.0	9.75	4.15	6301	•	•	•	•					
15	32	9	0.3	5.59	2.85	6002	•	•	•	•					
	35	11	0.6	7.80	3.75	6202	•	•	•	•	•	•	•		
	42	13	1.0	11.40	5.40	6302	•	•	•	•					
17	35	8	0.3	6.05	3.25	16003	•	•							
	35	10	0.3	6.05	3.25	6003	•	•	•	•					
	40	12	0.6	9.56	4.75	6203	•	•	•	•	•	•	•		
	47	14	1.0	13.50	6.55	6303	•	•	•	•	•	•	•		
	62	17	1.1	22.90	10.80	6403	•	•							
20	37	9	0.3	6.37	3.65	61904			•	•					
	42	12	0.6	9.36	5.00	6004	•	•	•	•	•				
	47	14	1.0	12.70	6.55	6204	•	•	•	•	•	•	•		
	52	15	1.1	15.90	7.80	6304	•	•	•	•	•	•	•		
	72	19	1.1	30.70	15.00	6404	•	•							
25	42	9	0.3	6.63	4.00	61905			•	•					
	47	8	0.3	7.61	4.75	16005									
	47	12	0.6	11.20	6.55	6005	•	•	•	•	•				
	52	15	1.0	14.00	7.80	6205	•	•	•	•	•	•	•		
	60	17	1.1	22.50	11.60	6305	•	•	•	•	•	•	•		
	80	21	1.5	35.80	19.30	6405	•	•							
30	47	9	0.3	7.28	4.55	61906			•	•					
	55	9	0.3	11.20	7.35	16006									
	55	13	1.0	13.30	8.30	6006	•	•	•	•	•				
	62	16	1.0	19.50	11.20	6206	•	•	•	•	•	•	•		
	72	19	1.1	28.10	16.00	6306	•	•	•	•	•	•	•		
	90	23	1.5	43.60	23.60	6406	•	•							

Dimensions				Load Rating		AEC Bearing	Z	ZZ	RS	2RS	N	ZN	ZZN	M	K
mm				kN											
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )										
35	55	10	0.6	9.56	6.20	61907			•	•					•
	62	9	0.3	12.40	8.15	16007									
	62	14	1.0	15.90	10.20	6007	•	•	•	•	•				
	72	17	1.1	25.50	15.30	6207	•	•	•	•	•	•	•		•
	80	21	1.5	33.20	19.00	6307	•	•	•	•	•	•	•		
	100	25	1.5	55.30	31.00	6407	•	•			•				
40	62	12	0.6	13.80	9.30	61908			•	•					
	68	9	0.3	13.30	9.15	16008									
	68	15	1.0	16.80	11.60	6008	•	•	•	•	•				
	80	18	1.1	30.70	19.00	6208	•	•	•	•	•	•	•		
	90	23	1.5	41.00	24.00	6308	•	•	•	•	•	•	•		
	110	27	2.0	63.70	36.50	6408	•	•			•				
45	68	12	0.6	10.10	6.70	61909			•	•					
	75	10	0.6	15.60	10.80	16009									
	75	16	1.0	20.80	14.60	6009	•	•	•	•	•				
	85	19	1.1	33.20	21.60	6209	•	•	•	•	•	•	•		•
	100	25	1.5	52.70	31.50	6309	•	•	•	•	•	•	•	•	
	120	29	2.0	76.10	45.00	6409	•	•			•	•	•		
50	65	7	0.3	6.24	4.75	61810			•	•					
	72	12	0.6	14.60	10.40	61910	•	•	•	•					
	80	10	0.6	16.30	11.40	16010									
	80	16	1.0	21.60	16.00	6010	•	•	•	•	•	•	•		
	90	20	1.1	35.10	23.20	6210	•	•	•	•	•	•	•		
	110	27	2.0	61.80	38.00	6310	•	•	•	•	•	•	•		
	130	31	2.1	87.10	52.00	6410	•	•			•				
55	72	9	0.3	8.32	6.20	61811			•	•					
	80	13	1.0	15.90	11.40	61911	•	•	•	•					
	90	11	0.6	19.50	14.00	16011									
	90	18	1.1	28.10	21.20	6011	•	•	•	•	•	•	•	•	
	100	21	1.5	43.60	29.00	6211	•	•	•	•	•	•	•		•
	120	29	2.0	71.50	45.00	6311	•	•	•	•	•	•	•		
	140	33	2.1	99.50	62.00	6411	•	•			•	•	•		
60	78	10	0.3	8.71	6.70	61812			•	•					
	85	13	1.0	16.50	12.00	61912	•	•	•	•					
	95	11	0.6	19.90	15.00	16012									
	95	18	1.1	29.60	23.20	6012	•	•	•	•	•				•
	110	22	1.5	47.50	32.50	6212	•	•	•	•	•	•	•		
	130	31	2.1	81.90	52.00	6312	•	•	•	•	•	•	•		
	150	35	2.1	108.00	69.50	6412	•	•			•				
65	85	10	0.6	11.70	9.15	61813			•	•					
	90	13	1.0	17.40	13.40	61913	•	•	•	•					
	100	11	0.6	21.20	16.60	16013									
	100	18	1.1	30.70	25.00	6013	•	•	•	•	•				•
	120	23	1.5	55.90	40.50	6213	•	•	•	•	•	•	•		
	140	33	2.1	92.30	60.00	6313	•	•	•	•	•	•	•		
	160	37	2.1	119.00	78.00	6413	•	•			•				•



Dimensions				Load Rating		AEC Bearing	Z	ZZ	RS	2RS	N	ZN	ZZN	M	K
mm				kN											
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )										
70	90	10	0.6	12.10	10.00	61814			•	•					
	100	16	1.0	23.80	18.30	61914	•	•	•	•					
	110	13	0.6	28.10	25.00	16014									
	110	20	1.1	37.70	31.00	6014	•	•	•	•	•				
	125	24	1.5	60.50	45.00	6214	•	•	•	•	•	•	•		
	150	35	2.1	104.00	68.00	6314	•	•	•	•	•	•	•	•	
	180	42	3.0	143.00	110.40	6414	•	•							•
75	95	10	0.6	12.50	10.80	61815			•	•					
	105	16	1.0	24.20	19.30	61915	•	•	•	•					
	115	13	0.6	28.60	27.00	16015									
	115	20	1.1	39.70	33.50	6015	•	•	•	•	•				•
	130	25	1.5	66.30	49.00	6215	•	•	•	•	•				
	160	37	2.1	114.00	76.50	6315	•	•	•	•	•				
	190	45	3.0	153.00	114.00	6415	•	•							
80	100	10	0.6	12.40	10.80	61816			•	•					
	110	16	1.0	25.10	20.40	61916	•	•	•	•					
	125	14	0.6	33.20	31.50	16016									
	125	22	1.1	40.00	40.00	6016	•	•	•	•	•				
	140	26	2.0	70.20	55.00	6216	•	•	•	•	•				
	170	39	2.1	124.00	86.50	6316	•	•	•	•					
	200	48	3.0	16.30	125.00	6416	•	•							
85	110	13	1.0	19.50	16.60	61817			•	•					
	130	14	0.6	33.80	33.50	16017									
	130	22	1.1	49.40	43.00	6017	•	•	•	•	•				
	150	28	2.0	83.20	64.00	6217	•	•	•	•	•				
	180	41	3.0	133.00	96.50	6317	•	•	•	•					
	210	52	4.0	174.00	137.00	6417	•	•							
90	115	13	1.0	19.50	17.00	61818			•	•					•
	125	18	1.1	33.20	31.50	61918			•	•					•
	140	16	1.0	41.60	39.00	16018									
	140	24	1.5	58.50	50.00	6018	•	•	•	•	•				•
	160	30	2.0	95.60	73.50	6218	•	•	•	•	•				
	190	43	3.0	143.00	108.00	6318	•	•	•	•					
	225	54	4.0	186.00	150.00	6418	•	•							
95	120	13	1.0	19.90	17.60	61819			•	•					
	130	18	1.1	33.80	33.50	61919									
	145	16	1.0	42.30	41.50	16019									
	145	24	1.5	60.50	54.00	6019	•	•	•	•					
	170	32	2.1	108.00	81.50	6219	•	•	•	•	•				
	200	45	3.0	153.00	118.00	6319	•	•							
100	125	13	1.0	19.90	18.30	61820			•	•					
	140	20	1.1	42.30	41.50	61920									
	150	16	1.0	44.20	44.00	16020									
	150	24	1.5	60.50	54.00	6020	•	•	•	•	•				
	180	34	2.1	124.00	93.00	6220	•	•	•	•	•				
	215	47	3.0	174.00	140.00	6320	•	•							

Dimensions				Load Rating		AEC Bearing	Z	ZZ	RS	2RS	N	ZN	ZZN	M	K
mm				kN											
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )										
105	130	13	1.0	20.80	19.60	61821			•	•					
	145	20	1.1	44.20	44.00	61921									
	160	18	1.0	52.00	51.00	16021									
	160	26	2.0	72.80	65.50	6021	•	•	•	•	•				
	190	36	2.1	133.00	104.00	6221	•	•	•	•					
	225	49	3.0	182.00	153.00	6321	•	•							
110	140	16	1.0	28.10	26.00	61822			•	•					
	150	20	1.1	43.60	45.00	61922									
	170	19	1.0	57.20	57.00	16022									
	170	28	2.0	81.90	73.50	6022	•	•	•	•	•				
	200	38	2.1	143.00	118.00	6222	•	•	•	•					
	240	50	3.0	203.00	180.00	6322	•	•							
120	150	16	1.0	29.10	28.00	61824			•	•					
	165	22	1.1	55.30	57.00	61924									
	180	19	1.0	60.50	64.00	16024									
	180	28	2.0	85.20	80.00	6024	•	•	•	•	•				
	215	40	2.1	146.00	118.00	6224	•	•	•	•					
	260	55	3.0	208.00	186.00	6324									
130	165	18	1.1	37.70	43.00	61826			•	•					
	180	24	1.5	65.00	67.00	61926									
	200	22	1.1	79.30	81.50	16026									
	200	33	2.0	106.00	100.00	6026	•	•	•	•					
	230	40	3.0	156.00	132.00	6226	•	•							•
	280	58	4.0	229.00	216.00	6326									
140	175	18	1.1	39.00	46.50	61828			•	•					
	190	24	1.5	66.30	72.00	61928									
	210	22	1.1	80.60	86.50	16028									
	210	33	2.0	111.00	108.00	6028	•	•	•	•					•
	250	42	3.0	165.00	150.00	6228									
	300	62	4.0	251.00	245.00	6328									
150	190	20	1.1	48.80	61.00	61830									•
	210	28	2.0	88.40	93.00	61930									
	225	24	1.1	92.30	98.00	16030									
	225	35	2.1	125.00	125.00	6030	•	•	•	•					
	270	45	3.0	174.00	166.00	6230									
	320	65	4.0	276.00	285.00	6330									
160	200	20	1.1	49.40	64.00	61832									•
	220	28	2.0	92.30	98.00	61932									
	240	25	1.5	99.50	108.00	16032									
	240	38	2.1	143.00	143.00	6032	•	•	•	•					•
	290	48	3.0	186.00	186.00	6232									•
	340	68	4.0	276.00	285.00	6332									
170	215	22	1.1	61.80	78.00	61834									•
	230	28	2.0	93.60	106.00	61934									
	260	28	1.5	119.00	129.00	16034									
	260	42	2.1	168.00	173.00	6034									•

Dimensions						AEC Bearing	Z	ZZ	RS	2RS	N	ZN	ZZN	M	K
mm			Load Rating		kN										
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )										
180	310	52	4.0	212.00	224.00	6234								•	
	360	72	4.0	312.00	340.00	6334									
	225	22	1.1	62.40	81.50	61836								•	
	250	33	2.0	119.00	134.00	61936								•	
	280	31	2.0	138.00	146.00	16036									
	280	46	2.1	190.00	200.00	6036								•	
190	320	52	4.0	229.00	240.00	6236								•	
	380	75	4.0	351.00	405.00	6336									
	240	24	1.5	76.10	98.00	61838								•	
	260	33	2.0	117.00	134.00	61938								•	
	290	31	2.0	148.00	166.00	16038									
	290	46	2.1	195.00	216.00	6038								•	
200	340	55	4.0	255.00	280.00	6238								•	
	400	78	5.0	371.00	430.00	6338									
	250	24	1.5	76.10	102.00	61840								•	
	280	38	2.1	148.00	166.00	61940								•	
	310	34	2.0	168.00	190.00	16040									
	310	51	2.1	216.00	245.00	6040								•	
220	360	58	4.0	270.00	310.00	6240								•	
	420	80	5.0	377.00	465.00	6340									
	270	24	1.5	78.00	110.00	61844								•	
	300	38	2.1	151.00	180.00	61944								•	
	340	37	2.1	174.00	204.00	16044									
	340	56	3.0	247.00	290.00	6044								•	
240	400	65	4.0	296.00	365.00	6244								•	
	460	88	4.0	410.00	520.00	6344									
	300	28	2.0	108.00	150.00	61848								•	
	320	38	2.1	159.00	200.00	61948								•	
	360	37	2.1	178.00	220.00	16048								•	
	360	56	3.0	255.00	315.00	6048								•	
260	440	72	4.0	358.00	475.00	6248								•	
	320	28	2.0	111.00	163.00	61852								•	
	360	46	2.1	212.00	270.00	61952								•	
	400	44	3.0	238.00	310.00	16052								•	
	400	65	4.0	291.00	375.00	6052								•	
	480	80	5.0	390.00	530.00	6252								•	
280	350	33	2.0	138.00	200.00	61856								•	
	380	46	2.1	216.00	285.00	61956								•	
	420	44	3.0	242.00	335.00	16056								•	
	420	65	4.0	302.00	405.00	6056								•	
	500	80	5.0	423.00	600.00	6256								•	
	380	38	2.1	172.00	245.00	61860								•	
300	420	56	3.0	270.00	375.00	61960								•	
	460	50	4.0	286.00	405.00	16060								•	
	460	74	4.0	358.00	500.00	6060								•	

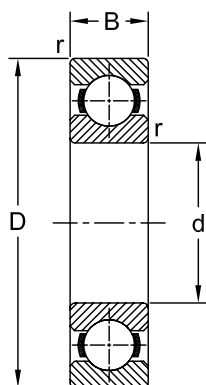
Dimensions				Load Rating		AEC Bearing	Z	ZZ	RS	2RS	N	ZN	ZZN	M	K
mm				kN											
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )										
320	400	38	2.1	172.00	255.00	61864									•
	440	56	3.0	276.00	400.00	61964									•
	480	50	4.0	281.00	405.00	16064									•
	480	74	4.0	371.00	540.00	6064									•
340	420	38	2.1	178.00	275.00	61868									•
	460	56	3.0	281.00	425.00	61968									•
	520	57	4.0	345.00	520.00	16068									•
	520	82	5.0	423.00	640.00	6068									•
360	440	38	2.1	182.00	285.00	61872									•
	480	56	3.0	291.00	450.00	61972									•
	540	57	4.0	351.00	550.00	16072									•
	540	82	5.0	462.00	735.00	6072									•
380	480	46	2.1	242.00	390.00	61876									•
	520	65	4.0	338.00	540.00	61976									•
	560	57	4.0	377.00	620.00	16076									•
	560	82	5.0	462.00	750.00	6076									•
400	500	46	2.1	247.00	405.00	61880									•
	540	65	4.0	345.00	570.00	61980									•
	600	90	5.0	520.00	865.00	6080									•
420	520	46	2.1	251.00	425.00	61884									•
	560	65	4.0	351.00	600.00	61984									•
	620	90	5.0	507.00	880.00	6084									•
440	540	46	2.1	255.00	440.00	61888									•
	600	74	4.0	410.00	720.00	61988									•
	650	94	6.0	553.00	965.00	6088									•
460	580	56	3.0	319.00	570.00	61892									•
	620	74	4.0	423.00	750.00	61992									•
	680	100	6.0	582.00	1060.00	6092									•
480	600	56	3.0	325.00	600.00	61896									•
	650	78	5.0	449.00	815.00	61996									•
	700	100	6.0	618.0	1140.0	6096									•
500	620	56	3.0	332.00	620.00	618/500									•
	670	78	5.0	462.00	865.00	619/500									•
	720	100	6.0	605.00	1140.00	60/500									•
530	650	56	3.0	332.00	655.00	618/530									•
	710	82	5.0	488.00	930.00	619/530									•
	780	112	6.0	650.00	1270.00	60/530									•
560	680	56	3.0	345.00	695.00	618/560									•
	750	85	5.0	494.00	980.00	619/560									•
	820	115	6.0	663.00	1470.00	60/560									•
600	730	60	3.0	364.00	765.00	618/600									•
	800	90	5.0	585.00	1220.00	619/600									•
630	780	69	4.0	442.00	965.00	618/630									•
	850	100	6.0	624.00	1340.00	619/630									•

Dimensions				Load Rating		AEC Bearing	Z	ZZ	RS	2RS	N	ZN	ZZN	M	K
mm				kN											
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )										
670	920	128	7.5	819.00	1760.00	60/630									•
	820	69	4.0	442.00	1000.00	618/670									•
	900	103	6.0	676.00	1500.00	619/670									•
	980	136	7.5	904.00	2040.00	60/670									•

# Ball Bearings

Single Row  
Inch Series

**RLS, RMS, XLJ**



Dimensions				Load Rating		AEC Bearing	M
inch (mm)				kN			
d	D	B	r	Dynamic (C)	Static (C <sub>o</sub> )		
0.500	1.3125	0.3750	0.0315 (0.8)	7.0	3.0	RLS 4	
	1.6250	0.6250	0.0630 (1.6)	12.1	5.6	RMS 4	
0.625	1.5625	0.4375	0.0315 (0.8)	10.9	5.0	RLS 5	
	1.8125	0.6250	0.0630 (1.6)	12.6	5.6	RMS 5	
0.750	1.8750	0.5625	0.0630 (1.6)	14.2	6.6	RLS 6	
	2.0000	0.6875	0.0630 (1.6)	16.5	7.8	RMS 6	
0.875	2.0000	0.5625	0.0630 (1.6)	14.4	6.6	RLS 7	
	2.2500	0.6875	0.0630 (1.6)	19.2	9.2	RMS 7	
1.000	2.2500	0.6250	0.0630 (1.6)	18.6	8.9	RLS 8	
	2.5000	0.7500	0.0945 (2.4)	22.1	10.6	RMS 8	
1.125	2.5000	0.6250	0.0630 (1.6)	20.2	10.0	RLS 9	
	2.8125	0.8125	0.0945 (2.4)	30.8	15.8	RMS 9	
1.250	2.7500	0.6875	0.0630 (1.6)	27.7	13.9	RLS 10	
	3.1250	0.8750	0.0945 (2.4)	37.7	19.5	RMS 10	
1.375	2.5625	0.5625	0.0630 (1.6)	16.6	8.5	XLJ 1.3/8	
	3.0000	0.6875	0.0630 (1.6)	30.2	15.7	RLS 11	
1.500	3.5000	0.8750	0.0945 (2.4)	45.3	23.9	RMS 11	
	2.6875	0.5625	0.0630 (1.6)	14.3	7.5	XLJ 1.1/2	
	3.2500	0.7500	0.0945 (2.4)	34.8	17.8	RLS 12	
1.625	3.7500	0.9375	0.0945 (2.4)	49.5	26.2	RMS 12	
	2.8750	0.5625	0.0630 (1.6)	14.9	8.2	XLJ 1.5/8	
	3.5000	0.7500	0.0945 (2.4)	38.7	20.0	RLS 13	
1.750	4.0000	0.9375	0.0945 (2.4)	55.0	29.9	RMS 13	
	3.0000	0.5625	0.0630 (1.6)	21.8	12.2	XLJ 1.3/4	
	3.7500	0.8125	0.0945 (2.4)	42.7	22.3	RLS 14	
1.875	4.2500	1.0625	0.0945 (2.4)	59.5	32.7	RMS 14	
	3.1875	0.6250	0.0630 (1.6)	22.7	13.1	XLJ 1.7/8	
	4.0000	0.8125	0.0945 (2.4)	50.5	27.8	RLS 15	
2.000	4.5000	1.0625	0.0945 (2.4)	69.0	38.7	RMS 15	
	3.3125	0.6250	0.0630 (1.6)	22.7	13.1	XLJ 2	
	4.0000	0.8125	0.0945 (2.4)	50.5	27.8	RLS 16	
	4.5000	1.0625	0.0945 (2.4)	69.0	38.7	RMS 16	

Dimensions				Load Rating		AEC Bearing	M
inch (mm)				kN			
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )		
2.250	3.5625	0.6250	0.0630 (1.6)	29.4	17.0	XLJ 2.1/4	
	4.5000	0.8750	0.0945 (2.4)	60.0	32.7	RLS 18	
	5.0000	1.2500	0.1260 (3.2)	85.0	48.5	RMS 18	
2.375	3.7500	0.6875	0.0630 (1.6)	29.6	18.5	XLJ 2.3/8	
2.500	3.8750	0.6875	0.0630 (1.6)	31.8	19.6	XLJ 2.1/2	
	5.0000	0.9375	0.0945 (2.4)	65.5	36.8	RLS 20	
	5.5000	1.2500	0.1260 (3.2)	96.5	55.5	RMS 20	
2.750	4.1250	0.6875	0.0630 (1.6)	24.5	15.9	XLJ 2.3/4	
	5.2500	0.9375	0.0945 (2.4)	70.0	40.9	RLS 22	
	6.2500	1.3750	0.1260 (3.2)	118.0	71.5	RMS 22	
3.000	4.5000	0.7500	0.0945 (2.4)	41.1	26.1	XLJ 3	●
	5.7500	1.0625	0.0945 (2.4)	81.5	48.3	RLS 24	●
	7.0000	1.5625	0.1575 (4.0)	138.0	89.5	RMS 24	
3.250	4.7500	0.7500	0.0945 (2.4)	30.5	21.2	XLJ 3.1/4	
	6.0000	1.0625	0.0945 (2.4)	87.5	52.5	RLS 26	●
	7.5000	1.5625	0.1575 (4.0)	139.0	89.5	RMS 26	●
3.375	7.5000	1.5625	0.1575 (4.0)	139.0	89.5	RMS 27	●
3.500	5.0000	0.7500	0.0945 (2.4)	34.1	23.5	XLJ 3.1/2	●
	6.5000	1.1250	0.1260 (3.2)	100.0	60.5	RLS 28	
	8.1250	1.7500	0.1575 (4.0)	169.0	120.0	RMS 28	
3.750	5.2500	0.7500	0.0945 (2.4)	40.6	28.8	XLJ 3.3/4	●
	6.7500	1.1250	0.1260 (3.2)	106.0	66.5	RLS 30	
	8.2500	1.7500	0.1575 (4.0)	169.0	120.0	RMS 30	
4.000	5.6250	0.8750	0.0945 (2.4)	41.4	30.3	XLJ 4	●
	7.2500	1.2500	0.1260 (3.2)	120.0	74.5	RLS 32	
	8.5000	1.7500	0.1575 (4.0)	170.0	120.0	RMS 32	
4.250	6.0000	0.8750	0.0945 (2.4)	48.4	36.5	XLJ 4.1/4	●
	7.5000	1.2500	0.1260 (3.2)	127.0	81.5	RLS 34	
	8.7500	1.7500	0.1890 (4.8)	171.0	120.0	RMS 34	
4.500	6.2500	0.8750	0.0945 (2.4)	55.5	40.2	XLJ 4.1/2	
	8.0000	1.3125	0.1260 (3.2)	147.0	98.5	RLS 36	●
	9.3750	2.0000	0.1890 (4.8)	203.0	155.0	RMS 36	
4.750	6.5000	0.8750	0.0945 (2.4)	57.0	42.4	XLJ 4.3/4	
	8.2500	1.3125	0.1260 (3.2)	134.0	87.0	RLS 38	
	10.0000	2.0000	0.1890 (4.8)	209.0	160.0	RMS 38	
4.875	7.0000	1.0000	0.0945 (2.4)	60.0	45.5	XLJ 4.7/8	
5.000	7.0000	1.0000	0.0945 (2.4)	68.0	50.0	XLJ 5	
	9.0000	1.3750	0.1260 (3.2)	154.0	107.0	RLS 40	
	10.0000	2.0000	0.1890 (4.8)	209.0	160.0	RMS 40	
5.250	7.2500	1.0000	0.0945 (2.4)	51.0	39.6	XLJ 5.1/4	
5.500	7.5000	1.0000	0.0945 (2.4)	57.0	47.5	XLJ 5.1/2	
	9.5000	1.3750	0.1260 (3.2)	153.0	107.0	RLS 44	
	11.0000	2.0000	0.1890 (4.8)	221.0	174.0	RMS 44	●
5.750	7.7500	1.0000	0.0945 (2.4)	53.5	43.5	XLJ 5.3/4	
6.000	8.0000	1.0000	0.0945 (2.4)	54.5	45.5	XLJ 6	●
	10.5000	1.5625	0.1575 (4.0)	180.0	134.0	RLS 48	
	12.0000	2.2500	0.1890 (4.8)	259.0	218.0	RMS 48	
6.500	8.7500	1.1250	0.1260 (3.2)	66.0	55.0	XLJ 6.1/2	●

Dimensions				Load Rating		AEC Bearing	M
inch (mm)				kN			
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )		
6.750	11.0000	1.5625	0.1575 (4.0)	188.0	145.0	RLS 52	
	13.0000	2.5000	0.1890 (4.8)	286.0	251.0	RMS 52	
	9.0000	1.1250	0.1260 (3.2)	70.0	60.0	XLJ 6.3/4	•
	7.000	1.2500	0.1260 (3.2)	77.5	65.0	XLJ 7	•
7.250	12.0000	1.7500	0.1575 (4.0)	221.0	180.0	RLS 56	•
	13.5000	2.5000	0.1890 (4.8)	306.0	278.0	RMS 56	•
	9.7500	1.2500	0.1260 (3.2)	79.5	67.0	XLJ 7.1/4	
	7.500	1.2500	0.1260 (3.2)	79.0	68.0	XLJ 7.1/2	•
8.000	12.5000	1.7500	0.1575 (4.0)	231.0	195.0	RLS 60	•
	14.5000	2.7500	0.1890 (4.8)	340.0	322.0	RMS 60	•
	10.7500	1.3750	0.1260 (3.2)	94.5	82.5	XLJ 8	•
	13.0000	1.7500	0.1575 (4.0)	230.0	195.0	RLS 64	•
8.500	15.0000	2.7500	0.1890 (4.8)	366.0	358.0	RMS 64	•
	11.5000	1.5000	0.1260 (3.2)	108.0	95.5	XLJ 8.1/2	•
	14.0000	2.0000	0.1890 (4.8)	263.0	232.0	RLS 68	•
	16.0000	3.0000	0.1890 (4.8)	396.0	401.0	RMS 68	•
9.000	12.0000	1.5000	0.1260 (3.2)	110.0	98.0	XLJ 9	•
	14.5000	2.0000	0.1890 (4.8)	275.0	251.0	RLS 72	•
	17.0000	3.0000	0.1890 (4.8)	415.0	445.0	RMS 72	•
	12.7500	1.6250	0.1575 (4.0)	127.0	115.0	XLJ 9.1/2	•
10.000	15.1250	2.0000	0.1890 (4.8)	287.0	271.0	RLS 76	•
	13.2500	1.6250	0.1575 (4.0)	130.0	120.0	XLJ 10	•
	15.7500	2.0000	0.1890 (4.8)	285.0	271.0	RLS 80	•
	18.5000	3.2500	0.1890 (4.8)	455.0	490.0	RMS 80	•
10.500	14.0000	1.7500	0.1575 (4.0)	145.0	133.0	XLJ 10.1/2	•
	16.6250	2.2500	0.1890 (4.8)	338.0	339.0	RLS 84	•
	14.5000	1.7500	0.1575 (4.0)	148.0	139.0	XLJ 11	•
	17.5000	2.2500	0.1890 (4.8)	335.0	339.0	RLS 88	•
11.000	20.0000	3.5000	0.1890 (4.8)	540.0	623.0	RMS 88	•
	15.2500	1.8750	0.1575 (4.0)	169.0	160.0	XLJ 11.1/2	•
	18.0000	2.3750	0.1890 (4.8)	371.0	390.0	RLS 92	•
	12.000	2.0000	0.1890 (4.8)	190.0	182.0	XLJ 12	•
12.500	18.5000	2.6250	0.1890 (4.8)	388.0	412.0	RLS 96	•
	21.5000	3.7500	0.1890 (4.8)	557.0	654.0	RMS 96	•
	16.5000	2.0000	0.1890 (4.8)	195.0	183.0	XLJ 12.1/2	•
	19.0000	2.6250	0.1890 (4.8)	405.0	444.0	RLS 100	•
13.000	17.5000	2.2500	0.1890 (4.8)	218.0	221.0	XLJ 13	•
	20.0000	2.7500	0.1890 (4.8)	420.0	466.0	RLS 104	•
	18.0000	2.2500	0.1890 (4.8)	235.0	240.0	XLJ 13.1/2	•
	20.7500	2.7500	0.1890 (4.8)	438.0	494.0	RLS 108	•
14.000	18.5000	2.2500	0.1890 (4.8)	255.0	245.0	XLJ 14	•
	21.5000	2.8750	0.1890 (4.8)	455.0	525.0	RLS 112	•
	19.5000	2.5000	0.1890 (4.8)	299.0	328.0	XLJ 14.1/2	•
	22.0000	3.0000	0.1890 (4.8)	476.0	562.0	RLS 116	•
15.000	20.0000	2.5000	0.1890 (4.8)	297.0	328.0	XLJ 15	•
	22.5000	3.0000	0.1890 (4.8)	474.0	562.0	RLS 120	•
	21.5000	2.7500	0.1890 (4.8)	323.0	375.0	XLJ 16	•
	23.7500	3.2500	0.1890 (4.8)	511.0	627.0	RLS 128	•

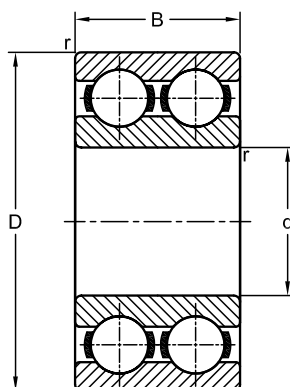


Dimensions				Load Rating		AEC Bearing	M
inch (mm)				kN			
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )		
17.000	22.5118	2.7500	0.1890 (4.8)	329.0	393.0	XLJ 17	●
18.000	24.0000	3.0000	0.1890 (4.8)	360.0	435.0	XLJ 18	●
19.000	25.5000	3.2500	0.1890 (4.8)	410.0	521.0	XLJ 19	●

# Ball Bearings

Double Row  
Metric Series

**42, 43**



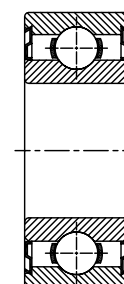
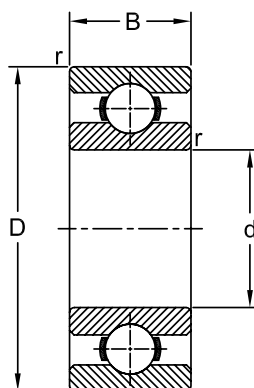
Dimensions				Load Rating		AEC Bearing	K
mm				kN			
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )		
15	35	14	0.6	11.9	7.5	4202	
	42	17	1.0	14.8	9.5	4302	
17	40	16	0.6	14.8	9.5	4203	●
	47	19	1.0	19.5	13.2	4303	
20	47	18	1.0	17.8	12.5	4204	
	52	21	1.1	23.4	16.0	4304	
25	52	18	1.0	19.0	14.6	4205	●
	62	24	1.1	31.9	22.4	4305	
30	62	20	1.0	26.0	20.8	4206	●
	72	27	1.1	41.0	30.0	4306	
35	72	23	1.1	35.1	28.5	4207	●
	80	31	1.5	50.7	38.0	4307	
40	80	23	1.1	37.1	32.5	4208	●
	90	33	1.5	55.9	45.0	4308	
45	85	23	1.1	39.0	36.0	4209	●
	100	36	1.5	68.9	56.0	4309	
50	90	23	1.1	41.0	40.0	4210	●
	110	40	2.0	81.9	69.5	4310	
55	100	25	1.5	44.9	44.0	4211	
	120	43	2.0	97.5	83.0	4311	
60	110	28	1.5	57.2	55.0	4212	●
	130	46	2.1	112.0	98.0	4312	
65	120	31	1.5	67.6	67.0	4213	
	140	48	2.1	121.0	106.0	4313	
70	125	31	1.5	70.2	73.5	4214	
	150	51	2.1	138.0	125.0	4314	
75	130	31	1.5	72.8	80.0	4215	
	160	55	2.1	156.0	143.0	4315	

Dimensions				Load Rating		AEC Bearing	K
mm				kN			
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )		
80	140	33	2.0	80.6	90.0	4216	
85	150	36	2.0	93.6	102.0	4217	
90	160	40	2.0	112.0	122.0	4218	
100	180	46	2.1	140.0	156.0	4220	

# Ball Bearings

Wide Row  
Metric Series

**W200, W300**



ZZ



O/S

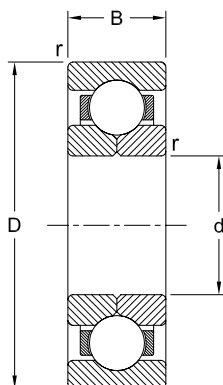
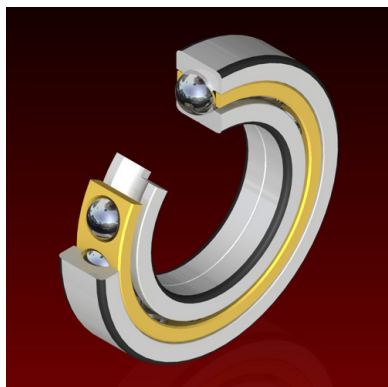
Dimensions				Load Rating		AEC Bearing	M	ZZ	O/S
mm				kN					
d	D	B	r	Dynamic (C)	Static (C <sub>o</sub> )				
17	40	17.46	0.6	9.6	4.8	W 203 PP		•	•
20	47	20.64	1.0	12.7	6.6	W 204 PP		•	•
	52	22.23	1.0	15.9	7.8	W 304 PP		•	•
25	52	20.64	1.0	14.0	7.8	W 205 PP		•	•
	62	25.40	1.0	22.5	11.6	W 305 PP		•	•
30	62	23.81	1.0	19.5	11.2	W 206 PP		•	•
	72	30.16	1.0	28.1	16.0	W 306 PP		•	•
35	72	26.99	1.0	25.5	15.3	W 207 PP		•	•
	80	34.93	1.5	33.2	19.0	W 307 PP		•	•
40	80	30.16	1.0	30.7	19.0	W 208 PP		•	•
	90	36.51	1.5	41.0	24.0	W 308 PP		•	•
45	85	30.16	1.0	33.2	21.6	W 209 PP		•	•
	100	39.69	1.5	52.7	31.5	W 309 PP		•	•
50	90	30.16	1.0	35.1	23.2	W 210 PP		•	•
	110	44.45	2.0	61.8	38.0	W 310 PP		•	•
55	100	33.34	1.5	43.6	29.0	W 211 PP		•	•
	120	49.21	2.0	71.5	45.0	W 311 PP		•	•
60	110	36.51	1.5	47.5	32.5	W 212 PP		•	•
	130	53.93	2.0	81.9	52.0	W 312 PP		•	•
65	120	38.10	1.5	55.9	40.5	W 213 PP		•	•
	140	58.74	2.0	92.3	60.0	W 313 PP		•	•
70	125	39.69	1.5	60.5	45.0	W 214 PP		•	•
	150	63.50	2.0	104.0	68.0	W 314 PP		•	•
75	130	41.28	1.5	66.3	49.0	W 215 PP		•	•
	160	68.26	2.0	114.0	76.5	W 315 PP		•	•
80	140	44.45	2.0	70.2	55.0	W 216 PP		•	•
	170	68.26	2.0	124.0	86.5	W 316 PP		•	•

Dimensions				Load Rating		AEC Bearing	M	ZZ	O/S
mm				kN					
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )				
85	150	49.21	2.0	83.2	64.0	W 217 PP		●	●
	180	73.03	2.5	133.0	96.5	W 317 PP		●	●
90	160	52.39	2.0	95.6	73.5	W 218 PP		●	●
	190	73.03	2.5	143.0	108.0	W 318 PP	●	●	●
95	200	77.78	3.0	153.0	118.0	W 319 PP	●	●	●
100	215	82.55	3.0	174.0	140.0	W 320 PP	●	●	●

# Ball Bearings

Four Point Contact  
Metric Series

**QJ200, QJ300**



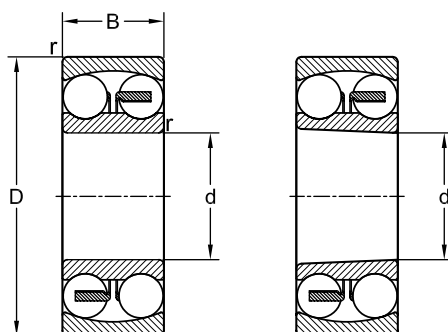
Dimensions				Load Rating		AEC Bearing	M
mm				kN			
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )		
20	52	15	1.1	29.6	20.0	QJ 304	●
25	52	15	1.0	25.1	20.0	QJ 205	●
30	62	16	1.0	35.1	28.5	QJ 206	●
	72	19	1.1	49.4	39.0	QJ 306	●
35	72	17	1.1	46.2	39.0	QJ 207	●
	80	21	1.5	59.2	46.5	QJ 307	●
40	80	18	1.1	52.7	45.0	QJ 208	●
	90	23	1.5	71.5	58.5	QJ 308	●
45	85	19	1.1	58.5	51.0	QJ 209	●
	100	25	1.5	93.6	76.5	QJ 309	●
50	90	20	1.1	61.8	56.0	QJ 210	●
	110	27	2.0	111.0	91.5	QJ 310	●
55	100	21	1.5	79.3	76.5	QJ 211	●
	120	29	2.0	127.0	108.0	QJ 311	●
60	110	22	1.5	92.3	86.5	QJ 212	●
	130	31	2.1	146.0	125.0	QJ 312	●
65	120	23	1.5	104.0	104.0	QJ 213	●
	140	33	2.1	165.0	146.0	QJ 313	●
70	125	24	1.5	114.0	114.0	QJ 214	●
	150	35	2.1	186.0	166.0	QJ 314	●
75	130	25	1.5	117.0	122.0	QJ 215	●
	160	37	2.1	199.0	186.0	QJ 315	●
80	140	26	2.0	138.0	146.0	QJ 216	●
	170	39	2.1	216.0	208.0	QJ 316	●
85	150	28	2.0	148.0	160.0	QJ 217	●
	180	41	3.0	234.0	236.0	QJ 317	●
90	160	30	2.0	174.0	186.0	QJ 218	●
	190	43	3.0	265.0	285.0	QJ 318	●

Dimensions				Load Rating		AEC Bearing	M
mm				kN			
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )		
95	170	32	2.1	199.0	212.0	QJ 219	●
	200	45	3.0	286.0	315.0	QJ 319	●
100	180	34	2.1	225.0	240.0	QJ 220	●
	215	47	3.0	307.0	340.0	QJ 320	●
110	200	38	2.1	265.0	305.0	QJ 222	●
	240	50	3.0	364.0	430.0	QJ 322	●
120	215	40	2.1	286.0	340.0	QJ 224	●
	260	55	3.0	390.0	490.0	QJ 324	●
130	230	40	3.0	296.0	365.0	QJ 226	●
	280	58	4.0	423.0	560.0	QJ 326	●
140	250	42	3.0	325.0	440.0	QJ 228	●
	300	62	4.0	468.0	640.0	QJ 328	●
150	270	45	3.0	338.0	465.0	QJ 230	●
	320	65	4.0	494.0	710.0	QJ 330	●
160	290	48	3.0	390.0	570.0	QJ 232	●
170	310	52	4.0	397.0	600.0	QJ 234	●
	360	72	4.0	618.0	965.0	QJ 334	●
180	320	52	4.0	436.0	680.0	QJ 236	●
	380	75	4.0	637.0	1020.0	QJ 336	●
200	360	58	4.0	507.0	850.0	QJ 240	●
220	400	65	4.0	553.0	980.0	QJ 244	●

# Ball Bearings

Self Aligning  
Metric Series

12, 13, 14, 22, 23



Cylindrical bore

Tapered bore

Dimensions				Load Rating		AEC Bearing	K
mm				kN			
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )		
15	35	11	0.6	7.4	1.8	1202	●
	35	14	0.6	8.7	2.0	2202	●
	42	13	1.0	10.8	2.6	1302	●
	42	17	1.0	11.9	2.9	2302	●
17	40	12	0.6	8.8	2.2	1203	●
	40	16	0.6	10.6	2.6	2203	●
	47	14	1.0	12.7	3.4	1303	●
		19	1.0	14.6	3.6	2303	●
20	47	14	1.0	12.7	3.4	1204	●
	47	18	1.0	16.8	4.2	2204	●
	52	15	1.1	14.3	4.0	1304	●
	52	21	1.1	18.2	4.8	2304	●
25	52	15	1.0	14.3	4.0	1205	●
	52	18	1.0	16.8	4.4	2205	●
	62	17	1.1	19.0	5.4	1305	●
	62	24	1.1	24.2	6.6	2305	●
30	62	16	1.0	15.6	4.7	1206	●
	62	20	1.0	23.8	6.7	2206	●
	72	19	1.1	22.5	6.8	1306	●
	72	27	1.1	31.2	8.8	2306	●
35	90	28	1.5	59.2	17.0	1406	●
	72	17	1.1	19.0	6.0	1207	●
	72	23	1.1	30.7	8.8	2207	●
	80	21	1.5	26.5	8.5	1307	●
40	80	31	1.5	39.7	11.2	2307	●
		30	1.5	62.4	18.0	1407	●
	80	18	1.1	19.9	7.0	1208	●
	80	23	1.1	31.9	10.0	2208	●
45	90	23	1.5	33.8	11.2	1308	●
	90	33	1.5	54.0	16.0	2308	●
		33	2.0	76.1	23.6	1408	●
	85	19	1.1	22.9	7.8	1209	●



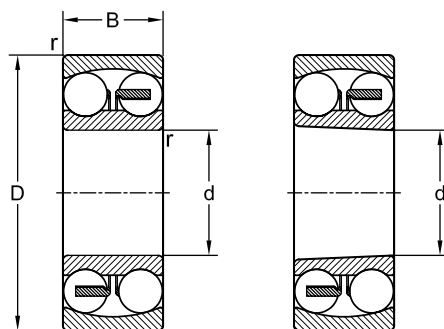
Dimensions				Load Rating		AEC Bearing	K
mm				kN			
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )		
50	85	19	1.1	32.5	10.6	2209	•
	100	23	1.5	39.0	13.4	1309	•
	100	36	1.5	63.7	19.3	2309	•
		35	2.0	88.4	27.5	1409	•
	90	20	1.1	26.5	9.2	1210	•
	90	23	1.1	33.8	11.2	2210	•
	110	27	2.0	43.6	14.0	1310	•
	110	40	2.0	63.7	20.0	2310	•
55		37	2.1	101.0	32.0	1410	•
	100	21	1.5	27.6	10.6	1211	•
	100	25	1.5	39.0	13.4	2211	•
	120	29	2.0	50.7	18.0	1311	•
	120	43	2.0	76.1	24.0	2311	•
60		40	2.1	111.0	36.5	1411	•
	110	22	1.5	31.2	12.2	1212	•
	110	28	1.5	48.8	17.0	2212	•
	130	31	2.1	58.5	22.0	1312	•
	130	46	2.1	87.1	28.5	2312	•
		42	2.1	125.0	41.5	1412	•
65	120	23	1.5	35.1	14.0	1213	•
	120	31	1.5	57.2	20.0	2213	•
65	140	33	2.1	65.0	25.5	1313	•
	140	48	2.1	95.6	32.5	2313	•
70	125	24	1.5	34.5	13.7	1214	•
	125	31	1.5	44.2	17.0	2214	•
75	150	35	2.1	74.1	27.5	1314	•
	150	51	2.1	111.0	37.5	2314	•
	130	25	1.5	39.0	15.6	1215	•
	130	31	1.5	44.2	18.0	2215	•
	160	37	2.1	79.3	30.0	1315	•
	160	55	2.1	124.0	43.0	2315	•
80	140	26	2.0	39.7	17.0	1216	•
	140	33	2.0	65.0	25.5	2216	•
85	170	39	2.1	88.4	33.5	1316	•
	170	58	2.1	135.0	49.0	2316	•
	150	28	2.0	48.8	20.8	1217	•
	150	36	2.0	58.5	23.6	2217	•
90	180	41	3.0	97.5	38.0	1317	•
	180	60	3.0	140.0	51.0	2317	•
	160	30	2.0	57.2	23.6	1218	•
	160	40	2.0	70.2	28.5	2218	•
	190	43	3.0	117.0	44.0	1318	•
95	190	64	3.0	153.0	57.0	2318	•
	170	32	2.1	63.7	27.0	1219	•
	170	43	2.1	83.2	34.5	2219	•
	200	45	3.0	133.0	51.0	1319	•
100	200	67	3.0	165.0	64.0	2319	•
	180	34	2.1	68.9	30.0	1220	•

Dimensions				Load Rating		AEC Bearing	K
mm				kN			
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )		
105	180	46	2.1	97.5	40.5	2220	●
	215	47	3.0	143.0	57.0	1320	●
	215	73	3.0	190.0	80.0	2320	●
	190	36	2.1	74.1	32.5	1221	●
	190	50	2.1	108.0	45.0	2220	●
110	200	38	2.1	88.4	39.0	1222	●
	200	53	2.1	124.0	52.0	2222	●
	240	50	3.0	163.0	72.0	1322	●
120	240	80	3.0	216.0	95.0	2322	●
	215	42	2.1	119.0	53.0	1224	●
	130	230	46	3.0	127.0	58.5	1226

# Ball Bearings

Self Aligning  
Inch Series

**RL, RM**



Cylindrical bore

Tapered bore

Dimensions				Load Rating		AEC Bearing	K
inch (mm)				kN			
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )		
0.500	1.3125	0.3750	0.0315 (0.8)	5.65	1.48	RL 4	
	1.6250	0.6250	0.0630 (1.6)	12.10	2.95	RM 4	
0.625	1.5625	0.4375	0.0315 (0.8)	8.25	2.42	RL 5	
	1.8125	0.6250	0.0630 (1.6)	12.90	3.67	RM 5	
0.750	1.8750	0.5625	0.0630 (1.6)	10.30	3.17	RL 6	
	2.0000	0.6875	0.0630 (1.6)	12.90	4.01	RM 6	
0.875	2.0000	0.5625	0.0630 (1.6)	12.90	4.01	RL 7	•
	2.2500	0.6875	0.0630 (1.6)	18.40	5.45	RM 7	•
1.000	2.2500	0.6250	0.0630 (1.6)	15.40	4.96	RL 8	•
	2.5000	0.7500	0.0945 (2.4)	21.30	6.55	RM 8	•
1.125	2.5000	0.6250	0.0630 (1.6)	16.30	5.80	RL 9	•
	2.8125	0.8125	0.0945 (2.4)	25.50	8.35	RM 9	•
1.250	2.7500	0.6875	0.0630 (1.6)	16.40	6.65	RL 10	•
	3.1250	0.8750	0.0945 (2.4)	0.00	10.50	RM 10	•
1.375	3.0000	0.6875	0.0630 (1.6)	19.10	7.55	RL 11	•
	3.5000	0.8750	0.0945 (2.4)	26.10	9.80	RM 11	•
1.500	3.2500	0.7500	0.0945 (2.4)	20.00	8.55	RL 12	•
	3.7500	0.9375	0.0945 (2.4)	34.10	13.10	RM 12	•
1.625	3.5000	0.7500	0.0945 (2.4)	22.70	9.60	RL 13	•
	4.0000	0.9375	0.0945 (2.4)	32.90	13.10	RM 13	•
1.750	3.7500	0.8125	0.0945 (2.4)	23.60	10.80	RL 14	•
	4.2500	1.0625	0.0945 (2.4)	44.50	18.00	RM 14	•
1.875	4.0000	0.8125	0.0945 (2.4)	27.80	13.40	RL 15	•
	4.5000	1.0625	0.0945 (2.4)	42.80	16.20	RM 15	•
2.000	4.0000	0.8125	0.0945 (2.4)	27.80	13.40	RL 16	•
	4.5000	1.0625	0.0945 (2.4)	42.80	16.20	RM 16	•
2.250	4.5000	0.8750	0.0945 (2.4)	31.50	15.50	RL 18	•
	5.0000	1.2500	0.1260 (3.2)	58.50	24.90	RM 18	•
2.500	5.0000	0.9375	0.0945 (2.4)	37.30	19.70	RL 20	•
	5.5000	1.2500	0.1260 (3.2)	60.50	24.20	RM 20	•
2.750	5.2500	0.9375	0.0945 (2.4)	40.60	21.40	RL 22	
	6.2500	1.3750	0.1260 (3.2)	74.50	33.00	RM 22	

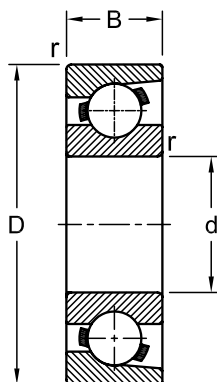
Dimensions				Load Rating		AEC Bearing	K
inch (mm)				kN			
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )		
3.000	5.7500	1.0625	0.0945 (2.4)	43.10	22.90	RL 24	●
	7.0000	1.5625	0.1575 (4.0)	86.50	36.40	RM 24	●
3.250	6.0000	1.0625	0.0945 (2.4)	58.50	27.60	RL 26	●
	7.5000	1.5625	0.1575 (4.0)	101.00	41.30	RM 26	●
3.375	7.5000	1.5625	0.1575 (4.0)	101.00	41.30	RM 27	
3.500	6.5000	1.1250	0.1260 (3.2)	66.00	30.90	RL 28	●
	8.1250	1.7500	0.1575 (4.0)	133.00	56.00	RM 28	●
3.750	6.7500	1.1250	0.1260 (3.2)	64.50	31.00	RL 30	●
	8.2500	1.7500	0.1575 (4.0)	135.00	64.00	RM 30	
4.000	7.2500	1.2500	0.1260 (3.2)	75.50	36.60	RL 32	●
	8.5000	1.7500	0.1575 (4.0)	149.00	76.50	RM 32	●
4.250	7.5000	1.2500	0.1260 (3.2)	77.50	39.20	RL 34	
	8.7500	1.7500	0.1890 (4.8)	146.00	76.50	RM 34	
4.500	8.0000	1.3125	0.1260 (3.2)	85.50	45.20	RL 36	●
	9.4021	2.0000	0.1890 (4.8)	159.00	78.50	RM 36	
4.750	8.2500	1.3125	0.1260 (3.2)	84.00	45.20	RL 38	●
	10.0000	2.0000	0.1890 (4.8)	168.00	90.00	RM 38	
5.000	9.0000	1.3750	0.1260 (3.2)	88.00	46.00	RL 40	●
	10.0000	2.0000	0.1890 (4.8)	168.00	90.00	RM 40	
5.500	9.5000	1.3750	0.1260 (3.2)	109.00	60.50	RL 44	
	11.0000	2.0000	0.1890 (4.8)	191.00	113.00	RM 44	
6.000	10.5000	1.5620	0.1575 (4.0)	120.00	68.50	RL 48	
	12.0000	2.2500	0.1890 (4.8)	211.00	129.00	RM 48	
0.500	1.3125	0.3750	0.0315 (0.8)	5.65	1.48	RL 4	
	1.6250	0.6250	0.0630 (1.6)	12.10	2.95	RM 4	
0.625	1.5625	0.4375	0.0315 (0.8)	8.25	2.42	RL 5	
	1.8125	0.6250	0.0630 (1.6)	12.90	3.67	RM 5	
0.750	1.8750	0.5625	0.0630 (1.6)	10.30	3.17	RL 6	
	2.0000	0.6875	0.0630 (1.6)	12.90	4.01	RM 6	
0.875	2.0000	0.5625	0.0630 (1.6)	12.90	4.01	RL 7	●
	2.2500	0.6875	0.0630 (1.6)	18.40	5.45	RM 7	●
1.000	2.2500	0.6250	0.0630 (1.6)	15.40	4.96	RL 8	●
	2.5000	0.7500	0.0945 (2.4)	21.30	6.55	RM 8	●
1.125	2.5000	0.6250	0.0630 (1.6)	16.30	5.80	RL 9	●
	2.8125	0.8125	0.0945 (2.4)	25.50	8.35	RM 9	●
1.250	2.7500	0.6875	0.0630 (1.6)	16.40	6.65	RL 10	●
	3.1250	0.8750	0.0945 (2.4)	0.00	10.50	RM 10	●
1.375	3.0000	0.6875	0.0630 (1.6)	19.10	7.55	RL 11	●
	3.5000	0.8750	0.0945 (2.4)	26.10	9.80	RM 11	●
1.500	3.2500	0.7500	0.0945 (2.4)	20.00	8.55	RL 12	●
	3.7500	0.9375	0.0945 (2.4)	34.10	13.10	RM 12	●
1.625	3.5000	0.7500	0.0945 (2.4)	22.70	9.60	RL 13	●
	4.0000	0.9375	0.0945 (2.4)	32.90	13.10	RM 13	●
1.750	3.7500	0.8125	0.0945 (2.4)	23.60	10.80	RL 14	●
	4.2500	1.0625	0.0945 (2.4)	44.50	18.00	RM 14	●
1.875	4.0000	0.8125	0.0945 (2.4)	27.80	13.40	RL 15	●
	4.5000	1.0625	0.0945 (2.4)	42.80	16.20	RM 15	●
2.000	4.0000	0.8125	0.0945 (2.4)	27.80	13.40	RL 16	●

Dimensions				Load Rating		AEC Bearing	K
inch (mm)				kN			
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )		
2.250	4.5000	1.0625	0.0945 (2.4)	42.80	16.20	RM 16	●
	4.5000	0.8750	0.0945 (2.4)	31.50	15.50	RL 18	●
	5.0000	1.2500	0.1260 (3.2)	58.50	24.90	RM 18	●
2.500	5.0000	0.9375	0.0945 (2.4)	37.30	19.70	RL 20	●
	5.5000	1.2500	0.1260 (3.2)	60.50	24.20	RM 20	●
2.750	5.2500	0.9375	0.0945 (2.4)	40.60	21.40	RL 22	
	6.2500	1.3750	0.1260 (3.2)	74.50	33.00	RM 22	
3.000	5.7500	1.0625	0.0945 (2.4)	43.10	22.90	RL 24	●
	7.0000	1.5625	0.1575 (4.0)	86.50	36.40	RM 24	●
3.250	6.0000	1.0625	0.0945 (2.4)	58.50	27.60	RL 26	●
	7.5000	1.5625	0.1575 (4.0)	101.00	41.30	RM 26	●

# Ball Bearings

Magneto  
Metric Series

**E, BO, L**

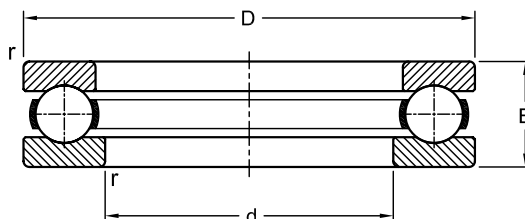
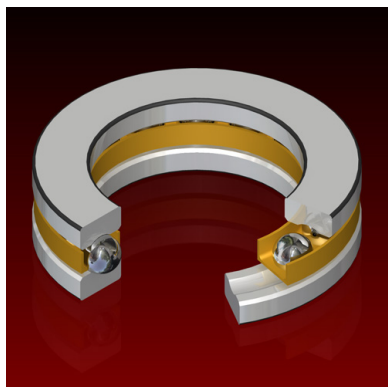


Dimensions				Load Rating		AEC Bearing	M
mm				kN			
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )		
10	28	8	0.5	4.44	0.72	E 10	
12	32	7	0.5	3.58	0.74	E 12	
13	30	7	0.3	3.57	0.74	E 13	●
14	35	8	0.5	4.70	1.00	E 14	●
15	35	8	0.5	4.70	1.00	E 15	●
	40	10	1.0	7.55	1.50	BO 15	
17	40	10	0.6	5.96	1.31	L 17	●
	44	11	1.0	9.00	1.87	BO 17	
19	40	9	0.7	3.64	0.94	E 19	
20	47	12	1.0	9.20	2.04	E 20	●
	47	14	1.5	9.20	2.04	L 20	
	52	15	2.0	12.78	2.65	M 20	
25	52	15	1.5	9.20	2.04	L 25	
30	62	16	1.5	7.55	2.24	L 30	

# Ball Bearings

Thrust  
Metric Series

51



Dimensions				Load Rating		AEC Bearing
mm				kN		
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )	
10	24	9	0.3	10.0	14.0	51100
	26	11	0.6	12.7	17.0	51200
12	26	9	0.3	10.4	15.3	51101
	28	11	0.6	13.3	19.0	51201
15	28	9	0.3	9.4	14.0	51102
	32	12	0.6	16.5	25.0	51202
17	30	9	0.3	9.8	15.3	51103
	35	12	0.6	17.2	27.5	51203
20	35	10	0.3	12.7	20.8	51104
	40	14	0.6	22.5	37.5	51204
25	42	11	0.6	15.9	29.0	51105
	47	15	0.6	27.6	50.0	51205
	52	18	1.0	34.5	55.0	51305
	52	24	1.0	55.3	90.0	51405
30	47	11	0.6	16.8	33.5	51106
	52	16	0.6	25.5	47.5	51206
	60	21	1.0	37.7	65.5	51306
	70	28	1.0	72.8	125.0	51406
35	52	12	0.6	17.4	37.5	51107
	62	18	1.0	35.1	67.0	51207
	68	24	1.0	49.4	88.0	51307
	80	32	1.1	87.1	156.0	51407
40	60	13	0.6	23.4	50.0	51108
	68	19	1.0	46.8	98.0	51208
	78	26	1.0	61.8	112.0	51308
	90	36	1.1	112.0	204.0	51408
45	65	14	0.6	24.2	57.0	51109
	73	20	1.0	39.0	80.0	51209
	85	28	1.0	76.1	140.0	51309

Dimensions				Load Rating		AEC Bearing
mm				kN		
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )	
50	100	39	1.1	130.0	240.0	51409
	70	14	0.6	25.5	63.0	51110
	78	22	1.0	49.4	106.0	51210
	95	31	1.1	88.4	173.0	51310
	110	43	1.5	159.0	310.0	51410
55	78	16	0.6	30.7	78.0	51111
	90	25	1.0	61.8	134.0	51211
	105	35	1.1	104.0	208.0	51311
	120	48	1.5	178.0	360.0	51411
60	85	17	1.0	35.8	90.0	51112
	95	26	1.0	62.4	140.0	51212
	110	35	1.1	101.0	208.0	51312
	130	51	1.5	199.0	400.0	51412
65	90	18	1.0	37.1	98.0	51113
	100	27	1.0	63.7	150.0	51213
	115	36	1.1	106.0	220.0	51313
	140	56	2.0	216.0	450.0	51413
70	95	18	1.0	37.7	104.0	51114
	105	27	1.0	65.0	160.0	51214
	125	40	1.1	135.0	300.0	51314
	150	60	2.0	234.0	500.0	51414
75	100	19	1.0	44.2	137.0	51115
	110	27	1.0	67.6	170.0	51215
	135	44	1.5	163.0	360.0	51315
	160	65	2.0	251.0	560.0	51415
80	105	19	1.0	44.9	140.0	51116
	115	28	1.0	76.1	190.0	51216
	140	44	1.5	159.0	360.0	51316
	170	68	2.1	270.0	620.0	51416
85	110	19	1.0	46.2	150.0	51117
	125	31	1.0	97.5	250.0	51217
	150	49	1.5	190.0	425.0	51317
	180	72	2.1	286.0	680.0	51417
90	120	22	1.0	59.2	190.0	51118
	135	35	1.1	119.0	300.0	51218
	155	50	1.5	195.0	465.0	51318
	190	77	2.1	307.0	750.0	51418
100	135	25	1.0	85.2	270.0	51120
	150	38	1.1	124.0	320.0	51220
	170	55	1.5	229.0	560.0	51320
	210	85	3.0	371.0	965.0	51420
110	145	25	1.0	87.1	290.0	51122
	160	38	1.1	130.0	360.0	51222
	190	63	2.0	276.0	720.0	51322
	230	95	3.0	410.0	1140.0	51422



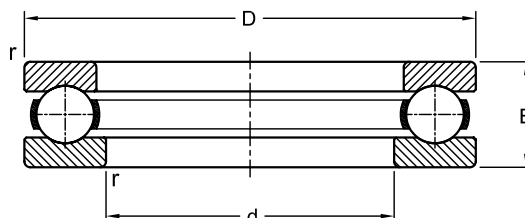
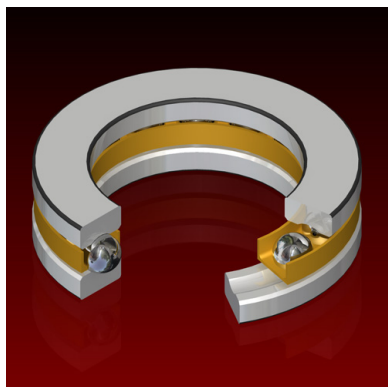
Dimensions				Load Rating		AEC Bearing
mm				kN		
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )	
130	170	30	1.0	111.0	390.0	51126
	190	45	1.5	186.0	540.0	51226
	225	75	2.1	358.0	1060.0	51326
	270	110	4.0	520.0	1600.0	51426
140	180	31	1.0	111.0	400.0	51128
	200	46	1.5	190.0	570.0	51228
	240	80	2.1	397.0	1220.0	51328
	280	112	4.0	520.0	1600.0	51428
150	190	31	1.0	111.0	400.0	51130
	215	50	1.5	238.0	735.0	51230
	250	80	2.1	410.0	1290.0	51330
	300	120	4.0	559.0	1800.0	51430
160	200	31	1.0	112.0	425.0	51132
	225	51	1.5	242.0	780.0	51232
	270	87	3.0	449.0	1500.0	51332
170	215	34	1.1	133.0	500.0	51134
	240	55	1.5	286.0	930.0	51234
	280	87	3.0	468.0	1600.0	51334
180	225	34	1.1	135.0	530.0	51136
	250	56	1.5	296.0	1000.0	51236
	300	95	3.0	520.0	1830.0	51336
190	240	37	1.1	172.0	655.0	51138
	270	62	2.0	332.0	1160.0	51238
	320	105	4.0	600.0	2200.0	51338
200	250	37	1.1	168.0	655.0	51140
	280	62	2.0	338.0	1220.0	51240
	340	110	4.0	624.0	2400.0	51340
220	270	37	1.1	178.0	735.0	51144
	300	63	2.0	351.0	1320.0	51244
240	300	45	1.5	234.0	965.0	51148
	340	78	2.1	462.0	1860.0	51248
260	320	45	1.5	238.0	1020.0	51152
	360	79	2.1	475.0	2000.0	51252
280	350	53	1.5	319.0	1340.0	51156
	380	80	2.1	494.0	2160.0	51256
300	380	62	2.0	364.0	1600.0	51160
	420	95	3.0	605.0	2750.0	51260
320	400	63	2.0	371.0	1700.0	51164
	440	95	3.0	572.0	2700.0	51264
340	420	64	2.0	377.0	1800.0	51168
	460	96	3.0	605.0	2900.0	51268
360	440	65	2.0	390.0	1900.0	51172
	500	110	4.0	741.0	3800.0	51272

Dimensions mm				Load Rating kN		AEC Bearing
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )	
380	460	65	2.0	430.0	2240.0	51176
400	480	65	2.0	440.0	2320.0	51180

# Ball Bearings

Thrust  
Inch Series

**W, EW, XW, MT**



Dimensions				Load Rating		AEC Bearing	M
inch (mm)				kN			
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )		
0.375	1.0000	0.5312	0.0315 (0.8)	8.90	8.90	W 3/8	●
0.438	1.2812	0.6250	0.0315 (0.8)	14.90	15.80	W 7/16	
0.500	1.2812	0.6250	0.0315 (0.8)	19.20	20.00	W 1/2	●
0.563	1.4062	0.6250	0.0315 (0.8)	20.00	22.50	W 9/16	
0.625	1.4062	0.6250	0.0315 (0.8)	20.00	22.50	W 5/8	
0.750	1.5313	0.6250	0.0315 (0.8)	18.20	23.70	W 3/4	
	1.5625	0.7187	0.0315 (0.8)	20.80	25.00	MT 3/4	●
0.875	1.6562	0.6250	0.0315 (0.8)	19.60	27.60	W 7/8	
	1.8125	0.7500	0.0315 (0.8)	24.80	30.80	MT 7/8	●
1.000	1.7813	0.6250	0.0630 (1.6)	19.30	27.60	W 1	
	2.0000	0.7500	0.0630 (1.6)	27.30	37.00	MT 1	●
1.125	1.9063	0.6250	0.0630 (1.6)	20.50	31.60	W 1.1/8	
	2.2500	0.8750	0.0630 (1.6)	34.00	44.40	MT 1.1/8	●
1.250	2.0625	0.5000	0.0630 (1.6)	4.47	8.90	EW 1.1/4	
	2.0937	0.7187	0.0630 (1.6)	23.10	35.00	W 1.1/4	
1.375	2.5000	1.0000	0.0630 (1.6)	45.60	60.50	MT 1.1/4	●
	2.1875	0.5000	0.0630 (1.6)	4.36	8.90	EW 1.3/8	
1.500	2.2187	0.7187	0.0630 (1.6)	22.70	35.00	W 1.3/8	
	2.3125	0.5000	0.0630 (1.6)	4.62	10.00	EW 1.1/2	
1.625	2.3438	0.7187	0.0630 (1.6)	24.30	40.00	W 1.1/2	
	2.8750	1.1250	0.0630 (1.6)	57.30	79.00	MT 1.1/2	●
1.751	2.4375	0.5000	0.0630 (1.6)	4.54	10.00	EW 1.5/8	
	2.4687	0.7187	0.0630 (1.6)	23.90	40.00	W 1.5/8	●
1.875	2.6250	0.6250	0.0630 (1.6)	5.70	12.70	EW 1.3/4	
	2.6875	0.7500	0.0630 (1.6)	35.40	59.50	W 1.3/4	
2.000	3.3125	1.2500	0.0630 (1.6)	84.50	122.00	MT 1.3/4	●
	2.7500	0.6250	0.0630 (1.6)	6.00	14.10	EW 1.7/8	
2.000	2.8125	0.7500	0.0630 (1.6)	31.00	55.50	W 1.7/8	
	2.8750	0.6250	0.0630 (1.6)	5.90	14.10	EW 2	
	3.0625	0.6875	0.0630 (1.6)	25.90	50.00	XW 2	
	2.9688	0.7500	0.0945 (2.4)	33.60	65.00	W 2	
	3.6875	1.3750	0.0945 (2.4)	96.00	148.00	MT 2	●

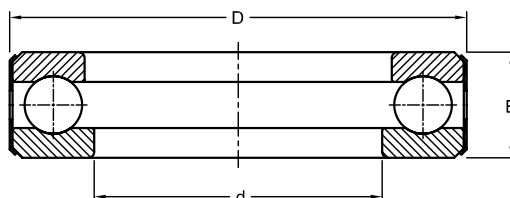
Dimensions				Load Rating		AEC Bearing	M
inch (mm)				kN			
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )		
2.125	3.1875	0.6875	0.0630 (1.6)	25.50	50.00	XW 2.1/8	•
	3.2187	0.8750	0.0945 (2.4)	43.70	80.00	W 2.1/8	•
2.250	3.1250	0.6250	0.0630 (1.6)	6.10	15.50	EW 2.1/4	
	3.3125	0.6875	0.0630 (1.6)	26.80	55.00	XW 2.1/4	•
	3.3437	0.8750	0.0945 (2.4)	43.10	80.00	W 2.1/4	•
	4.2500	1.6875	0.0945 (2.4)	128.00	195.00	MT 2.1/4	•
2.375	3.4375	0.6875	0.0630 (1.6)	26.50	55.00	XW 2.3/8	•
	3.5937	1.0000	0.0945 (2.4)	58.00	109.00	W 2.3/8	
2.500	3.5625	0.6875	0.0630 (1.6)	27.70	60.00	XW 2.1/2	•
	3.7187	1.0000	0.0945 (2.4)	57.50	109.00	W 2.1/2	•
	4.7500	2.0000	0.0945 (2.4)	160.00	242.00	MT 2.1/2	•
2.625	3.7500	0.7500	0.0630 (1.6)	32.10	68.00	XW 2.5/8	•
	3.8437	1.0000	0.0945 (2.4)	57.00	109.00	W 2.5/8	•
2.750	3.8750	0.7500	0.0630 (1.6)	33.70	74.00	XW 2.3/4	•
	4.0314	1.0000	0.0945 (2.4)	56.50	109.00	W 2.3/4	•
	5.0000	2.0000	0.0945 (2.4)	163.20	290.00	MT 2.3/4	•
2.875	4.0000	0.7500	0.0630 (1.6)	35.10	80.00	XW 2.7/8	•
	4.1562	1.0000	0.0945 (2.4)	64.00	125.00	W 2.7/8	•
3.000	4.1250	0.7500	0.0630 (1.6)	34.80	80.00	XW 3	•
	4.3750	1.1250	0.1260 (3.2)	72.50	142.00	W 3	•
	5.6250	2.2500	0.1260 (3.2)	226.00	379.00	MT 3	•
3.125	4.2500	0.7500	0.0630 (1.6)	34.80	84.00	XW 3.1/8	•
	4.5000	1.1250	0.1260 (3.2)	87.00	178.00	W 3.1/8	•
3.250	4.3750	0.7500	0.0630 (1.6)	35.80	86.50	XW 3.1/4	•
	4.8125	1.2500	0.1260 (3.2)	90.50	180.00	W 3.1/4	•
3.375	4.9375	1.2500	0.1260 (3.2)	89.50	180.00	W 3.3/8	•
3.500	4.6250	0.7500	0.0630 (1.6)	36.80	92.50	XW 3.1/2	•
	5.0625	1.2500	0.1260 (3.2)	88.50	180.00	W 3.1/2	•
	6.4375	2.5000	0.1260 (3.2)	274.00	490.00	MT 3.1/2	•
3.625	5.1875	1.2500	0.1260 (3.2)	94.50	200.00	W 3.5/8	•
3.750	4.8750	0.7500	0.0630 (1.6)	37.70	98.50	XW 3.3/4	•
	5.3125	1.2500	0.1260 (3.2)	93.50	200.00	W 3.3/4	•
3.875	5.6875	1.3750	0.1260 (3.2)	107.00	222.00	W 3.7/8	•
4.000	5.2500	0.8750	0.0945 (2.4)	49.50	124.00	XW 4	•
	5.8125	1.3750	0.1260 (3.2)	122.00	258.00	W 4	•
	7.2500	2.8125	0.1260 (3.2)	305.00	592.00	MT 4	•
4.250	6.3125	1.7500	0.1260 (3.2)	153.00	320.00	W 4.1/4	•
4.500	5.7500	1.0000	0.0945 (2.4)	50.50	133.00	XW 4.1/2	•
	6.5625	1.7500	0.1890 (4.8)	150.00	320.00	W 4.1/2	•
	8.3750	3.3750	0.1890 (4.8)	398.00	853.00	MT 4.1/2	•
4.750	7.0625	2.0000	0.1890 (4.8)	203.00	435.00	W 4.3/4	
5.000	6.5000	1.1250	0.0945 (2.4)	67.00	181.00	XW 5	•
	7.3125	2.0000	0.1890 (4.8)	201.00	435.00	W 5	•
	9.5000	4.0000	0.1890 (4.8)	473.00	1064.00	MT 5	•
5.500	7.0000	1.1250	0.0945 (2.4)	68.50	193.00	XW 5.1/2	•
	8.0625	2.1875	0.1890 (4.8)	258.00	568.00	W 5.1/2	•
	10.3750	4.2500	0.1890 (4.8)	486.00	1110.00	MT 5.1/2	•
6.000	7.6250	1.2500	0.1260 (3.2)	88.00	253.00	XW 6	•

Dimensions				Load Rating		AEC Bearing	M
inch (mm)				kN			
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )		
6.500	8.6875	2.3750	0.1890 (4.8)	280.00	642.00	W 6	•
	11.1250	4.5000	0.1890 (4.8)	564.00	1390.00	MT 6	•
	8.1250	1.2500	0.1260 (3.2)	90.00	268.00	XW 6.1/2	•
	9.4063	2.5000	0.250 (6.35)	312.00	759.00	W 6.1/2	•
7.000	8.7500	1.3750	0.1260 (3.2)	113.00	340.00	XW 7	•
	10.1250	2.6250	0.250 (6.35)	346.00	891.00	W 7	•
7.500	12.7500	5.0000	0.250 (6.35)	619.00	1599.00	MT 7	•
	9.2500	1.3750	0.1260 (3.2)	115.00	360.00	XW 7.1/2	•
	10.8750	2.7500	0.250 (6.35)	310.00	799.00	W 7.1/2	•
8.000	10.0000	1.5000	0.1260 (3.2)	135.00	419.00	XW 8	•
	11.6250	3.0000	0.250 (6.35)	339.00	888.00	W 8	•
8.500	14.3750	5.6250	0.250 (6.35)	713.00	1974.00	MT 8	•
	10.5000	1.5000	0.1260 (3.2)	138.00	444.00	XW 8.1/2	•
	9.000	11.2500	1.8750	0.1890 (4.8)	191.00	604.00	XW 9
9.500	13.1250	3.5000	0.250 (6.35)	445.00	1277.00	W 9	•
	16.6250	6.7500	0.250 (6.35)	931.00	2840.00	MT 9	•
	11.7500	1.8750	0.1890 (4.8)	196.00	640.00	XW 9.1/2	•
	10.000	12.5000	2.1250	0.1890 (4.8)	246.00	770.00	XW 10
10.500	14.6250	4.0000	0.3110 (7.9)	561.00	1740.00	W 10	•
	13.0000	2.1250	0.1890 (4.8)	253.00	823.00	XW 10.1/2	•
	11.000	13.7500	2.3750	0.1890 (4.8)	276.00	885.00	XW 11
11.500	15.8750	4.2500	0.3110 (7.9)	613.00	2000.00	W 11	•
	14.2500	2.3750	0.1890 (4.8)	284.00	943.00	XW 11.1/2	•
	12.000	15.0000	2.5000	0.1890 (4.8)	307.00	1010.00	XW 12
12.500	17.3750	4.5000	0.3110 (7.9)	667.00	2274.00	W 12	•
	15.5000	2.6250	0.250 (6.35)	317.00	1072.00	XW 12.1/2	•
	13.000	16.2500	2.7500	0.250 (6.35)	333.00	1140.00	XW 13
13.500	16.7500	2.8750	0.250 (6.35)	363.00	1280.00	XW 13.1/2	•
14.000	17.5000	3.0000	0.250 (6.35)	376.00	1330.00	XW 14	•
14.500	18.0000	3.1250	0.250 (6.35)	407.00	1480.00	XW 14.1/2	•
15.000	18.7500	3.2500	0.250 (6.35)	419.00	1570.00	XW 15	•
15.500	19.2500	3.3750	0.250 (6.35)	434.00	1630.00	XW 15.1/2	•
16.000	20.0000	3.5000	0.250 (6.35)	464.00	1790.00	XW 16	•
16.500	20.5000	3.6250	0.250 (6.35)	481.00	1910.00	XW 16.1/2	•
17.000	21.2500	3.7500	0.250 (6.35)	514.00	2081.00	XW 17	•
17.500	21.7500	3.8750	0.3110 (7.9)	548.00	2270.00	XW 17.1/2	•
18.000	22.5000	4.0000	0.3110 (7.9)	543.00	2270.00	XW 18	•

# Ball Bearings

Full Complement Thrust  
Inch Series

**D**



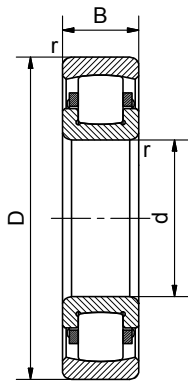
Dimensions			Load Rating		AEC Bearing
inch			kN		
d	D	B	Dynamic (C)	Static (C <sub>0</sub> )	
0.500	1.2190	0.5625	14.5	15.4	D 1
0.625	1.3438	0.5625	15.5	20.3	D 3
0.750	1.4688	0.5625	16.0	22.8	D 5
0.875	1.8438	0.6250	24.0	40.3	D 7
1.000	1.9688	0.6250	25.1	43.2	D 9
1.125	2.0940	0.6250	25.8	47.0	D 11
1.250	2.3438	0.6250	27.0	54.4	D 13
1.375	2.4687	0.6250	27.5	58.4	D 15
1.500	2.5938	0.6250	28.3	66.7	D 17
1.750	3.0938	0.8125	39.3	96.0	D 21
2.000	3.3438	0.8125	40.8	107.0	D 25
2.250	3.7190	0.8125	42.0	118.0	D 29
2.438	3.8438	0.8125	43.2	122.5	D 32
2.500	3.9688	0.8125	43.2	129.0	D 33
2.750	4.4690	1.0000	68.5	190.0	D 37
2.813	4.4690	1.0000	68.5	190.0	D 38
3.000	4.5940	1.0000	68.5	190.0	D 39.1/2
3.000	4.7190	1.0000	70.5	198.2	D 40
3.250	4.9690	1.0000	72.6	218.0	D 41

# Barrel Roller Bearings



Metric Series

**202, 203**



Dimensions				Load Rating		AEC Bearing	K	M
mm				kN				
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )			
20	47	14	1.0	20.4	19.3	20204	•	•
	52	15	1.1	27.0	24.5	20304	•	•
25	52	15	1.0	24.0	25.0	20205	•	•
	62	17	1.1	36.0	34.5	20305	•	•
30	62	16	1.0	27.5	28.5	20206	•	•
	72	19	1.1	49.0	49.0	20306	•	•
35	72	17	1.1	40.5	43.0	20207	•	•
	80	21	1.5	58.5	61.0	20307	•	•
40	80	18	1.1	49.0	53.0	20208	•	•
	90	23	1.5	76.5	81.5	20308	•	•
45	85	19	1.1	52.0	57.0	20209	•	•
	100	25	1.5	86.5	95.0	20309	•	•
50	90	20	1.1	58.5	68.0	20210	•	•
	110	27	2.0	108.0	118.0	20310	•	•
55	100	21	1.5	73.5	85.0	20211	•	•
	120	29	2.0	120.0	137.0	20311	•	•
60	110	22	1.5	85.0	100.0	20212	•	•
	130	31	2.1	146.0	170.0	20312	•	•
65	120	23	1.5	95.0	116.0	20213	•	•
	140	33	2.1	170.0	196.0	20313	•	•
70	125	24	1.5	106.0	134.0	20214	•	•
	150	35	2.1	183.0	216.0	20314	•	•
75	130	25	1.5	112.0	143.0	20215	•	•
	160	37	2.1	216.0	255.0	20315	•	•
80	140	26	2.0	125.0	163.0	20216	•	•
	170	39	2.1	245.0	285.0	20316	•	•
85	150	28	2.0	156.0	200.0	20217	•	•
	180	41	3.0	270.0	320.0	20317	•	•

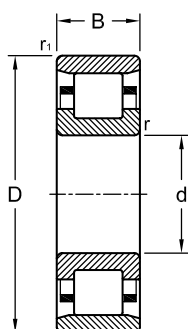
Dimensions				Load Rating		AEC Bearing	K	M
mm				kN				
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )			
90	160	30	2.0	173.0	220.0	20218	•	•
	190	43	3.0	300.0	360.0	20318	•	•
95	170	32	2.1	208.0	265.0	20219	•	•
	200	45	3.0	335.0	400.0	20319	•	•
100	180	34	2.1	224.0	290.0	20220	•	•
	215	47	3.0	365.0	440.0	20320	•	•
105	190	36	2.1	245.0	315.0	20221	•	•
	225	49	3.0	375.0	480.0	20321	•	•
110	200	38	2.1	285.0	375.0	20222	•	•
	240	50	3.0	430.0	520.0	20322	•	•
120	215	40	2.1	305.0	415.0	20224	•	•
	260	55	3.0	490.0	630.0	20324	•	•
130	230	40	3.0	335.0	450.0	20226	•	•
	280	58	4.0	550.0	720.0	20326	•	•
140	250	42	3.0	390.0	530.0	20228	•	•
	300	62	4.0	640.0	850.0	20328	•	•
150	270	45	3.0	430.0	610.0	20230	•	•
	320	65	4.0	720.0	950.0	20330	•	•
160	290	48	3.0	500.0	720.0	20232	•	•
	340	68	4.0	780.0	1050.0	20332	•	•
170	310	52	4.0	570.0	830.0	20234	•	•
	360	72	4.0	870.0	1165.0	20334	•	•
180	320	52	4.0	285.0	850.0	20236	•	•
	380	75	4.0	935.0	1260.0	20336	•	•
190	340	55	4.0	640.0	950.0	20238	•	•
	400	78	5.0	1025.0	1338.0	20338	•	•
200	360	58	4.0	735.0	1080.0	20240	•	•
	420	80	5.0	1060.0	1420.0	20340	•	•
220	400	62	4.0	880.0	1320.0	20244	•	•
	460	88	5.0	1290.0	1755.0	20344	•	•
240	440	72	4.0	1060.0	1600.0	20248	•	•
	500	95	5.0	1550.0	2100.0	20348	•	•
260	480	80	5.0	1270.0	1930.0	20252	•	•
280	500	80	5.0	1290.0	2000.0	20256	•	•



# Cylindrical Roller Bearings

Single Row  
Metric Series

**N, NF, NJ, NU, NUP**



N



NF



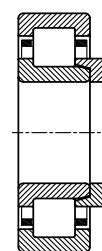
NJ



NU



NUP



HJ

Dimensions					Load Rating		AEC Bearing	M	Angle Ring
mm					kN				
d	D	B	r <sub>1</sub>	r	Dynamic (C)	Static (C <sub>0</sub> )			
15	35	11	0.6	0.3	9.8	7.8	N 202		
	35	11	0.6	0.3	12.5	10.2	N 202 E		
	35	11	0.6	0.3	9.8	7.8	NF 202		
	35	11	0.6	0.3	12.5	10.2	NF 202 E		
	35	11	0.6	0.3	9.8	7.8	NJ 202		
	35	11	0.6	0.3	12.5	10.2	NJ 202 E		●
	35	11	0.6	0.3	9.8	7.8	NU 202		
	35	11	0.6	0.3	12.5	10.2	NU 202 E		●
	42	13	1	0.6	14.2	10.7	N 302		
	42	13	1	0.6	19.4	15.3	N 302 E		
	42	13	1	0.6	14.2	10.7	NF 302		
	42	13	1	0.6	19.4	15.3	NF 302 E		
	42	13	1	0.6	14.2	10.7	NJ 302		
	42	13	1	0.6	19.4	15.3	NJ 302 E		●
	42	13	1	0.6	14.2	10.7	NU 302		
	42	13	1	0.6	19.4	15.3	NU 302 E		●
17	40	12	0.6	0.3	11.4	8.6	N 203		
	40	12	0.6	0.3	17.2	14.3	N 203 E		
	40	12	0.6	0.3	11.4	8.6	NF 203		
	40	12	0.6	0.3	17.2	14.3	NF 203 E		
	40	12	0.6	0.3	11.4	8.6	NJ 203		
	40	12	0.6	0.3	17.2	14.3	NJ 203 E		●
	40	12	0.6	0.3	11.4	8.6	NU 203		
	40	12	0.6	0.3	17.2	14.3	NU 203 E		●
	40	12	0.6	0.3	11.4	8.6	NUP 203		
	40	12	0.6	0.3	17.2	14.3	NUP 203 E		
	40	16	0.6	0.3	15.4	13.0	NJ 2203		
	40	16	0.6	0.3	23.8	21.6	NJ 2203 E		●
	40	16	0.6	0.3	15.4	13.0	NU 2203		
	40	16	0.6	0.3	23.8	21.6	NU 2203 E		●

Dimensions					Load Rating		AEC Bearing	M	Angle Ring
mm					kN				
d	D	B	r <sub>1</sub>	r	Dynamic (C)	Static (C <sub>0</sub> )			
20	40	16	0.6	0.3	15.4	13.0	NUP 2203		
	40	16	0.6	0.3	23.8	21.6	NUP 2203 E		
	47	14	1	0.6	18.8	14.8	N 303		
	47	14	1	0.6	24.6	20.4	N 303 E		
	47	14	1	0.6	18.8	14.8	NF 303		
	47	14	1	0.6	24.6	20.4	NF 303 E		
	47	14	1	0.6	18.8	14.8	NJ 303		
	47	14	1	0.6	24.6	20.4	NJ 303 E	•	•
	47	14	1	0.6	18.8	14.8	NU 303		
	47	14	1	0.6	24.6	20.4	NU 303 E	•	•
	47	14	1	0.6	18.8	14.8	NUP 303		
	47	14	1	0.6	24.6	20.4	NUP 303 E	•	
	47	14	1	0.6	15.5	12.0	N 204		
	47	14	1	0.6	25.1	22.0	N 204 E		
	47	14	1	0.6	15.5	12.0	NF 204		
	47	14	1	0.6	25.1	22.0	NF 204 E		
	47	14	1	0.6	15.5	12.0	NJ 204	•	
	47	14	1	0.6	25.1	22.0	NJ 204 E		•
	47	14	1	0.6	15.5	12.0	NU 204	•	
	47	14	1	0.6	25.1	22.0	NU 204 E		•
	47	14	1	0.6	15.5	12.0	NUP 204	•	
	47	14	1	0.6	25.1	22.0	NUP 204 E		
	47	18	1	0.6	21.0	17.8	NJ 2204		
	47	18	1	0.6	29.7	27.5	NJ 2204 E		•
	47	18	1	0.6	21.0	17.8	NU 2204		
	47	18	1	0.6	29.7	27.5	NU 2204 E		•
	47	18	1	0.6	21.0	17.8	NUP 2204		
	47	18	1	0.6	29.7	27.5	NUP 2204 E		
	52	15	1	0.6	21.7	16.6	N 304		
	52	15	1	0.6	30.8	26.0	N 304 E		
	52	15	1.1	0.6	21.7	16.6	NF 304		
	52	15	1.1	0.6	30.8	26.0	NF 304 E		
	52	15	1.1	0.6	21.7	16.6	NJ 304	•	
	52	15	1.1	0.6	30.8	26.0	NJ 304 E	•	
	52	15	1.1	0.6	21.7	16.6	NU 304	•	
	52	15	1.1	0.6	30.8	26.0	NU 304 E	•	
	52	15	1.1	0.6	21.7	16.6	NUP 304		
	52	15	1.1	0.6	30.8	26.0	NUP 304 E		
	52	21	1.1	0.6	31.2	26.5	NJ 2304	•	
	52	21	1.1	0.6	41.3	38.0	NJ 2304 E	•	
	52	21	1.1	0.6	31.2	26.5	NU 2304	•	
	52	21	1.1	0.6	41.3	38.0	NU 2304 E	•	
	52	21	1.1	0.6	31.2	26.5	NUP 2304		
	52	21	1.1	0.6	41.3	38.0	NUP 2304 E		
25	47	12	0.6	0.3	14.2	13.2	N 1005		
	47	12	0.6	0.3	14.2	13.2	NJ 1005		

Dimensions					Load Rating		AEC Bearing	M	Angle Ring
mm					kN				
d	D	B	r <sub>1</sub>	r	Dynamic (C)	Static (C <sub>0</sub> )			
30	47	12	0.6	0.3	14.2	13.2	NU 1005		
	47	12	0.6	0.3	14.2	13.2	NUP 1005		
	52	15	1	0.6	17.7	14.8	N 205		
	52	15	1	0.6	28.6	27.0	N 205 E		
	52	15	1	0.6	17.7	14.8	NF 205		
	52	15	1	0.6	28.6	27.0	NF 205 E		
	52	15	1	0.6	17.7	14.8	NJ 205		
	52	15	1	0.6	28.6	27.0	NJ 205 E	•	
	52	15	1	0.6	17.7	14.8	NU 205		
	52	15	1	0.6	28.6	27.0	NU 205 E	•	
	52	15	1	0.6	17.7	14.8	NUP 205		
	52	15	1	0.6	28.6	27.0	NUP 205 E		
	52	18	1	0.6	24.1	22.0	NJ 2205	•	
	52	18	1	0.6	34.1	34.0	NJ 2205 E		•
	52	18	1	0.6	24.1	22.0	NU 2205		•
	52	18	1	0.6	34.1	34.0	NU 2205 E		•
	52	18	1	0.6	24.1	22.0	NUP 2205		
	52	18	1	0.6	34.1	34.0	NUP 2205 E		
	62	17	1.1	1.1	29.8	24.3	N 305		
	62	17	1.1	1.1	40.2	36.5	N 305 E		
	62	17	1.1	1.1	29.8	24.3	NF 305		
	62	17	1.1	1.1	40.2	36.5	NF 305 E		
	62	17	1.1	1.1	29.8	24.3	NJ 305	•	•
	62	17	1.1	1.1	40.2	36.5	NJ 305 E		•
	62	17	1.1	1.1	29.8	24.3	NU 305	•	•
	62	17	1.1	1.1	40.2	36.5	NU 305 E		•
	62	17	1.1	1.1	29.8	24.3	NUP 305	•	
	62	17	1.1	1.1	40.2	36.5	NUP 305 E		
	62	24	1.1	1.1	43.9	40.0	NJ 2305		•
	62	24	1.1	1.1	56.1	55.0	NJ 2305 E		•
	62	24	1.1	1.1	43.9	40.0	NU 2305		•
	62	24	1.1	1.1	56.1	55.0	NU 2305 E		•
	62	24	1.1	1.1	43.9	40.0	NUP 2305		
	62	24	1.1	1.1	56.1	55.0	NUP 2305 E		
	80	21	1.5	1.5	47.1	38.1	N 405		
	80	21	1.5	1.5	47.1	38.1	NJ 405		
	80	21	1.5	1.5	47.1	38.1	NU 405		
	80	21	1.5	1.5	47.1	38.1	NUP 405		
55	13	1	0.6	17.9	17.3	N 1006			
55	13	1	0.6	17.9	17.3	NJ 1006			
55	13	1	0.6	17.9	17.3	NU 1006			
55	13	1	0.6	17.9	17.3	NUP 1006			
62	16	1	0.6	23.7	20.6	N 206			
62	16	1	0.6	38.0	36.5	N 206 E			
62	16	1	0.6	23.7	20.6	NF 206			
62	16	1	0.6	38.0	36.5	NF 206 E			

Dimensions					Load Rating		AEC Bearing	M	Angle Ring
mm					kN				
d	D	B	r <sub>1</sub>	r	Dynamic (C)	Static (C <sub>0</sub> )			
35	62	16	1	0.6	23.7	20.6	NJ 206	•	
	62	16	1	0.6	38.0	36.5	NJ 206 E	•	
	62	16	1	0.6	23.7	20.6	NU 206	•	
	62	16	1	0.6	38.0	36.5	NU 206 E	•	
	62	16	1	0.6	23.7	20.6	NUP 206		
	62	16	1	0.6	38.0	36.5	NUP 206 E		
	62	20	1	0.6	33.6	32.2	N 2206		
	62	20	1	0.6	48.4	49.0	N 2206 E		
	62	20	1	0.6	33.6	32.2	NJ 2206	•	
	62	20	1	0.6	48.4	49.0	NJ 2206 E	•	
	62	20	1	0.6	33.6	32.2	NU 2206	•	
	62	20	1	0.6	48.4	49.0	NU 2206 E	•	
	62	20	1	0.6	33.6	32.2	NUP 2206		
	62	20	1	0.6	48.4	49.0	NUP 2206 E		
	72	19	1.1	1.1	38.7	33.2	N 306		
	72	19	1.1	1.1	51.2	48.0	N 306 EC		
	72	19	1.1	1.1	38.7	33.2	NF 306		
	72	19	1.1	1.1	51.2	48.0	NF 306 EC		
	72	19	1.1	1.1	38.7	33.2	NJ 306	•	
	72	19	1.1	1.1	51.2	48.0	NJ 306 E	•	
	72	19	1.1	1.1	38.7	33.2	NU 306	•	
	72	19	1.1	1.1	51.2	48.0	NU 306 E	•	
	72	19	1.1	1.1	38.7	33.2	NUP 306		
	72	19	1.1	1.1	51.2	48.0	NUP 306 E		
	72	27	1.1	1.1	52.3	48.9	NJ 2306		
	72	27	1.1	1.1	73.7	75.0	NJ 2306 E	•	
	72	27	1.1	1.1	52.3	48.9	NU 2306		
	72	27	1.1	1.1	73.7	75.0	NU 2306 E		•
	72	27	1.1	1.1	52.3	48.9	NUP 2306		
	72	27	1.1	1.1	73.7	75.0	NUP 2306 E		
	90	23	1.5	1.5	60.5	53.0	N 406		
	90	23	1.5	1.5	60.5	53.0	NJ 406		•
	90	23	1.5	1.5	60.5	53.0	NU 406		•
	90	23	1.5	1.5	60.5	53.0	NUP 406		
	62	14	1	0.6	35.8	38.0	N 1007		
	62	14	1	0.6	35.8	38.0	NJ 1007		
	62	14	1	0.6	35.8	38.0	NU 1007		
	62	14	1	0.6	35.8	38.0	NUP 1007		
	72	17	1.1	0.6	33.5	29.6	N 207	•	
	72	17	1.1	0.6	48.4	48.0	N 207 EC		
	72	17	1.1	0.6	33.5	29.6	NF 207	•	
	72	17	1.1	0.6	48.4	48.0	NF 207 EC		
	72	17	1.1	0.6	33.5	29.6	NJ 207	•	•
	72	17	1.1	0.6	48.4	48.0	NJ 207 EC		•
	72	17	1.1	0.6	33.5	29.6	NU 207	•	•
	72	17	1.1	0.6	48.4	48.0	NU 207 EC		•

Dimensions					Load Rating		AEC Bearing	M	Angle Ring
mm					kN				
d	D	B	r <sub>1</sub>	r	Dynamic (C)	Static (C <sub>0</sub> )			
40	72	17	1.1	0.6	33.5	29.6	NUP 207	•	
	72	17	1.1	0.6	48.4	48.0	NUP 207 EC		
	72	23	1.1	0.6	49.8	49.3	N 2207		
	72	23	1.1	0.6	59.4	63.0	N 2207 EC		
	72	23	1.1	0.6	49.8	49.3	NJ 2207		•
	72	23	1.1	0.6	59.4	63.0	NJ 2207 EC		•
	72	23	1.1	0.6	49.8	49.3	NU 2207		•
	72	23	1.1	0.6	59.4	63.0	NU 2207 EC		•
	72	23	1.1	0.6	49.8	49.3	NUP 2207		
	72	23	1.1	0.6	59.4	63.0	NUP 2207 EC		
	80	21	1.5	1.1	46.8	40.9	N 307		
	80	21	1.5	1.1	64.4	63.0	N 307 EC		
	80	21	1.5	1.1	46.8	40.9	NF 307		
	80	21	1.5	1.1	64.4	63.0	NF 307 EC		
	80	21	1.5	1.1	46.8	40.9	NJ 307	•	•
	80	21	1.5	1.1	64.4	63.0	NJ 307 E	•	•
	80	21	1.5	1.1	46.8	40.9	NU 307	•	•
	80	21	1.5	1.1	64.4	63.0	NU 307 E	•	•
	80	21	1.5	1.1	46.8	40.9	NUP 307	•	
	80	21	1.5	1.1	64.4	63.0	NUP 307 E	•	
	80	31	1.5	1.1	61.5	58.1	NJ 2307	•	
	80	31	1.5	1.1	91.3	98.0	NJ 2307 EC		•
	80	31	1.5	1.1	61.5	58.1	NU 2307	•	
	80	31	1.5	1.1	91.3	98.0	NU 2307 EC		•
	80	31	1.5	1.1	61.5	58.1	NUP 2307	•	
	80	31	1.5	1.1	91.3	98.0	NUP 2307 EC		
	100	25	1.5	1.5	76.5	69.5	N 407		
	100	25	1.5	1.5	76.5	69.5	NJ 407		•
	100	25	1.5	1.5	76.5	69.5	NU 407		•
	100	25	1.5	1.5	76.5	69.5	NUP 407		
	68	15	1	0.6	25.1	26.0	N 1008		
	68	15	1	0.6	25.1	26.0	NJ 1008		
	68	15	1	0.6	25.1	26.0	NU 1008		
	68	15	1	0.6	25.1	26.0	NUP 1008		
	80	18	1.1	1.1	43.8	40.5	N 208		
	80	18	1.1	1.1	53.9	53.0	N 208 EC		
	80	18	1.1	1.1	43.8	40.5	NF 208		
	80	18	1.1	1.1	53.9	53.0	NF 208 EC		
	80	18	1.1	1.1	43.8	40.5	NJ 208	•	•
	80	18	1.1	1.1	53.9	53.0	NJ 208 E		•
	80	18	1.1	1.1	43.8	40.5	NU 208	•	•
	80	18	1.1	1.1	53.9	53.0	NU 208 E		•
	80	18	1.1	1.1	43.8	40.5	NUP 208	•	
	80	23	1.1	1.1	59.2	59.6	N 2208		
	80	23	1.1	1.1	70.4	75.0	N 2208 EC		
	80	23	1.1	1.1	59.2	59.6	NJ 2208		

Dimensions					Load Rating		AEC Bearing	M	Angle Ring
mm					kN				
d	D	B	r <sub>1</sub>	r	Dynamic (C)	Static (C <sub>0</sub> )			
45	80	23	1.1	1.1	70.4	75.0	NJ 2208 E		
	80	23	1.1	1.1	59.2	59.6	NU 2208		
	80	23	1.1	1.1	70.4	75.0	NU 2208 E		
	80	23	1.1	1.1	59.2	59.6	NUP 2208		
	80	23	1.1	1.1	70.4	75.0	NUP 2208 E		
	90	23	1.5	1.5	59.3	54.3	N 308	•	
	90	23	1.5	1.5	80.9	78.0	N 308 EC		
	90	23	1.5	1.5	59.3	54.3	NF 308	•	
	90	23	1.5	1.5	80.9	78.0	NF 308 EC		
	90	23	1.5	1.5	59.3	54.3	NJ 308		
	90	23	1.5	1.5	80.9	78.0	NJ 308 EC		
	90	23	1.5	1.5	59.3	54.3	NU 308		
	90	23	1.5	1.5	80.9	78.0	NU 308 E		
	90	23	1.5	1.5	59.3	54.3	NUP 308		
	90	23	1.5	1.5	80.9	78.0	NUP 308 E		
	90	33	1.5	1.5	84.3	85.4	NJ 2308		
	90	33	1.5	1.5	112.0	120.0	NJ 2308 E		
	90	33	1.5	1.5	84.3	85.4	NU 2308		
	90	33	1.5	1.5	112.0	120.0	NU 2308 E		
	90	33	1.5	1.5	84.3	85.4	NUP 2308		
	90	33	1.5	1.5	112.0	120.0	NUP 2308 E		
	110	27	2	2	96.8	90.0	N 408		
	110	27	2	2	96.8	90.0	NJ 408		
	110	27	2	2	96.8	90.0	NU 408		
	110	27	2	2	96.8	90.0	NUP 408		
	75	16	1	0.6	28.1	27.7	N 1009		
	75	16	1	0.6	44.6	52.0	N 1009 E		
	75	16	1	0.6	28.1	27.7	NJ 1009	•	
	75	16	1	0.6	44.6	52.0	NJ 1009 E		
	75	16	1	0.6	28.1	27.7	NU 1009	•	
	75	16	1	0.6	44.6	52.0	NU 1009 E		
	75	16	1	0.6	28.1	27.7	NUP 1009	•	
	75	16	1	0.6	44.6	52.0	NUP 1009 E		
	85	19	1.1	1.1	46.2	44.3	N 209		
	85	19	1.1	1.1	60.5	64.0	N 209 E		
	85	19	1.1	1.1	46.2	44.3	NF 209		
	85	19	1.1	1.1	60.5	64.0	NF 209 E		
	85	19	1.1	1.1	46.2	44.3	NJ 209	•	•
	85	19	1.1	1.1	60.5	64.0	NJ 209 E		•
	85	19	1.1	1.1	46.2	44.3	NU 209	•	•
	85	19	1.1	1.1	60.5	64.0	NU 209 E		•
	85	19	1.1	1.1	46.2	44.3	NUP 209	•	
	85	19	1.1	1.1	60.5	64.0	NUP 209 E		
	85	23	1.1	1.1	62.3	65.2	NJ 2209	•	
	85	23	1.1	1.1	73.7	81.5	NJ 2209 E	•	•
	85	23	1.1	1.1	62.3	65.2	NU 2209	•	

Dimensions					Load Rating		AEC Bearing	M	Angle Ring
mm					kN				
d	D	B	r <sub>1</sub>	r	Dynamic (C)	Static (C <sub>0</sub> )			
50	85	23	1.1	1.1	73.7	81.5	NU 2209 E	•	•
	85	23	1.1	1.1	62.3	65.2	NUP 2209	•	
	85	23	1.1	1.1	73.7	81.5	NUP 2209 E	•	
	100	25	1.5	1.5	75.0	68.3	N 309	•	
	100	25	1.5	1.5	99.0	100.0	N 309 EC		
	100	25	1.5	1.5	75.0	68.3	NF 309		
	100	25	1.5	1.5	99.0	100.0	NF 309 EC		
	100	25	1.5	1.5	75.0	68.3	NJ 309	•	•
	100	25	1.5	1.5	99.0	100.0	NJ 309 E		•
	100	25	1.5	1.5	75.0	68.3	NU 309	•	•
	100	25	1.5	1.5	99.0	100.0	NU 309 E		•
	100	25	1.5	1.5	75.0	68.3	NUP 309	•	
	100	25	1.5	1.5	99.0	100.0	NUP 309 E		
	100	36	1.5	1.5	102.0	101.0	NJ 2309		•
	100	36	1.5	1.5	138.0	153.0	NJ 2309 E		•
	100	36	1.5	1.5	102.0	101.0	NU 2309		•
	100	36	1.5	1.5	138.0	153.0	NU 2309 E		•
	100	36	1.5	1.5	102.0	101.0	NUP 2309		
	100	36	1.5	1.5	138.0	153.0	NUP 2309 E		
	120	29	2	2	106.0	102.0	N 409		
	120	29	2	2	106.0	102.0	NJ 409		•
	120	29	2	2	106.0	102.0	NU 409		•
	120	29	2	2	106.0	102.0	NUP 409		
	80	16	1	1	34.5	34.5	N 1010		
	80	16	1	1	34.5	34.5	NJ 1010		
	80	16	1	1	34.5	34.5	NU 1010		
	80	16	1	1	34.5	34.5	NUP 1010		
	90	20	1.1	1.1	48.3	48.1	N 210		
	90	20	1.1	1.1	64.4	69.5	N 210 E		
	90	20	1.1	1.1	48.3	48.1	NF 210		
	90	20	1.1	1.1	64.4	69.5	NF 210 E		
	90	20	1.1	1.1	48.3	48.1	NJ 210	•	•
	90	20	1.1	1.1	64.4	69.5	NJ 210 E		•
	90	20	1.1	1.1	48.3	48.1	NU 210	•	•
	90	20	1.1	1.1	64.4	69.5	NU 210 E		•
	90	20	1.1	1.1	48.3	48.1	NUP 210	•	
	90	20	1.1	1.1	64.4	69.5	NUP 210 E		
	90	23	1.1	1.1	65.3	70.8	NJ 2210		
	90	23	1.1	1.1	78.1	88.0	NJ 2210 E		•
	90	23	1.1	1.1	65.3	70.8	NU 2210		
	90	23	1.1	1.1	78.1	88.0	NU 2210 E		•
	90	23	1.1	1.1	65.3	70.8	NUP 2210		
	90	23	1.1	1.1	78.1	88.0	NUP 2210 E		
	110	27	2	2	91.6	86.9	N 310		
	110	27	2	2	110.0	112.0	N 310 E		
	110	27	2	2	91.6	86.9	NF 310		

Dimensions					Load Rating		AEC Bearing	M	Angle Ring
mm					kN				
d	D	B	r <sub>1</sub>	r	Dynamic (C)	Static (C <sub>0</sub> )			
55	110	27	2	2	110.0	112.0	NF 310 E		
	110	27	2	2	91.6	86.9	NJ 310		•
	110	27	2	2	110.0	112.0	NJ 310 E		•
	110	27	2	2	91.6	86.9	NU 310		•
	110	27	2	2	110.0	112.0	NU 310 E		•
	110	27	2	2	91.6	86.9	NUP 310		
	110	27	2	2	110.0	112.0	NUP 310 E		
	110	40	2	2	127.0	132.0	NJ 2310		•
	110	40	2	2	161.0	186.0	NJ 2310 E		•
	110	40	2	2	127.0	132.0	NU 2310		•
	110	40	2	2	161.0	186.0	NU 2310 E		•
	110	40	2	2	127.0	132.0	NUP 2310		
	110	40	2	2	161.0	186.0	NUP 2310 E		
	130	31	2.1	2.1	130.0	127.0	N 410		
	130	31	2.1	2.1	130.0	127.0	NJ 410		•
	130	31	2.1	2.1	130.0	127.0	NU 410		•
	130	31	2.1	2.1	130.0	127.0	NUP 410		
	90	18	1.1	1	35.9	38.7	N 1011		
	90	18	1.1	1	57.2	69.5	N 1011 E		
	90	18	1.1	1	35.9	38.7	NJ 1011		
	90	18	1.1	1	57.2	69.5	NJ 1011 E		
	90	18	1.1	1	35.9	38.7	NU 1011		
	90	18	1.1	1	57.2	69.5	NU 1011 E		
	90	18	1.1	1	35.9	38.7	NUP 1011		
	90	18	1.1	1	57.2	69.5	NUP 1011 E		
	100	21	1.5	1.1	58.4	59.2	N 211	•	
	100	21	1.5	1.1	84.2	95.0	N 211 E		
	100	21	1.5	1.1	58.4	59.2	NF 211		
	100	21	1.5	1.1	84.2	95.0	NF 211 E		
	100	21	1.5	1.1	58.4	59.2	NJ 211	•	
	100	21	1.5	1.1	84.2	95.0	NJ 211 E	•	
	100	21	1.5	1.1	58.4	59.2	NU 211	•	
	100	21	1.5	1.1	84.2	95.0	NU 211 E	•	
	100	21	1.5	1.1	58.4	59.2	NUP 211		
	100	21	1.5	1.1	84.2	95.0	NUP 211 E		
	100	25	1.5	1.1	76.7	84.1	N 2211		
	100	25	1.5	1.1	99.0	118.0	N 2211 E		
	100	25	1.5	1.1	76.7	84.1	NJ 2211		
	100	25	1.5	1.1	99.0	118.0	NJ 2211 E	•	
	100	25	1.5	1.1	76.7	84.1	NU 2211		
	100	25	1.5	1.1	99.0	118.0	NU 2211 E	•	
	100	25	1.5	1.1	76.7	84.1	NUP 2211		
	100	25	1.5	1.1	99.0	118.0	NUP 2211 E		
	120	29	2	2	108.0	101.0	N 311		
	120	29	2	2	138.0	143.0	N 311 E		
	120	29	2	2	108.0	101.0	NF 311		



Dimensions					Load Rating		AEC Bearing	M	Angle Ring
mm					kN				
d	D	B	r <sub>1</sub>	r	Dynamic (C)	Static (C <sub>0</sub> )			
60	120	29	2	2	138.0	143.0	NF 311 E		
	120	29	2	2	108.0	101.0	NJ 311	•	
	120	29	2	2	138.0	143.0	NJ 311 E	•	
	120	29	2	2	108.0	101.0	NU 311	•	
	120	29	2	2	138.0	143.0	NU 311 E	•	
	120	29	2	2	108.0	101.0	NUP 311		
	120	29	2	2	138.0	143.0	NUP 311 E		
	120	43	2	2	145.0	148.0	NJ 2311	•	
	120	43	2	2	201.0	232.0	NJ 2311 E	•	
	120	43	2	2	145.0	148.0	NU 2311	•	
	120	43	2	2	201.0	232.0	NU 2311 E	•	
	120	43	2	2	145.0	148.0	NUP 2311		
	120	43	2	2	201.0	232.0	NUP 2311 E		
	140	33	2.1	2.1	142.0	140.0	N 411		
	140	33	2.1	2.1	142.0	140.0	NJ 411	•	
	140	33	2.1	2.1	142.0	140.0	NU 411	•	
	140	33	2.1	2.1	142.0	140.0	NUP 411		
	95	18	1.1	1	37.4	44.0	N 1012		
	95	18	1.1	1	37.4	44.0	NJ 1012		
	95	18	1.1	1	37.4	44.0	NU 1012		
	95	18	1.1	1	37.4	44.0	NUP 1012		
	110	22	1.5	1.5	68.2	70.1	N 212		
	110	22	1.5	1.5	93.5	102.0	N 212 E		
	110	22	1.5	1.5	68.2	70.1	NF 212		
	110	22	1.5	1.5	93.5	102.0	NF 212 EC		
	110	22	1.5	1.5	68.2	70.1	NJ 212	•	
	110	22	1.5	1.5	93.5	102.0	NJ 212 EC	•	
	110	22	1.5	1.5	68.2	70.1	NU 212	•	
	110	22	1.5	1.5	93.5	102.0	NU 212 EC	•	
	110	22	1.5	1.5	68.2	70.1	NUP 212		
	110	22	1.5	1.5	93.5	102.0	NUP 212 EC		
	110	28	1.5	1.5	97.5	111.0	N 2212		
	110	28	1.5	1.5	128.0	153.0	N 2212 EC		
	110	28	1.5	1.5	97.5	111.0	NJ 2212		
	110	28	1.5	1.5	128.0	153.0	NJ 2212 EC	•	
	110	28	1.5	1.5	97.5	111.0	NU 2212		
	110	28	1.5	1.5	128.0	153.0	NU 2212 EC	•	
	110	28	1.5	1.5	97.5	111.0	NUP 2212		
	110	28	1.5	1.5	128.0	153.0	NUP 2212 EC		
	130	31	2.1	2.1	129.0	126.0	N 312		
	130	31	2.1	2.1	151.0	160.0	N 312 EC		
	130	31	2.1	2.1	129.0	126.0	NF 312		
	130	31	2.1	2.1	151.0	160.0	NF 312 EC		
	130	31	2.1	2.1	129.0	126.0	NJ 312	•	
	130	31	2.1	2.1	151.0	160.0	NJ 312 EC		•
	130	31	2.1	2.1	129.0	126.0	NU 312		•

Dimensions					Load Rating		AEC Bearing	M	Angle Ring
mm					kN				
d	D	B	r <sub>1</sub>	r	Dynamic (C)	Static (C <sub>0</sub> )			
65	130	31	2.1	2.1	151.0	160.0	NU 312 EC		•
	130	31	2.1	2.1	129.0	126.0	NUP 312		
	130	31	2.1	2.1	151.0	160.0	NUP 312 EC		
	130	46	2.1	2.1	176.0	187.0	NJ 2312		•
	130	46	2.1	2.1	224.0	265.0	NJ 2312 EC		•
	130	46	2.1	2.1	176.0	187.0	NU 2312		•
	130	46	2.1	2.1	224.0	265.0	NU 2312 EC		•
	130	46	2.1	2.1	176.0	187.0	NUP 2312		
	130	46	2.1	2.1	224.0	265.0	NUP 2312 EC		
	150	35	2.1	2.1	168.0	173.0	N 412		
	150	35	2.1	2.1	168.0	173.0	NJ 412	•	•
	150	35	2.1	2.1	168.0	173.0	NU 412	•	•
	150	35	2.1	2.1	168.0	173.0	NUP 412	•	
	100	18	1.1	1	38.0	46.5	N 1013		
	100	18	1.1	1	38.0	46.5	NJ 1013		
	100	18	1.1	1	38.0	46.5	NU 1013		
	100	18	1.1	1	38.0	46.5	NUP 1013		
	120	23	1.5	1.5	79.9	83.3	N 213		
	120	23	1.5	1.5	106.0	118.0	N 213 EC		
	120	23	1.5	1.5	79.9	83.3	NF 213		
	120	23	1.5	1.5	106.0	118.0	NF 213 EC		
	120	23	1.5	1.5	79.9	83.3	NJ 213		•
	120	23	1.5	1.5	106.0	118.0	NJ 213 EC		•
	120	23	1.5	1.5	79.9	83.3	NU 213		•
	120	23	1.5	1.5	106.0	118.0	NU 213 EC		•
	120	23	1.5	1.5	79.9	83.3	NUP 213		
	120	23	1.5	1.5	106.0	118.0	NUP 213 EC		
	120	31	1.5	1.5	116.0	135.0	NJ 2213		•
	120	31	1.5	1.5	147.0	180.0	NJ 2213 EC		•
	120	31	1.5	1.5	116.0	135.0	NU 2213		•
	120	31	1.5	1.5	147.0	180.0	NU 2213 EC		•
	120	31	1.5	1.5	116.0	135.0	NUP 2213		
	120	31	1.5	1.5	147.0	180.0	NUP 2213 EC		
	140	33	2.1	2.1	143.0	141.0	N 313		
	140	33	2.1	2.1	183.0	196.0	N 313 EC		
	140	33	2.1	2.1	143.0	141.0	NF 313		
	140	33	2.1	2.1	183.0	196.0	NF 313 EC		
	140	33	2.1	2.1	143.0	141.0	NJ 313		•
	140	33	2.1	2.1	183.0	196.0	NJ 313 EC		•
	140	33	2.1	2.1	143.0	141.0	NU 313		•
	140	33	2.1	2.1	183.0	196.0	NU 313 EC		•
	140	33	2.1	2.1	143.0	141.0	NUP 313		
	140	33	2.1	2.1	183.0	196.0	NUP 313 EC		
	140	48	2.1	2.1	198.0	215.0	NJ 2313		•
	140	48	2.1	2.1	251.0	290.0	NJ 2313 EC		•
	140	48	2.1	2.1	198.0	215.0	NU 2313		•

Dimensions					Load Rating		AEC Bearing	M	Angle Ring
mm					kN				
d	D	B	r <sub>1</sub>	r	Dynamic (C)	Static (C <sub>0</sub> )			
70	140	48	2.1	2.1	251.0	290.0	NU 2313 EC		●
	140	48	2.1	2.1	198.0	215.0	NUP 2313		
	140	48	2.1	2.1	251.0	290.0	NUP 2313 EC		
	160	37	2.1	2.1	183.0	190.0	N 413		
	160	37	2.1	2.1	183.0	190.0	NJ 413		●
	160	37	2.1	2.1	183.0	190.0	NU 413		●
	160	37	2.1	2.1	183.0	190.0	NUP 413		
	110	20	1.1	1	56.1	67.2	N 1014		
	110	20	1.1	1	56.1	67.2	NJ 1014		
	110	20	1.1	1	56.1	67.2	NU 1014		
	110	20	1.1	1	56.1	67.2	NUP 1014		
	125	24	1.5	1.5	83.5	89.6	N 214	●	
	125	24	1.5	1.5	119.0	137.0	N 214 EC		
	125	24	1.5	1.5	83.5	89.6	NF 214	●	
	125	24	1.5	1.5	119.0	137.0	NF 214 EC		
	125	24	1.5	1.5	83.5	89.6	NJ 214		●
	125	24	1.5	1.5	119.0	137.0	NJ 214 EC		●
	125	24	1.5	1.5	83.5	89.6	NU 214		●
	125	24	1.5	1.5	119.0	137.0	NU 214 EC		●
	125	24	1.5	1.5	83.5	89.6	NUP 214		
	125	24	1.5	1.5	119.0	137.0	NUP 214 EC		
	125	31	1.5	1.5	121.0	145.0	NJ 2214	●	●
	125	31	1.5	1.5	154.0	193.0	NJ 2214 EC		●
	125	31	1.5	1.5	121.0	145.0	NU 2214	●	●
	125	31	1.5	1.5	154.0	193.0	NU 2214 EC		●
	125	31	1.5	1.5	121.0	145.0	NUP 2214	●	
	125	31	1.5	1.5	154.0	193.0	NUP 2214 EC		
	150	35	2.1	2.1	158.0	158.0	N 314		
	150	35	2.1	2.1	205.0	228.0	N 314 EC		
	150	35	2.1	2.1	158.0	158.0	NF 314		
	150	35	2.1	2.1	205.0	228.0	NF 314 EC		
	150	35	2.1	2.1	158.0	158.0	NJ 314	●	●
	150	35	2.1	2.1	205.0	228.0	NJ 314 E		●
	150	35	2.1	2.1	158.0	158.0	NU 314	●	●
	150	35	2.1	2.1	205.0	228.0	NU 314 E		●
	150	35	2.1	2.1	158.0	158.0	NUP 314	●	
	150	35	2.1	2.1	205.0	228.0	NUP 314 E		
	150	51	2.1	2.1	222.0	245.0	NJ 2314		
	150	51	2.1	2.1	275.0	325.0	NJ 2314 E		●
	150	51	2.1	2.1	222.0	245.0	NU 2314		
	150	51	2.1	2.1	275.0	325.0	NU 2314 E		●
	150	51	2.1	2.1	222.0	245.0	NUP 2314		
	150	51	2.1	2.1	275.0	325.0	NUP 2314 E		
	180	42	3	3	229.0	240.0	N 414		
	180	42	3	3	229.0	240.0	NJ 414		●
	180	42	3	3	229.0	240.0	NU 414		●

Dimensions					Load Rating		AEC Bearing	M	Angle Ring
mm					kN				
d	D	B	r <sub>1</sub>	r	Dynamic (C)	Static (C <sub>0</sub> )			
75	180	42	3	3	229.0	240.0	NUP 414		
	115	20	1.1	1	58.3	71.0	N 1015		
	115	20	1.1	1	58.3	71.0	NJ 1015	•	
	115	20	1.1	1	58.3	71.0	NU 1015	•	
	115	20	1.1	1	58.3	71.0	NUP 1015	•	
	130	25	1.5	1.5	96.8	105.0	N 215		
	130	25	1.5	1.5	130.0	156.0	N 215 E		
	130	25	1.5	1.5	96.8	105.0	NF 215		
	130	25	1.5	1.5	130.0	156.0	NF 215 E		
	130	25	1.5	1.5	96.8	105.0	NJ 215		•
	130	25	1.5	1.5	130.0	156.0	NJ 215 E		•
	130	25	1.5	1.5	96.8	105.0	NU 215		•
	130	25	1.5	1.5	130.0	156.0	NU 215 E		•
	130	25	1.5	1.5	96.8	105.0	NUP 215		
	130	25	1.5	1.5	130.0	156.0	NUP 215 E		
	130	31	1.5	1.5	132.0	156.0	NJ 2215	•	•
	130	31	1.5	1.5	161.0	208.0	NJ 2215 E		•
	130	31	1.5	1.5	132.0	156.0	NU 2215	•	•
	130	31	1.5	1.5	161.0	208.0	NU 2215 E		•
	130	31	1.5	1.5	132.0	156.0	NUP 2215	•	
	130	31	1.5	1.5	161.0	208.0	NUP 2215 E		
	160	37	2.1	2.1	190.0	192.0	N 315		
	160	37	2.1	2.1	242.0	265.0	N 315 EC		
	160	37	2.1	2.1	190.0	192.0	NF 315		
	160	37	2.1	2.1	242.0	265.0	NF 315 EC		
	160	37	2.1	2.1	190.0	192.0	NJ 315	•	•
	160	37	2.1	2.1	242.0	265.0	NJ 315 EC		•
	160	37	2.1	2.1	190.0	192.0	NU 315	•	•
	160	37	2.1	2.1	242.0	265.0	NU 315 EC		•
	160	37	2.1	2.1	190.0	192.0	NUP 315	•	
	160	37	2.1	2.1	242.0	265.0	NUP 315 EC		
	160	55	2.1	2.1	272.0	305.0	NJ 2315		•
	160	55	2.1	2.1	330.0	400.0	NJ 2315 EC		•
	160	55	2.1	2.1	272.0	305.0	NU 2315		•
	160	55	2.1	2.1	330.0	400.0	NU 2315 EC		•
	160	55	2.1	2.1	272.0	305.0	NUP 2315		
	160	55	2.1	2.1	330.0	400.0	NUP 2315 EC		
80	190	45	3	3	264.0	280.0	N 415		
	190	45	3	3	264.0	280.0	NJ 415		•
	190	45	3	3	264.0	280.0	NU 415		•
	190	45	3	3	264.0	280.0	NUP 415		
	125	22	1.1	1	66.0	81.5	N 1016		
	125	22	1.1	1	66.0	81.5	NJ 1016		
	125	22	1.1	1	66.0	81.5	NU 1016		
	125	22	1.1	1	66.0	81.5	NUP 1016		

Dimensions					Load Rating		AEC Bearing	M	Angle Ring
mm					kN				
d	D	B	r <sub>1</sub>	r	Dynamic (C)	Static (C <sub>0</sub> )			
85	140	26	2	2	111.0	121.0	N 216		
	140	26	2	2	138.0	166.0	N 216 EC		
	140	26	2	2	111.0	121.0	NF 216		
	140	26	2	2	138.0	166.0	NF 216 EC		
	140	26	2	2	111.0	121.0	NJ 216		•
	140	26	2	2	138.0	166.0	NJ 216 EC		•
	140	26	2	2	111.0	121.0	NU 216		•
	140	26	2	2	138.0	166.0	NU 216 EC		•
	140	26	2	2	111.0	121.0	NUP 216		
	140	26	2	2	138.0	166.0	NUP 216 EC		
	140	33	2	2	154.0	185.0	NJ 2216		•
	140	33	2	2	187.0	245.0	NJ 2216 EC		•
	140	33	2	2	154.0	185.0	NU 2216		•
	140	33	2	2	187.0	245.0	NU 2216 EC		•
	140	33	2	2	154.0	185.0	NUP 2216		
	140	33	2	2	187.0	245.0	NUP 2216 EC		
	170	39	2.1	2.1	199.0	207.0	N 316		
	170	39	2.1	2.1	260.0	290.0	N 316 EC		
	170	39	2.1	2.1	199.0	207.0	NF 316		
	170	39	2.1	2.1	260.0	290.0	NF 316 EC		
	170	39	2.1	2.1	199.0	207.0	NJ 316		•
	170	39	2.1	2.1	260.0	290.0	NJ 316 EC		•
	170	39	2.1	2.1	199.0	207.0	NU 316		•
	170	39	2.1	2.1	260.0	290.0	NU 316 EC		•
	170	39	2.1	2.1	199.0	207.0	NUP 316		
	170	39	2.1	2.1	260.0	290.0	NUP 316 EC		
	170	58	2.1	2.1	287.0	332.0	NJ 2316		•
	170	58	2.1	2.1	358.0	440.0	NJ 2316 EC		•
	170	58	2.1	2.1	287.0	332.0	NU 2316		•
	170	58	2.1	2.1	358.0	440.0	NU 2316 EC		•
	170	58	2.1	2.1	287.0	332.0	NUP 2316		
	170	58	2.1	2.1	358.0	440.0	NUP 2316 EC		
	200	48	3	3	303.0	320.0	N 416		
	200	48	3	3	303.0	320.0	NJ 416		•
	200	48	3	3	303.0	320.0	NU 416		•
	200	48	3	3	303.0	320.0	NUP 416		
	130	22	1.1	1	68.2	86.5	N 1017	•	
	130	22	1.1	1	68.2	86.5	NJ 1017	•	
	130	22	1.1	1	68.2	86.5	NU 1017	•	
	130	22	1.1	1	68.2	86.5	NUP 1017	•	
	150	28	2	2	125.0	139.0	N 217		
	150	28	2	2	165.0	200.0	N 217 EC		
	150	28	2	2	125.0	139.0	NF 217		
	150	28	2	2	165.0	200.0	NF 217 EC		
	150	28	2	2	125.0	139.0	NJ 217		•
	150	28	2	2	165.0	200.0	NJ 217 EC		•

Dimensions					Load Rating		AEC Bearing	M	Angle Ring
mm					kN				
d	D	B	r <sub>1</sub>	r	Dynamic (C)	Static (C <sub>0</sub> )			
90	150	28	2	2	125.0	139.0	NU 217	•	
	150	28	2	2	165.0	200.0	NU 217 EC	•	
	150	28	2	2	125.0	139.0	NUP 217		
	150	28	2	2	165.0	200.0	NUP 217 EC		
	150	36	2	2	177.0	217.0	NJ 2217	•	
	150	36	2	2	216.0	280.0	NJ 2217 EC	•	
	150	36	2	2	177.0	217.0	NU 2217	•	
	150	36	2	2	216.0	280.0	NU 2217 EC	•	
	150	36	2	2	177.0	217.0	NUP 2217		
	150	36	2	2	216.0	280.0	NUP 2217 EC		
	180	41	3	3	222.0	228.0	N 317		
	180	41	3	3	297.0	335.0	N 317 EC		
	180	41	3	3	222.0	228.0	NF 317		
	180	41	3	3	297.0	335.0	NF 317 EC		
	180	41	3	3	222.0	228.0	NJ 317	•	
	180	41	3	3	297.0	335.0	NJ 317 EC	•	
	180	41	3	3	222.0	228.0	NU 317	•	
	180	41	3	3	297.0	335.0	NU 317 EC	•	
	180	41	3	3	222.0	228.0	NUP 317		
	180	41	3	3	297.0	335.0	NUP 317 EC		
	180	60	3	3	311.0	353.0	N 2317		
	180	60	3	3	396.0	490.0	N 2317 EC		
	180	60	3	3	311.0	353.0	NJ 2317	•	
	180	60	3	3	396.0	490.0	NJ 2317 EC	•	
	180	60	3	3	311.0	353.0	NU 2317	•	
	180	60	3	3	396.0	490.0	NU 2317 EC	•	
	180	60	3	3	311.0	353.0	NUP 2317		
	180	60	3	3	396.0	490.0	NUP 2317 EC		
	210	52	4	4	319.0	335.0	N 417		
	210	52	4	4	319.0	335.0	NJ 417	•	
	210	52	4	4	319.0	335.0	NU 417	•	
	210	52	4	4	319.0	335.0	NUP 417		
140	24	1.5	1.1	80.9	104.0	N 1018	•		
140	24	1.5	1.1	80.9	104.0	NJ 1018	•		
140	24	1.5	1.1	80.9	104.0	NU 1018	•		
140	24	1.5	1.1	80.9	104.0	NUP 1018	•		
160	30	2	2	149.0	163.0	N 218			
160	30	2	2	183.0	220.0	N 218 EC			
160	30	2	2	149.0	163.0	NF 218			
160	30	2	2	183.0	220.0	NF 218 EC			
160	30	2	2	149.0	163.0	NJ 218	•	•	
160	30	2	2	183.0	220.0	NJ 218 EC		•	
160	30	2	2	149.0	163.0	NU 218	•	•	
160	30	2	2	183.0	220.0	NU 218 EC		•	
160	30	2	2	149.0	163.0	NUP 218	•		
160	30	2	2	183.0	220.0	NUP 218 EC			

Dimensions					Load Rating		AEC Bearing	M	Angle Ring
mm					kN				
d	D	B	r <sub>1</sub>	r	Dynamic (C)	Static (C <sub>0</sub> )			
95	160	40	2	2	204.0	244.0	NJ 2218		•
	160	40	2	2	242.0	315.0	NJ 2218 EC		•
	160	40	2	2	204.0	244.0	NU 2218		•
	160	40	2	2	242.0	315.0	NU 2218 EC		•
	160	40	2	2	204.0	244.0	NUP 2218		
	160	40	2	2	242.0	315.0	NUP 2218 EC		
	190	43	3	3	255.0	270.0	N 318		
	190	43	3	3	319.0	360.0	N 318 EC		
	190	43	3	3	255.0	270.0	NF 318		
	190	43	3	3	319.0	360.0	NF 318 EC		
	190	43	3	3	255.0	270.0	NJ 318		•
	190	43	3	3	319.0	360.0	NJ 318 EC		•
	190	43	3	3	255.0	270.0	NU 318		•
	190	43	3	3	319.0	360.0	NU 318 EC		•
	190	43	3	3	255.0	270.0	NUP 318		
	190	43	3	3	319.0	360.0	NUP 318 EC		
	190	64	3	3	345.0	399.0	NJ 2318		•
	190	64	3	3	440.0	540.0	NJ 2318 EC		•
	190	64	3	3	345.0	399.0	NU 2318		•
	190	64	3	3	440.0	540.0	NU 2318 EC		•
	190	64	3	3	345.0	399.0	NUP 2318		
	190	64	3	3	440.0	540.0	NUP 2318 EC		
	225	54	4	4	380.0	415.0	N 418		
	225	54	4	4	380.0	415.0	NJ 418		•
	225	54	4	4	380.0	415.0	NU 418		•
	225	54	4	4	380.0	415.0	NUP 418		
	145	24	1.5	1.1	84.2	110.0	N 1019	•	
	145	24	1.5	1.1	84.2	110.0	NJ 1019	•	
	145	24	1.5	1.1	84.2	110.0	NU 1019	•	
	145	24	1.5	1.1	84.2	110.0	NUP 1019	•	
	170	32	2.1	2.1	173.0	195.0	N 219		
	170	32	2.1	2.1	220.0	265.0	N 219 EC		
	170	32	2.1	2.1	173.0	195.0	NF 219		
	170	32	2.1	2.1	220.0	265.0	NF 219 EC		
	170	32	2.1	2.1	173.0	195.0	NJ 219	•	•
	170	32	2.1	2.1	220.0	265.0	NJ 219 EC		•
	170	32	2.1	2.1	173.0	195.0	NU 219	•	•
	170	32	2.1	2.1	220.0	265.0	NU 219 EC		•
	170	32	2.1	2.1	173.0	195.0	NUP 219	•	
	170	32	2.1	2.1	220.0	265.0	NUP 219 EC		
	170	43	2.1	2.1	241.0	298.0	N 2219		
	170	43	2.1	2.1	286.0	375.0	N 2219 EC		
	170	43	2.1	2.1	241.0	298.0	NJ 2219		•
	170	43	2.1	2.1	286.0	375.0	NJ 2219 EC		•
	170	43	2.1	2.1	241.0	298.0	NU 2219		•
	170	43	2.1	2.1	286.0	375.0	NU 2219 EC		•

Dimensions					Load Rating		AEC Bearing	M	Angle Ring
mm					kN				
d	D	B	r <sub>1</sub>	r	Dynamic (C)	Static (C <sub>0</sub> )			
100	170	43	2.1	2.1	241.0	298.0	NUP 2219		
	170	43	2.1	2.1	286.0	375.0	NUP 2219 EC		
	200	45	3	3	275.0	294.0	N 319		
	200	45	3	3	341.0	390.0	N 319 EC		
	200	45	3	3	275.0	294.0	NF 319		
	200	45	3	3	341.0	390.0	NF 319 EC		
	200	45	3	3	275.0	294.0	NJ 319		•
	200	45	3	3	341.0	390.0	NJ 319 EC		•
	200	45	3	3	275.0	294.0	NU 319		•
	200	45	3	3	341.0	390.0	NU 319 EC		•
	200	45	3	3	275.0	294.0	NUP 319		
	200	45	3	3	341.0	390.0	NUP 319 EC		
	200	67	3	3	393.0	466.0	NJ 2319		•
	200	67	3	3	468.0	585.0	NJ 2319 EC		•
	200	67	3	3	393.0	466.0	NU 2319		•
	200	67	3	3	468.0	585.0	NU 2319 EC		•
	200	67	3	3	393.0	466.0	NUP 2319		
	200	67	3	3	468.0	585.0	NUP 2319 EC		
	240	55	4	4	413.0	455.0	N 419		
	240	55	4	4	413.0	455.0	NJ 419		•
	240	55	4	4	413.0	455.0	NU 419		•
	240	55	4	4	413.0	455.0	NU P 419		
	150	24	1.5	1.1	85.8	114.0	N 1020	•	
	150	24	1.5	1.1	85.8	114.0	NJ 1020	•	
	150	24	1.5	1.1	85.8	114.0	NU 1020	•	
	150	24	1.5	1.1	85.8	114.0	NUP 1020	•	
	180	34	2.1	2.1	192.0	217.0	N 220	•	
	180	34	2.1	2.1	251.0	305.0	N 220 EC		
	180	34	2.1	2.1	192.0	217.0	NF 220	•	
	180	34	2.1	2.1	251.0	305.0	NF 220 EC		
	180	34	2.1	2.1	192.0	217.0	NJ 220	•	•
	180	34	2.1	2.1	251.0	305.0	NJ 220 EC		•
	180	34	2.1	2.1	192.0	217.0	NU 220	•	•
	180	34	2.1	2.1	251.0	305.0	NU 220 EC		•
	180	34	2.1	2.1	192.0	217.0	NUP 220	•	
	180	34	2.1	2.1	251.0	305.0	NUP 220 EC		
	180	46	2.1	2.1	270.0	338.0	NJ 2220		•
	180	46	2.1	2.1	336.0	450.0	NJ 2220 EC		•
	180	46	2.1	2.1	270.0	338.0	NU 2220		•
	180	46	2.1	2.1	336.0	450.0	NU 2220 EC		•
	180	46	2.1	2.1	270.0	338.0	NUP 2220		
	180	46	2.1	2.1	336.0	450.0	NUP 2220 EC		
	215	47	3	3	317.0	342.0	N 320	•	
	215	47	3	3	391.0	440.0	N 320 EC		
	215	47	3	3	317.0	342.0	NF 320	•	
	215	47	3	3	391.0	440.0	NF 320 EC		



Dimensions					Load Rating		AEC Bearing	M	Angle Ring
mm					kN				
d	D	B	r <sub>1</sub>	r	Dynamic (C)	Static (C <sub>0</sub> )			
105	215	47	3	3	317.0	342.0	NJ 320	•	•
	215	47	3	3	391.0	440.0	NJ 320 EC		•
	215	47	3	3	317.0	342.0	NU 320	•	•
	215	47	3	3	391.0	440.0	NU 320 EC		•
	215	47	3	3	317.0	342.0	NUP 320	•	
	215	47	3	3	391.0	440.0	NUP 320 EC		
	215	73	3	3	460.0	553.0	NJ 2320		•
	215	73	3	3	583.0	735.0	NJ 2320 EC		•
	215	73	3	3	460.0	553.0	NU 2320		•
	215	73	3	3	583.0	735.0	NU 2320 EC		•
	215	73	3	3	460.0	553.0	NUP 2320		
	215	73	3	3	583.0	735.0	NUP 2320 EC		
	250	58	4	4	429.0	475.0	N 420		
	250	58	4	4	429.0	475.0	NJ 420		•
	250	58	4	4	429.0	475.0	NU 420		•
	250	58	4	4	429.0	475.0	NUP 420		
	160	26	2	1.1	101.0	137.0	N 1021	•	
	160	26	2	1.1	101.0	137.0	NJ 1021	•	
	160	26	2	1.1	101.0	137.0	NU 1021	•	
	160	26	2	1.1	101.0	137.0	NUP 1021	•	
	190	36	2.1	2.1	210.0	241.0	N 221		
	190	36	2.1	2.1	264.0	315.0	N 221 EC		
	190	36	2.1	2.1	210.0	241.0	NJ 221		•
	190	36	2.1	2.1	264.0	315.0	NJ 221 EC		•
	190	36	2.1	2.1	210.0	241.0	NU 221		•
	190	36	2.1	2.1	264.0	315.0	NU 221 EC		•
	190	36	2.1	2.1	210.0	241.0	NUP 221		
	190	36	2.1	2.1	264.0	315.0	NUP 221 EC		
	225	49	3	3	361.0	393.0	N 321		
	225	49	3	3	440.0	500.0	N 321 EC		
	225	49	3	3	361.0	393.0	NF 321		
	225	49	3	3	440.0	500.0	NF 321 EC		
	225	49	3	3	361.0	393.0	NJ 321		•
	225	49	3	3	440.0	500.0	NJ 321 EC		•
	225	49	3	3	361.0	393.0	NU 321		•
	225	49	3	3	440.0	500.0	NU 321 EC		•
	225	49	3	3	361.0	393.0	NUP 321		
	225	49	3	3	440.0	500.0	NUP 321 EC		
	260	60	4	4	501.0	570.0	N 421		
	260	60	4	4	501.0	570.0	NJ 421		•
	260	60	4	4	501.0	570.0	NU 421		•
	260	60	4	4	501.0	570.0	NUP 421		
110	170	28	2	1.1	128.0	166.0	N 1022	•	
170	28	2	1.1	128.0	166.0	NJ 1022	•		
170	28	2	1.1	128.0	166.0	NU 1022	•		
170	28	2	1.1	128.0	166.0	NUP 1022	•		

Dimensions					Load Rating		AEC Bearing	M	Angle Ring	
mm					kN					
d	D	B	r <sub>1</sub>	r	Dynamic (C)	Static (C <sub>0</sub> )				
	200	38	2.1	2.1	240.0	272.0	N 222			
	200	38	2.1	2.1	292.0	365.0	N 222 EC			
	200	38	2.1	2.1	240.0	272.0	NF 222			
	200	38	2.1	2.1	292.0	365.0	NF 222 EC			
	200	38	2.1	2.1	240.0	272.0	NJ 222		•	
	200	38	2.1	2.1	292.0	365.0	NJ 222 EC		•	
	200	38	2.1	2.1	240.0	272.0	NU 222		•	
	200	38	2.1	2.1	292.0	365.0	NU 222 EC		•	
	200	38	2.1	2.1	240.0	272.0	NUP 222			
	200	38	2.1	2.1	292.0	365.0	NUP 222 EC			
	200	53	2.1	2.1	333.0	414.0	NJ 2222		•	
	200	53	2.1	2.1	380.0	520.0	NJ 2222 EC		•	
	200	53	2.1	2.1	333.0	414.0	NU 2222		•	
	200	53	2.1	2.1	380.0	520.0	NU 2222 EC		•	
	200	53	2.1	2.1	333.0	414.0	NUP 2222			
	200	53	2.1	2.1	380.0	520.0	NUP 2222 EC			
	240	50	3	3	408.0	449.0	N 322			
	240	50	3	3	468.0	540.0	N 322 EC			
	240	50	3	3	408.0	449.0	NF 322			
	240	50	3	3	468.0	540.0	NF 322 EC			
	240	50	3	3	408.0	449.0	NJ 322		•	
	240	50	3	3	468.0	540.0	NJ 322 EC		•	
	240	50	3	3	408.0	449.0	NU 322		•	
	240	50	3	3	468.0	540.0	NU 322 EC		•	
	240	50	3	3	408.0	449.0	NUP 322			
	240	50	3	3	468.0	540.0	NUP 322 EC			
	240	80	3	3	642.0	805.0	NJ 2322	•	•	
	240	80	3	3	682.0	900.0	NJ 2322 EC	•	•	
	240	80	3	3	642.0	805.0	NU 2322	•	•	
	240	80	3	3	682.0	900.0	NU 2322 EC	•	•	
	240	80	3	3	642.0	805.0	NUP 2322	•		
	240	80	3	3	682.0	900.0	NUP 2322 EC	•		
	280	65	4	4	523.0	585.0	N 422			
	280	65	4	4	523.0	585.0	NJ 422		•	
	280	65	4	4	523.0	585.0	NU 422		•	
	280	65	4	4	523.0	585.0	NUP 422			
	115	250	53	3	3	420.0	545.0	NJ 323	•	
		250	53	3	3	420.0	545.0	NU 323	•	
		250	53	3	3	420.0	545.0	NUP 323	•	
	120	180	28	2	1.1	134.0	183.0	N 1024	•	
180		28	2	1.1	134.0	183.0	NJ 1024	•		
180		28	2	1.1	134.0	183.0	NU 1024	•		
180		28	2	1.1	134.0	183.0	NUP 1024	•		
215		40	2.1	2.1	272.0	318.0	N 224	•		
215		40	2.1	2.1	341.0	430.0	N 224 EC	•		

Dimensions				Load Rating		AEC Bearing	M	Angle Ring	
mm	kN								
d	D	B	r <sub>1</sub>	r	Dynamic (C)	Static (C <sub>0</sub> )			
130	215	40	2.1	2.1	272.0	318.0	NF 224	•	
	215	40	2.1	2.1	341.0	430.0	NF 224 EC	•	
	215	40	2.1	2.1	272.0	318.0	NJ 224	•	•
	215	40	2.1	2.1	341.0	430.0	NJ 224 EC	•	•
	215	40	2.1	2.1	272.0	318.0	NU 224	•	•
	215	40	2.1	2.1	341.0	430.0	NU 224 EC	•	•
	215	40	2.1	2.1	272.0	318.0	NUP 224	•	
	215	40	2.1	2.1	341.0	430.0	NUP 224 EC	•	
	215	58	2.1	2.1	382.0	492.0	NJ 2224		•
	215	58	2.1	2.1	457.0	630.0	NJ 2224 EC		•
	215	58	2.1	2.1	382.0	492.0	NU 2224		•
	215	58	2.1	2.1	457.0	630.0	NU 2224 EC		•
	215	58	2.1	2.1	382.0	492.0	NUP 2224		
	215	58	2.1	2.1	457.0	630.0	NUP 2224 EC		
	260	55	3	3	476.0	516.0	N 324		
	260	55	3	3	539.0	620.0	N 324 EC		
	260	55	3	3	476.0	516.0	NF 324		
	260	55	3	3	539.0	620.0	NF 324 EC		
	260	55	3	3	476.0	516.0	NJ 324		•
	260	55	3	3	539.0	620.0	NJ 324 EC		•
	260	55	3	3	476.0	516.0	NU 324		•
	260	55	3	3	539.0	620.0	NU 324 EC		•
	260	55	3	3	476.0	516.0	NUP 324		
	260	55	3	3	539.0	620.0	NUP 324 EC		
	260	86	3	3	748.0	926.0	N 2324	•	
	260	86	3	3	792.0	1040.0	N 2324 E	•	
	260	86	3	3	748.0	926.0	NJ 2324	•	
	260	86	3	3	792.0	1040.0	NJ 2324 E	•	•
	260	86	3	3	748.0	926.0	NU 2324	•	
	260	86	3	3	792.0	1040.0	NU 2324 E	•	•
	260	86	3	3	748.0	926.0	NUP 2324	•	
	260	86	3	3	792.0	1040.0	NUP 2324 E	•	
	310	72	5	5	644.0	735.0	N 424		
	310	72	5	5	644.0	735.0	NJ 424		•
	310	72	5	5	644.0	735.0	NU 424		•
	310	72	5	5	644.0	735.0	NUP 424		
	200	33	2	1.1	165.0	224.0	N 1026	•	
	200	33	2	1.1	165.0	224.0	NJ 1026	•	
	200	33	2	1.1	165.0	224.0	NU 1026	•	
	200	33	2	1.1	165.0	224.0	NUP 1026	•	
	230	40	3	3	283.0	342.0	N 226		
	230	40	3	3	358.0	455.0	N 226 EC	•	
	230	40	3	3	283.0	342.0	NF 226		
	230	40	3	3	358.0	455.0	NF 226 EC	•	
	230	40	3	3	283.0	342.0	NJ 226		•
	230	40	3	3	358.0	455.0	NJ 226 EC	•	•

Dimensions					Load Rating		AEC Bearing	M	Angle Ring
mm					kN				
d	D	B	r <sub>1</sub>	r	Dynamic (C)	Static (C <sub>0</sub> )			
140	230	40	3	3	283.0	342.0	NU 226		•
	230	40	3	3	358.0	455.0	NU 226 EC	•	•
	230	40	3	3	283.0	342.0	NUP 226		
	230	40	3	3	358.0	455.0	NUP 226 EC	•	
	230	64	3	3	415.0	560.0	N 2226	•	
	230	64	3	3	528.0	735.0	N 2226 EC	•	
	230	64	3	3	415.0	560.0	NJ 2226	•	•
	230	64	3	3	528.0	735.0	NJ 2226 EC	•	•
	230	64	3	3	415.0	560.0	NU 2226	•	•
	230	64	3	3	528.0	735.0	NU 2226 EC	•	•
	230	64	3	3	415.0	560.0	NUP 2226	•	
	230	64	3	3	528.0	735.0	NUP 2226 EC	•	
	280	58	4	4	560.0	629.0	N 326		
	280	58	4	4	627.0	750.0	N 326 EC		
	280	58	4	4	560.0	629.0	NF 326		
	280	58	4	4	627.0	750.0	NF 326 EC		
	280	58	4	4	560.0	629.0	NJ 326		•
	280	58	4	4	627.0	750.0	NJ 326 EC		•
	280	58	4	4	560.0	629.0	NU 326		•
	280	58	4	4	627.0	750.0	NU 326 EC		•
	280	58	4	4	560.0	629.0	NUP 326		
	280	58	4	4	627.0	750.0	NUP 326 EC		
	280	93	4	4	885.0	1135.0	N 2326	•	
	280	93	4	4	935.0	1250.0	N 2326 EC	•	
	280	93	4	4	885.0	1135.0	NJ 2326	•	
	280	93	4	4	935.0	1250.0	NJ 2326 EC	•	•
	280	93	4	4	885.0	1135.0	NU 2326	•	
	280	93	4	4	935.0	1250.0	NU 2326 EC	•	•
	280	93	4	4	885.0	1135.0	NUP 2326	•	
	280	93	4	4	935.0	1250.0	NUP 2326 EC	•	
	340	78	5	5	884.0	987.0	N 426		
	340	78	5	5	884.0	987.0	NJ 426		•
	340	78	5	5	884.0	987.0	NU 426		•
	340	78	5	5	884.0	987.0	NUP 426		
	210	33	2	1.1	172.0	245.0	N 1028	•	
	210	33	2	1.1	172.0	245.0	NJ 1028	•	
	210	33	2	1.1	172.0	245.0	NU 1028	•	
	210	33	2	1.1	172.0	245.0	NUP 1028	•	
	250	42	3	3	325.0	396.0	N 228		
	250	42	3	3	391.0	510.0	N 228 EC		
	250	42	3	3	325.0	396.0	NF 228		
	250	42	3	3	391.0	510.0	NF 228 EC		
	250	42	3	3	325.0	396.0	NJ 228		•
	250	42	3	3	391.0	510.0	NJ 228 EC		•
	250	42	3	3	325.0	396.0	NU 228		•
	250	42	3	3	391.0	510.0	NU 228 EC		•

Dimensions					Load Rating		AEC Bearing	M	Angle Ring
mm					kN				
d	D	B	r <sub>1</sub>	r	Dynamic (C)	Static (C <sub>0</sub> )			
150	250	42	3	3	325.0	396.0	NUP 228		
	250	42	3	3	391.0	510.0	NUP 228 EC		
	250	68	3	3	488.0	669.0	N 2228	•	
	250	68	3	3	572.0	830.0	N 2228 EC	•	
	250	68	3	3	488.0	669.0	NJ 2228	•	
	250	68	3	3	572.0	830.0	NJ 2228 EC	•	•
	250	68	3	3	488.0	669.0	NU 2228	•	
	250	68	3	3	572.0	830.0	NU 2228 EC	•	•
	250	68	3	3	488.0	669.0	NUP 2228	•	
	250	68	3	3	572.0	830.0	NUP 2228 EC	•	
	300	62	4	4	617.0	702.0	N 328		
	300	62	4	4	682.0	830.0	N 328 EC		
	300	62	4	4	617.0	702.0	NF 328		
	300	62	4	4	682.0	830.0	NF 328 EC		
	300	62	4	4	617.0	702.0	NJ 328		•
	300	62	4	4	682.0	830.0	NJ 328 EC		•
	300	62	4	4	617.0	702.0	NU 328		•
	300	62	4	4	682.0	830.0	NU 328 EC		•
	300	62	4	4	617.0	702.0	NUP 328		
	300	62	4	4	682.0	830.0	NUP 328 EC		
	300	102	4	4	919.0	1170.0	N 2328	•	
	300	102	4	4	1050.0	1430.0	N 2328 EC	•	
	300	102	4	4	919.0	1170.0	NJ 2328	•	
	300	102	4	4	1050.0	1430.0	NJ 2328 EC	•	•
	300	102	4	4	919.0	1170.0	NU 2328	•	
	300	102	4	4	1050.0	1430.0	NU 2328 EC	•	•
	300	102	4	4	919.0	1170.0	NUP 2328	•	
	300	102	4	4	1050.0	1430.0	NUP 2328 EC	•	
	360	82	5	5	953.0	1076.0	N 428		
	360	82	5	5	953.0	1076.0	NJ 428		•
	360	82	5	5	953.0	1076.0	NU 428		•
	360	82	5	5	953.0	1076.0	NUP 428		
	225	35	2.1	1.5	194.0	275.0	N 1030	•	
	225	35	2.1	1.5	194.0	275.0	NJ 1030	•	
	225	35	2.1	1.5	194.0	275.0	NU 1030	•	
	225	35	2.1	1.5	194.0	275.0	NUP 1030	•	
	270	45	3	3	391.0	490.0	N 230		
	270	45	3	3	446.0	600.0	N 230 EC		
	270	45	3	3	391.0	490.0	NF 230		
	270	45	3	3	446.0	600.0	NF 230 EC		
	270	45	3	3	391.0	490.0	NJ 230		•
	270	45	3	3	446.0	600.0	NJ 230 EC		•
	270	45	3	3	391.0	490.0	NU 230		•
	270	45	3	3	446.0	600.0	NU 230 EC		•
	270	45	3	3	391.0	490.0	NUP 230		
	270	45	3	3	446.0	600.0	NUP 230 EC		

Dimensions					Load Rating		AEC Bearing	M	Angle Ring
mm					kN				
d	D	B	r <sub>1</sub>	r	Dynamic (C)	Static (C <sub>0</sub> )			
160	270	73	3	3	572.0	798.0	N 2230	•	
	270	73	3	3	627.0	930.0	N 2230 EC	•	
	270	73	3	3	572.0	798.0	NJ 2230	•	
	270	73	3	3	627.0	930.0	NJ 2230 EC	•	•
	270	73	3	3	572.0	798.0	NU 2230	•	
	270	73	3	3	627.0	930.0	NU 2230 EC	•	•
	270	73	3	3	572.0	798.0	NUP 2230	•	
	270	73	3	3	627.0	930.0	NUP 2230 EC	•	
	320	65	4	4	716.0	839.0	N 330	•	
	320	65	4	4	781.0	965.0	N 330 EC	•	
	320	65	4	4	716.0	839.0	NF 330	•	
	320	65	4	4	781.0	965.0	NF 330 EC	•	
	320	65	4	4	716.0	839.0	NJ 330	•	
	320	65	4	4	781.0	965.0	NJ 330 EC	•	•
	320	65	4	4	716.0	839.0	NU 330	•	
	320	65	4	4	781.0	965.0	NU 330 EC	•	•
	320	65	4	4	716.0	839.0	NUP 330	•	
	320	65	4	4	781.0	965.0	NUP 330 EC	•	
	320	108	4	4	1190.0	1630.0	NJ 2330 EC	•	•
	320	108	4	4	1190.0	1630.0	NU 2330 EC	•	•
	320	108	4	4	1190.0	1630.0	NUP 2330 EC	•	
	380	85	5	5	1007.0	1171.0	N 430		
	380	85	5	5	1007.0	1171.0	NJ 430		
	380	85	5	5	1007.0	1171.0	NU 430		
	380	85	5	5	1007.0	1171.0	NUP 430		
	240	38	2.1	1.5	229.0	325.0	N 1032	•	
	240	38	2.1	1.5	229.0	325.0	NJ 1032	•	
	240	38	2.1	1.5	229.0	325.0	NU 1032	•	
	240	38	2.1	1.5	229.0	325.0	NUP 1032	•	
	290	48	3	3	447.0	566.0	N 232	•	
	290	48	3	3	501.0	680.0	N 232 EC	•	
	290	48	3	3	447.0	566.0	NF 232	•	
	290	48	3	3	501.0	680.0	NF 232 EC	•	
	290	48	3	3	447.0	566.0	NJ 232	•	
	290	48	3	3	501.0	680.0	NJ 232 EC	•	•
	290	48	3	3	447.0	566.0	NU 232	•	
	290	48	3	3	501.0	680.0	NU 232 EC	•	•
	290	48	3	3	447.0	566.0	NUP 232	•	
	290	48	3	3	501.0	680.0	NUP 232 EC	•	
	290	80	3	3	661.0	937.0	N 2232	•	
	290	80	3	3	809.0	1200.0	N 2232 EC	•	
	290	80	3	3	661.0	937.0	NJ 2232	•	
	290	80	3	3	809.0	1200.0	NJ 2232 EC	•	•
	290	80	3	3	661.0	937.0	NU 2232	•	
	290	80	3	3	809.0	1200.0	NU 2232 EC	•	•
	290	80	3	3	661.0	937.0	NUP 2232	•	

Dimensions					Load Rating		AEC Bearing	M	Angle Ring
mm					kN				
d	D	B	r <sub>1</sub>	r	Dynamic (C)	Static (C <sub>0</sub> )			
170	290	80	3	3	809.0	1200.0	NUP 2232 EC	•	
	340	68	4	4	753.0	911.0	N 332	•	
	340	68	4	4	880.0	1080.0	N 332 EC	•	
	340	68	4	4	753.0	911.0	NF 332	•	
	340	68	4	4	880.0	1080.0	NF 332 EC	•	
	340	68	4	4	753.0	911.0	NJ 332	•	
	340	68	4	4	880.0	1080.0	NJ 332 EC	•	•
	340	68	4	4	753.0	911.0	NU 332	•	
	340	68	4	4	880.0	1080.0	NU 332 EC	•	•
	340	68	4	4	753.0	911.0	NUP 332	•	
	340	68	4	4	880.0	1080.0	NUP 332 EC	•	
	340	114	4	4	1320.0	1860.0	NJ 2332 E	•	•
	340	114	4	4	1320.0	1860.0	NU 2332 E	•	•
	340	114	4	4	1320.0	1860.0	NUP 2332 E	•	
	260	42	2.1	2.1	275.0	400.0	N 1034	•	
	260	42	2.1	2.1	275.0	400.0	NJ 1034	•	•
	260	42	2.1	2.1	275.0	400.0	NU 1034	•	•
	260	42	2.1	2.1	275.0	400.0	NUP 1034	•	
	310	52	4	4	506.0	648.0	N 234	•	
	310	52	4	4	616.0	815.0	N 234 E	•	
	310	52	4	4	506.0	648.0	NF 234	•	
	310	52	4	4	616.0	815.0	NF 234 E	•	
	310	52	4	4	506.0	648.0	NJ 234	•	
	310	52	4	4	616.0	815.0	NJ 234 E	•	•
	310	52	4	4	506.0	648.0	NU 234	•	
	310	52	4	4	616.0	815.0	NU 234 E	•	•
	310	52	4	4	506.0	648.0	NUP 234	•	
	310	52	4	4	616.0	815.0	NUP 234 E	•	
	310	86	4	4	757.0	1087.0	N 2234	•	
	310	86	4	4	968.0	1430.0	N 2234 E	•	
	310	86	4	4	757.0	1087.0	NJ 2234	•	
	310	86	4	4	968.0	1430.0	NJ 2234 E	•	•
	310	86	4	4	757.0	1087.0	NU 2234	•	
	310	86	4	4	968.0	1430.0	NU 2234 E	•	•
	310	86	4	4	757.0	1087.0	NUP 2234	•	
	310	86	4	4	968.0	1430.0	NUP 2234 E	•	
	360	72	4	4	952.0	1040.0	N 334 E		
	360	72	4	4	952.0	1040.0	NF 334 E		
	360	72	4	4	952.0	1040.0	NJ 334 E		•
	360	72	4	4	952.0	1040.0	NU 334 E		•
	360	72	4	4	952.0	1040.0	NUP 334 E		
	360	126	4	4	1230.0	1800.0	NJ 2334	•	•
	360	126	4	4	1230.0	1800.0	NU 2334	•	•
	360	126	4	4	1230.0	1800.0	NUP 2334	•	
180	280	46	2.1	2.1	336.0	475.0	N 1036	•	

Dimensions				Load Rating		AEC Bearing	M	Angle Ring	
mm				kN					
d	D	B	r <sub>1</sub>	r	Dynamic (C)	Static (C <sub>0</sub> )			
	280	46	2.1	2.1	336.0	475.0	NJ 1036	•	•
	280	46	2.1	2.1	336.0	475.0	NU 1036	•	•
	280	46	2.1	2.1	336.0	475.0	NUP 1036	•	
	320	52	4	4	525.0	688.0	N 236	•	
	320	52	4	4	627.0	850.0	N 236 EC	•	
	320	52	4	4	525.0	688.0	NF 236	•	
	320	52	4	4	627.0	850.0	NF 236 EC	•	
	320	52	4	4	525.0	688.0	NJ 236	•	
	320	52	4	4	627.0	850.0	NJ 236 EC	•	•
	320	52	4	4	525.0	688.0	NU 236	•	
	320	52	4	4	627.0	850.0	NU 236 EC	•	•
	320	52	4	4	525.0	688.0	NUP 236	•	
	320	52	4	4	627.0	850.0	NUP 236 EC	•	
	320	86	4	4	785.0	1155.0	N 2236	•	
	320	86	4	4	1010.0	1500.0	N 2236 EC	•	
	320	86	4	4	785.0	1155.0	NJ 2236	•	
	320	86	4	4	1010.0	1500.0	NJ 2236 EC	•	•
	320	86	4	4	785.0	1155.0	NU 2236	•	
	320	86	4	4	1010.0	1500.0	NU 2236 EC	•	•
	320	86	4	4	785.0	1155.0	NUP 2236	•	
	320	86	4	4	1010.0	1500.0	NUP 2236 EC	•	
	380	75	4	4	913.0	1180.0	N 336	•	
	380	75	4	4	913.0	1180.0	NF 336	•	
	380	75	4	4	913.0	1180.0	NJ 336	•	•
	380	75	4	4	913.0	1180.0	NU 336	•	•
	380	75	4	4	913.0	1180.0	NUP 336	•	
	380	126	4	4	1400.0	2040.0	NJ 2336	•	•
	380	126	4	4	1400.0	2040.0	NU 2336	•	•
	380	126	4	4	1400.0	2040.0	NUP 2336	•	
190	290	46	2.1	2.1	347.0	500.0	N 1038	•	
	290	46	2.1	2.1	347.0	500.0	NJ 1038	•	•
	290	46	2.1	2.1	347.0	500.0	NU 1038	•	•
	290	46	2.1	2.1	347.0	500.0	NUP 1038	•	
	340	55	4	4	582.0	768.0	N 238	•	
	340	55	4	4	693.0	965.0	N 238 EC	•	
	340	55	4	4	582.0	768.0	NJ 238	•	
	340	55	4	4	693.0	965.0	NJ 238 EC	•	•
	340	55	4	4	582.0	768.0	NU 238	•	
	340	55	4	4	693.0	965.0	NU 238 EC	•	•
	340	55	4	4	582.0	768.0	NUP 238	•	
	340	55	4	4	693.0	965.0	NUP 238 EC	•	
	340	92	4	4	871.0	1288.0	N 2238	•	
	340	92	4	4	1100.0	1660.0	N 2238 EC	•	
	340	92	4	4	871.0	1288.0	NJ 2238	•	
	340	92	4	4	1100.0	1660.0	NJ 2238 EC	•	•
	340	92	4	4	871.0	1288.0	NU 2238	•	



Dimensions					Load Rating		AEC Bearing	M	Angle Ring
mm					kN				
d	D	B	r <sub>1</sub>	r	Dynamic (C)	Static (C <sub>0</sub> )			
200	340	92	4	4	1100.0	1660.0	NU 2238 EC	•	•
	340	92	4	4	871.0	1288.0	NUP 2238	•	
	340	92	4	4	1100.0	1660.0	NUP 2238 EC	•	
	400	78	4	4	920.0	1288.0	N 338	•	
	400	78	4	4	1140.0	1500.0	N 338 EC	•	
	400	78	4	4	920.0	1288.0	NJ 338	•	
	400	78	4	4	1140.0	1500.0	NJ 338 EC	•	•
	400	78	4	4	920.0	1288.0	NU 338	•	
	400	78	4	4	1140.0	1500.0	NU 338 EC	•	•
	400	78	4	4	920.0	1288.0	NUP 338	•	
	400	78	4	4	1140.0	1500.0	NUP 338 EC	•	
	400	132	4	4	1830.0	2550.0	NJ 2338 EC	•	
	400	132	4	4	1830.0	2550.0	NU 2338 EC	•	
	400	132	4	4	1830.0	2550.0	NUP 2338 EC	•	
	310	51	2.1	2.1	380.0	570.0	N 1040	•	
	310	51	2.1	2.1	380.0	570.0	NJ 1040	•	•
	310	51	2.1	2.1	380.0	570.0	NU 1040	•	•
	310	51	2.1	2.1	380.0	570.0	NUP 1040	•	
	360	58	4	4	650.0	865.0	N 240	•	
	360	58	4	4	765.0	1060.0	N 240 E	•	
	360	58	4	4	650.0	865.0	NJ 240	•	
	360	58	4	4	765.0	1060.0	NJ 240 E	•	•
	360	58	4	4	650.0	865.0	NU 240	•	
	360	58	4	4	765.0	1060.0	NU 240 E	•	•
	360	58	4	4	650.0	865.0	NUP 240	•	
	360	58	4	4	765.0	1060.0	NUP 240 E	•	
	360	98	4	4	967.0	1442.0	N 2240	•	
	360	98	4	4	1230.0	1900.0	N 2240 EC	•	
	360	98	4	4	967.0	1442.0	NJ 2240	•	
	360	98	4	4	1230.0	1900.0	NJ 2240 EC	•	•
	360	98	4	4	967.0	1442.0	NU 2240	•	
	360	98	4	4	1230.0	1900.0	NU 2240 EC	•	•
	360	98	4	4	967.0	1442.0	NUP 2240	•	
	360	98	4	4	1230.0	1900.0	NUP 2240 EC	•	
	420	80	5	5	990.0	1320.0	N 340	•	
	420	80	5	5	990.0	1320.0	NJ 340	•	•
	420	80	5	5	990.0	1320.0	NU 340	•	•
	420	80	5	5	990.0	1320.0	NUP 340	•	
	420	138	5	5	2050.0	2850.0	NJ 2340 EC	•	
	420	138	5	5	2050.0	2850.0	NU 2340 EC	•	
	420	138	5	5	2050.0	2850.0	NUP 2340 EC	•	
220	340	56	3	3	495.0	735.0	N 1044	•	
	340	56	3	3	495.0	735.0	NJ 1044	•	•
	340	56	3	3	495.0	735.0	NU 1044	•	•
	340	56	3	3	495.0	735.0	NUP 1044	•	

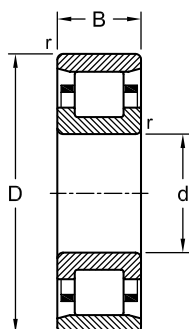
Dimensions					Load Rating		AEC Bearing	M	Angle Ring
mm					kN				
d	D	B	r <sub>1</sub>	r	Dynamic (C)	Static (C <sub>0</sub> )			
240	400	65	4	4	765.0	1080.0	N 244	•	
	400	65	4	4	765.0	1080.0	NJ 244	•	•
	400	65	4	4	765.0	1080.0	NU 244	•	•
	400	65	4	4	765.0	1080.0	NUP 244	•	
	400	108	4	4	1189.0	1806.0	N 2244	•	
	400	108	4	4	1570.0	2280.0	N 2244 EC	•	
	400	108	4	4	1189.0	1806.0	NJ 2244	•	
	400	108	4	4	1570.0	2280.0	NJ 2244 EC	•	•
	400	108	4	4	1189.0	1806.0	NU 2244	•	
	400	108	4	4	1570.0	2280.0	NU 2244 EC	•	•
	400	108	4	4	1189.0	1806.0	NUP 2244	•	
	400	108	4	4	1570.0	2280.0	NUP 2244 EC	•	
	460	88	5	5	1210.0	1630.0	NJ 344	•	•
	460	88	5	5	1210.0	1630.0	NU 344	•	•
	460	88	5	5	1210.0	1630.0	NUP 344	•	
	460	145	5	5	2330.0	3250.0	NJ 2344 EC	•	•
	460	145	5	5	2330.0	3250.0	NU 2344 EC	•	•
	460	145	5	5	2330.0	3250.0	NUP 2344 EC	•	
	360	560	3	3	523.0	800.0	N 1048	•	
	360	560	3	3	523.0	800.0	NJ 1048	•	•
	360	560	3	3	523.0	800.0	NU 1048	•	•
	360	560	3	3	523.0	800.0	NUP 1048	•	
	440	72	4	4	952.0	1370.0	N 248	•	
	440	72	4	4	952.0	1370.0	NJ 248	•	•
	440	72	4	4	952.0	1370.0	NU 248	•	•
	440	72	4	4	952.0	1370.0	NUP 248	•	
	440	120	4	4	1450.0	2360.0	N 2248	•	
	440	120	4	4	1450.0	2360.0	NJ 2248	•	•
	440	120	4	4	1450.0	2360.0	NU 2248	•	•
	440	120	4	4	1450.0	2360.0	NUP 2248	•	
	500	95	5	5	1450.0	2000.0	NJ 348	•	•
	500	95	5	5	1450.0	2000.0	NU 348	•	•
	500	95	5	5	1450.0	2000.0	NUP 348	•	
	500	155	5	5	2120.0	3250.0	NJ 2348	•	•
	500	155	5	5	2120.0	3250.0	NU 2348	•	•
	500	155	5	5	2120.0	3250.0	NUP 2348	•	
260	400	65	4	4	627.0	965.0	N 1052	•	
	400	65	4	4	627.0	965.0	NJ 1052	•	•
	400	65	4	4	627.0	965.0	NU 1052	•	•
	400	65	4	4	627.0	965.0	NUP 1052	•	
	480	80	5	5	1170.0	1700.0	N 252	•	
	480	80	5	5	1170.0	1700.0	NJ 252	•	•
	480	80	5	5	1170.0	1700.0	NU 252	•	•
	480	80	5	5	1170.0	1700.0	NUP 252	•	

Dimensions					Load Rating		AEC Bearing	M	Angle Ring
mm					kN				
d	D	B	r <sub>1</sub>	r	Dynamic (C)	Static (C <sub>0</sub> )			
280	480	130	5	5	1790.0	3000.0	NU 2252	•	•
	420	65	4	4	660.0	1060.0	N 1056	•	
	420	65	4	4	660.0	1060.0	NJ 1056	•	
	420	65	4	4	660.0	1060.0	NU 1056	•	
	420	65	4	4	660.0	1060.0	NUP 1056	•	
	500	80	5	5	1140.0	1700.0	NJ 256	•	•
	500	80	5	5	1140.0	1700.0	NU 256	•	•
	500	130	5	5	2200.0	3250.0	NU 2256 EC	•	•
300	580	175	6	6	2700.0	4300.0	NU 2356	•	•
	460	74	4	4	858.0	1370.0	N 1060	•	
	460	74	4	4	858.0	1370.0	NJ 1060	•	•
	460	74	4	4	858.0	1370.0	NU 1060	•	•
	460	74	4	4	858.0	1370.0	NUP 1060	•	
	540	85	5	5	1420.0	2120.0	NU 260	•	•
	540	140	5	5	2090.0	3450.0	NU 2260	•	•
	480	74	4	4	880.0	1430.0	N 1064		
320	480	74	4	4	880.0	1430.0	NJ 1064	•	•
	480	74	4	4	880.0	1430.0	NU 1064	•	•
	480	74	4	4	880.0	1430.0	NUP 1064	•	
	580	92	5	5	1610.0	2450.0	NU 264	•	•
	580	150	5	5	2380.0	4000.0	NU 2264	•	•
	520	82	5	5	1080.0	1760.0	N 1068	•	
	520	82	5	5	1080.0	1760.0	NJ 1068	•	•
	520	82	5	5	1080.0	1760.0	NU 1068	•	•
340	520	82	5	5	1080.0	1760.0	NUP 1068	•	
	620	165	6	6	2640.0	4500.0	NU 2268	•	
	540	82	5	5	1100.0	1830.0	NU 1072	•	•
	650	170	6	6	2920.0	4900.0	NU 2272	•	
	560	82	5	5	1140.0	1930.0	NU 1076	•	•
	680	175	6	6	3140.0	5500.0	NU 2276	•	
	600	90	5	5	1380.0	2320.0	NU 1080	•	•
	620	90	5	5	1420.0	2450.0	NU 1084	•	•
440	650	94	6	6	1510.0	2650.0	NU 1088	•	•
460	680	100	6	6	1650.0	2850.0	NU 1092	•	•
480	700	100	6	6	1680.0	3000.0	NU 1096	•	•
500	720	100	6	6	1720.0	3100.0	NU 10/500	•	•
530	780	112	6	6	2290.0	4050.0	NU 10/530	•	
560	820	115	6	6	2330.0	4250.0	NU 10/560	•	
600	870	118	6	6	2750.0	5100.0	NU 10/600	•	

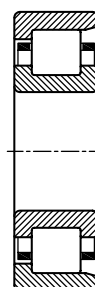
# Cylindrical Roller Bearings

Single Row  
Inch Series

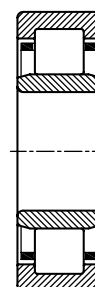
**CFL, CRL, CRM, LLRJ, MMRJ, XLRJ**



CRL / CRM / XLRJ



LLRJ / MMRJ



CFL

Dimensions				Load Rating		AEC Bearing	M
inch (mm)				kN			
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )		
0.500	1.3125	0.3750	0.0315 (0.8)	9.85	6.95	CRL 4	
	1.3125	0.3750	0.0315 (0.8)	9.85	6.95	LLRJ 1/2	
	1.6250	0.6250	0.0630 (1.6)	17.10	12.80	CRM 4	
	1.6250	0.6250	0.0630 (1.6)	17.10	12.80	MMRJ 1/2	
0.625	1.5625	0.4375	0.0315 (0.8)	12.50	9.95	CFL 5	
	1.5625	0.4375	0.0315 (0.8)	12.50	9.95	CRL 5	
	1.5625	0.4375	0.0315 (0.8)	12.50	9.95	LLRJ 5/8	
	1.8125	0.6250	0.0630 (1.6)	18.80	14.80	CRM 5	
	1.8125	0.6250	0.0630 (1.6)	18.80	14.80	MMRJ 5/8	
	1.8750	0.5625	0.0630 (1.6)	22.80	19.40	CFL 6	
	1.8750	0.5625	0.0630 (1.6)	22.80	19.40	CRL 6	●
	1.8750	0.5625	0.0630 (1.6)	22.80	19.40	LLRJ 3/4	
	2.0000	0.6875	0.0630 (1.6)	28.70	24.30	CRM 6	
	2.0000	0.6875	0.0630 (1.6)	28.70	24.30	MMRJ 3/4	
	2.0000	0.5625	0.0630 (1.6)	24.60	20.80	CFL 7	
	2.0000	0.5625	0.0630 (1.6)	24.60	20.80	CRL 7	
0.875	2.0000	0.5625	0.0630 (1.6)	24.60	20.80	LLRJ 7/8	
	2.2500	0.6875	0.0630 (1.6)	25.10	21.10	CRM 7	
	2.2500	0.6875	0.0630 (1.6)	25.10	21.10	MMRJ 7/8	
	2.2500	0.6250	0.0630 (1.6)	31.10	27.90	CFL 8	
1.000	2.2500	0.6250	0.0630 (1.6)	31.10	27.90	CRL 8	
	2.2500	0.6250	0.0630 (1.6)	31.10	27.90	LLRJ 1	
	2.5000	0.7500	0.0945 (2.4)	35.00	30.60	CFM 8	
	2.5000	0.7500	0.0945 (2.4)	35.00	30.60	CRM 8	
	2.5000	0.7500	0.0945 (2.4)	35.00	30.60	MMRJ 1	
	2.5000	0.6250	0.0630 (1.6)	33.10	31.30	CFL 9	
	2.5000	0.6250	0.0630 (1.6)	33.10	31.30	CRL 9	
	2.5000	0.6250	0.0630 (1.6)	33.10	31.30	LLRJ 1.1/8	
1.125	2.8125	0.8125	0.0945 (2.4)	45.50	41.90	CFM 9	
	2.8125	0.8125	0.0945 (2.4)	45.50	41.90	CRM 9	●
	2.8125	0.8125	0.0945 (2.4)	45.50	41.90	MMRJ 1.1/8	
	2.7500	0.6875	0.0630 (1.6)	42.10	37.90	CFL 10	

Dimensions				Load Rating		AEC Bearing	M
inch (mm)				kN			
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )		
1.375	2.7500	0.6875	0.0630 (1.6)	42.10	37.90	CRL 10	
	2.7500	0.6875	0.0630 (1.6)	42.10	37.90	LLRJ 1.1/4	
	3.1250	0.8750	0.0945 (2.4)	58.00	52.50	CFM 10	
	3.1250	0.8750	0.0945 (2.4)	58.00	52.50	CRM 10	
	3.1250	0.8750	0.0945 (2.4)	58.00	52.50	MMRJ 1.1/4	
	3.0000	0.6875	0.0630 (1.6)	42.10	38.30	CFL 11	
	3.0000	0.6875	0.0630 (1.6)	42.10	38.30	CRL 11	
	3.0000	0.6875	0.0630 (1.6)	42.10	38.30	LLRJ 1.3/8	
1.500	3.5000	0.8750	0.0945 (2.4)	66.00	57.50	CRM 11	
	3.5000	0.8750	0.0945 (2.4)	66.00	57.50	MMRJ 1.3/8	
	2.6875	0.5625	0.0630 (1.6)	23.30	2.43	XLRJ 1.1/2	
	3.2500	0.7500	0.0945 (2.4)	54.00	48.80	CFL 12	
	3.2500	0.7500	0.0945 (2.4)	54.00	48.80	CRL 12	
	3.2500	0.7500	0.0945 (2.4)	54.00	48.80	LLRJ 1.1/2	
	3.7500	0.9375	0.0945 (2.4)	72.50	68.50	CFM 12	
	3.7500	0.9375	0.0945 (2.4)	72.50	68.50	CRM 12	
1.625	3.7500	0.9375	0.0945 (2.4)	72.50	68.50	MMRJ 1.1/2	
	2.8750	0.5625	0.0630 (1.6)	24.00	25.90	XLRJ 1.5/8	
	3.5000	0.7500	0.0945 (2.4)	57.50	54.00	CRL 13	
	3.5000	0.7500	0.0945 (2.4)	57.50	54.00	LLRJ 1.5/8	
	4.0000	0.9375	0.0945 (2.4)	85.50	83.00	CRM 13	
	4.0000	0.9375	0.0945 (2.4)	85.50	83.00	MMRJ 1.5/8	
	3.0000	0.5625	0.0630 (1.6)	24.70	27.50	XLRJ 1.3/4	
	3.7500	0.8125	0.0945 (2.4)	68.00	63.00	CFL 14	
1.750	3.7500	0.8125	0.0945 (2.4)	68.00	63.00	CRL 14	
	3.7500	0.8125	0.0945 (2.4)	68.00	63.00	LLRJ 1.3/4	
	4.2500	1.0625	0.0945 (2.4)	98.50	93.00	CFM 14	
	4.2500	1.0625	0.0945 (2.4)	98.50	93.00	CRM 14	
	4.2500	1.0625	0.0945 (2.4)	98.50	93.00	MMRJ 1.3/4	
	3.1875	0.6250	0.0630 (1.6)	34.00	35.80	XLRJ 1.7/8	
	4.0000	0.8125	0.0945 (2.4)	72.00	79.00	CRL 15	
	4.0000	0.8125	0.0945 (2.4)	72.00	79.00	LLRJ 1.7/8	
1.875	4.5000	1.0625	0.0945 (2.4)	98.50	94.50	CRM 15	•
	4.5000	1.0625	0.0945 (2.4)	98.50	94.50	MMRJ 1.7/8	
	3.3125	0.6250	0.0630 (1.6)	35.30	38.20	XLRJ 2	
	4.0000	0.8125	0.0945 (2.4)	72.00	79.00	CFL 16	
	4.0000	0.8125	0.0945 (2.4)	72.00	79.00	CRL 16	
	4.0000	0.8125	0.0945 (2.4)	72.00	79.00	LLRJ 2	
	4.5000	1.0625	0.0945 (2.4)	98.50	94.50	CFM 16	
	4.5000	1.0625	0.0945 (2.4)	98.50	94.50	CRM 16	•
2.000	4.5000	1.0625	0.0945 (2.4)	98.50	94.50	MMRJ 2	
	3.5625	0.6250	0.0630 (1.6)	39.10	45.00	XLRJ 2.1/4	
	4.5000	0.8750	0.0945 (2.4)	87.50	89.50	CFL 18	
	4.5000	0.8750	0.0945 (2.4)	87.50	89.50	CRL 18	•
	4.5000	0.8750	0.0945 (2.4)	87.50	89.50	LLRJ 2.1/4	
	5.0000	1.2500	0.1260 (3.2)	136.00	138.00	CFM 18	
	5.0000	1.2500	0.1260 (3.2)	136.00	138.00	CRM 18	
	5.0000	1.2500	0.1260 (3.2)	136.00	138.00	MMRJ 2.1/4	

Dimensions				Load Rating		AEC Bearing	M
inch (mm)				kN			
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )		
2.500	3.8750	0.6875	0.0630 (1.6)	42.60	52.00	XLRJ 2.1/2	
	5.0000	0.9375	0.0945 (2.4)	102.00	114.00	CFL 20	
	5.0000	0.9375	0.0945 (2.4)	102.00	114.00	CRL 20	
	5.0000	0.9375	0.0945 (2.4)	102.00	114.00	LLRJ 2.1/2	
	5.5000	1.2500	0.1260 (3.2)	164.00	167.00	CFM 20	
	5.5000	1.2500	0.1260 (3.2)	164.00	167.00	CRM 20	•
	5.5000	1.2500	0.1260 (3.2)	164.00	167.00	MMRJ 2.1/2	
2.750	4.1250	0.6875	0.0630 (1.6)	42.10	52.50	XLRJ 2.3/4	
	5.2500	0.9375	0.0945 (2.4)	107.00	122.00	CFL 22	
	5.2500	0.9375	0.0945 (2.4)	107.00	122.00	CRL 22	
	5.2500	0.9375	0.0945 (2.4)	107.00	122.00	LLRJ 2.3/4	
	6.2500	1.3750	0.1260 (3.2)	205.00	216.00	CFM 22	
	6.2500	1.3750	0.1260 (3.2)	205.00	216.00	CRM 22	•
	6.2500	1.3750	0.1260 (3.2)	205.00	216.00	MMRJ 2.3/4	
3.000	4.5000	0.7500	0.0945 (2.4)	56.00	68.50	XLRJ 3	•
	5.7500	1.0625	0.0945 (2.4)	139.00	147.00	CFL 24	
	5.7500	1.0625	0.0945 (2.4)	139.00	147.00	CRL 24	
	5.7500	1.0625	0.0945 (2.4)	139.00	147.00	LLRJ 3	
	7.0000	1.5625	0.1575 (4)	234.00	248.00	CFM 24	
	7.0000	1.5625	0.1575 (4)	234.00	248.00	CRM 24	
	7.0000	1.5625	0.1575 (4)	234.00	248.00	MMRJ 3	
3.250	4.7500	0.7500	0.0945 (2.4)	59.50	75.00	XLRJ 3.1/4	•
	6.0000	1.0625	0.0945 (2.4)	151.00	172.00	CFL 26	•
	6.0000	1.0625	0.0945 (2.4)	151.00	172.00	CRL 26	•
	6.0000	1.0625	0.0945 (2.4)	151.00	172.00	LLRJ 3.1/4	•
	7.5000	1.5625	0.1575 (4)	263.00	285.00	CRM 26	•
	7.5000	1.5625	0.1575 (4)	263.00	285.00	MMRJ 3.1/4	•
	7.5000	1.5625	0.1575 (4)	263.00	285.00	CRM 27	•
3.500	7.5000	1.5625	0.1575 (4)	263.00	285.00	MMRJ 3.3/8	•
	5.0000	0.7500	0.0945 (2.4)	60.50	78.50	XLRJ 3.1/2	•
	5.0000	0.7500	0.0945 (2.4)	60.50	78.50	XLRJA 3.1/2	•
	6.5000	1.1250	0.1260 (3.2)	168.00	189.00	CFL 28	•
	6.5000	1.1250	0.1260 (3.2)	168.00	189.00	CRL 28	•
	6.5000	1.1250	0.1260 (3.2)	168.00	189.00	LLRJ 3.1/2	•
	8.1250	1.7500	0.1575 (4)	276.00	311.00	CRM 28	•
4.000	8.1250	1.7500	0.1575 (4)	276.00	311.00	MMRJ 3.1/2	•
	5.2500	0.7500	0.0945 (2.4)	62.00	82.50	XLRJ 3.3/4	•
	6.7500	1.1250	0.1260 (3.2)	192.00	230.00	CRL 30	•
	6.7500	1.1250	0.1260 (3.2)	192.00	230.00	LLRJ 3.3/4	•
	8.2500	1.7500	0.1575 (4)	276.00	311.00	CRM 30	•
	8.2500	1.7500	0.1575 (4)	276.00	311.00	MMRJ 3.3/4	•
	5.6250	0.8750	0.0945 (2.4)	80.00	105.00	XLRJ 4	•
4.250	7.2500	1.2500	0.1260 (3.2)	173.00	219.00	CFL 32	•
	7.2500	1.2500	0.1260 (3.2)	173.00	219.00	CRL 32	•
	7.2500	1.2500	0.1260 (3.2)	302.00	359.00	LLRJ 4	•
	8.5000	1.7500	0.1575 (4)	302.00	359.00	CRM 32	•
	8.5000	1.7500	0.1575 (4)	302.00	359.00	MMRJ 4	•
	6.0000	0.8750	0.0945 (2.4)	84.00	114.00	XLRJ 4.1/4	•

Dimensions				Load Rating		AEC Bearing	M
inch (mm)				kN			
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )		
4.500	7.5000	1.2500	0.1260 (3.2)	222.00	270.00	CRL 34	•
	7.5000	1.2500	0.1260 (3.2)	222.00	270.00	LLRJ 4.1/4	•
	8.7500	1.7500	0.1890 (4.8)	302.00	359.00	CRM 34	•
	8.7500	1.7500	0.1890 (4.8)	302.00	359.00	MMRJ 4.1/4	•
	6.2500	0.8750	0.0945 (2.4)	80.00	124.00	XLRJ 4.1/2	•
	8.0000	1.3125	0.1260 (3.2)	229.00	288.00	CRL 36	•
	8.0000	1.3125	0.1260 (3.2)	229.00	288.00	LLRJ 4.1/2	•
	9.3750	2.0000	0.1890 (4.8)	417.00	478.00	CRM 36	•
4.750	9.3750	2.0000	0.1890 (4.8)	417.00	478.00	MMRJ 4.1/2	•
	6.5000	0.8750	0.0945 (2.4)	92.00	133.00	XLRJ 4.3/4	•
	8.2500	1.3125	0.1260 (3.2)	264.00	331.00	CRL 38	•
	8.2500	1.3125	0.1260 (3.2)	264.00	331.00	LLRJ 4.3/4	•
5.000	10.0000	2.0000	0.1890 (4.8)	478.00	568.00	CRM 38	•
	10.0000	2.0000	0.1890 (4.8)	478.00	568.00	MMRJ 4.3/4	•
	7.0000	1.0000	0.0945 (2.4)	113.00	161.00	XLRJ 5	•
	9.0000	1.3750	0.1260 (3.2)	281.00	369.00	CRL 40	•
	9.0000	1.3750	0.1260 (3.2)	281.00	369.00	LLRJ 5	•
	10.0000	2.0000	0.1890 (4.8)	478.00	568.00	CRM 40	•
	10.0000	2.0000	0.1890 (4.8)	478.00	568.00	MMRJ 5	•
	7.2500	1.0000	0.0945 (2.4)	112.00	161.00	XLRJ 5.1/4	•
5.500	7.5000	1.0000	0.0945 (2.4)	117.00	174.00	XLRJ 5.1/2	•
5.750	9.5000	1.3750	0.1260 (3.2)	288.00	389.00	CRL 44	•
	9.5000	1.3750	0.1260 (3.2)	288.00	389.00	LLRJ 5.1/2	•
	11.0000	2.0000	0.1890 (4.8)	545.00	668.00	CRM 44	•
	11.0000	2.0000	0.1890 (4.8)	545.00	668.00	MMRJ 5.1/2	•
	7.7500	1.0000	0.0945 (2.4)	122.00	186.00	XLRJ 5.3/4	•
	8.0000	1.0000	0.0945 (2.4)	127.00	198.00	XLRJ 6	•
	10.5000	1.5625	0.1575 (4)	325.00	450.00	CRL 48	•
	10.5000	1.5625	0.1575 (4)	325.00	450.00	LLRJ 6	•
6.500	12.0000	2.2500	0.1890 (4.8)	640.00	795.00	CRM 48	•
	12.0000	2.2500	0.1890 (4.8)	640.00	795.00	MMRJ 6	•
	8.7500	1.1250	0.1260 (3.2)	131.00	211.00	XLRJ 6.1/2	•
	11.0000	1.5625	0.1575 (4)	369.00	471.00	CRL 52	•
	11.0000	1.5625	0.1575 (4)	369.00	471.00	LLRJ 6.1/2	•
	13.0000	2.5000	0.1890 (4.8)	749.00	940.00	CRM 52	•
	13.0000	2.5000	0.1890 (4.8)	749.00	940.00	MMRJ 6.1/2	•
	9.5000	1.2500	0.1260 (3.2)	194.00	307.00	XLRJ 7	•
7.000	12.0000	1.7500	0.1575 (4)	477.00	645.00	CRL 56	•
	12.0000	1.7500	0.1575 (4)	477.00	645.00	LLRJ 7	•
	13.5000	2.5000	0.1890 (4.8)	747.00	950.00	CRM 56	•
	10.0000	1.2500	0.1260 (3.2)	200.00	327.00	XLRJ 7.1/2	•
	12.5000	1.7500	0.1575 (4)	508.00	712.00	CRL 60	•
	12.5000	1.7500	0.1575 (4)	508.00	712.00	LLRJ 7.1/2	•
	14.5079	2.7500	0.1890 (4.8)	838.00	1100.00	CRM 60	•
	10.7500	1.3750	0.1260 (3.2)	230.00	373.00	XLRJ 8	•
8.000	13.0000	1.7500	0.1575 (4)	537.00	779.00	CRL 64	•
	13.0000	1.7500	0.1575 (4)	537.00	779.00	LLRJ 8	•
	15.0000	2.7500	0.1890 (4.8)	870.00	1170.00	CRM 64	•

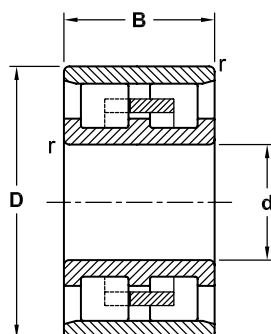
Dimensions				Load Rating		AEC Bearing	M
inch (mm)				kN			
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )		
8.500	11.5000	1.5000	0.1260 (3.2)	259.00	417.00	XLRJ 8.1/2	•
	14.0000	2.0000	0.1890 (4.8)	531.00	786.00	CRL 68	•
	14.0000	2.0000	0.1890 (4.8)	531.00	786.00	LLRJ 8.1/2	•
	16.0000	3.0000	0.1890 (4.8)	959.00	1280.00	CRM 68	•
9.000	12.0000	1.5000	0.1260 (3.2)	269.00	445.00	XLRJ 9	•
	14.5000	2.0000	0.1890 (4.8)	644.00	952.00	CRL 72	•
	14.5000	2.0000	0.1890 (4.8)	644.00	952.00	LLRJ 9	•
	17.0000	3.0000	0.1890 (4.8)	1065.00	1460.00	CRM 72	•
9.500	12.7500	1.6250	0.1575 (4)	313.00	521.00	XLRJ 9.1/2	•
	15.1250	2.0000	0.1890 (4.8)	556.00	856.00	CRL 76	•
	15.1250	2.0000	0.1890 (4.8)	556.00	856.00	LLRJ 9.1/2	•
	18.0000	3.2500	0.1890 (4.8)	1230.00	1640.00	CRM 76	•
10.000	13.2500	1.6250	0.1575 (4)	310.00	523.00	XLRJ 10	•
	15.7500	2.0000	0.1890 (4.8)	674.00	1040.00	CRL 80	•
	15.7500	2.0000	0.1890 (4.8)	674.00	1040.00	LLRJ 10	•
	18.5000	3.0000	0.1890 (4.8)	1190.00	1650.00	CRM 80	•
10.500	14.0000	1.7500	0.1575 (4)	373.00	640.00	XLRJ 10.1/2	•
	16.6250	2.2500	0.1890 (4.8)	671.00	1020.00	CRL 84	•
	16.6250	2.2500	0.1890 (4.8)	671.00	1020.00	LLRJ 10.1/2	•
	19.5000	3.5000	0.25 (6.35)	1330.00	1870.00	CRM 84	•
11.000	14.5000	1.7500	0.1575 (4)	386.00	678.00	XLRJ 11	•
	17.5000	2.2500	0.1890 (4.8)	706.00	1110.00	CRL 88	•
	17.5000	2.2500	0.1890 (4.8)	706.00	1110.00	LLRJ 11	•
	20.0000	3.5000	0.25 (6.35)	1330.00	1880.00	CRM 88	•
11.500	15.2500	1.8750	0.1575 (4)	423.00	736.00	XLRJ 11.1/2	•
	18.0000	2.3437	0.1890 (4.8)	839.00	1310.00	CRL 92	•
12.000	16.0000	2.0000	0.1890 (4.8)	477.00	836.00	XLRJ 12	•
	18.5000	2.6250	0.1890 (4.8)	858.00	136.00	CRL 96	•
	18.5000	2.6250	0.1890 (4.8)	858.00	136.00	LLRJ 12	•
	21.5000	3.7500	0.25 (6.35)	1720.00	2480.00	CRM 96	•
13.000	17.5000	2.2500	0.1890 (4.8)	571.00	993.00	XLRJ 13	•
	20.0000	2.7500	0.1890 (4.8)	1030.00	1680.00	CRL 104	•
	20.0000	2.7500	0.1890 (4.8)	1030.00	1680.00	LLRJ 13	•
14.000	18.5000	2.2500	0.1890 (4.8)	564.00	998.00	XLRJ 14	•
	21.5000	2.8750	0.1890 (4.8)	1140.00	1960.00	CRL 112	•
	21.5000	2.8750	0.1890 (4.8)	1140.00	1960.00	LLRJ 14	•
15.0000	20.0000	2.5000	0.1890 (4.8)	705.00	1260.00	XLRJ 15	•
	22.5000	3.0000	0.1890 (4.8)	1220.00	1940.00	CRL 120	•
	22.5000	3.0000	0.1890 (4.8)	1220.00	1940.00	LLRJ 15	•



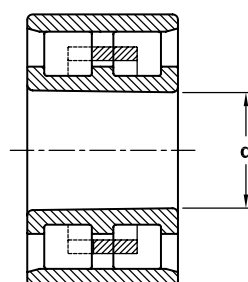
# Cylindrical Roller Bearings

Double Row  
Metric Series

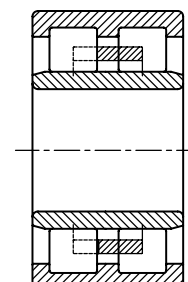
**NN, NNU**



NN



NN (Tapered Bore)



NNU

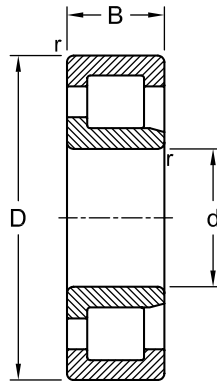
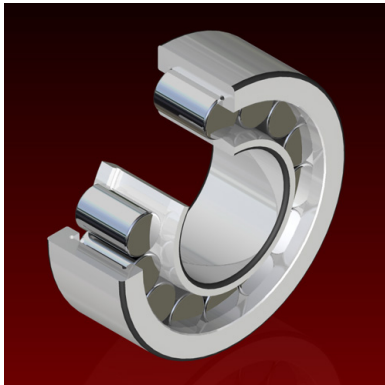
Dimensions				Load Rating		AEC Bearing	M	K
mm				kN				
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )			
30	55	19	1.0	29.0	34.0	<b>NN 3006</b>	•	•
35	62	20	1.0	35.5	44.0	<b>NN 3007</b>	•	•
40	68	21	1.0	45.0	58.5	<b>NN 3008</b>	•	•
45	75	23	1.0	54.0	72.0	<b>NN 3009</b>	•	•
50	80	23	1.0	57.0	80.0	<b>NN 3010</b>	•	•
55	90	26	1.1	72.0	100.0	<b>NN 3011</b>	•	•
60	95	26	1.1	75.0	110.0	<b>NN 3012</b>	•	•
65	100	26	1.1	76.5	116.0	<b>NN 3013</b>	•	•
70	110	30	1.1	98.0	150.0	<b>NN 3014</b>	•	•
75	115	30	1.1	100.0	156.0	<b>NN 3015</b>	•	•
80	125	34	1.1	120.0	186.0	<b>NN 3016</b>	•	•
85	130	34	1.1	125.0	200.0	<b>NN 3017</b>	•	•
90	140	37	1.5	140.0	224.0	<b>NN 3018</b>	•	•
95	145	37	1.5	143.0	236.0	<b>NN 3019</b>	•	•
100	140	40	1.1	129.0	255.0	<b>NNU 4920</b>	•	•
	150	37	1.5	146.0	245.0	<b>NN 3020</b>	•	•
105	145	40	1.1	129.0	260.0	<b>NNU 4921</b>	•	•
	160	41	2.0	190.0	310.0	<b>NN 3021</b>	•	•
110	150	40	1.1	132.0	270.0	<b>NNU 4922</b>	•	•
	170	45	2.0	220.0	360.0	<b>NN 3022</b>	•	•
120	165	45	1.1	176.0	340.0	<b>NNU 4924</b>	•	•
	180	46	2.0	232.0	390.0	<b>NN 3024</b>	•	•
130	180	50	1.5	190.0	390.0	<b>NNU 4926</b>	•	•
	200	52	2.0	290.0	500.0	<b>NN 3026</b>	•	•
140	190	50	1.5	190.0	400.0	<b>NNU 4928</b>	•	•
	210	53	2.0	300.0	520.0	<b>NN 3028</b>	•	•

Dimensions						Load Rating		AEC Bearing	M	K
mm				kN						
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )					
150	210	60	2.0	325.0	655.0	NNU 4930	•	•		
	225	56	2.1	335.0	585.0	NN 3030	•	•		
160	220	60	2.0	335.0	680.0	NNU 4932	•	•		
	240	60	2.1	375.0	670.0	NN 3032	•	•		
170	230	60	2.0	340.0	695.0	NNU 4934	•	•		
	260	67	2.1	450.0	800.0	NN 3034	•	•		
180	250	69	2.0	405.0	850.0	NNU 4936	•	•		
	280	74	2.1	570.0	1000.0	NN 3036	•	•		
190	260	69	2.0	405.0	880.0	NNU 4938	•	•		
	290	75	2.1	585.0	1040.0	NN 3038	•	•		
200	280	80	2.1	490.0	1040.0	NNU 4940	•	•		
	310	82	2.1	655.0	1200.0	NN 3040	•	•		
220	300	80	2.1	510.0	1140.0	NNU 4944	•	•		
	340	90	3.0	800.0	1460.0	NN 3044	•	•		
240	320	80	2.1	530.0	1200.0	NNU 4948	•	•		
	360	92	3.0	850.0	1560.0	NN 3048	•	•		
260	360	100	2.1	750.0	1700.0	NNU 4952	•	•		
	400	104	4.0	1060.0	2000.0	NN 3052	•	•		
280	380	100	2.1	765.0	1800.0	NNU 4956	•	•		
	420	106	4.0	1080.0	2080.0	NN 3056	•	•		
300	420	118	3.0	1040.0	2400.0	NNU 4960	•	•		
	460	118	4.0	1270.0	2400.0	NN 3060	•	•		
320	440	118	3.0	1060.0	2550.0	NNU 4964	•	•		
	480	121	4.0	1320.0	2600.0	NN 3064	•	•		
340	520	133	5.0	1630.0	3250.0	NN 3068	•	•		
360	540	134	5.0	1660.0	3350.0	NN 3072	•	•		
380	560	135	5.0	1700.0	3450.0	NN 3076	•	•		
400	600	148	5.0	2160.0	4500.0	NN 3080	•	•		
420	620	150	5.0	2120.0	4500.0	NN 3084	•	•		
440	650	157	6.0	2450.0	5100.0	NN 3088	•	•		
460	680	163	6.0	2600.0	5400.0	NN 3092	•	•		
480	700	165	6.0	2700.0	5850.0	NN 3096	•	•		
500	720	167	6.0	2650.0	5850.0	NN 30/500	•	•		

# Cylindrical Roller Bearings

Full Complement  
Metric Series

**NJG**

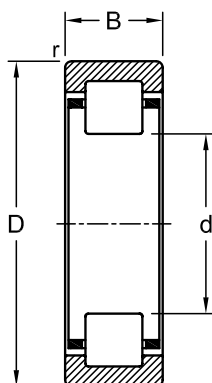


Dimensions				Load Rating		AEC Bearing
mm				kN		
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )	
25	62	24	1.1	68.2	68.0	NJG 2305
30	72	27	1.1	84.2	86.5	NJG 2306
35	80	31	1.5	108.0	114.0	NJG 2307
40	90	33	1.5	145.0	156.0	NJG 2308
45	100	36	1.5	172.0	196.0	NJG 2309
50	110	40	2.0	198.0	220.0	NJG 2310
55	120	43	2.0	233.0	260.0	NJG 2311
65	140	48	2.1	303.0	360.0	NJG 2313
70	150	51	2.1	336.0	400.0	NJG 2314
75	160	55	2.1	396.0	480.0	NJG 2315
80	170	58	2.1	457.0	570.0	NJG 2316
85	180	60	3.0	484.0	620.0	NJG 2317
90	190	64	3.0	550.0	680.0	NJG 2318
100	215	73	3.0	704.0	900.0	NJG 2320
110	240	80	3.0	858.0	1060.0	NJG 2322
120	260	86	3.0	935.0	1200.0	NJG 2324
130	280	93	4.0	1080.0	1430.0	NJG 2326
140	300	102	4.0	1230.0	1660.0	NJG 2328
150	320	108	4.0	1450.0	1930.0	NJG 2330

# Cylindrical Roller Bearings

Without Inner Ring  
Metric Series

**RNU**

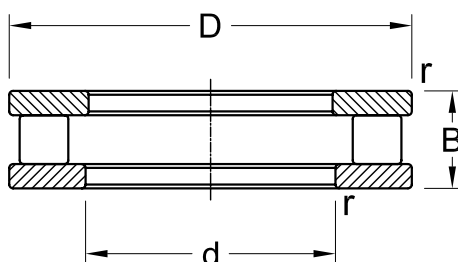
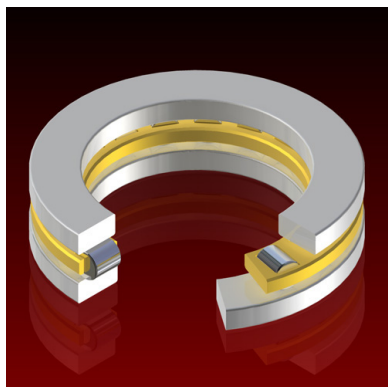


Dimensions				Load Rating		AEC Bearing	M
mm				kN			
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )		
27.0	47	18	1.5	21.0	17.8	RNU 2204	
35.0	62	17	2.0	29.3	24.3	RNU 305	●
42.0	72	19	2.0	38.7	33.2	RNU 306	
46.2	80	31	2.5	61.5	58.1	RNU 2307	●
50.0	80	18	2.0	43.8	40.5	RNU 208	●
58.5	100	25	2.5	75.0	683.0	RNU 309	●
	100	36	2.5	102.0	101.0	RNU 2309	
64.5	120	29	2.0	106.0	102.0	RNU 409	
66.5	100	21	2.5	58.4	59.2	RNU 211	
79.6	120	23	2.5	79.9	83.2	RNU 213	
135.0	180	28	2.0	134.0	183.0	RNU 1024	●
169.0	250	42	4.0	325.0	396.0	RNU 228	●
27.0	47	18	1.5	21.0	17.8	RNU 2204	
35.0	62	17	2.0	29.3	24.3	RNU 305	●
42.0	72	19	2.0	38.7	33.2	RNU 306	
46.2	80	31	2.5	61.5	58.1	RNU 2307	●
50.0	80	18	2.0	43.8	40.5	RNU 208	●
58.5	100	25	2.5	75.0	683.0	RNU 309	●
	100	36	2.5	102.0	101.0	RNU 2309	
64.5	120	29	2.0	106.0	102.0	RNU 409	

# Cylindrical Roller Bearings

Thrust  
Metric Series

**811, 812**



Dimensions				Load Rating		AEC Bearing
mm				kN		
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )	
15	28	9	0.3	11.2	27.0	81102
17	30	9	0.3	11.6	29.0	81103
20	35	10	0.3	17.6	44.0	81104
25	42	11	0.6	24.0	65.5	81105
30	47	11	0.6	24.5	69.5	81106
	52	16	0.6	50.0	134.0	81206
35	52	12	0.6	27.0	83.0	81107
	62	18	1.0	62.0	190.0	81207
40	60	13	0.6	38.0	118.0	81108
	68	19	1.0	83.0	255.0	81208
45	65	14	0.6	40.5	132.0	81109
	73	20	1.0	86.5	270.0	81209
50	70	14	0.6	42.5	146.0	81110
	78	22	1.0	91.5	300.0	81210
55	78	16	0.6	69.5	285.0	81111
	90	25	1.0	116.0	365.0	81211
60	85	17	1.0	80.0	300.0	81112
	95	26	1.0	137.0	465.0	81212
65	90	18	1.0	83.0	320.0	81113
	100	27	1.0	140.0	490.0	81213
70	95	18	1.0	86.5	345.0	81114
	105	27	1.0	146.0	530.0	81214
75	100	19	1.0	75.0	290.0	81115
	110	27	1.0	125.0	440.0	81215
80	105	19	1.0	76.5	300.0	81116
	115	28	1.0	160.0	610.0	81216
85	110	19	1.0	76.5	310.0	81117
	125	31	1.0	153.0	550.0	81217

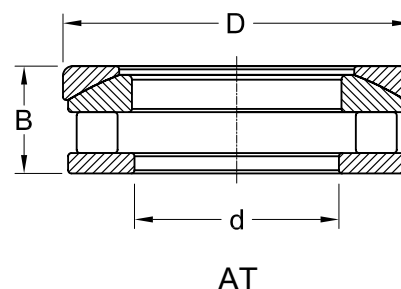
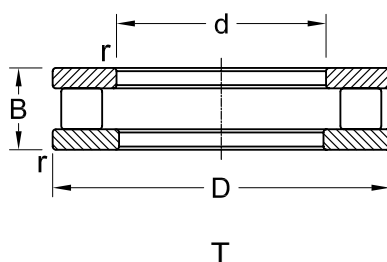
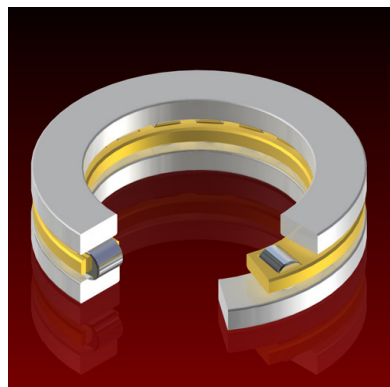
Dimensions				Load Rating		AEC Bearing
mm				kN		
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )	
90	120	22	1.0	104.0	415.0	81118
	135	35	1.1	232.0	865.0	81218
100	135	25	1.0	146.0	585.0	81120
	150	38	1.1	224.0	830.0	81220
110	145	25	1.0	153.0	630.0	81122
	160	38	1.1	240.0	915.0	81222
120	155	25	1.0	160.0	680.0	81124
	170	39	1.1	245.0	965.0	81224
130	170	30	1.0	183.0	780.0	81126
	190	45	1.5	335.0	1250.0	81226
140	180	31	1.0	193.0	850.0	81128
	200	46	1.5	360.0	1400.0	81228
150	190	31	1.0	200.0	900.0	81130
	215	50	1.5	465.0	1900.0	81230
160	200	31	1.0	204.0	965.0	81132
	225	51	1.5	480.0	2000.0	81232
170	215	34	1.1	260.0	1180.0	81134
	240	55	1.5	540.0	2280.0	81234
180	225	34	1.1	270.0	1270.0	81136
	250	56	1.5	550.0	2400.0	81236
190	240	37	1.1	310.0	1460.0	81138
	270	62	2.0	695.0	2900.0	81238
200	250	37	1.1	310.0	1500.0	81140
	280	62	2.0	720.0	3100.0	81240
220	270	37	1.1	335.0	1700.0	81144
	300	63	2.0	750.0	3350.0	81244
240	300	45	1.5	475.0	2450.0	81148
	340	78	2.1	1100.0	4900.0	81248
260	320	45	1.5	490.0	2600.0	81152
	360	79	2.1	1140.0	5300.0	81252
280	350	53	1.5	680.0	3550.0	81156
	380	80	2.1	1160.0	5500.0	81256
300	380	62	2.0	850.0	4400.0	81160
	420	95	3.0	1530.0	7200.0	81260
320	400	63	2.0	880.0	4650.0	81164
	440	95	3.0	1560.0	7500.0	81264
340	420	64	2.0	900.0	4900.0	81168
	460	96	3.0	1630.0	8000.0	81268
360	440	65	2.0	915.0	5000.0	81172
	500	110	4.0	2160.0	10400.0	81272
380	460	65	2.0	930.0	5300.0	81176
	520	112	4.0	2200.0	10800.0	81276

Dimensions				Load Rating		AEC Bearing
mm				kN		
d	D	B	r	Dynamic (C)	Static (C <sub>o</sub> )	
400	480	65	2.0	965.0	5600.0	81180
	540	112	4.0	2240.0	11200.0	81280
420	500	65	2.0	980.0	5850.0	81184
	580	130	5.0	2850.0	14000.0	81284
440	540	80	2.1	1430.0	8000.0	81188
	600	130	5.0	2900.0	14600.0	81288
460	560	80	2.1	1460.0	8500.0	81192
	620	130	5.0	3000.0	15300.0	81292
480	580	80	2.1	1460.0	8650.0	81196
	650	135	5.0	3350.0	17000.0	81296
500	600	80	2.1	1530.0	9150.0	811/500
	670	135	5.0	3400.0	17600.0	812/500
530	640	85	3.0	1700.0	10400.0	811/530
	710	140	5.0	3800.0	20000.0	812/530
560	670	85	3.0	1760.0	10800.0	811/560
	750	150	5.0	3900.0	20800.0	812/560
600	710	85	3.0	1760.0	11200.0	811/600
	800	160	5.0	4400.0	24000.0	812/600
630	750	95	3.0	2160.0	13700.0	811/630

# Cylindrical Roller Bearings

Thrust  
Inch Series

**T, AT**



Dimensions				Load Rating		AEC Bearing
inch (mm)				kN		
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )	
1.000	2.125	0.812	0.0315 (0.8)	44.5	38.1	T 601
	2.250	1.062	0.0315 (0.8)	44.5	38.1	AT 601
1.062	2.125	0.812	0.0315 (0.8)	44.5	38.1	T 602
	2.250	1.062	0.0315 (0.8)	44.5	38.1	AT 602
1.125	2.250	0.812	0.0315 (0.8)	51.2	52.1	T 603
	2.375	1.062	0.0315 (0.8)	51.2	52.1	AT 603
1.187	2.250	0.812	0.0315 (0.8)	51.2	52.1	T 604
	2.375	1.062	0.0315 (0.8)	51.2	52.1	AT 604
1.250	2.375	0.812	0.0315 (0.8)	56.5	57.8	T 605
	2.500	1.062	0.0315 (0.8)	56.5	57.8	AT 605
1.312	2.375	0.812	0.0315 (0.8)	56.5	57.8	T 606
	2.500	1.062	0.0315 (0.8)	56.5	57.8	AT 606
1.375	2.875	0.812	0.0315 (0.8)	69.4	96.1	T 607
	3.000	1.062	0.0315 (0.8)	69.4	96.1	AT 607
1.437	2.875	0.812	0.0315 (0.8)	69.4	96.1	T 608
	3.000	1.062	0.0315 (0.8)	69.4	96.1	AT 608
1.500	3.000	0.812	0.0315 (0.8)	75.2	105.0	T 609
	3.125	1.062	0.0315 (0.8)	75.2	105.0	AT 609
1.562	3.000	0.812	0.0315 (0.8)	75.2	105.0	T 610
	3.125	1.062	0.0315 (0.8)	75.2	105.0	AT 610
1.625	3.250	1.000	0.0630 (1.6)	109.0	136.0	T 611
	3.375	1.312	0.0630 (1.6)	109.0	136.0	AT 611
1.687	3.250	1.000	0.0630 (1.6)	109.0	136.0	T 612
	3.375	1.312	0.0630 (1.6)	109.0	136.0	AT 612
1.750	3.375	1.000	0.0630 (1.6)	118.5	150.0	T 613
	3.500	1.312	0.0630 (1.6)	118.5	150.0	AT 613
1.812	3.375	1.000	0.0630 (1.6)	118.5	150.0	T 614
	3.500	1.312	0.0630 (1.6)	118.5	150.0	AT 614
1.875	3.500	1.000	0.0630 (1.6)	118.5	150.0	T 615
	3.625	1.312	0.0630 (1.6)	118.5	150.0	AT 615
1.937	3.500	1.000	0.0630 (1.6)	118.5	150.0	T 616
	3.625	1.312	0.0630 (1.6)	118.5	150.0	AT 616



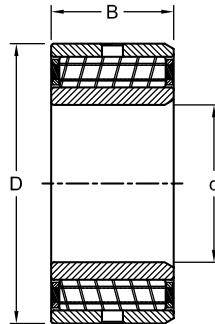
Dimensions				Load Rating		AEC Bearing
inch (mm)				kN		
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )	
2.000	3.625	1.000	0.0630 (1.6)	118.5	150.0	T 617
	3.750	1.312	0.0630 (1.6)	118.5	150.0	AT 617
2.125	3.750	1.000	0.0630 (1.6)	128.0	164.0	T 618
	3.875	1.312	0.0630 (1.6)	128.0	164.0	AT 618
2.250	3.875	1.000	0.0630 (1.6)	137.0	178.0	T 619
	4.000	1.312	0.0630 (1.6)	137.0	178.0	AT 619
2.375	4.000	1.000	0.0630 (1.6)	142.0	178.0	T 620
	4.125	1.312	0.0630 (1.6)	142.0	178.0	AT 620
2.500	4.125	1.000	0.0630 (1.6)	148.0	191.0	T 621
	4.250	1.312	0.0630 (1.6)	148.0	191.0	AT 621
2.625	4.343	1.000	0.0630 (1.6)	165.0	205.0	T 622
	4.530	1.312	0.0630 (1.6)	165.0	205.0	AT 622
2.750	4.468	1.000	0.0630 (1.6)	144.0	218.0	T 623
	4.655	1.312	0.0630 (1.6)	144.0	218.0	AT 623
3.000	4.718	1.000	0.0630 (1.6)	178.0	232.0	T 624
	4.968	1.312	0.0630 (1.6)	178.0	232.0	AT 624
3.250	4.968	1.000	0.0630 (1.6)	174.0	232.0	T 625
	5.218	1.312	0.0630 (1.6)	174.0	232.0	AT 625
3.500	5.218	1.000	0.0630 (1.6)	183.0	245.0	T 626
	5.468	1.312	0.0630 (1.6)	183.0	245.0	AT 626

# Flexible Roller Bearings

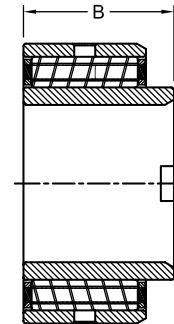


Metric Series

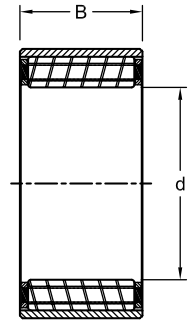
**FLW**



FLW



15000



45000

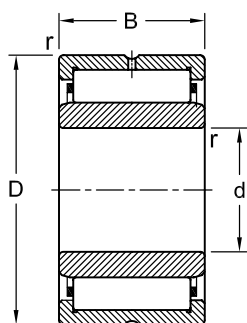
Dimensions mm			Load Rating kN		AEC Bearing
d	D	B	Dynamic (C)	Static (C <sub>0</sub> )	
50	90	44	180.4	449.9	FLW 50
55	102	75	268.5	506.0	45211
	102	100	345.8	700.5	45511
60	110	49	249.6	627.3	FLW 60
75	130	67	363.7	1047.7	FLW 75
90	160	70	507.9	1386.7	FLW 90
100	180	82	632.7	1733.5	FLW 100
120	215	98	861.0	2515.9	FLW 120
130	230	110	1024.7	2946.3	FLW 130
	230	160	1024.7	2946.3	15826
140	250	120	1207.6	3735.6	FLW 140
160	290	124	1450.7	4234.5	FLW 160
180	320	149	1853.1	5601.4	FLW 180
200	340	175	2181.1	7069.0	FLW 200
	340	240	2181.1	7069.0	15740

# Needle Roller Bearings

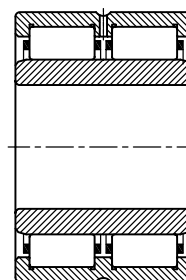


Metric Series

**NA, NKI, NKIS**



NA 49/NKI/NKIS



NA 69

Dimensions				Load Rating		AEC Bearing
mm				kN		
d	D	B	r	Dynamic (C)	Static (C <sub>o</sub> )	
10	22	14	0.3	8.5	13.9	NA 4900
	22	16	0.3	10.1	11.5	NKI 10/16
	22	20	0.3	12.8	15.6	NKI 10/20
	28	16	0.6	15.7	15.8	NKIS 10
12	24	13	0.3	9.4	10.9	NA 4901
	24	16	0.3	11.3	13.9	NKI 12/16
	24	20	0.3	14.4	18.8	NKI 12/20
	24	22	0.3	16.0	21.6	NA 6901
	30	16	0.6	16.8	17.7	NKIS 12
15	27	16	0.3	13.0	17.4	NKI 15/16
	27	20	0.3	16.5	23.6	NKI 15/20
	28	13	0.3	10.6	13.6	NA 4902
	28	23	0.3	17.3	25.5	NA 6902
	35	20	0.6	24.5	28.0	NKIS 15
17	29	16	0.3	13.5	18.7	NKI 17/16
	29	20	0.3	17.1	25.5	NKI 17/20
	30	13	0.3	11.0	14.6	NA 4903
	30	23	0.3	18.6	29.0	NA 6903
	37	20	0.6	26.0	31.0	NKIS 17
20	32	16	0.3	15.0	22.3	NKI 20/16
	32	20	0.3	19.0	30.5	NKI 20/20
	37	17	0.3	21.0	25.5	NA 4904
	37	30	0.3	36.0	51.0	NA 6904
	42	20	0.6	28.5	36.5	NKIS 20
22	34	16	0.3	15.3	23.6	NKI 22/16
	34	20	0.3	19.4	32.0	NKI 22/20
25	38	20	0.3	21.9	34.0	NKI 25/20
	38	30	0.3	32.5	57.0	NKI 25/30
	42	17	0.3	23.6	31.5	NA 4905
	42	30	0.3	39.0	59.0	NA 6905
	47	22	0.6	33.5	43.5	NKIS 25
28	42	20	0.3	23.1	37.5	NKI 28/20

Dimensions				Load Rating		AEC Bearing
mm				kN		
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )	
30	42	30	0.3	34.5	63.0	NKI 28/30
	45	20	0.3	24.3	41.5	NKI 30/20
	45	30	0.3	36.5	69.0	NKI 30/30
	47	17	0.3	25.0	35.5	NA 4906
	47	17	0.3	43.5	71.0	NA 6906
32	52	22	0.6	36.5	50.0	NKIS 30
	47	20	0.3	24.9	43.5	NKI 32/20
	47	30	0.3	37.0	73.0	NKI 32/30
35	50	20	0.3	26.0	47.0	NKI 35/20
	50	30	0.3	39.0	79.0	NKI 35/30
	55	20	0.6	31.5	50.0	NA 4907
38	55	36	0.6	48.0	86.0	NA 6907
	58	22	0.6	39.0	57.0	NKIS 35
	53	20	0.3	27.0	51.0	NKI 38/20
	53	30	0.3	40.5	85.0	NKI 38/30
	55	20	0.3	27.5	53.0	NKI 40/20
40	55	30	0.3	41.0	88.0	NKI 40/30
	62	22	0.6	43.0	67.0	NA 4908
	62	40	0.6	66.0	116.0	NA 6908
	65	22	1.0	42.5	67.0	NKIS 40
	57	20	0.3	28.5	56.0	NKI 42/20
42	57	30	0.3	43.0	94.0	NKI 42/30
	62	25	0.6	38.0	74.0	NKI 45/25
	62	35	0.6	50.0	106.0	NKI 45/35
45	68	22	0.6	45.0	73.0	NA 4909
	68	40	0.6	69.0	127.0	NA 6909
	72	22	1.0	45.0	740.0	NKIS 45
	68	25	0.6	40.0	82.0	NKI 50/25
	68	35	0.6	53.0	118.0	NKI 50/35
50	72	22	0.6	47.0	80.0	NA 4910
	72	40	0.6	73.0	139.0	NA 6910
	80	28	1.1	63.0	98.0	NKIS 50
55	72	25	0.6	42.0	90.0	NKI 55/25
	72	35	0.6	56.0	130.0	NKI 55/35
	80	25	1.0	58.0	100.0	NA 4911
60	80	45	1.0	90.0	176.0	NA 6911
	85	28	1.1	67.0	108.0	NKIS 55
	82	25	0.6	43.5	89.0	NKI 60/25
	82	35	0.6	62.0	139.0	NKI 60/35
	85	25	1.0	60.0	108.0	NA 4912
65	85	45	1.0	94.0	191.0	NA 6912
	90	28	1.1	68.0	113.0	NKIS 60
	90	25	1.0	53.0	100.0	NKI 65/25
	90	25	1.0	61.0	112.0	NA 4913
	90	35	1.0	75.0	156.0	NKI 65/35
65	90	45	1.0	95.0	198.0	NA 6913
	95	28	1.1	71.0	123.0	NKIS 65
70	95	25	1.0	56.0	119.0	NKI 70/25

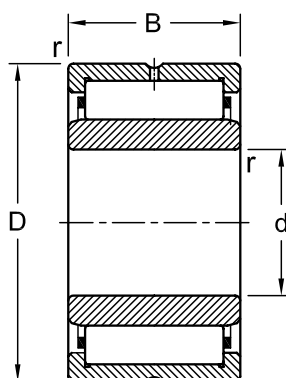
Dimensions				Load Rating		AEC Bearing
mm				kN		
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )	
75	95	35	1.0	78.0	184.0	NKI 70/35
	100	30	1.0	84.0	156.0	NA 4914
	100	54	1.0	128.0	265.0	NA 6914
	100	28	1.1	75.0	133.0	NKIS 70
	105	25	1.0	69.0	123.0	NKI 75/25
	105	30	1.0	86.0	162.0	NA 4915
	105	35	1.0	98.0	193.0	NKI 75/35
	105	54	1.0	130.0	275.0	NA 6915
80	110	25	1.0	72.0	132.0	NKI 80/25
	110	30	1.0	89.0	174.0	NA 4916
	110	35	1.0	103.0	208.0	NKI 80/35
	110	54	1.0	135.0	300.0	NA 6916
85	115	26	1.0	73.0	137.0	NKI 85/26
	115	36	1.0	107.0	223.0	NKI 85/36
	120	35	1.1	111.0	237.0	NA 4917
	120	63	1.1	166.0	400.0	NA 6917
90	120	26	1.0	76.0	146.0	NKI 90/26
	120	36	1.0	111.0	237.0	NKI 90/36
	125	35	1.1	114.0	250.0	NA 4918
	125	63	1.1	172.0	425.0	NA 6918
95	125	26	1.0	78.0	155.0	NKI 95/26
	125	36	1.0	114.0	250.0	NKI 95/36
95	130	35	1.1	116.0	260.0	NA 4919
	130	63	1.1	174.0	440.0	NA 6919
100	130	30	1.1	98.0	210.0	NKI 100/30
	130	40	1.1	127.0	290.0	NKI 100/40
	140	40	1.1	128.0	270.0	NA 4920
110	140	40	1.1	113.0	275.0	NKI 110/40
	150	40	1.1	132.0	290.0	NA 4922
120	165	45	1.1	181.0	390.0	NA 4924
130	180	50	1.5	203.0	470.0	NA 4926
140	180	32	1.5	114.0	260.0	NKI 140/32
	190	50	1.5	209.0	500.0	NA 4928

# Needle Roller Bearings



Inch Series

**AB/LRB**



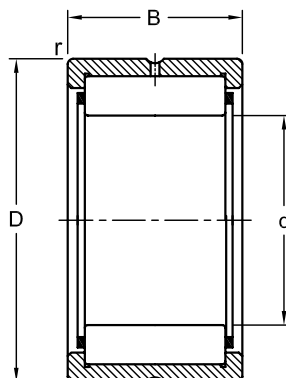
Dimensions				Load Rating		AEC Bearing
inch (mm)				kN		
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )	
0.3750	1.1250	0.7500	0.0236 (0.6)	16.2	19.1	AB 1012/LRB 61012
0.5000	1.2500	0.7500	0.0394 (1.0)	18.7	24.0	AB 1212/LRB 81212
	1.2500	1.0000	0.0394 (1.0)	25.6	36.0	AB 1216/LRB 81216
0.6250	1.3750	0.7500	0.0394 (1.0)	19.8	26.7	AB 1412/LRB 101412
	1.3750	1.0000	0.0394 (1.0)	27.1	40.0	AB 1416LRB 101416
0.7500	1.5000	0.7500	0.0394 (1.0)	21.8	31.6	AB 1612/LRB 121612
	1.5000	1.0000	0.0394 (1.0)	30.0	47.2	AB 1616/LRB 121616
0.8750	1.6250	1.0000	0.0394 (1.0)	31.1	29.8	AB 1816/LRB 141816
	1.6250	1.2500	0.0394 (1.0)	40.7	72.5	AB 1820/LRB 141820
1.0000	1.7500	0.7500	0.0394 (1.0)	25.3	0.0	AB 2012/LRB 162012
	1.7500	1.0000	0.0394 (1.0)	33.6	58.3	AB 2016/LRB 162016
	1.7500	1.2500	0.0394 (1.0)	42.1	77.9	AB 2020/LRB 162020
1.1250	1.8750	1.0000	0.0394 (1.0)	36.0	65.4	AB 2216/LRB 182216
	1.8750	1.2500	0.0394 (1.0)	45.2	87.7	AB 2220/LRB 182220
1.2500	2.0625	1.0000	0.0594 (1.5)	38.5	69.0	AB 2416/LRB 202416
	2.0625	1.2500	0.0594 (1.5)	48.5	92.6	AB 2420/LRB 202420
1.3125	2.1875	1.0000	0.0594 (1.5)	39.4	73.0	AB 2616/LRB 222616
1.3750	2.1875	1.2500	0.0594 (1.5)	49.8	98.3	AB 2620/LRB 222620
1.5000	2.3125	1.0000	0.0594 (1.5)	41.8	80.5	AB 2816/LRB 242816
	2.3125	1.2500	0.0594 (1.5)	52.7	108.6	AB 2820/LRB 242820
1.5625	2.4375	1.0000	0.0594 (1.5)	42.9	84.6	AB 3016/LRB 253016
	2.4375	1.2500	0.0594 (1.5)	54.1	113.9	AB 3020/LRB 253020
1.6250	2.5000	1.2500	0.0594 (1.5)	56.1	160.9	AB 3120/LRB 263120
1.6875	2.5625	1.0000	0.0594 (1.5)	45.2	92.1	AB 3216/LRB 273216
	2.5625	1.2500	0.0594 (1.5)	56.7	124.2	AB 3220/LRB 273220
1.7500	3.0000	1.5000	0.0594 (1.5)	83.9	174.0	AB 3624/LRB 283624
2.0000	3.2500	1.5000	0.0787 (2.0)	87.9	191.0	AB 4024/LRB 324024
2.1875	3.5000	1.7500	0.0787 (2.0)	102.7	315.6	HJ 445628/IR 354428
2.2500	3.5000	1.5000	0.0787 (2.0)	92.1	207.8	AB 4424/LRB 364424
2.5000	3.7500	1.5000	0.0787 (2.0)	98.3	232.7	AB 4824/LRB 404824
2.7500	4.2500	1.7500	0.0787 (2.0)	130.8	286.6	AB 5228/LRB 445228
	4.2500	2.0000	0.0787 (2.0)	155.0	310.0	AB 5232/LRB 445232

Dimensions				Load Rating		AEC Bearing
inch (mm)				kN		
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )	
3.0000	4.5000	2.0000	0.0787 (2.0)	156.6	371.6	AB 5632/LRB 485632

# Needle Roller Bearings

Without Inner Ring  
Metric Series

**NK, NKS, RNA**



Dimensions				Load Rating		AEC Bearing
mm				kN		
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )	
14	22	14	0.3	8.5	9.2	RNA 4900
	22	16	0.3	10.1	11.5	NK 14/16
	22	20	0.3	12.8	15.6	NK 14/20
15	23	16	0.3	10.7	12.7	NK 15/16
	23	20	0.3	13.6	17.2	NK 15/20
16	24	13	0.3	9.4	10.9	RNA 4901
	24	16	0.3	11.3	13.9	NK 16/16
	24	20	0.3	14.4	18.8	NK 16/20
	24	22	0.3	16.0	21.6	RNA 6901
17	25	16	0.3	11.9	15.0	NK 17/16
	25	20	0.3	15.1	20.4	NK 17/20
18	26	16	0.3	12.5	16.2	NK 18/16
	26	20	0.3	15.8	22.0	NK 18/20
19	27	16	0.3	13.0	17.4	NK 19/16
	27	20	0.3	16.5	23.6	NK 19/20
20	28	13	0.3	10.6	13.6	RNA 4902
	28	16	0.3	13.0	17.5	NK 20/16
	28	20	0.3	16.4	23.8	NK 20/20
	28	23	0.3	17.3	25.5	RNA 6902
21	29	16	0.3	13.5	18.7	NK 21/16
	29	20	0.3	17.1	25.5	NK 21/20
22	30	13	0.3	11.0	14.6	RNA 4903
	30	16	0.3	14.0	19.9	NK 22/16
	30	20	0.3	17.7	27.0	NK 22/20
	30	23	0.3	18.6	29.0	RNA 6903
24	32	16	0.3	15.0	22.3	NK 24/16
	32	20	0.3	19.0	30.5	NK 24/20
	37	20	0.6	26.0	31.0	NKS 24
25	33	16	0.3	14.9	22.4	NK 25/16
	33	20	0.3	18.8	30.5	NK 25/20
	37	17	0.3	21	25.5	RNA 4904
	37	30	0.3	36.0	51.0	RNA 6904



Dimensions				Load Rating		AEC Bearing
mm				kN		
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )	
26	38	20	0.6	27.5	33.5	NKS 25
	34	16	0.3	15.3	23.6	NK 26/16
	34	20	0.3	19.4	32.0	NK 26/20
28	37	20	0.3	22.0	34.0	NK 28/20
	37	30	0.3	33.0	57.0	NK 28/30
	42	20	0.6	28.5	36.5	NKS 28
29	38	20	0.3	21.9	34.0	NK 29/20
	38	30	0.3	32.5	57.0	NK 29/30
	40	20	0.3	22.6	36.0	NK 30/20
30	40	30	0.3	33.5	60.0	NK 30/30
	42	17	0.3	23.6	31.5	RNA 4905
	42	30	0.3	39.0	59.0	RNA 6905
32	45	22	0.6	32.0	40.0	NKS 30
	42	20	0.3	23.1	37.5	NK 32/20
	42	30	0.3	34.5	63.0	NK 32/30
35	45	17	0.3	24.4	33.5	RNA 49/28
	45	30	0.3	40.5	63.0	RNA 69/28
	47	22	0.6	33.5	43.5	NKS 32
37	45	20	0.3	24.3	41.5	NK 35/20
	45	30	0.3	36.5	69.0	NK 35/30
	47	17	0.3	25.0	35.5	RNA 4906
38	47	30	0.3	43.5	71.0	RNA 6906
	50	22	0.6	35.0	47.0	NKS 35
	47	20	0.3	24.9	43.5	NK 37/20
40	47	30	0.3	37.0	73.0	NK 37/30
	52	22	0.6	36.5	50.0	NKS 37
	48	20	0.3	25.5	45.0	NK 38/20
42	48	30	0.3	38.0	76.0	NK 38/30
	50	20	0.3	26.0	47.0	NK 40/20
	50	30	0.3	39.0	79.0	NK 40/30
43	52	20	0.6	30.5	47.5	RNA 49/32
	52	36	0.6	47.0	82.0	RNA 69/32
	55	22	0.6	38.0	54.0	NKS 40
45	52	20	0.3	26.5	49.0	NK 42/20
	52	30	0.3	39.5	82.0	NK 42/30
	55	20	0.6	31.5	50.0	RNA 4907
47	55	36	0.6	48.0	86.0	RNA 6907
	53	20	0.3	27.0	51.0	NK 43/20
	53	30	0.3	40.5	85.0	NK 43/30
48	58	22	0.6	39.0	57.0	NKS 43
	55	20	0.3	27.5	53.0	NK 45/20
	55	30	0.3	41.0	88.0	NK 45/30
50	60	22	0.6	40.5	60.0	NKS 45
	57	20	0.3	28.5	56.0	NK 47/20
	57	30	0.3	43.0	94.0	NK 47/30
50	62	22	0.6	43.0	67.0	RNA 4908
	62	40	0.6	66.0	116.0	RNA 6908
	65	22	1.0	42.5	67.0	NKS 50

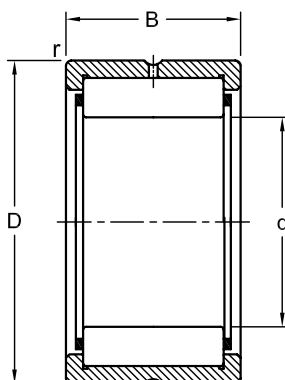
Dimensions				Load Rating		AEC Bearing
mm				kN		
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )	
52	62	25	0.6	38.0	74.0	NK 50/25
	62	35	0.6	50.0	106.0	NK 50/35
	68	22	0.6	38.5	38.0	RNA 4909
	68	40	0.6	69.0	127.0	RNA 6909
55	68	25	0.6	40.0	82.0	NK 55/25
	68	35	0.6	53.0	118.0	NK 55/35
58	72	22	1.0	45.0	74.0	NKS 55
	72	22	0.6	47.0	80.0	RNA 4910
	72	40	0.6	73.0	139.0	RNA 6910
60	72	25	0.6	42.0	90.0	NK 60/25
	72	35	0.6	56.0	130.0	NK 60/35
63	80	28	1.1	63	98	NKS 60
	80	25	1.0	58.0	100.0	RNA 4911
	80	45	1.0	90.0	176.0	RNA 6911
65	78	25	0.6	44.0	98.0	NK 65/25
	78	35	0.6	59.0	142.0	NK 65/35
68	85	28	1.1	67.0	108.0	NKS 65
	82	25	0.6	43.5	59.0	NK 68/25
	82	35	0.6	62.0	139.0	NK 68/35
68	85	25	1.0	60.0	108.0	RNA 4912
	85	45	1.0	94.0	191.0	RNA 6912
70	85	25	0.6	44.5	92.0	NK 70/25
	85	35	0.6	63	144	NK 70/35
72	90	28	1.1	68.0	113.0	NKS 70
	90	25	1.0	61.0	112.0	RNA 4913
	90	45	1.0	95.0	198.0	RNA 6913
73	90	25	1.0	53.0	100.0	NK 73/25
	90	35	1.0	75	156	NK 73/35
75	92	25	1.0	54.0	104.0	NK 75/25
	92	35	1.0	77.0	162.0	NK 75/35
80	95	28	1.1	71.0	123.0	NKS 75
	95	25	1.0	56.0	119.0	NK 80/25
	95	35	1.0	78.0	184.0	NK 80/35
	100	28	1.1	75.0	133.0	NKS 80
85	100	30	1.0	84.0	156.0	RNA 4914
	100	54	1.0	128.0	265.0	RNA 6914
	105	25	1.0	69.0	123.0	NK 85/25
	105	30	1.0	86.0	162.0	RNA 4915
	105	35	1.0	98.0	193.0	NK 85/35
	105	54	1.0	130.0	275.0	RNA 6915
90	110	25	1.0	72.0	132.0	NK 90/25
	110	35	1.0	89.0	174.0	RNA 4916
	110	35	1.0	103.0	208.0	NK 90/35
95	110	54	1.0	135.0	300.0	RNA 6916
	115	26	1.0	73.0	137.0	NK 95/26
	115	35	1.0	107.0	223.0	NK 95/36
100	120	26	1.0	76.0	146.0	NK 100/26
	120	35	1.1	111.0	124.0	RNA 4917

Dimensions				Load Rating		AEC Bearing
mm				kN		
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )	
105	120	36	1.0	111.0	237.0	NK 100/36
	120	63	1.1	166.0	400.0	RNA 6917
	125	26	1.0	78.0	155.0	NK 105/26
	125	35	1.1	114.0	250.0	RNA 4918
	125	36	1.0	114.0	250.0	NK 105/36
110	125	63	1.1	172.0	425.0	RNA 6918
	130	30	1.1	98.0	210.0	NK 110/30
	130	35	1.1	116.0	260.0	RNA 4919
	130	40	1.1	127.0	290.0	NK 110/40
	130	63	1.1	174.0	440.0	RNA 6919
115	135	32	1.1	91.0	204.0	NKS 115
	140	40	1.1	128.0	270.0	RNA 4920
125	150	40	1.1	132.0	29.0	RNA 4922
135	165	45	1.1	181.0	390.0	RNA 4924
150	180	50	1.5	203.0	470.0	RNA 4926
160	190	50	1.5	209.0	500.0	RNA 4928

# Needle Roller Bearings

Without Inner Ring  
Inch Series

MR



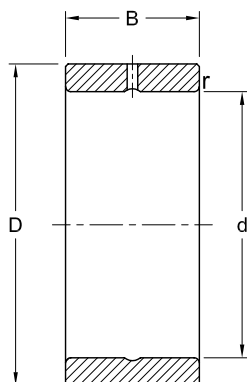
Dimensions				Load Rating		AEC Bearing
inch (mm)				kN		
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )	
0.6250	1.1250	0.7500	0.0236 (0.6)	16.2	19.1	MR 10 N
	1.1250	1.0000	0.0236 (0.6)	22.3	28.9	MR 10
0.7500	1.2500	0.7500	0.0394 (1.0)	18.7	24.0	MR 12 N
	1.2500	1.0000	0.0394 (1.0)	25.6	36.0	MR 12
0.8750	1.3750	0.7500	0.0394 (1.0)	19.8	26.7	MR 14 N
	1.3750	1.0000	0.0394 (1.0)	27.1	40.0	MR 14
1.0000	1.5000	0.7500	0.0394 (1.0)	21.8	31.6	MR 16 N
	1.5000	1.0000	0.0394 (1.0)	30.0	47.2	MR 16
1.1250	1.6250	1.0000	0.0394 (1.0)	32.5	54.3	MR 18 N
	1.6250	1.2500	0.0394 (1.0)	40.7	72.5	MR 18
1.2500	1.7500	1.0000	0.0394 (1.0)	33.6	58.3	MR 20 N
	1.7500	1.2500	0.0394 (1.0)	42.1	77.9	MR 20
1.3750	1.8750	1.0000	0.0394 (1.0)	36.0	65.4	MR 22 N
	1.8750	1.2500	0.0394 (1.0)	45.2	87.7	MR 22
1.5000	2.0625	1.5000	0.0591 (1.5)	38.5	69.0	MR 24 N
	2.0625	1.2500	0.0591 (1.5)	48.5	92.6	MR 24
1.6250	2.1875	1.0000	0.0591 (1.5)	39.4	73.0	MR 26 N
	2.1875	1.2500	0.0591 (1.5)	49.8	98.3	MR 26
1.7500	2.3125	1.0000	0.0591 (1.5)	41.8	80.5	MR 28 N
	2.3125	1.2500	0.0591 (1.5)	52.7	108.6	MR 28
1.8750	2.4375	1.0000	0.0591 (1.5)	42.9	84.6	MR 30 N
	2.4375	1.2500	0.0591 (1.5)	54.1	113.9	MR 30
1.9375	2.5000	1.2500	0.0591 (1.5)	49.8	112.1	MR 31
2.0000	2.5625	1.0000	0.0591 (1.5)	45.2	92.1	MR 32 N
	2.5625	1.2500	0.0591 (1.5)	56.7	124.2	MR 32
2.2500	3.0000	1.5000	0.0591 (1.5)	83.9	174.0	MR 36 N
	3.0000	1.7500	0.0591 (1.5)	97.5	211.0	MR 36
2.5000	3.2500	1.5000	0.0787 (2.0)	87.9	191.0	MR 40 N
	3.2500	1.7500	0.0787 (2.0)	102.0	231.8	MR 40
2.7500	3.5000	1.5000	0.0787 (2.0)	92.1	207.8	MR 44 N
	3.5000	1.7500	0.0787 (2.0)	107.0	252.3	MR 44
3.0000	3.7500	1.5000	0.0787 (2.0)	98.3	232.7	MR 48 N

Dimensions				Load Rating		AEC Bearing
inch (mm)				kN		
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )	
	3.7500	1.7500	0.0787 (2.0)	114.1	282.1	MR 48
3.2500	4.2520	1.7500	0.0787 (2.0)	130.8	286.6	MR 52
3.5000	4.5000	1.7500	0.0787 (2.0)	137.0	318.6	MR 56 N
	4.5000	2.0000	0.0787 (2.0)	156.6	371.6	MR 56
3.7500	4.7500	2.0000	0.0984 (2.5)	159.7	387.6	MR 60
4.0000	5.0000	2.0000	0.0984 (2.5)	165.5	417.4	MR 64
4.2500	5.2500	2.0000	0.0984 (2.5)	171.8	449.5	MR 68
4.5000	6.0000	2.2500	0.0984 (2.5)	257.7	578.5	MR 72
5.0000	6.5000	2.2500	0.0984 (2.5)	277.2	672.0	MR 80
5.5000	7.0000	2.5000	0.0984 (2.5)	286.1	755.6	MR 88 N
	7.0000	3.0000	0.0984 (2.5)	368.0	987.9	MR 88
6.0000	7.5000	2.5000	0.1181 (3.0)	313.3	787.7	MR 96 N
	7.5000	3.0000	0.1181 (3.0)	373.8	992.4	MR 96
6.5000	8.0000	2.5000	0.1181 (3.0)	316.4	814.4	MR 104 N
	8.0000	3.0000	0.1181 (3.0)	378.3	1028.0	MR 104
7.2500	9.1250	3.0000	0.1181 (3.0)	451.7	1108.0	MR 116
7.7500	9.6250	3.0000	0.1181 (3.0)	458.4	1192.6	MR 124
8.2500	10.1250	3.0000	0.1181 (3.0)	476.2	1278.0	MR 132
8.7500	10.6250	3.0000	0.1575 (4.0)	489.5	1361.7	MR 140
9.2500	11.1250	3.0000	0.1575 (4.0)	502.3	1446.2	MR 148

# Needle Roller Bearings

Inner Ring  
Inch Series

MI



Dimensions				AEC Bearing
inch (mm)				
d	D	B	r	
0.3750	0.6245	0.7600	0.0236 (0.6)	MI 6 N
	0.6245	1.0100	0.0236 (0.6)	MI 6
0.4375	0.6245	0.7600	0.0236 (0.6)	MI 7 N
	0.7493	0.7600	0.0394 (1.0)	MI 8 N
	0.7493	1.0100	0.0394 (1.0)	MI 8
0.5625	0.7493	0.7600	0.0394 (1.0)	MI 9 N
0.6250	0.8743	0.7600	0.0394 (1.0)	MI 10 N
	0.8743	1.0100	0.0394 (1.0)	MI 10
0.6875	0.8743	0.7600	0.0394 (1.0)	MI 11 N
0.7500	0.9993	0.7600	0.0394 (1.0)	MI 12 N
	0.9993	1.0100	0.0394 (1.0)	MI 12
0.8125	0.9993	0.7600	0.0394 (1.0)	MI 13 N
	0.9993	1.0100	0.0394 (1.0)	MI 13
0.8750	1.1241	1.0100	0.0394 (1.0)	MI 14 N
	1.1241	1.2600	0.0394 (1.0)	MI 14
0.9375	1.1241	1.0100	0.0394 (1.0)	MI 15 N
	1.1241	1.2600	0.0394 (1.0)	MI 15
1.0000	1.2491	1.2600	0.0394 (1.0)	MI 16
	1.2491	1.2600	0.0394 (1.0)	MI 16 N
1.0625	1.3741	1.2600	0.0394 (1.0)	MI 17
1.1250	1.3741	1.0100	0.0394 (1.0)	MI 18 N
	1.3741	1.2600	0.0394 (1.0)	MI 18
1.1875	1.4990	1.2600	0.0591 (1.5)	MI 19
1.2500	1.4990	1.0100	0.0591 (1.5)	MI 20 N
	1.4990	1.2600	0.0591 (1.5)	MI 20
1.3125	1.6240	1.0100	0.0591 (1.5)	MI 21 N
	1.6240	1.2600	0.0591 (1.5)	MI 21
1.3750	1.6240	1.2600	0.0591 (1.5)	MI 22 4S
	1.7490	1.0100	0.0591 (1.5)	MI 22 N
	1.7490	1.2600	0.0591 (1.5)	MI 22
1.4375	1.7490	1.2600	0.0591 (1.5)	MI 23
1.5000	1.7490	1.0100	0.0591 (1.5)	MI 24 N

Dimensions				AEC Bearing
inch (mm)				
d	D	B	r	
	1.7490	1.2600	0.0591 (1.5)	MI 24
1.5625	1.8740	1.2600	0.0591 (1.5)	MI 25 4S
	1.9989	1.2600	0.0591 (1.5)	MI 25
1.6250	1.9364	1.2600	0.0591 (1.5)	MI 26 2S
	1.9989	1.0100	0.0591 (1.5)	MI 26 N
	1.9989	1.2600	0.0591 (1.5)	MI 26
1.6875	1.9989	1.2600	0.0591 (1.5)	MI 27
1.7500	2.2489	1.5100	0.0591 (1.5)	MI 28 N
	2.2489	1.7600	0.0591 (1.5)	MI 28
1.8750	2.2489	1.7600	0.0591 (1.5)	MI 30
1.9375	2.4989	1.7600	0.0787 (2.0)	MI 31
2.0000	2.4989	1.5100	0.0787 (2.0)	MI 32 N
	2.4989	1.7600	0.0787 (2.0)	MI 32
2.1250	2.4989	1.7600	0.0787 (2.0)	MI 34
2.1875	2.7489	1.7600	0.0787 (2.0)	MI 35
2.2500	2.7489	1.5100	0.0787 (2.0)	MI 36 N
	2.7489	1.7600	0.0787 (2.0)	MI 36
2.3750	2.9989	1.7600	0.0787 (2.0)	MI 38
2.4375	2.9989	1.7600	0.0787 (2.0)	MI 39
2.5000	2.9989	1.5100	0.0787 (2.0)	MI 40 N
	2.9989	1.7600	0.0787 (2.0)	MI 40
2.6250	3.2487	1.7600	0.0787 (2.0)	MI 42
2.7500	3.2487	1.7600	0.0787 (2.0)	MI 44
2.8750	3.4987	2.0100	0.0787 (2.0)	MI 46
2.9375	3.4987	2.0100	0.0787 (2.0)	MI 47
3.0000	3.4987	1.7600	0.0787 (2.0)	MI 48 N
	3.4987	2.0100	0.0787 (2.0)	MI 48
3.1250	3.7487	2.0100	0.0984 (2.5)	MI 50
3.2500	3.7487	2.0100	0.0984 (2.5)	MI 52
3.3758	3.9984	2.0100	0.0984 (2.5)	MI 54
3.5000	3.9985	2.0100	0.0984 (2.5)	MI 56
3.6250	4.2485	2.0100	0.0984 (2.5)	MI 58
3.7500	4.2485	2.0100	0.0984 (2.5)	MI 60
3.8750	4.4985	2.2600	0.0984 (2.5)	MI 62
4.0000	4.9985	2.2600	0.0984 (2.5)	MI 64
4.2500	4.9985	2.2600	0.0984 (2.5)	MI 68
4.5000	5.4985	2.5150	0.0984 (2.5)	MI 72 N
	5.4985	3.0150	0.0984 (2.5)	MI 72
4.7500	5.4985	3.0150	0.0984 (2.5)	MI 76
5.0000	5.9983	2.5150	0.1181 (3.0)	MI 80 N
	5.9983	3.0150	0.1181 (3.0)	MI 80
5.2500	5.9983	3.0150	0.1181 (3.0)	MI 84
5.5000	6.4983	2.5150	0.1181 (3.0)	MI 88 N
	6.4983	3.0150	0.1181 (3.0)	MI 88
5.7500	6.4983	3.0150	0.1181 (3.0)	MI 92
6.0000	7.2481	3.0150	0.1181 (3.0)	MI 96
6.5000	7.7481	3.0150	0.1181 (3.0)	MI 104
7.0000	8.2481	3.0150	0.1181 (3.0)	MI 112

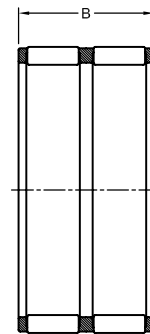
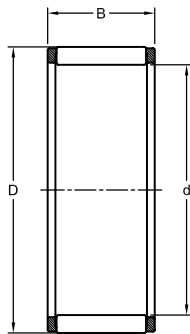
Dimensions				AEC Bearing
inch (mm)				
d	D	B	r	
7.5000	8.7480	3.0150	0.1575 (4.0)	MI 120
8.0000	9.2480	3.0150	0.1575 (4.0)	MI 128



# Needle Roller Bearings

Cage Assemblies  
Metric Series

AB



390000, 600000

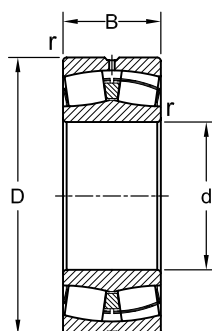
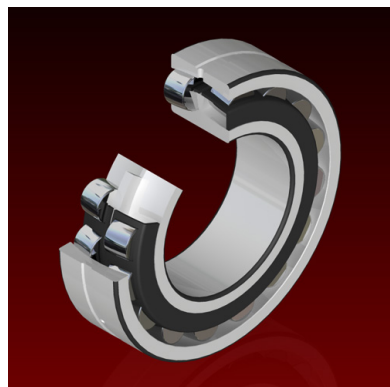
Dimensions			Load Rating		AEC Bearing
mm			kN		
d	D	B	Dynamic (C)	Static (C <sub>0</sub> )	
15.0	25	18	19.2	28.1	AB 27319
16.0	21	22	14.1	28.3	AB 162122
20.0	27	30	26.8	55.9	AB 202730
	28	20	20.6	36.7	AB 202820
24.0	36	24	32.5	54.1	AB 243624
25.0	33	24	28.0	57.4	AB 253324
	35	30	41.2	82.4	AB 2025
	35	24	34.7	66.3	AB 253524
25.33	34.887	22.22	29.8	56.4	AB 2535
26.0	40	26	47.0	81.1	AB 2028
28.0	44	24	44.0	70.1	AB 284424
	48	23.8	54.8	83.0	AB 7050
30.0	37	20	25.9	60.8	AB 303720
	40	29.8	51.3	115.0	AB 304030
30.0	42	30	47.7	92.9	AB 2030
32.0	52.012	49	126.2	246.7	AB 325249
	52	31	73.6	123.4	AB 325231
35.0	40	18	18.9	52.6	AB 354018
	40	23	25.7	77.6	AB 354023
39.0	44	26	25.7	81.5	AB 394426
40.0	45	21	24.5	77.0	AB 404521
42.0	47	27	32.0	109.0	AB 424727
	52	20	40.9	93.8	AB 425220
44.975	49	19	17.6	62.6	AB 454919
50.0	55	30	37.5	141.9	AB 505530
60.0	68	29.8	46.3	145.7	AB 606830
	68	33.8	54.0	177.4	AB 606834

Dimensions			Load Rating		AEC Bearing
mm			kN		
d	D	B	Dynamic (C)	Static (C <sub>0</sub> )	
62.10	68.1	42.1	52.4	204.5	AB 626842
63.66	71.66	38.8	66.6	233.3	AB 637138
65.0	73	30	55.9	186.2	AB 657330
74.0	106	57.9	254.0	541.8	AB 10674 M
782.0	878.0	106.5	3165.3	13212.7	MB 878782/106

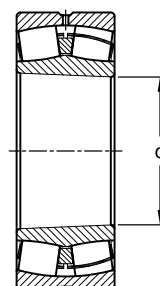
# Spherical Roller Bearings

Radial  
Metric Series

**21, 22, 23, 24**



Cylindrical bore



Tapered bore

Dimensions				Load Rating		AEC Bearing	K12	K30	M
mm				kN					
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )				
20	52	15	1.1	30.5	30.5	21304 CC/W33	●		
25	52	18	1.0	35.7	35.7	22205 CC/W33	●		
	62	17	1.1	41.4	41.5	21305 CC/W33	●		
30	62	20	1.0	48.9	52.0	22206 CC/W33	●		
	72	19	1.1	55.2	61.0	21306 CC/W33	●		
35	72	23	1.1	67.3	73.5	22207 CC/W33	●		
	80	21	1.5	65.6	72.0	21307 CC/W33	●		
	80	31	1.5	89.4	165.4	22307 CC/W33	●		●
40	80	23	1.1	73.6	81.5	22208 CC/W33	●		
	90	23	1.5	82.8	98.0	21308 CC/W33	●		
	90	33	1.5	115.0	122.0	22308 CC/W33	●		●
45	85	23	1.1	77.1	88.0	22209 CC/W33	●		
	100	25	1.5	101.0	114.0	21309 CC/W33	●		
	100	36	1.5	138.0	160.0	22309 CC/W33	●		
50	90	23	1.1	84.5	100.0	22210 CC/W33	●		
	110	27	2.0	120.0	140.0	21310 CC/W33	●		
	110	40	2.0	176.0	200.0	22310 CC/W33	●		
55	100	25	1.5	99.5	118.0	22211 CC/W33	●		
	120	29	2.0	138.0	163.0	21311 CC/W33	●		
	120	43	2.0	199.0	232.0	22311 CC W33	●		
60	110	28	1.5	122.0	146.0	22212 CC/W33	●		
	130	31	2.1	161.0	200.0	21312 CC/W33	●		
	130	46	2.1	235.0	280.0	22312 CC/W33	●		
65	120	31	1.5	148.0	183.0	22213 CC/W33	●		
	140	33	2.1	184.0	240.0	21313 CC/W33	●		
	140	48	2.1	253.0	300.0	22313 CC/W33	●		
70	125	31	1.5	148.0	186.0	22214 CC/W33	●		
	150	35	2.1	207.0	260.0	21314 CC/W33	●		
	150	51	2.1	311.0	380.0	22314 CC/W33	●		
75	130	31	1.5	158.0	208.0	22215 CC/W33	●		
	160	37	2.1	235.0	300.0	21315 CC/W33	●		●
	160	55	2.1	345.0	430.0	22315 CC/W33	●		

Dimensions				Load Rating		AEC Bearing	K12	K30	M
mm				kN					
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )				
80	140	33	2.0	176.0	228.0	22216 CC/W33	•		
	170	39	2.1	258.0	335.0	21316 CC W33	•		•
	170	58	2.1	374.0	455.0	22316 CC/W33	•		
85	150	36	2.0	210.0	270.0	22217 CC/W33	•		
	180	41	3.0	293.0	375.0	21317 CC/W33	•		
	180	60	3.0	420.0	520.0	22317 CC/W33	•		
90	160	40	2.0	253.0	340.0	22218 CC/W33	•		
	160	52	2.0	311.0	440.0	23218 CC/W33	•		
	190	43	3.0	322.0	425.0	21318 CC/W33	•		
	190	64	3.0	477.0	610.0	22318 CC/W33	•		
95	170	43	2.1	282.0	375.0	22219 CC/W33	•		
	200	45	3.0	351.0	480.0	21319 CC/W33	•		
	200	67	3.0	518.0	670.0	22319 CC/W33	•		
100	165	52	2.0	322.0	490.0	23120 CC/W33	•		•
	180	46	2.1	311.0	415.0	22220 CC/W33	•		
	180	60	2.1	414.0	600.0	23220 CC/W33	•		
	215	47	3.0	385.0	530.0	21320 CC/W33	•		
	215	73	3.0	610.0	800.0	22320 CC/W33	•		•
110	170	45	2.0	267.0	440.0	23022 CC/W33	•		
	180	56	2.0	374.0	585.0	23122 CC/W33	•		
	180	69	2.0	460.0	750.0	24122 CC/W33			
	200	53	2.1	408.0	560.0	22222 CC/W33	•		
	200	70	2.1	518.0	765.0	23222 CC/W33	•		
	240	50	3.0	460.0	630.0	21322 CC/W33	•		
	240	80	3.0	725.0	965.0	22322 CC/W33	•		
	180	46	2.0	305.0	510.0	23024 CC/W33	•		
120	180	60	2.0	374.0	670.0	24024 CC/W33		•	•
	200	62	2.0	449.0	695.0	23124 CC/W33	•		
	200	80	2.0	575.0	950.0	24124 CC/W33		•	
	215	58	2.1	466.0	670.0	22224 CC/W33	•		
	215	76	2.1	610.0	930.0	23224 CC/W33	•		
	260	86	3.0	845.0	1120.0	22324 CC/W33	•		
	200	52	2.0	374.0	610.0	23026 CC/W33	•		
	200	69	2.0	477.0	815.0	24026 CC/W33		•	•
130	210	64	2.0	489.0	780.0	23126 CC/W33	•		
	210	80	2.0	587.0	1000.0	24126 CC/W33		•	
	230	64	3.0	546.0	800.0	22226 CC/W33	•		
	230	80	3.0	690.0	1060.0	23226 CC/W33	•		•
	280	93	4.0	978.0	1320.0	22326 CC/W33	•		•
	210	53	2.0	397.0	680.0	23028 CC/W33	•		
	210	69	2.0	495.0	900.0	24028 CC/W33		•	•
	225	68	2.1	546.0	900.0	23128 CC/W33	•		
140	225	85	2.1	673.0	1160.0	24128 CC/W33		•	
	250	68	3.0	610.0	900.0	22228 CC/W33	•		
	250	88	3.0	799.0	1250.0	23228 CC/W33	•		•
	300	102	4.0	1130.0	1560.0	22328 CC/W33	•		
	225	56	2.1	437.0	750.0	23030 CC/W33	•		
	225	75	2.1	564.0	1040.0	24030 CC/W33		•	•

Dimensions				Load Rating		AEC Bearing	K12	K30	M
mm				kN					
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )				
160	250	80	2.1	725.0	1200.0	23130 CC/W33	•		
	250	100	2.1	897.0	1530.0	24130 CC/W33		•	
	270	73	3.0	736.0	1080.0	22230 CC/W33	•		
	270	96	3.0	937.0	1460.0	23230 CC/W33	•		
	320	108	4.0	1270.0	1760.0	22330 CC/W33	•		•
	240	60	2.1	506.0	880.0	23032 CC/W33	•		
	240	80	2.1	656.0	1200.0	24032 CC/W33		•	•
	270	86	2.1	845.0	1370.0	23132 CC/W33	•		
	270	109	2.1	1040.0	1760.0	24132 CC/W33		•	
	290	80	3.0	863.0	1290.0	22232 CC/W33	•		
170	290	104	3.0	1070.0	1660.0	23232 CC/W33	•		
	340	114	4.0	1380.0	1960.0	22332 CC/W33	•		•
	260	67	2.1	621.0	1060.0	23034 CC/W33	•		
	260	90	2.1	799.0	1460.0	24034 CC/W33		•	•
	280	88	2.1	897.0	1500.0	23134 CC/W33	•		
	280	109	2.1	1070.0	1860.0	24134 CC/W33		•	
	310	86	4.0	978.0	1460.0	22234 CC/W33	•		•
	310	110	4.0	1220.0	1930.0	23234 CC/W33	•		
	360	120	4.0	1540.0	2160.0	22334 CC/W33	•		•
	250	52	2.0	431.0	830.0	23936 CC/W33	•		•
180	280	74	2.1	725.0	1250.0	23036 CC/W33	•		
	280	100	2.1	937.0	1730.0	24036 CC/W33		•	•
	300	96	3.0	1050.0	1760.0	23136 CC/W33	•		
	300	118	3.0	1220.0	2160.0	24136 CC/W33		•	
	320	86	4.0	1010.0	1560.0	22236 CC/W33	•		•
	320	112	4.0	1290.0	2120.0	23236 CC/W33	•		•
	380	126	4.0	1730.0	2450.0	22336 CC/W33	•		•
	260	52	2.0	414.0	800.0	23938 CC/W33	•		•
	290	75	2.1	753.0	1340.0	23038 CC/W33	•		•
	290	100	2.1	978.0	1800.0	24038 CC/W33		•	•
190	320	104	3.0	1200.0	2080.0	23138 CC/W33	•		•
	320	128	3.0	1400.0	2500.0	24138 CC/W33		•	•
	340	92	4.0	1110.0	1700.0	22238 CC/W33	•		•
	340	120	4.0	1460.0	2400.0	23238 CC/W33	•		•
	400	132	5.0	1870.0	2650.0	22338 CC/W33	•		•
	280	60	2.1	546.0	1040.0	23940 CC/W33	•		•
	310	82	2.1	880.0	1530.0	23040 CC/W33	•		•
	310	109	2.1	1130.0	2120.0	24040 CC/W33		•	•
	340	112	3.0	1380.0	2360.0	23140 CC/W33	•		•
	340	140	3.0	1580.0	2800.0	24140 CC/W33		•	•
200	360	98	4.0	1270.0	1930.0	22240 CC/W33	•		•
	360	128	4.0	1610.0	2700.0	23240 CC/W33	•		•
	420	138	5.0	2020.0	2900.0	22340 CC/W33	•		•
	300	60	2.1	546.0	1080.0	23944 CC/W33	•		•
	340	90	3.0	1050.0	1860.0	23044 CC/W33	•		•
	340	118	3.0	1360.0	2600.0	24044 CC/W33		•	•
	370	120	4.0	1580.0	2750.0	23144 CC/W33	•		•
	370	150	4.0	1840.0	3350.0	24144 CC/W33		•	•

Dimensions				Load Rating		AEC Bearing	K12	K30	M
mm				kN					
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )				
240	400	108	4.0	1520.0	2360.0	22244 CC/W33	•		•
	400	144	4.0	2070.0	3450.0	23244 CC/W33	•		•
	460	145	5.0	2350.0	3450.0	22344 CC/W33	•		•
	320	60	2.1	564.0	1160.0	23948 CC/W33	•		•
	360	92	3.0	1130.0	2080.0	23048 CC/W33	•		•
	360	118	3.0	1380.0	2700.0	24048 CC/W33		•	•
	400	128	4.0	1790.0	3200.0	23148 CC/W33	•		•
	400	160	4.0	2100.0	3900.0	24148 CC/W33		•	•
260	440	120	4.0	1910.0	3000.0	22248 CC/W33	•		•
	440	160	4.0	2530.0	4300.0	23248 CC/W33	•		•
	500	155	5.0	2670.0	4000.0	22348 CC/W33	•		•
	360	75	2.1	880.0	1800.0	23952 CC/W33	•		•
	400	104	4.0	1400.0	2550.0	23052 CC/W33	•		•
	400	140	4.0	1760.0	3450.0	24052 CC/W33		•	•
	440	144	4.0	2220.0	3900.0	23152 CC/W33	•		•
	440	180	4.0	2620.0	4800.0	24152 CC/W33		•	•
280	480	130	5.0	2300.0	3550.0	22252 CAC/W33	•		•
	480	174	5.0	2820.0	4750.0	23252 CAC/W33	•		•
	540	165	6.0	3050.0	4550.0	22352 CC/W33	•		•
	380	75	2.1	845.0	1760.0	23956 CC/W33	•		•
	420	106	4.0	1520.0	2850.0	23056 CC/W33	•		•
	420	140	4.0	1870.0	3800.0	24056 CC/W33		•	•
	460	146	5.0	2300.0	4250.0	23156 CC/W33	•		•
	460	180	5.0	2670.0	5100.0	24156 CC/W33		•	•
300	500	130	5.0	2350.0	3750.0	22256 CAC/W33	•		•
	500	176	5.0	2820.0	4900.0	23256 CAC/W33	•		•
	580	175	6.0	3450.0	5200.0	22356 CC/W33	•		•
	420	90	3.0	1200.0	2500.0	23960 CC/W33	•		•
	460	118	4.0	1840.0	3450.0	23060 CC/W33	•		•
	460	160	4.0	2350.0	4750.0	24060 CC/W33		•	•
	500	160	5.0	2820.0	5100.0	23160 CC/W33	•		•
	500	200	5.0	3280.0	6300.0	24160 CC/W33		•	•
320	540	140	5.0	2760.0	4250.0	22260 CAC/W33	•		•
	540	192	5.0	3340.0	5850.0	23260 CAC/W33	•		•
	440	90	3.0	1240.0	2700.0	23964 CAC/W33	•		•
	480	121	4.0	1960.0	3800.0	23064 CC/W33	•		•
	480	160	4.0	2480.0	5100.0	24064 CC/W33		•	•
	540	176	5.0	3280.0	6000.0	23164 CC/W33	•		•
	540	218	5.0	3740.0	7100.0	24164 CC/W33		•	•
	580	150	5.0	3160.0	4900.0	22264 CAC/W33	•		•
340	580	208	5.0	3850.0	6700.0	23264 CAC/W33	•		•
	460	90	3.0	1270.0	2800.0	23968 CC/W33	•		•
	520	133	5.0	2350.0	4550.0	23068 CC/W33	•		•
	520	180	5.0	2990.0	6200.0	24068 CC/W33		•	•
	580	190	5.0	3680.0	6800.0	23168 CC/W33	•		•
	580	243	5.0	4660.0	8650.0	24168 CAC/W33		•	•
	620	224	6.0	4660.0	8300.0	23268 CC/W33	•		•
	480	90	3.0	1290.0	2900.0	23972 CAC/W33	•		•

Dimensions				Load Rating		AEC Bearing	K12	K30	M
mm				kN					
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )				
380	540	134	5.0	2390.0	4800.0	23072 CC/W33	•		•
	540	180	5.0	3110.0	6550.0	24072 CC/W33		•	•
	600	192	5.0	3740.0	6950.0	23172 CAC/W33	•		•
	600	243	5.0	4490.0	8650.0	24172 CC/W33		•	•
	650	232	6.0	4660.0	8300.0	23272 CA/W33	•		•
	520	106	4.0	1730.0	3800.0	23976 CC/W33	•		•
	560	135	5.0	2480.0	5000.0	23076 CC/W33	•		•
	560	180	5.0	3160.0	6800.0	24076 CC/W33		•	•
	620	194	5.0	3740.0	7100.0	23176 CA/W33	•		•
	620	243	5.0	4600.0	9150.0	24176 CA/W33		•	•
400	680	240	6.0	5060.0	9150.0	23276 CA/W33	•		•
	540	106	4.0	1730.0	3900.0	23980 CAC/W33	•		•
	600	148	5.0	2880.0	5700.0	23080 CAC/W33	•		•
	600	200	5.0	3620.0	7800.0	24080 CAC/W33		•	•
	650	200	6.0	4080.0	7650.0	23180 CA/W33	•		•
	650	250	6.0	4890.0	9800.0	24180 CA/W33		•	•
	720	256	6.0	5750.0	10400.0	23280 CA/W33	•		•
	560	106	4.0	1760.0	4150.0	23984 CAC/W33	•		•
	620	150	5.0	2990.0	6000.0	23084 CA/W33	•		•
	620	200	5.0	3740.0	8150.0	24084 CA/W33		•	•
420	700	224	6.0	4890.0	9300.0	23184 CA/W33	•		•
	700	280	6.0	5750.0	11400.0	24184 CA/W33		•	•
	760	272	7.5	6330.0	11600.0	23284 CA/W33	•		•
	600	118	4.0	2100.0	4900.0	23988 CAC/W33	•		•
	650	157	6.0	3220.0	6550.0	23088 CA/W33	•		•
	650	212	6.0	4080.0	8800.0	24088 CA/W33		•	•
	720	226	6.0	5180.0	10000.0	23188 CA/W33	•		•
	720	280	6.0	5980.0	12200.0	24188 CA/W33		•	•
	790	280	7.5	6730.0	12500.0	23288 CA/W33	•		•
	620	118	4.0	2190.0	5000.0	23992 CA/W33	•		•
460	680	163	6.0	3450.0	6950.0	23092 CA/W33	•		•
	680	218	6.0	4370.0	9500.0	24092 CA/W33		•	•
	760	240	7.5	5640.0	10800.0	23192 CA/W33	•		•
	760	300	7.5	7250.0	14600.0	24192 CA/W33		•	•
	830	296	7.5	7360.0	13700.0	23292 CA/W33	•		•
	650	128	5.0	2530.0	5700.0	23996 CA/W33	•		•
	700	165	6.0	3340.0	6800.0	23096 CA/W33	•		•
	700	218	6.0	4490.0	10000.0	24096 CA/W33		•	•
	790	248	7.5	6100.0	12000.0	23196 CA/W33	•		•
	790	308	7.5	7250.0	15000.0	24196 CA/W33		•	•
500	870	310	7.5	8170.0	15000.0	23296 CA/W33	•		•
	670	128	5.0	2530.0	6000.0	239/500 CA/W33	•		•
	720	167	6.0	3680.0	7800.0	230/500 CA/W33	•		•
	720	218	6.0	4600.0	10400.0	240/500 CA/W33		•	•
	830	264	7.5	6730.0	12900.0	231/500 CA/W33	•		•
	830	325	7.5	8630.0	17000.0	241/500 CA/W33		•	•
	920	336	7.5	9780.0	18300.0	232/500 CA/W33	•		•
	710	136	5.0	2820.0	6700.0	239/530 CA/W33	•		•

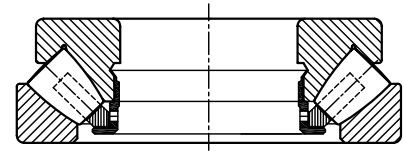
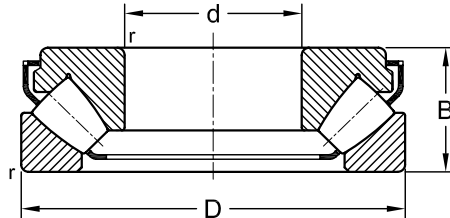
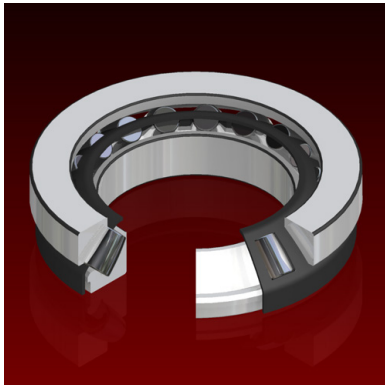
Dimensions				Load Rating		AEC Bearing	K12	K30	M
mm				kN					
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )				
	780	185	6.0	4370.0	9300.0	230/530 CA/W33	●		●
	780	250	6.0	5640.0	12700.0	240/530 CA/W33		●	●
	870	272	7.5	7130.0	14000.0	231/530 CA/W33	●		●
	870	335	7.5	9200.0	19000.0	241/530 CA/W33		●	●
	980	335	9.5	11100.0	20400.0	232/530 CA/W33	●		●



# Spherical Roller Bearings

Thrust  
Metric Series

29



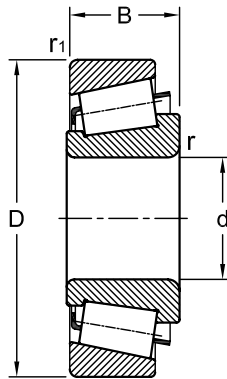
Dimensions				Load Rating		AEC Bearing	M
mm				kN			
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )		
60	130	42	1.5	345.0	915.0	29412 E	●
65	140	45	2.0	397.0	1080.0	29413 E	●
70	150	48	2.0	449.0	1250.0	29414 E	●
75	160	51	2.0	518.0	1430.0	29415 E	●
80	170	54	2.1	575.0	1630.0	29416 E	●
85	150	39	1.5	334.0	1060.0	29317 E	●
	180	58	2.1	633.0	1800.0	29417 E	●
90	155	39	1.5	345.0	1080.0	29318 E	●
	190	60	2.1	702.0	2000.0	29418 E	●
100	170	42	1.5	408.0	1290.0	29320 E	●
	210	67	3.0	863.0	2500.0	29420 E	●
110	190	48	2.0	535.0	1730.0	29322 E	●
	230	73	3.0	1010.0	3000.0	29422 E	●
120	210	54	2.1	656.0	2120.0	29324 E	●
	250	78	4.0	1170.0	3450.0	29424 E	●
130	225	58	2.1	753.0	2500.0	29326 E	●
	270	85	4.0	1380.0	4050.0	29426 E	●
140	240	60	2.1	845.0	2850.0	29328 E	●
	280	85	4.0	1400.0	4300.0	29428 E	●
150	215	39	1.5	345.0	1370.0	29230	●
	250	60	2.1	863.0	2850.0	29330 E	●
	300	90	4.0	1610.0	5100.0	29430 E	●
160	225	39	1.5	357.0	1460.0	29232	●
	270	67	3.0	1010.0	3450.0	29332 E	●
	320	95	5.0	1790.0	5600.0	29432 E	●
170	240	42	1.5	408.0	1660.0	29234	●
	280	67	3.0	1050.0	3550.0	29334 E	●
	340	103	5.0	2020.0	6550.0	29434 E	●
180	250	42	1.5	420.0	1760.0	29236	●
	300	73	3.0	1240.0	4300.0	29336 E	●
	360	109	5.0	2250.0	7350.0	29436 E	●
190	270	48	2.0	518.0	2200.0	29238 E	●

Dimensions				Load Rating		AEC Bearing	M
mm				kN			
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )		
200	320	78	4.0	1400.0	4750.0	29338 E	•
	380	115	5.0	2480.0	8000.0	29438 E	•
	280	48	2.0	535.0	2280.0	29240	•
	340	85	4.0	1610.0	5500.0	29340 E	•
220	400	122	5.0	2760.0	9000.0	29440 E	•
	300	48	2.0	546.0	2400.0	29244	•
	360	85	4.0	1730.0	6300.0	29344 E	•
240	420	122	6.0	2880.0	9650.0	29444 E	•
	340	60	2.1	799.0	3450.0	29248	•
	380	85	4.0	1790.0	6550.0	29348 E	•
260	440	122	6.0	2990.0	10200.0	29448 E	•
	360	60	2.1	817.0	3650.0	29252	•
	420	95	5.0	2220.0	8300.0	29352 E	•
280	480	132	6.0	3510.0	12900.0	29452 E	•
	380	60	2.1	863.0	4000.0	29256	•
	440	95	5.0	2190.0	8650.0	29356 E	•
300	520	145	6.0	4310.0	15300.0	29456 E	•
	420	73	3.0	1070.0	4800.0	29260	•
	480	109	5.0	2670.0	10600.0	29360 E	•
320	540	145	6.0	4370.0	16600.0	29460 E	•
	440	73	3.0	1110.0	5100.0	29264	•
	500	109	5.0	2880.0	11200.0	29364 E	•
340	580	155	7.0	4950.0	19000.0	29464 E	•
	460	73	3.0	1130.0	5400.0	29268	•
	540	122	5.0	2710.0	11000.0	29368	•
360	620	170	7.5	5750.0	22400.0	29468 E	•
	500	85	4.0	1460.0	6800.0	29272	•
	560	122	5.0	2760.0	11600.0	29372	•
380	640	170	7.5	5350.0	21200.0	29472 E	•
	520	85	4.0	1580.0	7650.0	29276	•
	600	132	6.0	3340.0	14000.0	29376	•
400	670	175	7.5	5870.0	24000.0	29476 E	•
	540	85	4.0	1610.0	8000.0	29280	•
	620	132	6.0	3450.0	14600.0	29380	•
420	710	185	7.5	6560.0	26500.0	29480 E	•
	580	95	4.0	1990.0	9800.0	29284	•
	650	140	6.0	3740.0	16000.0	29384	•
440	730	185	7.5	6730.0	27500.0	29484 E	•
	600	95	5.0	2070.0	10400.0	29288	•
	680	145	6.0	4490.0	19300.0	29388	•
460	780	206	9.5	7820.0	32000.0	29488 E	•
	620	95	5.0	2070.0	10600.0	29292	•
	710	150	6.0	4310.0	19000.0	29392	•
480	800	206	9.5	7990.0	33500.0	29492 E	•
	650	103	5.0	2350.0	11800.0	29296	•
	730	150	6.0	4370.0	19600.0	29396	•
	850	224	9.5	9550.0	39000.0	29496 E	•

# Taper Roller Bearings

Single Row  
Metric Series

**30, 31, 32**



Dimensions					Load Rating		AEC Bearing
mm					kN		
d	D	B	r	r <sub>1</sub>	Dynamic (C)	Static (C <sub>0</sub> )	
15	35	11.75	0.6	0.6	12.5	11.8	30202
	42	14.25	1.0	1.0	22.4	20.0	30302
17	40	13.25	1.0	1.0	19.0	18.6	30203
	47	15.25	1.0	1.0	28.1	25.0	30303
	47	20.25	1.0	1.0	34.7	33.5	32303
18	47	14.38	2.0	2.0	26.4	43.3	I 100545/46
20	42	15.00	0.6	0.6	24.2	27.0	32004
	47	15.25	1.0	1.0	27.5	28.0	30204
	52	16.25	1.5	1.5	34.1	32.5	30304
	52	22.25	1.5	1.5	44.0	45.8	32304
22	44	15.00	0.6	0.6	25.1	29.0	320/22
	47	17.00	1.0	1.0	34.1	36.5	T2CC 022
25	47	15.00	0.6	0.6	27.0	32.5	32005
	52	16.25	1.0	1.0	30.8	33.5	30205
	52	19.25	1.0	1.0	35.8	44.0	32205
	52	22.00	1.0	1.0	47.3	56.0	33205
	62	18.25	1.5	1.5	44.6	43.0	30305
	62	18.25	1.5	1.5	38.0	40.0	31305
	62	25.25	1.5	1.5	60.5	63.0	32305
	52	16.00	1.0	1.0	31.9	38.0	320/28
28	58	20.25	1.0	1.0	41.8	50.0	322/28
	70	20.50	1.5	1.5	59.5	96.1	1838051/52
30	55	17.00	1.0	1.0	35.8	44.0	32006
	62	17.25	1.0	1.0	40.2	44.0	30206
	62	21.25	1.0	1.0	50.1	57.0	32206
	62	21.25	1.0	1.0	49.5	58.5	32206 B
	62	25.00	1.0	1.0	64.4	76.5	33206
	72	20.75	1.5	1.5	56.1	56.0	30306
	72	20.75	1.5	1.5	47.3	50.0	31306
	72	28.75	1.5	1.5	76.5	85.0	32306
32	58	17.00	1.0	1.0	36.9	46.5	320/32
33	62	16.00	2.5	2.5	43.5	76.3	1838055/56

Dimensions					Load Rating		AEC Bearing
mm					kN		
d	D	B	r	r <sub>1</sub>	Dynamic (C)	Static (C <sub>0</sub> )	
35	62	18.00	1.0	1.0	42.9	54.0	32007
	72	18.25	1.5	1.5	51.2	56.0	30207
	72	24.25	1.5	1.5	66.0	78.0	32207
	72	24.25	1.5	1.5	60.5	75.0	32207 B
	72	28.00	1.5	1.5	84.2	106.0	33207
	80	22.75	2.0	1.5	72.1	73.5	30307
	80	22.75	2.0	1.5	61.6	67.0	31307
	80	32.75	2.0	1.5	95.2	106.0	32307
	80	32.75	2.0	1.5	93.5	114.0	32307 B
	68	19.00	1.0	1.0	52.8	71.0	32008
	75	26.00	1.5	1.5	79.2	104.0	33108
	80	19.75	1.5	1.5	61.6	68.0	30208
	80	24.75	1.5	1.5	74.8	86.5	32208
	80	32.00	1.5	1.5	105.0	132.0	33208
	85	33.00	2.0	1.5	121.0	150.0	T2EE 040
	90	25.25	2.5	2.0	85.8	95.0	30308
	90	25.25	2.0	1.5	73.7	81.5	31308
	90	35.25	2.0	1.5	117.0	140.0	32308
	90	35.25	2.0	1.5	108.0	140.0	32308 B
	95	27.50	2.0	1.5	94.4	170.4	331257
45	75	20.00	1.0	1.0	58.3	80.0	32009
	80	26.00	1.5	1.5	84.2	114.0	33109
	85	20.75	1.5	1.5	66.0	76.5	30209
45	85	24.75	1.5	1.5	80.9	98.0	32209
	85	27.75	1.5	1.5	80.9	98.0	32209 sp
	85	27.75	1.5	1.5	73.7	93.0	32209 B
	85	32.00	1.5	1.5	108.0	143.0	33209
	95	29.00	2.5	2.5	89.7	112.0	T7FC 045
	95	36.00	2.5	2.5	147.0	186.0	T2ED 045
	100	27.25	2.0	1.5	108.0	120.0	30309
	100	27.25	2.0	1.5	91.3	102.0	31309
	100	38.45	2.0	1.5	140.0	170.0	32309
	100	38.45	2.0	1.5	134.0	176.0	32309 B
50	80	20.00	1.0	1.0	60.5	154.8	32010
	80	24.00	1.0	1.0	69.3	102.0	33010
	82	21.50	3.0	0.5	72.1	100.0	K-JLM 104948/104910
	85	26.00	1.5	1.5	85.8	122.0	33110
	90	21.75	1.5	1.5	76.5	91.5	30210
	90	24.75	1.5	1.5	82.5	100.0	32210
	90	24.75	1.5	1.5	82.5	104.0	32210 B
	90	28.00	3.0	2.5	106.0	140.0	K-JLM 205149/205110
	90	28.00	3.0	0.8	106.0	140.0	K-JLM 205149/205110 A
	90	32.00	1.5	1.5	114.0	160.0	33210
	100	36.00	2.5	2.5	154.0	200.0	T2ED 050
	105	32.00	3.0	3.0	108.0	137.0	T7FC 050
	110	29.25	2.5	2.0	125.0	140.0	30310
	110	29.25	2.5	2.0	106.0	120.0	31310
	110	42.25	2.5	2.0	172.0	212.0	32310

Dimensions					Load Rating		AEC Bearing
mm					kN		
d	D	B	r	r <sub>1</sub>	Dynamic (C)	Static (C <sub>0</sub> )	
55	110	42.25	2.5	2.0	161.0	216.0	32310 B
	90	23.00	1.5	0.5	78.1	112.0	K-JLM 506849/506810
	90	23.00	1.5	1.5	80.9	116.0	32011
	99	27.00	1.5	1.5	89.7	137.0	33011
55	95	30.00	1.5	1.5	110.0	156.0	33111
	100	22.75	2.0	1.5	89.7	106.0	30211
	100	26.75	2.0	1.5	106.0	129.0	32211
	100	26.75	2.0	1.5	101.0	127.0	32211 B
60	100	35.00	2.0	1.5	138.0	190.0	33211
	110	39.00	2.5	2.5	179.0	232.0	T2ED 055
	115	34.00	3.0	3.0	125.0	163.0	T7FC 055
	120	31.50	2.5	2.0	142.0	163.0	30311
	120	31.50	2.5	2.0	121.0	137.0	31311
	120	45.50	2.5	2.0	198.0	250.0	32311
	120	45.50	2.5	2.0	190.0	260.0	32311 B
	95	23.00	1.5	1.5	82.5	122.0	32012
	95	24.00	5.0	2.5	84.2	132.0	K-JLM 508748/508710
	95	27.00	1.5	1.5	91.3	143.0	33012
	100	30.00	1.5	1.5	117.0	170.0	33112
	110	23.75	2.0	1.5	99.0	114.0	30212
	110	29.75	2.0	1.5	125.0	160.0	32212
	110	38.00	2.0	1.5	168.0	236.0	33212
	115	39.00	4.0	2.5	168.0	250.0	T5ED 060
	115	40.00	2.5	2.5	194.0	260.0	T2EE 060
	125	37.00	3.0	3.0	154.0	204.0	T7FC 060
	110	29.75	2.5	0.5	125.0	160.0	330201
	120	45.50	3.0	2.5	194.2	408.7	215424 C
	65	130	33.50	3.0	2.5	168.0	196.0
130		33.50	3.0	2.5	145.0	166.0	31312
130		48.80	3.0	2.5	229.0	290.0	32312
130		48.80	3.0	2.5	220.0	305.0	32312 B
135		33.45	3.5	3.5	161.9	304.6	330632
100		23.00	1.5	1.5	84.2	127.0	32013
100		27.00	1.5	1.5	96.8	156.0	33013
110		28.00	3.0	2.5	123.0	183.0	K-JM 511946/511910
110		34.00	1.5	1.5	142.0	208.0	33113
120		24.75	2.0	1.5	114.0	134.0	30213
120		32.75	2.0	1.5	151.0	193.0	32213
120		39.00	4.0	2.5	161.0	240.0	T5ED 065
120		39.00	3.0	2.5	187.0	265.0	K-JH 211749/211710
120		41.00	2.0	1.5	194.0	270.0	33213
130		37.00	3.0	3.0	157.0	216.0	T7FC 065
140		36.00	3.0	2.5	194.0	228.0	30313
140		36.00	3.0	2.5	165.0	193.0	31313
140		51.00	3.0	2.5	264.0	335.0	32313
140		51.00	3.0	2.5	246.0	345.0	32313 B
145		40.00	3.0	3.0	198.4	386.6	77213
150	53.50	2.5	2.0	301.2	649.7	215426 C	

Dimensions					Load Rating		AEC Bearing
mm					kN		
d	D	B	r	r <sub>1</sub>	Dynamic (C)	Static (C <sub>0</sub> )	
70	110	25.00	1.5	1.5	101.0	153.0	32014
	110	26.00	1.0	2.5	101.0	160.0	K-JLM 803146/803110
	110	31.00	1.5	1.5	130.0	196.0	33014
	120	37.00	2.0	1.5	172.0	250.0	33114
	125	26.25	2.0	1.5	125.0	156.0	30214
	125	33.25	2.0	1.5	157.0	208.0	32214
	125	41.00	2.0	1.5	201.0	285.0	33214
	130	43.00	3.0	2.5	233.0	325.0	T2ED 070
	140	39.00	3.0	3.0	176.0	240.0	T7FC 070
	140	52.00	5.0	3.0	281.0	405.0	T4FE 070
	150	38.00	3.0	2.5	220.0	260.0	30314
	150	38.00	3.0	2.5	187.0	220.0	31314
	150	54.00	3.0	2.5	297.0	380.0	32314
	150	54.00	3.0	2.5	281.0	400.0	32314 B
75	105	20.00	1.0	1.0	70.4	116.0	32915
	115	25.00	1.5	1.5	106.0	163.0	32015
	115	31.00	1.5	1.5	134.0	228.0	33015
	120	31.00	3.0	2.5	138.0	216.0	K-JM 714249/714210
	125	37.00	2.0	1.5	176.0	265.0	33115
	130	27.25	2.0	1.5	140.0	176.0	30215
	130	33.25	2.0	1.5	161.0	212.0	32215
	130	41.00	2.0	1.5	209.0	300.0	33215
	145	51.00	3.0	2.5	308.0	450.0	K-JH 415647/415610
	150	42.00	3.0	3.0	201.0	280.0	T7FC 075
	160	40.00	3.0	2.5	246.0	290.0	30315
	160	40.00	3.0	2.5	209.0	245.0	31315
	160	58.00	3.0	2.5	336.0	440.0	32315
	160	58.00	3.0	2.5	336.0	475.0	32315 B
80	125	29.00	1.5	1.5	138.0	216.0	32016
	125	36.00	1.5	1.5	168.0	285.0	33016
	130	37.00	2.0	1.5	179.0	280.0	33116
	140	28.25	2.5	2.0	151.0	183.0	30216
	140	35.25	2.5	2.0	187.0	245.0	32216
	140	46.00	2.5	2.0	251.0	375.0	33216
	145	46.00	3.0	2.5	281.0	400.0	T2ED 080
	170	42.50	3.0	2.5	270.0	320.0	30316
	170	42.50	3.0	2.5	224.0	265.0	31316
	170	61.50	3.0	2.5	380.0	500.0	32316
85	130	29.00	1.5	1.5	140.0	224.0	32017
	130	30.00	3.0	2.5	140.0	228.0	K-JM 716649/716610
	130	36.00	1.5	1.5	183.0	310.0	33017
	140	41.00	2.5	2.0	220.0	340.0	33117
85	150	30.50	2.5	2.0	176.0	220.0	30217
	150	38.50	2.5	2.0	212.0	285.0	32217
	150	49.00	2.5	2.0	286.0	430.0	33217
	180	44.50	4.0	3.0	303.0	365.0	30317
	180	44.50	4.0	3.0	242.0	285.0	31317

Dimensions					Load Rating		AEC Bearing
mm					kN		
d	D	B	r	r <sub>1</sub>	Dynamic (C)	Static (C <sub>0</sub> )	
90	180	63.50	4.0	3.0	402.0	530.0	32317
	180	63.50	4.0	3.0	391.0	560.0	32317 B
	140	32.00	2.0	1.5	168.0	270.0	32018
	140	39.00	2.0	1.5	216.0	355.0	33018
	145	35.00	6.0	2.5	201.0	305.0	K-JM 718149/718110
	150	45.00	2.5	2.0	251.0	390.0	33118
	155	46.00	3.0	3.0	286.0	430.0	T2ED 090
	160	32.50	2.5	2.0	194.0	245.0	30218
	160	42.50	2.5	2.0	251.0	340.0	32218
	160	49.50	2.5	2.0	261.6	602.7	215436 C
95	175	48.00	4.0	4.0	270.0	380.0	T7FC 090
	190	46.50	4.0	3.0	330.0	400.0	30318
	190	46.50	4.0	3.0	264.0	315.0	31318
	190	67.50	4.0	3.0	457.0	610.0	32318
	130	23.00	1.5	1.5	102.0	183.0	32919
	145	32.00	2.0	1.5	168.0	270.0	32019
	145	39.00	2.0	1.5	220.0	375.0	33019
	160	46.00	3.0	3.0	297.0	455.0	T2ED 095
	170	34.50	3.0	2.5	216.0	275.0	30219
	170	45.50	3.0	2.5	281.0	390.0	32219
100	200	49.50	4.0	3.0	330.0	390.0	30319
	200	49.50	4.0	3.0	292.0	355.0	31319
	200	71.50	4.0	3.0	501.0	670.0	32319
	145	24.00	3.0	3.0	125.0	190.0	T4CB 100
	150	32.00	2.0	1.5	172.0	280.0	32020
	150	39.00	2.0	1.5	224.0	390.0	33020
	160	41.00	3.0	3.0	246.0	390.0	K-JHM 720249/720210
	165	47.00	3.0	2.5	314.0	480.0	T2EE 100
	180	37.00	3.0	2.5	246.0	320.0	30220
	180	49.00	3.0	2.5	319.0	440.0	32220
105	180	63.00	3.0	2.5	429.0	655.0	33220
	215	51.50	4.0	3.0	402.0	490.0	30320
	215	56.50	4.0	3.0	374.0	465.0	31320
	215	77.50	4.0	3.0	572.0	780.0	32320
	145	25.00	1.5	1.5	129.0	220.0	32921
	160	35.00	2.5	2.0	201.0	335.0	32021
	190	39.00	3.0	3.0	257.3	506.9	214442 C
	160	43.00	2.5	2.0	246.0	430.0	33021
	190	39.00	3.0	2.5	270.0	355.0	30221
	190	53.00	3.0	2.5	358.0	510.0	32221
110	225	53.50	4.0	3.0	429.0	530.0	30321
	225	58.00	4.0	3.0	402.0	500.0	31321
	225	81.50	4.0	3.0	605.0	815.0	32321
	150	25.00	1.5	1.5	125.0	224.0	32922
	160	27.00	3.0	3.0	154.0	232.0	T4CB 110
	170	38.00	3.0	2.5	215.3	534.7	214244 C
	170	38.00	2.5	2.0	233.0	390.0	32022
	170	47.00	2.5	2.0	281.0	500.0	33022

Dimensions					Load Rating		AEC Bearing
mm					kN		
d	D	B	r	r <sub>1</sub>	Dynamic (C)	Static (C <sub>0</sub> )	
110	180	47.00	3.0	2.5	319.0	520.0	K-JHM 522649/522610
	180	56.00	2.5	2.0	369.0	630.0	33122
	200	41.00	3.0	2.5	308.0	405.0	30222
	200	56.00	3.0	2.5	402.0	570.0	32222
	240	54.50	4.0	3.0	473.0	585.0	30322
	240	63.50	4.0	3.0	457.0	585.0	31322
120	240	84.50	4.0	3.0	627.0	830.0	32322
	165	29.00	1.5	1.5	176.0	310.0	32924
	170	27.00	3.0	3.0	157.0	250.0	T4CB 120
	180	38.00	2.5	2.0	242.0	415.0	32024
	180	48.00	2.5	2.0	292.0	540.0	33024
	215	43.50	3.0	2.5	341.0	465.0	30224
130	215	61.50	3.0	2.5	468.0	695.0	32224
	260	59.50	4.0	3.0	561.0	710.0	30324
	260	68.00	4.0	3.0	539.0	695.0	31324
	260	90.50	4.0	3.0	792.0	1120.0	32324
	180	32.00	2.0	1.5	198.0	365.0	32926
	185	29.00	3.0	3.0	194.0	315.0	T4CB 130
	200	45.00	2.5	2.0	314.0	540.0	32026
	230	43.75	4.0	3.0	369.0	490.0	30226
	230	67.75	4.0	3.0	550.0	830.0	32226
	280	63.75	5.0	4.0	627.0	800.0	30326
	280	72.00	5.0	4.0	605.0	780.0	31326
	280	98.75	5.0	4.0	858.0	1180.0	32326
140	190	32.00	2.0	1.5	205.0	390.0	32928
	195	29.00	3.0	3.0	194.0	325.0	T4CB 140
	210	45.00	2.5	2.0	330.0	585.0	32028
	250	45.75	4.0	3.0	418.0	570.0	30228
	250	71.75	4.0	3.0	644.0	1000.0	32228
	300	67.75	5.0	4.0	737.0	950.0	30328
150	300	77.00	5.0	4.0	693.0	900.0	31328
	210	32.00	3.0	3.0	233.0	390.0	T4DB 150
	210	38.00	2.5	2.0	285.0	500.0	32930
	225	48.00	3.0	2.5	369.0	655.0	32030
	225	59.00	3.0	2.5	457.0	865.0	33030
	270	49.00	4.0	3.0	429.0	560.0	30230
160	270	77.00	4.0	3.0	737.0	1140.0	32230
	320	72.00	5.0	4.0	825.0	1060.0	30330
	320	82.00	5.0	4.0	781.0	1020.0	31330
	320	114.00	5.0	4.0	1170.0	1660.0	32330
	220	32.00	3.0	3.0	242.0	415.0	T4DB 160
	220	38.00	2.5	2.0	300.0	530.0	32932
	240	51.00	3.0	2.5	429.0	780.0	32032
	290	52.00	4.0	3.0	528.0	735.0	30232
	290	84.00	4.0	3.0	880.0	1400.0	32232
	340	75.00	5.0	4.0	913.0	1180.0	30332
	230	38.00	2.5	2.0	286.0	585.0	32934
	260	57.00	3.0	2.5	512.0	915.0	32034

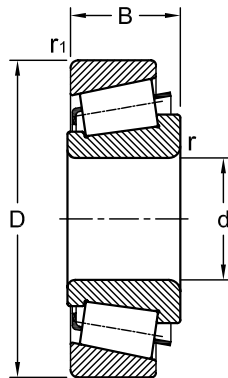


Dimensions					Load Rating		AEC Bearing
mm					kN		
d	D	B	r	r <sub>1</sub>	Dynamic (C)	Static (C <sub>0</sub> )	
180	310	57.00	5.0	4.0	616.0	865.0	30234
	310	91.00	5.0	4.0	1010.0	1630.0	32234
	360	80.00	5.0	4.0	1020.0	1340.0	30334
	250	45.00	2.5	2.0	352.0	735.0	32936
	280	64.00	3.0	2.5	644.0	1160.0	32036
	320	57.00	5.0	4.0	583.0	815.0	30236
190	320	91.00	5.0	4.0	1010.0	1630.0	32236
	260	45.00	2.5	2.0	358.0	765.0	32938
	290	64.00	3.0	2.5	660.0	1200.0	32038
	340	60.00	5.0	4.0	721.0	1000.0	30238
200	340	97.00	5.0	4.0	1190.0	1930.0	32238
	280	51.00	3.0	2.5	473.0	950.0	32940
	310	70.00	3.0	2.5	748.0	1370.0	32040
	360	64.00	5.0	4.0	792.0	1120.0	30240
220	360	104.00	5.0	4.0	1210.0	2000.0	32240
	285	41.00	4.0	3.0	396.0	830.0	T2DC 220
	300	51.00	3.0	2.5	500.0	980.0	32944
	340	76.00	4.0	3.0	897.0	1660.0	32044
	400	72.00	5.0	4.0	990.0	1400.0	30244
	400	114.00	5.0	4.0	1610.0	2700.0	32244
240	320	42.00	3.0	3.0	429.0	815.0	T4EB 240
	320	51.00	3.0	2.5	512.0	1080.0	32948
	360	76.00	4.0	3.0	935.0	1800.0	32048
	440	127.00	5.0	4.0	1940.0	3350.0	32248
260	360	63.50	3.0	2.5	750.0	1500.0	32952
	400	87.00	5.0	4.0	1170.0	2200.0	32052
	480	137.00	6.0	5.0	2200.0	3650.0	32252
	540	113.00	6.0	6.0	2120.0	3050.0	30352
280	380	63.50	3.0	2.5	765.0	1660.0	32956
	420	87.00	5.0	4.0	1210.0	2360.0	32056
300	420	76.00	4.0	3.0	1050.0	2240.0	32960
	460	100.00	5.0	4.0	1530.0	2900.0	32060
320	480	100.00	5.0	4.0	1540.0	3100.0	32064

# Taper Roller Bearings

Single Row  
Inch Series

**K, KHM, KL, KLM**



Dimensions					Load Rating		AEC Bearing
inch					kN		
d	D	B	r (mm)	r <sub>1</sub> (mm)	Dynamic (C)	Static (C <sub>0</sub> )	
0.5901	1.3775	0.4330	0.8	1.3	13.4	13.2	K-A 4059/K-A 4138
0.6250	1.6250	0.5625	1.3	2.0	22.0	21.2	K-03062/K-03162
	1.6875	0.5625	1.5	1.5	17.6	17.6	K-11590/K-11520
0.6875	1.5700	0.5450	1.3	1.3	21.2	20.8	K-LM 11749/K-LM 11710
0.7500	1.7810	0.6100	1.3	1.3	27.5	27.5	K-LM 11949/K-LM 11910
	1.9380	0.7100	1.3	1.3	39.1	40.0	K-09067/K-09195
	1.9380	0.7813	1.5	1.3	39.1	40.0	K-09074/K-09195
	1.9380	0.7813	1.3	1.3	39.1	40.0	K-09078/K-09195
	1.9380	0.8350	1.3	1.5	39.1	40.0	K-09067/K-09196
	1.9380	0.9063	1.5	1.5	39.1	40.0	K-09074/K-09196
	1.9380	0.9063	1.3	1.5	39.1	40.0	K-09078/K-09196
	2.1250	0.8750	1.5	2.3	39.6	39.0	K-21075/K-21212
	1.9380	0.7813	1.5	1.3	39.1	40.0	K-09081/K-09195
	1.9380	0.9063	1.5	1.5	39.1	40.0	K-09081/K-09196
0.8437	1.9687	0.6900	1.3	1.3	36.9	38.0	K-M 12649/K-M 12610
0.8656	1.7810	0.6100	1.3	1.3	27.5	31.0	K-LM 12749/K-LM 12710
	1.8100	0.6100	1.3	1.3	27.5	31.0	K-LM 12749/K-LM 12711
0.8750	2.0000	0.5910	1.5	1.5	28.1	30.5	K-07087/K-07210 X
	2.0625	0.7625	1.5	1.5	41.8	44.0	K-1380/K-1328
1.0000	1.9800	0.5600	1.3	1.3	26.0	30.0	K-L 44643/K-L 44610
	2.0000	0.5910	1.5	1.5	28.1	30.5	K-07100 S/K-07210 X
	2.0000	0.5910	3.3	1.5	28.1	30.5	K-07100 SA/K-07210 X
	2.2500	0.7650	1.5	1.5	39.6	45.0	K-M 84548/K-M 84510
	2.4409	0.7500	0.8	1.3	48.4	57.0	K-15101/K-15245
	2.5000	0.8125	3.5	1.3	47.4	86.0	15100/15250
	2.5000	0.8125	0.8	1.5	48.4	57.0	K-15101/K-15250 X
1.0236	2.3543	0.6875	2.0	2.0	43.5	76.3	1838057/1838058
1.0625	1.9800	0.5600	3.5	1.3	26.0	30.0	K-L 44649/K-L 44610
1.1250	2.2500	0.7813	3.5	1.5	47.3	55.0	K-1988/K-1922
	2.4409	0.7500	3.5	1.3	48.4	57.0	K-15112/K-15245
	2.5000	0.8125	3.5	1.5	48.4	57.0	K-15112/K-15250
	2.5312	0.8438	1.5	1.5	49.5	61.0	K-M 86647/K-M 86610

Dimensions					Load Rating		AEC Bearing
inch					kN		
d	D	B	r (mm)	r <sub>1</sub> (mm)	Dynamic (C)	Static (C <sub>0</sub> )	
1.1417	2.6875	0.8750	0.8	1.5	58.3	69.5	K-02474/K-02420
	1.9800	0.5600	3.5	1.3	26.0	32.5	331274
	1.1811	2.7170	0.7813	0.8	1.3	53.9	67.0
1.1875	2.8380	0.8813	0.8	2.3	53.9	67.0	K-14118/K-14283
	2.5312	0.8438	1.5	1.5	49.5	61.0	K-M 86649/K-M 86610
	2.6875	0.8750	2.3	1.5	55.0	69.5	K-M 88043/K-M 88010
1.1895	2.6875	0.8750	2.3	2.3	55.0	69.0	K-M 88043/K-M 88011
	2.4409	0.7500	3.5	1.3	48.4	57.0	K-15118/K-15245
	2.5000	0.8125	3.5	1.5	48.4	57.0	K-15118/K-15250 X
1.2500	2.3280	0.6250	3.6	1.3	34.7	41.5	K-LM 67048/K-LM 67010
	2.4409	0.7150	4.0	1.3	48.4	57.0	K-15123/K-15245
	2.5000	0.7775	4.0	1.5	48.4	57.0	K-15123/K-15250 X
1.3125	2.6150	1.0000	0.8	3.3	69.3	81.5	K-2580/K-2520
	2.6875	0.8750	1.5	1.5	55.0	69.5	K-M 88046/K-M 88010
	2.6875	0.8750	1.5	2.3	55.0	69.5	K-M 88046/K-M 88011
1.3750	2.8593	1.1875	0.8	3.3	79.3	144.1	3188 / 3120
	2.8750	1.1563	1.3	3.3	70.4	95.0	K-HM 88452/K-HM 88510
	3.1250	1.0000	1.5	1.5	67.1	71.0	K-43125/K-43312
1.3750	2.6875	0.8750	0.8	1.5	55.0	69.5	K-M 88048/K-M 88010
	2.6875	0.8750	0.8	2.3	55.0	69.5	K-M 88048/K-M 88011
	2.7170	0.7813	3.5	3.3	53.9	67.0	K-14130/K-14274
1.3750	2.7170	0.7813	3.5	1.3	53.9	67.0	K-14130/K-14276
	2.7500	0.9375	3.5	1.3	70.4	133.2	2585/2523
	2.8380	0.8813	3.5	2.3	53.9	67.0	K-14130/K-14283
1.3750	3.0000	1.1563	0.8	3.3	78.1	106.0	K-HM 89443/K-HM 89410
	3.1250	1.0000	3.5	1.5	67.1	71.0	K-43131/K-43312
	2.5625	0.7100	3.6	1.3	47.3	57.0	K-LM 484548/K-LM 48510
1.3750	2.7170	0.7813	1.5	1.3	53.9	67.0	K-14137 A/K-14276
	2.7170	0.7813	3.5	1.3	53.9	67.0	K-14138 A/K-14276
	2.7170	0.7813	1.5	3.3	53.9	67.0	K-14137 A/K-14274
1.3750	2.7170	0.7813	3.5	3.3	53.9	67.0	K-14138 A/K-14274
	2.7170	1.0623	0.8	1.3	53.9	67.0	K-14136 A/K-14276
	2.7170	1.0623	0.8	3.3	53.9	67.0	K-14136 A/K-14274
1.3750	2.8380	0.8813	1.5	2.3	53.9	67.0	K-14137 A/K-14283
	2.8380	0.8813	3.5	2.3	53.9	67.0	K-14138 A/K-14283
	2.8380	1.1623	0.8	2.3	53.9	67.0	K-14136 A/K-14283
1.3750	2.8438	1.0000	2.3	2.3	67.1	90.0	K-HM 88649/K-HM 88610
	3.0000	0.8125	1.5	1.3	56.1	64.0	K-28137/K-28300
	3.0000	1.1563	3.5	3.3	78.1	106.0	K-HM 89446/K-HM 89410
1.3750	3.0000	1.1563	3.5	3.3	85.8	106.0	K-31593/K-31520
	3.0000	1.1563	1.5	3.3	85.8	106.0	K-31594/K-31520
	3.1250	1.1563	3.5	3.3	91.3	110.0	K-3478/K-3420
1.3750	3.1510	0.8438	1.5	1.5	56.1	64.0	K-28137/K-28317
	3.4375	1.1875	3.5	3.3	102.0	132.0	K-3581/K-3525
	2.8750	0.9375	1.5	0.8	72.1	88.0	K-25877/K-25821
1.3775	2.8750	0.9375	1.5	2.3	72.1	88.0	K-25877/K-25820
	2.8750	1.0625	3.5	1.5	73.7	88.0	K-23690/K-23620
	2.3280	0.6250	3.5	1.3	33.0	44.0	K-L 68149/K-L 68110

Dimensions					Load Rating		AEC Bearing
inch					kN		
d	D	B	r (mm)	r <sub>1</sub> (mm)	Dynamic (C)	Static (C <sub>0</sub> )	
1.4365	2.3612	0.6250	3.5	1.3	33.0	44.0	K-L 68149/K-L 68111
	2.8750	0.9375	1.5	0.8	72.1	88.0	K-25880/K-25821
	2.8750	0.9375	1.5	2.3	72.1	88.0	K-25880/K-25820
	2.8750	0.9375	3.5	0.8	74.8	93.0	K-2794/K-2735 X
	3.0000	0.9375	3.5	3.3	74.8	93.0	K-2794/K-2720
1.4375	3.0000	1.1563	0.8	3.3	78.1	106.0	K-HM 89448/K-HM 89410
	3.0000	1.1563	3.5	3.3	78.1	106.0	K-HM 89449/K-HM 894410
	3.0000	1.1563	3.5	3.3	85.8	106.0	K-31597/K-31520
1.5000	2.5625	0.7100	2.3	1.3	42.9	57.0	K-LM 29749/K-LM 29710
	2.5625	0.7800	2.3	1.3	42.9	57.0	K-LM 29749/K-LM 29711
	2.8346	0.6700	1.5	2.0	42.9	51.0	K-19150/K-19283 X
	2.8346	0.7480	3.5	1.5	49.5	60.0	K-16150/K-16283
	2.8440	0.8125	3.5	1.3	49.5	60.0	K-16150/K-16284
	2.8440	0.9375	3.5	2.3	49.5	60.0	K-16150/K-16283
	2.8750	0.9375	3.5	0.8	74.8	93.0	K-2788/K-2735 X
	3.0000	0.8125	1.5	1.3	56.1	64.0	K-28150/K-28300
	3.0000	0.9375	3.5	0.8	74.8	93.0	K-2788/K-2729
	3.0000	0.9375	3.5	3.3	74.8	93.0	K-2788/K-2720
	3.1250	1.1563	3.5	3.3	91.3	110.0	K-3490/K-3420
	3.1510	0.8438	1.5	1.5	56.1	64.0	K-28150/K-28317
	3.2500	1.1563	0.8	3.3	85.8	118.0	K-HM 801346/K-HM 801310
	3.2500	1.1563	2.3	3.3	85.8	118.0	K-HM 801346 X/K-HM 801310
	3.4843	1.0625	3.5	1.5	101.0	114.0	K-418/K-414
	2.8750	0.9375	3.5	0.8	74.8	93.0	K-2789/K-2735 X
	2.8750	1.0096	0.8	2.3	66.0	86.5	K-M 201047/K-M 201011
	3.0000	0.9375	3.5	0.8	74.8	93.0	K-2789/K-2729
	3.0000	0.9375	3.5	3.3	74.8	93.0	K-2789/K-2720
1.6137	2.7549	0.6890	3.6	1.5	44.0	58.5	K-LM 300849/K-LM 300811
1.6250	2.8750	0.6562	3.5	1.5	46.8	56.0	K-18590/K-18520
	2.8910	0.7700	3.5	0.8	55.0	69.5	K-LM 501349/K-LM 501310
	2.8910	0.8437	3.5	0.8	55.0	69.5	K-LM 501349/K-LM 501314
	2.8910	0.9060	3.5	2.3	55.0	69.5	K-LM 501349/K-LM 501311
	3.0000	0.7090	1.5	1.5	45.7	56.0	K-11162/K-11300
	3.0000	0.8750	3.5	0.8	68.2	86.5	K-24780/K-24720
	3.2500	1.0450	3.5	3.3	73.7	91.5	K-M 802048/K-M 802011
	3.4375	1.1875	1.5	3.3	102.0	132.0	K-3585/K-3525
	3.4375	1.1875	3.5	3.3	102.0	132.0	K-3577/K-3525
	3.4843	1.0625	3.5	1.5	101.0	114.0	K-419/K-414
	3.5000	1.1875	35.0	3.3	95.2	127.0	K-HM 803146/K-HM 803110
	3.7500	1.2188	1.5	0.8	88.0	96.5	K-53162/K-53375
	3.7500	1.2188	1.5	2.3	88.0	96.5	K-53162/K-53370
	3.8750	1.2188	1.5	1.5	88.0	96.5	K-53162/K-53387 X
	4.0000	1.3750	3.5	3.3	151.0	190.0	K-526/K-522
1.6875	3.4375	1.1875	3.5	3.3	102.0	132.0	K-3579/K-3525
1.6880	3.2650	0.9375	3.5	0.8	80.9	106.0	K-25577/K-25520
	3.2650	1.0625	3.5	2.3	80.9	106.0	K-25577/K-25523
	3.2700	0.9400	3.5	2.0	80.9	106.0	K-25577/K-25522
1.7500	2.8750	0.7188	1.5	1.5	48.4	67.0	K-L 102849/K-L 102810

Dimensions					Load Rating		AEC Bearing
inch					kN		
d	D	B	r (mm)	r <sub>1</sub> (mm)	Dynamic (C)	Static (C <sub>0</sub> )	
1.7500	3.2650	0.9375	3.5	0.8	80.9	106.0	K-25580/K-25520
	3.2650	1.0586	3.5	2.3	80.9	106.0	K-25580/K-25523
	3.2700	0.9400	3.5	2.0	80.9	106.0	K-25580/K-25522
	3.4375	1.1875	3.5	3.3	102.0	132.0	K-3578/K-3525
	3.5000	1.1875	3.5	3.3	95.2	127.0	K-HM 803149/K-HM 803110
	3.5480	0.9055	3.5	2.3	70.4	81.5	K-355 X/K-352
	3.6250	1.1875	3.5	3.3	95.2	127.0	LM 803149/LM 803112
	3.6718	1.1875	3.5	3.3	110.0	146.0	K-3782/K-3720
	3.7500	1.0938	3.5	2.3	105.0	125.0	K-438/K-432
	3.7500	1.0938	0.8	0.8	105.0	137.0	K-33885/K-33822
	3.7500	1.2188	1.3	0.8	88.0	96.5	K-53176/K-53375
	3.7500	1.2188	1.3	2.3	88.0	96.5	K-53176/K-53377
	3.7500	1.2188	2.0	0.8	88.0	96.5	K-53178/K-53375
	3.7500	1.2188	2.0	2.3	88.0	96.5	K-53178/K-53377
	3.7500	1.2188	3.5	0.8	88.0	96.5	K-53177/K-53375
	3.7500	1.2188	3.5	0.8	101.0	122.0	K-HM 903249/K-HM 903210
	3.8750	1.2188	1.3	1.5	88.0	96.5	K-53176/K-53387 X
	4.0000	1.3750	3.5	3.3	151.0	190.0	K-527/K-522
	4.2500	1.4375	3.5	3.3	151.0	190.0	K-535/K-532 X
	4.3750	1.5000	3.5	3.3	151.0	190.0	K-535/K-532 A
4.7500	1.6250	3.5	3.3	168.0	212.0	K-615/K-612	
1.7710	3.6718	1.1875	3.5	3.3	110.0	146.0	K-3776/K-3720
1.7712	3.3465	0.8125	2.0	1.5	70.4	81.5	K-358 X/K-354 X
	4.1333	0.9257	2.5	2.5	110.0	146.0	K-HM 905843/K-HM 905810
1.7812	3.0625	0.7812	3.5	0.8	53.9	69.5	K-LM 603049/K-LM 603011
1.7960	3.2650	0.9375	3.5	0.8	80.9	106.0	K-25590/K-25520
	3.2650	1.0625	3.5	2.3	80.9	106.0	K-25590/K-25523
	3.2700	0.9400	3.5	2.0	80.9	106.0	K-25590/K-25522
1.8105	2.9518	0.7087	2.3	1.5	50.1	71.0	K-LM 503349/K-LM 503310
	3.5817	1.2598	3.5	3.5	121.0	156.0	K-HM 204049/K-HM 204010
1.8125	3.1250	0.6875	2.8	1.5	49.5	62.0	K-18690/K-18620
	3.3465	0.8125	2.3	1.5	70.4	81.5	K-359 S/K-354 X
1.8750	3.8125	0.8268	0.8	0.8	80.9	102.0	K-386 A/K-382 A
	4.0000	1.3750	3.5	3.3	151.0	190.0	K-528/K-522
1.8750	4.0000	1.3750	8.0	3.3	151.0	190.0	K-528 R/K-522
	4.3750	1.1875	3.5	3.3	95.2	114.0	K-55187/K-55437
	4.4375	1.1875	3.5	3.3	95.2	114.0	K-55187/K-55443
1.9375	4.0625	0.9314	3.5	3.3	176.0	240.0	K-5395/K-5335
	4.1250	1.4375	3.5	3.3	145.0	204.0	K-HM 807044/K-HM 807010
1.9685	3.6718	1.1875	3.5	3.3	110.0	146.0	50KW01/3720
2.0000	3.3465	0.6875	3.5	1.5	50.1	65.5	K-18790/K-18720
	3.5000	0.8125	3.5	1.3	76.5	91.5	K-368 A/K-362 A
	3.5433	0.9843	3.5	2.0	76.5	91.5	K-368 A/K-362 X
	3.6250	0.9688	3.5	0.8	85.8	118.0	K-28580/K-28521
	3.6718	1.1875	3.5	3.3	110.0	146.0	K-3780/K-3720
	3.7500	1.0938	3.5	0.8	105.0	137.0	K-33889/K-33822
	3.8437	0.9688	3.5	0.8	89.7	129.0	K-28678/K-28622
	4.0000	1.3750	3.5	3.3	151.0	190.0	K-529 X/K-522

Dimensions					Load Rating		AEC Bearing
inch					kN		
d	D	B	r (mm)	r <sub>1</sub> (mm)	Dynamic (C)	Static (C <sub>0</sub> )	
2.0625	4.1250	1.1688	3.5	3.3	157.0	224.0	K-4580/K-4535
	4.1250	1.1875	6.4	3.3	130.0	173.0	K-45284/K-45220
	4.1250	1.4375	3.5	3.3	145.0	204.0	K-HM807046/K-HM 807010
	4.2500	1.4375	3.5	3.3	151.0	190.0	K-537/K-532 X
	4.3750	1.1875	3.5	3.3	105.0	140.0	K-HM907643/K-HM 907614
	4.3750	1.1875	3.5	3.3	95.2	114.0	K-55200/K-55437
	4.3750	1.5000	3.5	3.3	151.0	190.0	K-537/K-532 A
	4.4375	1.1875	3.5	3.3	95.2	114.0	K-55200/K-55443
	4.6250	1.3125	3.5	3.3	128.0	150.0	K-66200/K-66462
	3.6250	0.9688	0.8	3.5	85.8	118.0	28584/28521
2.1250	3.5000	0.7500	2.3	2.0	583.0	78.0	K-LM 806649/K-LM 806610
	3.7500	1.0938	1.5	0.8	105.0	137.0	K-33895/K-33822
2.1250	4.1250	1.4375	3.5	3.3	145.0	204.0	K-HM 807049/K-HM 807010
	4.2500	1.4375	3.5	3.3	151.0	190.0	K-539/K-532 X
	4.3750	1.5000	3.5	3.3	151.0	190.0	K-539/K-532 A
	4.7500	1.6250	3.5	3.3	168.0	212.0	K-621/K-612
2.1875	4.8750	1.4375	3.3	3.5	157.6	291.0	CK 72212/2/SK 72487/3
	5.0000	1.7500	3.5	3.3	209.0	275.0	K-65212/K-65500
	3.8437	0.9688	3.5	3.5	89.7	129.0	K-28680/K-28622
	4.8125	1.7188	1.3	1.3	201.0	305.0	K-5566/K-5535
2.2500	3.8125	0.8268	2.3	0.8	80.9	102.0	K-387/K-382 A
	3.8125	0.8268	3.5	0.8	80.9	102.0	K-387 A/K-382 A
	3.8125	0.8268	5.0	0.8	80.9	102.0	K-387 AS/K-382 A
	3.8125	1.0000	2.3	2.3	80.9	102.0	K-387/K-382 S
	3.8125	1.0000	3.5	2.3	80.9	102.0	K-387 A/K-382 S
	3.8125	1.0000	5.0	2.3	80.9	102.0	K-387 AS/K-382 S
	3.8437	0.9688	3.5	0.8	89.7	129.0	K-28682/K-28622
	3.8750	0.8268	2.3	0.8	80.9	102.0	K-387/K-382
	3.8750	0.8268	3.5	0.8	80.9	102.0	K-387 A/K-382
	3.8750	0.8268	5.0	0.8	80.9	102.0	K-387 AS/K-382
2.2650	3.9370	0.8268	2.3	2.0	80.9	102.0	K-387/K-383 A
	3.9370	0.8268	3.5	2.0	80.9	102.0	K-387 A/K-383 A
	3.9370	0.8268	5.0	2.0	80.9	102.0	K-387 AS/K-383 A
	4.1250	1.1875	2.3	3.3	121.0	160.0	K-462/K-453 X
	4.2500	1.0938	2.3	2.3	121.0	160.0	K-462/K-453 AS
	4.4375	1.1875	8.0	3.3	142.0	204.0	K-39581/K-39520
	4.4375	1.1875	3.5	3.3	142.0	204.0	K-39580/K-39520
	4.7238	1.2894	3.5	0.8	142.0	204.0	K-39580/K-39528
	4.7500	1.6250	3.5	3.3	212.0	186.0	K-623/K-612
	5.0000	1.7500	3.5	3.3	209.0	275.0	K-65225/K-65500
2.2650	3.8125	0.8268	3.5	0.8	80.9	102.0	K-388 A/K-382 A
	3.8125	1.0000	3.5	2.3	80.9	102.0	K-388 A/K-382 S
	3.8750	0.8268	3.5	0.8	80.9	102.0	K-388 A/K-382
	3.9370	0.8268	3.5	2.0	80.9	102.0	K-388 A/K-383 A
2.3750	3.9370	1.0000	3.5	3.3	85.8	125.0	K-28985/K-28921
	4.0000	1.0000	3.5	3.3	85.8	125.0	K-28985/K-28920
	5.0000	1.4375	3.5	1.5	165.0	236.0	K-HM 813841/K-HM 813811
	5.0000	1.7500	3.5	3.3	209.0	275.0	K-65237/K-65500

Dimensions					Load Rating		AEC Bearing
inch					kN		
d	D	B	r (mm)	r <sub>1</sub> (mm)	Dynamic (C)	Static (C <sub>0</sub> )	
2.4375	5.1250	1.4375	5.0	3.3	151.0	180.0	K-HM 9112245/K-HM 911241n
	5.3750	1.8125	3.5	3.3	229.0	375.0	K-H 715334/K-H 715311
	5.7500	1.6250	3.5	3.3	198.0	236.0	K-H 913842/K-H 913810
2.5000	5.7500	1.6250	7.0	3.3	198.0	236.0	K-H 913843/K-H 913810
	4.1250	0.8438	2.0	2.0	85.8	112.0	K-39250/K39412
	4.2500	1.0000	3.5	3.3	89.7	137.0	K-29585/K-29520
2.5625	4.3307	0.8661	3.5	1.3	88.0	118.0	K-395/K-394 A
	4.4375	1.1875	3.5	3.3	142.0	204.0	K-39585/K-39520
	4.4375	1.1875	3.5	3.3	123.0	183.0	K-3982/K-3920
2.5979	4.8750	1.5000	3.5	3.3	173.0	240.0	K-559/K-552 A
	5.1181	1.4646	3.0	3.6	194.3	370.0	565XL/562SL
	5.3447	2.1250	3.5	3.3	286.0	400.0	K-6379/K-6320
2.5979	4.8809	1.6339	7.0	3.5	224.0	310.0	K-H 212749/K-H 212710
2.6250	4.3307	0.8661	0.8	1.3	88.0	118.0	K-395 A/K-394 A
	4.3307	0.8661	3.5	1.3	88.0	118.0	K-395 S/K-394 A
	4.3307	1.0000	3.5	1.3	89.7	137.0	K-29590/K-29521
2.6250	4.4375	1.1875	3.5	3.3	123.0	183.0	K-3984/K-3920
	4.4375	1.1875	3.5	0.8	123.0	183.0	K-3984/K-3925
	4.4375	1.1875	3.5	3.3	142.0	204.0	K-39590/K-39520
2.6250	4.6250	1.1875	3.5	3.3	123.0	190.0	K-33262/K-33462
	4.7244	1.1730	3.5	0.8	123.0	190.0	K-33262/K-33472
	4.8750	1.5000	3.5	3.3	172.0	240.0	K-560/K-552 A
2.6875	5.3447	2.1250	4.3	3.3	286.0	400.0	K-6386/K-6320
	5.3750	1.6250	3.5	3.3	194.0	260.0	K-641/K-632
	4.3307	0.8661	2.3	1.3	88.0	118.0	K-399 A/K-394 A
2.7500	5.3750	1.8125	3.5	3.3	229.0	375.0	K-H 715343/K-H 715311
	6.3750	1.9375	3.5	3.3	260.0	335.0	K-9278/K-9220
	3.9062	0.6693	1.5	1.5	46.8	76.5	K-LL 713149/K-LL 713110
2.7500	4.4375	1.0000	1.5	3.3	99.0	156.0	K-29675/K-29620
	4.6250	1.1875	3.5	3.3	123.0	190.0	K-33275/K-33462
	4.7244	1.1730	3.5	0.8	123.0	190.0	K-33275/K-33472
2.7500	4.7244	1.1730	3.5	2.0	132.0	186.0	K-482/K-472
	4.7244	1.2813	3.5	3.3	154.0	228.0	K-47487/K-47420
	4.8750	1.1875	3.5	3.3	132.0	186.0	K-482/K-472 X
2.7559	5.0000	1.4375	3.5	3.3	176.0	255.0	K-566/K-563
	4.7244	1.1730	2.0	2.0	132.0	186.0	K-484/K-472
	4.6250	1.1875	3.5	3.3	123.0	190.0	K-33281/K-33462
2.8125	4.7244	1.1730	3.5	0.8	123.0	190.0	K-33281/K-33472
	4.7244	1.2813	3.5	3.3	154.0	228.0	K-47490/K-47420
	5.0000	1.4375	3.5	1.5	165.0	236.0	K-HM 813849/K-813811
2.8750	5.3750	1.6250	6.4	3.3	194.0	260.0	K-645/K-632
	5.3750	1.6250	3.5	3.3	224.0	290.0	K-H 414249/K-H 414210
	5.3750	1.8125	3.5	3.3	229.0	375.0	K-H 715345/K-H 715311
2.8750	4.4375	1.0000	3.5	3.3	99.0	156.0	K-29685/K-29620
	4.6250	1.1875	3.5	3.3	123.0	190.0	K-33287/K-33462
	4.7244	1.1730	3.5	0.8	123.0	190.0	K-33287/K-33472
2.8750	5.0000	1.4375	3.5	3.3	176.0	255.0	K-567/K-563
	5.0000	1.4375	4.8	3.3	176.0	255.0	K-567 X/K-563

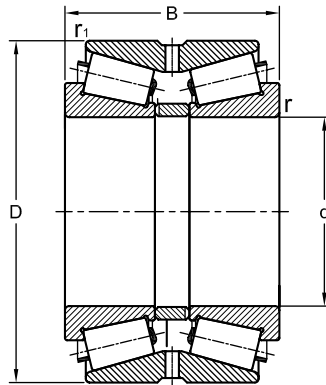
Dimensions					Load Rating		AEC Bearing
inch					kN		
d	D	B	r (mm)	r <sub>1</sub> (mm)	Dynamic (C)	Static (C <sub>0</sub> )	
3.0000	4.3125	0.7500	1.5	1.5	58.3	102.0	K-L 814749/K-L 814710
	5.0000	1.1875	3.5	3.3	138.0	204.0	K-42687/K-42620
	5.0000	1.1875	6.4	3.3	138.0	204.0	K-42688/K-42620
	5.2500	1.1875	6.4	3.3	145.0	220.0	K-495 AX/K-492 A
	5.2500	1.1875	3.5	3.3	145.0	220.0	K-495 A/K-492 A
	5.2500	1.3125	6.4	3.3	165.0	260.0	K-47678/K-47620
	5.3750	1.1875	3.5	3.3	145.0	220.0	K-495 A/K-493
	5.3750	1.1875	6.4	3.3	145.0	220.0	K-495 AX/K-493
	5.5000	1.4375	3.5	3.3	187.0	280.0	K-575/K-572 X
	5.5115	1.4375	3.5	3.3	187.0	280.0	K-575/K-572
	5.7500	1.6250	3.5	3.3	220.0	320.0	K-659/K-653
	5.9090	1.7500	3.5	3.3	286.0	405.0	K-748 S/K-742
	6.0000	1.6250	3.5	3.3	220.0	320.0	K-659/K-652
	6.3750	1.9375	3.5	3.3	260.0	335.0	K-9285/K-9220
3.0625	4.6250	1.0000	3.5	3.3	101.0	163.0	K-LM 814849/K-LM 814810
3.1875	5.2500	1.1875	3.5	3.3	145.0	220.0	K-496/K-492 A
	5.3750	1.1875	3.5	3.3	145.0	220.0	K-496/K-493
3.2500	4.9375	1.0000	3.5	1.5	112.0	186.0	K-27687/K-27620
	5.2500	1.1875	3.5	3.3	145.0	220.0	K-495/K-492 A
	5.2500	1.3125	3.5	3.3	165.0	260.0	K-47686/K-47620
	5.3750	1.1875	3.5	3.3	145.0	220.0	K-495/K-493
	5.5000	1.4375	3.5	3.3	187.0	280.0	C-580/K-572 X
	5.5115	1.4375	3.5	3.3	187.0	280.0	K-580/K-572
	5.5115	1.4375	6.8	3.3	187.0	280.0	K-582/K-572
	5.7500	1.6250	3.5	3.3	220.0	320.0	K-663/K-653
	5.9090	1.7500	3.5	3.3	286.0	405.0	K-749 A/K-742
	6.0000	1.6250	3.5	3.3	220.0	320.0	K-663/K-652
3.2813	4.9375	1.0000	3.5	1.5	112.0	186.0	K-27690/K-27620
3.3125	5.2500	1.1875	3.5	3.3	145.0	220.0	K-498/K-492 A
	5.3750	1.1875	3.5	3.3	145.0	220.0	K-498/K-493
3.3475	5.9090	1.7500	3.5	3.3	286.0	405.0	K-749/K-742
3.3750	5.2500	1.1875	3.5	3.3	145.0	220.0	K-497/K-492 A
	5.3750	1.1875	3.5	3.3	145.0	220.0	K-497/K-493



# Taper Roller Bearings

Double Row  
Metric Series

**97, 209, 430**



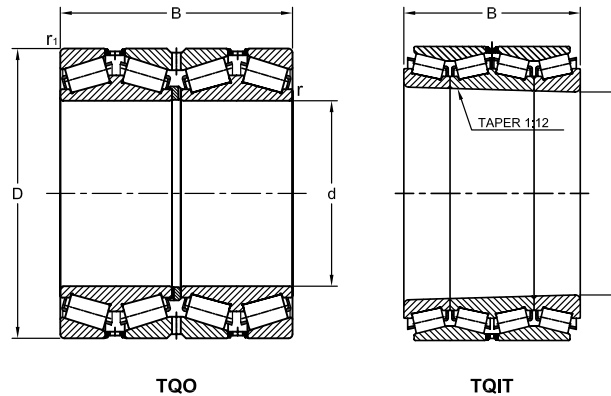
Dimensions					Load Rating		AEC Bearing
mm					kN		
d	D	B	r	r <sub>1</sub>	Dynamic (C)	Static (C <sub>0</sub> )	
30	62	50	1	0.6	58.7	54.0	97506
40	80	55	2	1.0	91.2	87.9	97508
45	85	55	2	1.0	86.7	83.6	97509
50	90	55	2	1.0	100.0	107.0	97510
55	100	60	2	1.0	122.0	121.0	97511
60	110	65	2	1.0	141.0	148.0	97512
70	125	75	2	1.0	185.0	199.0	97514
75	130	75	2	1.0	193.0	212.0	97515
80	140	80	3	1.0	224.0	246.0	97516
90	160	96	3	1.0	294.0	336.0	97518
95	170	108	3	1.0	380.0	440.0	97519
100	180	83	3	1.0	457.0	1124.1	430220
	180	112	3	1.0	391.0	462.0	97520
105	190	118	3	1.0	455.0	546.0	97521
120	200	110	3	0.6	429.0	517.0	2097724
	215	136	3	1.0	591.0	744.0	97524
130	210	110	3	0.6	475.0	599.0	2097726
	230	149	4	1.5	650.0	841.0	97526
150	210	85	3	0.6	270.0	3900.0	2097930
	250	138	3	1.0	667.0	838.0	2097730
	270	172	4	1.5	924.0	1180.0	97530
160	270	150	3	1.0	791.0	1050.0	2097732
180	250	95	3	0.6	417.0	583.0	2097936
	280	134	3	1.0	715.0	950.0	2097136
	300	164	4	1.5	958.0	1290.0	2097736
190	260	95	3	0.6	431.0	618.0	2097938
	320	172	4	1.5	991.0	1300.0	2097738
200	280	118	3	1.0	545.0	8200.0	2097940
	310	151	3	1.0	857.0	1210.0	2097140
	340	183	4	1.5	1250.0	1680.0	2097740
220	300	110	3	1.0	577.0	900.0	2097944
	340	165	4	1.5	1030.0	1400.0	2097144

Dimensions					Load Rating		AEC Bearing
mm					kN		
d	D	B	r	r <sub>1</sub>	Dynamic (C)	Static (C <sub>0</sub> )	
240	370	200	5	1.5	1400.0	1870.0	2097744
	320	109	3	1.0	585.0	927.0	2097948
	340	165	4	1.0	1030.0	1400.0	2097148
260	400	210	5	1.5	1580.0	2170.0	2097748
	360	136	3	1.0	850.0	1280.0	2097952
	400	186	5	1.5	1350.0	1960.0	2097152
280	440	225	5	1.5	1920.0	2590.0	2097752
	420	189	5	1.5	1420.0	2030.0	2097156
300	420	160	4	1.0	1260.0	1800.0	2097960
340	460	160	4	1.0	1350.0	2000.0	2097968
360	480	160	4	1.0	1390.0	2090.0	2097972

# Taper Roller Bearings

Four Row  
Metric & Inch Series

**HM, LM, M**

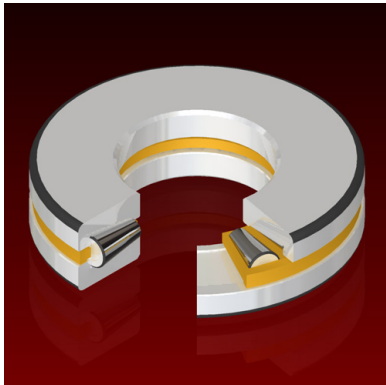


Dimensions					Load Rating		AEC Bearing	Design
mm					kN			
d	D	B	r	r <sub>1</sub>	Dynamic (C)	Static (C <sub>0</sub> )		
95.25	137	122.24	0.8	2.3	452.6	553.5	LM 119348 D/11/11 D	TQO
127	183	158.75	1.5	3.3	746.7	1014.1	48290 DW/220/220 D	TQO
177	248	192.09	1.5	3.3	1003.8	2773.9	67790 D/20/21 D	TQO
181	284	239.72	3.3	3.3	1473.2	3662.7	M 240631 T/611 TD/611 D	TQIT
206	282	190.50	0.8	3.3	1390.2	2160.9	67986 DW/20/21 D	TQO
220	340	305.00	3.0	3.0	2522.2	5760.8	2077144	TQO
221	314	239.71	1.5	3.3	2057.7	2856.9	M 244249 D/210/210 D	TQO
244	327	193.68	1.5	3.3	1685.7	2429.7	LM 247748 D/710/710 D	TQO
260.35	422	317.50	6.4	3.3	3661.3	5161.8	HMC 252349 D/310/310 D	TQO
267	356	228.60	1.5	3.3	1835.2	5324.4	LM 451349 DW/10/10 D	TQO
280	460	324.00	5.0	5.0	2800.0	3840.0	1077756	TQO
286	381	244.48	1.5	3.3	2614.8	4007.2	LM 654648 DW/610/610 D	TQO
289	406	298.45	3.3	3.3	3684.6	5362.2	M 255449 D/410/410 D	TQO
300	460	390.00	4.0	4.0	3240.0	5070.0	2077160	TQO
318	448	327.03	3.3	3.3	4960.6	7280.0	HM 259049 D/10/10 D	TQO
343	457	252.50	1.5	3.3	2388.0	6780.0	LM 761649 DW/610/610 D	TQO
348	470	292.10	3.3	3.3	3989.9	5676.4	HM 262449 DW/410/410 D	TQO
368	524	382.59	3.3	6.4	6949.1	10245.7	M 265049 DW/010/010 D	TQO
384	546	400.05	3.3	6.4	6981.2	9950.2	HM 266449 DW/410/410 D	TQO
406	546	288.92	1.5	6.4	3576.8	10589.9	LM 767749 DW/10/10 D	TQO
450	595	368.00	3.0	6.0	7209.0	10603.5	M 270449 DW/410/410 D	TQO
480	700	420.00	6.0	2.5	5468.0	15466.6	577796	TQIT
500	720	420.00	8.0	8.0	5660.0	9050.0	771/500	TQO
630	920	515.00	8.0	8.0	8790.0	14600.0	771/630	TQO

# Taper Roller Bearings

Thrust  
Inch Series

T



Dimensions				Load Rating		AEC Bearing
mm				kN		
d	D	B	r	Dynamic (C)	Static (C <sub>0</sub> )	
76.200	161.925	33.338				T 311
111.760	223.520	55.880	3.3	91.2	87.9	T 441
127.000	266.700	58.738	4.8	86.7	83.6	T 511
128.588	266.700	58.738	4.8	100.0	107.0	T 511 A
127.000	250.825	55.562	4.8	122.0	121.0	T 520
152.400	317.500	69.850	4.8	141.0	148.0	T 611
165.100	311.150	88.900	6.4	185.0	199.0	T 651
168.275	304.800	69.850	6.4	193.0	212.0	T 661
174.625	358.775	82.550	6.4	224.0	246.0	T 691
177.800	368.300	82.550	8.0	294.0	336.0	T 711
203.200	419.100	92.075	8.0	380.0	440.0	T 811
228.600	431.800	88.773	9.7	457.0	1124.1	T 9020
228.600	482.600	104.775	11.2	391.0	462.0	T 911
234.950	482.600	104.775	11.2	391.0	462.0	T 911 A
234.950	546.100	127.000	16.0	455.0	546.0	T 921
190.500	368.300	92.250	8.7	429.0	517.0	T 9727
206.375	419.100	120.650	11.4	591.0	744.0	T 9848
241.300	496.300	127.000	16.0	475.0	599.0	T 9936
260.000	360.000	92.000	1.0	650.0	841.0	350981 C <sup>+</sup>
273.050	552.450	132.715	6.4	4372.0	20777.0	N 3243 A
350.000	490.000	130.000	1.1	990.0	4650.0	351100 C <sup>1</sup>

<sup>1</sup> Double Direction Thrust Bearing