































	Referenztable Reference Table	06		Kunststofflager (POM) Plastic Bearings	122
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KEY TO APPLICATION ICONS

	Ölschmierung Oil lubrication		Lösungsmittelresistent Chemical solvent resistant		Geeignet für hohe Temperaturen Suitable for high temperatures
	Fettschmierung Grease lubrication		Wetterbeständig Outdoor durability		Gummidichtscheiben verfügbar Rubber seal option available
	Keine Schmierung No lubricant		Geeignet für niedrige Temperaturen Suitable for low temperatures		Geeignet für hohe Drehzahlen Suitable for high speed applications
	Geeignet für hohe Tragzahlen Suitable for heavy load rating		Geeignet für geräuscharme Anwendungen Suitable for low noise applications		Metalldichtscheiben verfügbar Metal shield option available
	Einseitig gerichtete Umdrehung One way rotation				

Material

S = Rostfreier Stahl / **Stainless Steel**
Kein Präfix / **No Prefix** = Chromstahl / **Chrome Steel**

Referenz / Bearing type

MF = Metrisch mit Flansch / **Metric with Flange**
MR = Metrisch / **Metric**
R = Zöllig / **Inch**
FR = Zöllig mit Flansch / **Inch with Flange**
F = Metrisch mit Flansch / **Metric with Flange**
Kein Präfix / **No Prefix** = Metrisch / **Metric**

Typenbezeichnung / Bearing Part Number

Dichtscheiben / Shields

2Z = Metaldichtscheiben / **Metal Shields**
2RS = Gummidichtscheiben / **Rubber Seals**
2TS = PTFE Dichtscheiben / **PTFE Seals**
2TZ = Metall / PTFE Dichtungsscheiben / **Metal / PTFE Shields**

Kein Suffix / **No Suffix** = Offen / **Open**

S	FR	144	-2Z	.. Abm./Dimen. ..
	FR	85		"
		635	-2RS	"
S		682X		"

Allgemeine Merkmale / General Details

Material	Komponenten Components		Merkmale Details	Anwendungsbereiche Application
	Ringe Rings	Kugeln Balls		
Kugellagerchromstahl Ball Bearing Chrome Steel 100 Cr6 (Nr. 1.3505)	✓	✓	Gute Verschleißfestigkeit Hard wearing Schlag- und Korrosionsbeständigkeit Good shock and corrosive resistance	Standard Standard
Rostfreier Stahl Stainless Steel AISI 440 C (Nr. 1.4125) †	✓	✓	Sehr gute Korrosionsbeständigkeit Very good corrosive resistance	Nahrungsmittel, Pharma, Schiffsbau und andere korrosive Umgebungen Food industry, pharmaceutical industry, ship building and other corrosive surroundings
AISI 420 (Nr. 1.4021)	✓	✓	Sehr gute Korrosionsbeständigkeit Very good corrosive resistance	Nahrungsmittel, Pharma, Schiffsbau und andere korrosive Umgebungen Food industry, pharmaceutical industry, ship building and other corrosive surroundings
AISI304	✓	✓	Sehr gute Korrosionsbeständigkeit Very good corrosive resistance	Korrosive Medien Corrosive surroundings
AISI316	✓	✓	Ausgezeichnete Korrosionsbeständigkeit Excellent corrosive resistance	Korrosive Medien Corrosive surroundings
AISI316L	✓	✓	Ausgezeichnete Korrosionsbeständigkeit Excellent corrosive resistance	Korrosive Medien Corrosive surroundings
Si3N4	✓	✓	Hohe thermische Isolation, Exzellente Korrosionsbeständigkeit High temperature insulation Excellent corrosive resistance	Chemische-, Elektro- und Nahrungsmittelindustrie, Marine, Medizintechnik Chemistry, Electronic, Food, Marine & Medical
Zr02	✓	✓	Hohe thermische Isolation, Exzellente Korrosionsbeständigkeit High temperature insulation Excellent corrosive resistance	Chemische-, Elektro- und Nahrungsmittelindustrie, Marine, Medizintechnik Chemistry, Electronic, Food, Marine & Medical
Zr02	✓	✓	Hohe thermische Isolation, Exzellente Korrosionsbeständigkeit High temperature insulation Excellent corrosive resistance	Chemische-, Elektro- und Nahrungsmittelindustrie, Marine, Medizintechnik Chemistry, Electronic, Food, Marine & Medical

†Die statische und dynamische Belastung von AISI 440 C-Lagern liegt bei ca. 75-80% von 100 Cr6-Lagern.

†The static and dynamic load rating of AISI 440 C - ball bearings is approximately 75-80% of the 100 Cr6 - ball bearings.

Technische Eigenschaften der Kunststoffe / Plastic properties

Material	HDPE	PP	POM	PA6	PA66	PBT GF30	PVDF	PPS	PTFE	PEEK	PI
Long time working temp.(°C)	90	100	110	100	100	120	150	230	260	260	300
Density	0.96	0.91	1.42	1.13	1.14	1.53	1.77	1.35	2.18	1.32	1.35
Tensile strength at yield	25	30	70	85	80		50	75	25	95	
Tensile strength at break	35		170			13.5	4.6				116
Ball indentation hardness	50	80		160	170	190	80	190	30		
Impact strength	(None)					60		50			75
Coefficient of sliding friction	0.29	0.3	0.34	0.38-0.45	0.35-0.42	0.24	0.3		0.08-0.01	0.3-0.38	0.3-0.38
Slide wear		11	4.6	0.23	0.9				21		0.3-0.38
Vicat softening temp. (°C)	130	165	175	220	260	225	172	280	327	343	
DSC/Tg (°C) Heat deflection temp.	-95	-18	-60	60	72	60	-18	90	-20	143	
HDT/A (°C) Heat deflection temp.	42-49	65	124	75	100	210	95	110	55	140	368
HDT/B (°C) Max working temp.	70-85	105	170	190	>200	225	140		121	182	
Short time (°C)	90	140	150	160	170	200	150	260	260	300	350
Coef. of linear expansion	13-15	17	10	8	8	3.5	13	5	12	5.0	4.9
Dielectric constant at 1Mhz	2.4	2.25	3.7	3.7-7	3.6-5	3.8	8		2.1	3.2-3.3	3.1
Volume resistivity	>										
Anti-hot water and alkali for washing	+	+	-	(+)	(+)	-	+	+	+	+	(+)
Flammability UL94	HB	HB	HB	HB	HB	HB	V0	V0	V0	V0	V0
Anti-weathering	-	-	-	-	-	-	+	-	-	-	(+)

Für weitergehende technische Informationen wenden Sie sich bitte an Ihren offiziellen ZEN-Händler
For further technical information please contact your local authorized ZEN distributor

Technische Merkmale / Technical Details

Material	Härte Hardness	Max. Temp. Max. Temp.	C	Si	Mn	P	S	Cr	Mo	Ni
100 Cr6 (Nr. 1.3505)	60-64HRC	Max. 150°C	0.5~1.10	0.15~0.35	≤0.5	≤0.025	≤0.025	1.3~1.6	≤0.08	
AISI440 C (Nr. 1.4125)	≥58HRC	Max. 230°C	0.95~1.2	≤1.1	≤1.0	≤0.04	≤0.03	16.0~18.0	≤0.75	
AISI420 (Nr. 1.4021)	≤55HRC	Max. 230°C	0.16~0.25	≤1.0	≤1.5	≤0.04	≤0.03	12.0~14.0		
AISI304	15~20HRC	Max. 900°C	≤0.07	≤1.00	≤2.00	≤0.035	≤0.030	17.0~19.0		8.0~10.0
AISI316	15~20HRC	Max. 900°C	≤0.08	≤1.00	≤2.00	≤0.035	≤0.030	16.0~19.0	1.80-2.50	10.0~14.0
AISI 316L	15~20HRC	Max. 450°C	≤0.03	≤1.00	≤2.00	≤0.035	≤0.030	16.0~18.0	2.00-3.00	12.0~15.0
Si3N4	75~80HRC	Max. 1050°C	Component:		88% Si3N4 / 4% Al2O3 / 4% Y2O3 / 4% Other					
ZrO2	70HRC	Max. 750°C	Component:		95% ZrO2 / 5% Y2O3					
Al2O3	80HRC	Max. 1750°C	Component:		99.5% Al2O3 / 0.5% Others					

Tolerance of inner ring (ISO)

d(mm)		ΔDmp						ΔDs		VDp										VDmp							
		P0		P6		P5		P4		P4		P0		P6			P5		P4		P0	P6	P5	P4			
										Diameter series		Diameter series			Diameter series			Diameter series							Diameter series		
										0,2,3		7,8,9	0	2,3		7,8,9	0	2,3		7,8,9					0,2,3		7,8,9
Over	incl.	Upper	Lower		Lower	Lower	Upper	Lower	Max.		Max.		Max.		Max.		Max.		Max.	Max.	Max.	Max.					
0.6(1)	2.5	0	-8	-7	-5	-4	0	-4	10	8	6	9	7	5	5	4	4	3	6	5	3	2					
2.5	10	0	-8	-7	-5	-4	0	-4	10	8	6	9	7	5	5	4	4	3	6	5	3	2					
10	18	0	-8	-7	-5	-4	0	-4	10	8	6	9	7	5	5	4	4	3	6	5	3	2					
18	30	0	-10	-8	-6	-5	0	-5	13	10	8	10	8	6	6	5	5	4	8	6	3	2.5					
30	50	0	-12	-10	-8	-6	0	-6	15	12	9	13	10	8	8	6	6	5	9	8	4	3					
50	80	0	-15	-12	-9	-7	0	-7	19	15	11	15	15	9	9	7	7	5	11	9	5	3.5					
80	120	0	-20	-15	-10	-8	0	-8	25	25	15	19	19	11	10	8	8	6	15	11	5	4					
120	180	0	-25	-18	-13	-10	0	-10	31	31	19	23	23	14	13	10	10	8	19	14	7	5					
180	250	0	-30	-22	-15	-12	0	-12	38	38	23	28	28	17	15	12	12	9	23	17	8	6					
250	315	0	-35	-25	-18	x	0	x	44	44	26	31	31	19	18	14	x	x	26	19	9	x					
315	400	0	-40	-30	-23	x	0	x	50	50	30	38	38	23	23	18	x	x	30	23	12	x					

Note 1: The upper value of the bore diameter in this table is not applicable when the distance from the bearing ring face is less than 1.2 times the chamfer dimension.
Note 2: According to the revision of ANSI/ABMA Std.20-1996, the classes ABEC1-ABEC3-ABEC5-ABEC7 are equivalent to SS0-CLASS6-CLASS5-CLASS4.

Tolerance of outer ring (ISO)

D(mm)		Δd_{mp}				Δd_s		$V d_p$										$V d_{mp}$			
		P0		P6		P5		P4		P0		P6		P5		P4		P0	P6	P5	P4
Over	incl.	Upper	Lower	Lower	Lower	Lower	Lower	Upper	Lower	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
2.5(1)	6	0	-8	-7	-5	-4	0	-4	10	8	6	10	9	7	5	9	5	4	4	3	2
6	18	0	-8	-7	-5	-4	0	-4	10	8	6	10	9	7	5	9	5	4	4	3	2
18	30	0	-9	-8	-6	-5	0	-5	12	9	7	12	10	8	6	10	6	5	5	4	3
30	50	0	-11	-9	-7	-6	0	-6	14	11	8	16	11	9	7	13	7	5	6	5	4
50	80	0	-13	-11	-9	-7	0	-7	16	13	10	20	14	11	8	16	9	7	7	5	4
80	120	0	-15	-13	-10	-8	0	-8	19	15	11	26	16	16	10	20	10	8	8	6	5
120	150	0	-18	-15	-11	-9	0	-9	23	23	14	30	19	19	11	25	11	8	9	7	6
150	180	0	-25	-18	-13	-10	0	-10	31	31	19	38	23	23	14	30	13	10	10	8	7
180	250	0	-30	-20	-15	-11	0	-11	38	38	23	x	25	25	15	x	15	11	11	8	6
250	315	0	-35	-25	-18	-13	0	-13	44	44	26	x	31	31	19	x	18	14	13	10	8
315	400	0	-40	-28	-20	-15	0	-15	50	50	30	x	35	35	21	x	20	15	15	11	8
400	500	0	-45	-33	-23	x	0	x	56	56	34	x	41	41	25	x	23	17	x	x	10
500	630	0	-50	-38	-28	x	0	x	63	63	38	x	48	48	29	x	28	21	x	x	8
630	800	0	-75	-45	-35	x	0	x	94	94	55	x	56	56	34	x	35	26	x	x	6

Note(1): Size 2.5mm is included in this classification.
Note(2): The outer ring width variations for CLASS0 and CLASS6 are the same as for the inner ring of the same bearing size.

d	: Nominal bore diameter	D	: Nominal outside diameter
Δd_{mp}	: Single plane mean bore diameter deviation	ΔD_{mp}	: Single plane mean outside diameter deviation
Δd_s	: Deviation of a single bore diameter	ΔD_s	: Deviation of a single outside diameter
$V d_p$: Bore diameter variation in a single radial plane	$V D_p$: Outside diameter variation in a single radial plane
$V d_{mp}$: Mean bore diameter variation	$V D_{mp}$: Mean outside diameter variation
$\Delta B_s (\Delta C_s)$: Deviation of a single inner and outer ring width from the nominal dimension	K α	: Radial runout of assembled bearing outer ring
$V B_s (V C_s)$: Variation of a inner and outer ring width	S α	: Variation of a outside surface generatrix inclination with face
K α	: Radial runout of assembled bearing inner ring	Sea	: Assembled bearing outer ring face runout with raceway
S α	: Face runout with bore	V C_s	: Variation of the outer ring width
S α	: Assembled bearing inner ring face runout with raceway	ΔD_s	: Flange outside diameter deviation
		ΔC_s	: Flange width deviation

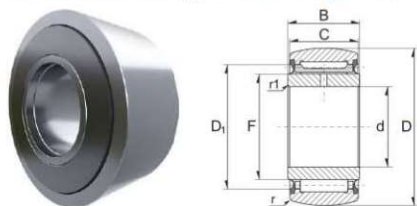
Unit μm																
ΔB_s (ΔC_s)			VBs (VCs) ^a				Kia				Sd		Sia		d(mm)	
Single bearing			Inner/outer ring		Inner ring		P0	P6	P5	P4	P5	P4	P5	P4		
F0 F6	P5 P4	P0	P6	P5	P4											
Upper	Lower	Lower	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Over	Incl.
0	-40	-40	12	12	5	2.5	10	5	4	2.5	7	3	7	3	0.6(1)	2.5
0	-120	-40	15	15	5	2.5	10	6	4	2.5	7	3	7	3	2.5	10
0	-120	-80	20	20	5	2.5	10	7	4	2.5	7	3	7	3	10	18
0	-120	-120	20	20	5	2.5	13	8	4	3	8	4	8	4	18	30
0	-120	-120	20	20	5	3	15	10	5	4	8	4	8	4	30	50
0	-150	-150	25	25	6	4	20	10	5	5	8	5	8	5	50	80
0	-200	-200	25	25	7	4	25	13	6	5	9	5	9	5	80	120
0	-250	-250	30	30	8	5	30	18	8	6	10	6	10	7	120	180
0	-300	-300	30	30	10	6	40	20	10	8	11	7	13	8	180	250
0	-350	-350	35	35	13	x	50	25	13	x	13	x	15	x	250	315
0	-400	-400	40	40	15	x	60	30	15	x	15	x	20	x	315	400

Note(1): 0.6mm is included in this classification.
Note(2): The inner ring width variation is the same for the outer ring of the same bearing size, CLASS5 and CLASS4 referring to outer ring only.

K α		SD		Sea		V C_s^b		D(mm)		ΔD_s		ΔC_s	
		P0	P6	P5	P4	P5	P4	P5	P4	P0	P6	P5	P4
Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
15	8	5	3	8	4	8	5	5	2.5	2.5(1)	6	+125	-50
15	8	5	3	8	4	8	5	5	2.5	6	18	+125	-50
15	9	6	4	8	4	8	5	5	2.5	18	30	+125	-50
20	10	7	5	8	4	8	5	5	2.5	30	50	+125	-50
25	13	8	5	8	4	10	5	6	3	50	80	+125	-50
35	18	10	6	9	5	11	6	8	4	80	120		
40	20	11	7	10	5	13	7	8	5	120	150		
45	23	13	8	10	5	14	8	8	5	150	180		
50	25	15	10	11	7	15	10	10	7	180	250		
60	30	18	11	13	8	18	11	11	7	250	315		
70	35	20	13	13	10	20	13	13	8	315	400		
80	50	23	x	15	x	23	x	15	x	400	500		
100	60	25	x	18	x	25	x	18	x	500	630		
120	75	30	x	20	x	30	x	20	x	630	800		

Note 1: The lower value of the outside diameter in this table is not applicable when the distance from the bearing ring face is less than 1.2 times the chamfer dimension.
Note 2: According to the revision of AFBMA Std20-1978, the classes ABEC1 ABEC3 ABEC5 ABEC7 are equivalent to CLASS0 • CLASS6 • CLASS5 • CLASS4

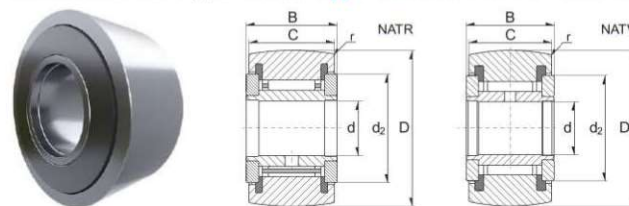
Stützrollen der Type / Yoke Type Track Rollers NA



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Dimension (mm)								Designation/Type	*Load Rating		*Limiting Speed (rpm)	Mass (g) approx.
d	D	C	B	F	D ₁	r	r ₁		C, dyn. N	C, stat. N		
6.0	19.0	11.8	12.0	10.0	16.0	0.3	0.3	NA22/6-2RS	3900	3650	9000	22 g
8.0	24.0	11.8	12.0	12.0	18.0	0.3	0.3	NA22/8-2RS	4800	4800	7000	34 g
10.0	30.0	13.8	14.0	14.0	20.0	0.6	0.3	NA2200-2RS	7000	8000	5500	60 g
12.0	32.0	13.8	14.0	16.0	22.0	0.6	0.3	NA2201-2RS	7500	9000	4700	67 g
15.0	35.0	13.8	14.0	20.0	26.0	0.6	0.3	NA2202-2RS	7600	9500	3400	75 g
17.0	40.0	15.8	16.0	22.0	28.0	1.0	0.3	NA2203-2RS	9900	13700	3000	112 g
20.0	47.0	17.8	18.0	25.0	33.0	1.0	0.3	NA2204-2RS	1500	18300	2300	177 g
25.0	52.0	17.8	18.0	30.0	38.0	1.0	0.3	NA2205-2RS	15700	19900	1800	209 g
30.0	62.0	19.8	20.0	35.0	43.0	1.0	0.3	NA2206-2RS	18400	25500	1400	324 g
35.0	72.0	22.7	23.0	42.0	50.0	1.1	0.6	NA2207-2RS	23000	35500	1100	505 g
40.0	80.0	22.7	23.0	48.0	57.0	1.1	0.6	NA2208-2RS	27500	40500	850	628 g
50.0	90.0	22.7	23.0	58.0	68.0	1.1	0.6	NA2210-2RS	28000	42500	650	690 g

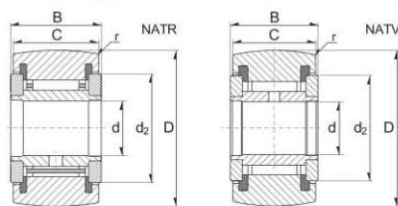
Stützrollen der Type / Yoke Type Track Rollers NATR & NATV



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Dimension (mm)						Designation/Type	*Load Rating		Fatigue Limit Load C _{lim} N	*Limiting Speed (rpm)	Mass (g) approx.
d	D	B	C	d ₂	r		C, dyn. N	C, stat. N			
5.0	16.0	12.0	11.0	12.5	0.15	NATR 5	3150	3300	415	14000	14 g
5.0	16.0	12.0	11.0	12.5	0.15	NATV 5	4900	6500	860	3800	15 g
5.0	16.0	12.0	11.0	12.5	0.15	NATR 5-PP	3150	3300	415	14000	14 g
5.0	16.0	12.0	11.0	12.5	0.15	NATV 5-PP	4900	6500	860	3800	15 g
5.0	16.0	12.0	11.0	12.5	0.15	NATR 5-PPX	3150	3300	415	14000	14 g
5.0	16.0	12.0	11.0	12.5	0.15	NATV 5-PPX	4900	6500	860	3800	15 g
6.0	19.0	12.0	11.0	15.0	0.15	NATR 6	3500	3900	485	11000	20 g
6.0	19.0	12.0	11.0	15.0	0.15	NATV 6	5400	7900	1040	3100	21 g
6.0	19.0	12.0	11.0	15.0	0.15	NATR 6-PP	3500	3900	485	11000	19 g
6.0	19.0	12.0	11.0	15.0	0.15	NATV 6-PP	5400	7900	1040	3100	21 g
6.0	19.0	12.0	11.0	15.0	0.15	NATR 6-PPX	3500	3900	485	11000	19 g
6.0	19.0	12.0	11.0	15.0	0.15	NATV 6-PPX	5400	7900	1040	3100	21 g
8.0	24.0	15.0	14.0	19.0	0.3	NATR 8	5500	6400	810	7500	41 g
8.0	24.0	15.0	14.0	19.0	0.3	NATV 8	7800	11400	1430	2500	42 g
8.0	24.0	15.0	14.0	19.0	0.3	NATR 8-PP	5500	6400	810	7500	38 g
8.0	24.0	15.0	14.0	19.0	0.3	NATV 8-PP	7800	11400	1430	2500	41 g
8.0	24.0	15.0	14.0	19.0	0.3	NATR 8-PPX	5500	6400	810	7500	38 g
8.0	24.0	15.0	14.0	19.0	0.3	NATV 8-PPX	7800	11400	1430	2500	41 g
10.0	30.0	15.0	14.0	23.0	0.6	NATR 10	6800	8400	1070	5500	64 g
10.0	30.0	15.0	14.0	23.0	0.6	NATV 10	9500	14600	1840	2100	65 g
10.0	30.0	15.0	14.0	23.0	0.6	NATR 10-PP	6800	8400	1070	5500	61 g
10.0	30.0	15.0	14.0	23.0	0.6	NATV 10-PP	9500	14600	1840	2100	64 g
10.0	30.0	15.0	14.0	23.0	0.6	NATR 10-PPX	6800	8400	1070	5500	61 g
10.0	30.0	15.0	14.0	23.0	0.6	NATV 10-PPX	9500	14600	1840	2100	64 g
12.0	32.0	15.0	14.0	25.0	0.6	NATR 12	6900	8800	1720	4500	71 g
12.0	32.0	15.0	14.0	25.0	0.6	NATV 12	9700	15400	1950	1800	72 g
12.0	32.0	15.0	14.0	25.0	0.6	NATR 12-PP	6900	8800	1720	4500	66 g
12.0	32.0	15.0	14.0	25.0	0.6	NATV 12-PP	9700	15400	1950	1800	69 g
12.0	32.0	15.0	14.0	25.0	0.6	NATR 12-PPX	6900	8800	1720	4500	66 g
12.0	32.0	15.0	14.0	25.0	0.6	NATV 12-PPX	9700	15400	1950	1800	69 g

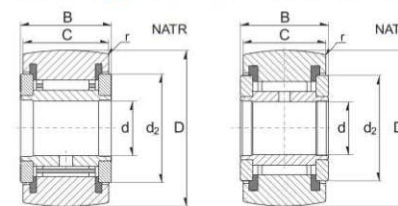
Stützrollen der Type / Yoke Type Track Rollers NATR & NATV



162

Dimension (mm)						Designation/Type	*Load Rating		Fatigue Limit Load C _{unw} N	*Limiting Speed (rpm)	Mass (g) approx.
d	D	B	C	d ₂	r		C, stat. N	C, dyn. N			
15.0	35.0	19.0	18.0	27.6	0.6	NATR 15	9800	14100	1700	3600	104 g
15.0	35.0	19.0	18.0	27.6	0.6	NATV 15	12800	23000	2900	1600	109 g
15.0	35.0	19.0	18.0	27.6	0.6	NATR 15-PP	9800	14100	1700	3600	95 g
15.0	35.0	19.0	18.0	27.6	0.6	NATV 15-PP	12800	23000	2900	1600	101 g
15.0	35.0	19.0	18.0	27.6	0.6	NATR 15-PPX	9800	14100	1700	3600	95 g
15.0	35.0	19.0	18.0	27.6	0.6	NATV 15-PPX	12800	23000	2900	1600	101 g
17.0	40.0	21.0	20.0	31.5	1.0	NATR 17	10900	15500	1850	2900	144 g
17.0	40.0	21.0	20.0	31.5	1.0	NATV 17	14800	26500	3050	1400	152 g
17.0	40.0	21.0	20.0	31.5	1.0	NATR 17-PP	10900	15500	1850	2900	139 g
17.0	40.0	21.0	20.0	31.5	1.0	NATV 17-PP	14800	26500	3050	1400	147 g
17.0	40.0	21.0	20.0	31.5	1.0	NATR 17-PPX	10900	15500	1850	2900	139 g
17.0	40.0	21.0	20.0	31.5	1.0	NATV 17-PPX	14800	26500	3050	1400	147 g
20.0	47.0	25.0	24.0	36.5	1.0	NATR 20	15500	25500	3000	2400	246 g
20.0	47.0	25.0	24.0	36.5	1.0	NATV 20	20600	42000	5200	1300	254 g
20.0	47.0	25.0	24.0	36.5	1.0	NATR 20-PP	15500	25500	3000	2400	236 g
20.0	47.0	25.0	24.0	36.5	1.0	NATV 20-PP	20600	42000	5200	1300	245 g
20.0	47.0	25.0	24.0	36.5	1.0	NATR 20-PPX	15500	25500	3000	2400	236 g
20.0	47.0	25.0	24.0	36.5	1.0	NATV 20-PPX	20600	42000	5200	1300	245 g
25.0	52.0	25.0	24.0	41.5	1.0	NATR 25	15400	26500	3010	1800	275 g
25.0	52.0	25.0	24.0	41.5	1.0	NATV 25	20500	44000	5400	1000	285 g
25.0	52.0	25.0	24.0	41.5	1.0	NATR 25-PP	15400	26500	3010	1800	271 g
25.0	52.0	25.0	24.0	41.5	1.0	NATV 25-PP	20500	44000	5400	1000	281 g
25.0	52.0	25.0	24.0	41.5	1.0	NATR 25-PPX	15400	26500	3010	1800	271 g
25.0	52.0	25.0	24.0	41.5	1.0	NATV 25-PPX	20500	44000	5400	1000	281 g
30.0	62.0	29.0	28.0	51.0	1.0	NATR 30	23400	38500	4650	1300	470 g
30.0	62.0	29.0	28.0	51.0	1.0	NATV 30	30500	62000	7800	850	481 g
30.0	62.0	29.0	28.0	51.0	1.0	NATR 30-PP	23400	38500	4650	1300	444 g
30.0	62.0	29.0	28.0	51.0	1.0	NATV 30-PP	30500	62000	7800	850	468 g
30.0	62.0	29.0	28.0	51.0	1.0	NATR 30-PPX	23400	38500	4650	1300	444 g
30.0	62.0	29.0	28.0	51.0	1.0	NATV 30-PPX	30500	62000	7800	850	468 g

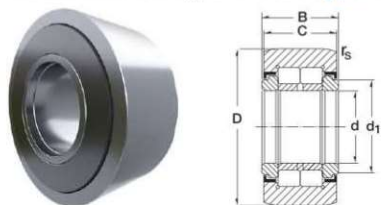
Stützrollen der Type / Yoke Type Track Rollers NATR & NATV



163

Dimension (mm)						Designation/Type	*Load Rating		Fatigue Limit Load C _{unw} N	*Limiting Speed (rpm)	Mass (g) approx.
d	D	B	C	d ₂	r		C, stat. N	C, dyn. N			
35.0	72.0	29.0	28.0	58.0	1.1	NATR 35-PP	25000	44000	5300	1000	547 g
35.0	72.0	29.0	28.0	58.0	1.1	NATV 35-PP	33000	71000	8900	750	630 g
35.0	72.0	29.0	28.0	58.0	1.1	NATR 35-PPX	25000	44000	5300	1000	547 g
35.0	72.0	29.0	28.0	58.0	1.1	NATV 35-PPX	33000	71000	8900	750	630 g
40.0	80.0	32.0	30.0	66.0	1.1	NATR 40-PP	32500	58000	7000	850	795 g
40.0	80.0	32.0	30.0	66.0	1.1	NATV 40-PP	41000	88000	11000	650	832 g
40.0	80.0	32.0	30.0	66.0	1.1	NATR 40-PPX	32500	58000	7000	850	795 g
40.0	80.0	32.0	30.0	66.0	1.1	NATV 40-PPX	41000	88000	11000	650	832 g
50.0	90.0	32.0	30.0	76.0	1.1	NATR 50-PP	31500	59000	7100	650	867 g
50.0	90.0	32.0	30.0	76.0	1.1	NATV 50-PP	40000	92000	11600	550	969 g
50.0	90.0	32.0	30.0	76.0	1.1	NATR 50-PPX	31500	59000	7100	650	867 g
50.0	90.0	32.0	30.0	76.0	1.1	NATV 50-PPX	40000	92000	11600	550	969 g

Stützrollen der Type / Yoke Type Track Rollers NUTR



164

Dimension (mm)						Designation/Type	*Load Rating		*Limiting Speed x1000rpm Grease	Mass (g) approx.
d	D	B	C	r _s	d ₁ min		C, dyn. N	C, stat. N		
15.0	35.0	19.0	18.0	0.6	20.0	NUTR 15	15000	16800	6.5	99 g
17.0	40.0	21.0	20.0	1.0	22.0	NUTR 17	18400	22600	5.5	147 g
15.0	42.0	19.0	18.0	0.6	20.0	NUTR 15 42	18100	21900	6.5	158 g
17.0	47.0	21.0	20.0	1.0	22.0	NUTR 17 47	21300	28000	5.5	220 g
20.0	47.0	25.0	24.0	1.0	27.0	NUTR 20	28000	35000	4.2	245 g
20.0	52.0	25.0	24.0	1.0	27.0	NUTR 20 52	31500	41000	4.2	321 g
25.0	52.0	25.0	24.0	1.0	31.0	NUTR 25	29000	37500	3.4	281 g
25.0	62.0	25.0	24.0	1.0	31.0	NUTR 25 62	35500	50000	3.4	450 g
30.0	62.0	29.0	28.0	1.0	38.0	NUTR 30	40000	50000	2.6	465 g
30.0	72.0	29.0	28.0	1.0	38.0	NUTR 30 72	47500	64000	2.6	697 g
35.0	72.0	29.0	28.0	1.1	44.0	NUTR 35	44500	60000	2.1	630 g
35.0	80.0	29.0	28.0	1.1	44.0	NUTR 35 80	51000	72000	2.1	836 g
40.0	80.0	32.0	30.0	1.1	51.0	NUTR 40	55000	75000	1.6	816 g
45.0	85.0	32.0	30.0	1.1	55.0	NUTR 45	56000	78000	1.4	883 g
40.0	90.0	32.0	30.0	1.1	51.0	NUTR 40 90	66000	95000	1.6	1129 g
50.0	90.0	32.0	30.0	1.1	60.0	NUTR 50	57000	81000	1.3	950 g
45.0	100.0	32.0	30.0	1.1	55.0	NUTR 45 100	71000	107000	1.4	1396 g
50.0	110.0	32.0	30.0	1.1	60.0	NUTR 50 110	76000	120000	1.3	1690 g

Alle Referenzen können mit zylindrischen Aussenring geliefert werden
All references can be supplied with cylindrical outer ring



Produktfokus / Product focus



ZON™

Laufrolle der LR Serie LR Series (Track Rollers)



Series LR2, LR50, LR52, LR53 and LR6.

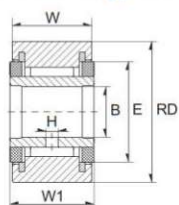
- ✓ Geeignet für hohe radiale und bidirektionale axiale Lasten
Suitable for high radial loads and bidirectional axial forces
- ✓ Besonders stabiler Außenring zur Aufnahme hoher Kräfte
Thick walled outer rings
- ✓ Zylindrischer oder sphärischer Außenring
Flat and Spherical outside surface
- ✓ Lebenszeitschmierung
Life time grease
- ✓ Doppel- oder einreihiges Design
Single or double row
- ✓ Erhältlich auch in Edelstahl und/oder FDA-befettung
Also available in Stainless Steel and FDA grease

ZEN-Laufrollen der Baureihe LR eignen sich besonders für Anwendungen mit hohen Tragzahlen, so z. B. in Führungs-, Schienen- und Transportsystemen.

ZEN LR Track Rollers are suitable for applications such as cam controls, transportation systems and all types of sliding applications.

SIEHE SEITE 114 / SEE PAGE 114

Stützrollen der Type / Yoke Type Track Rollers CYR



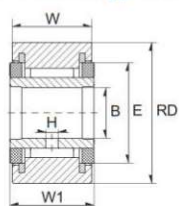
166

Dimension (inch)					
RD	W	B	W1	E	H
0,750	0,500	0,250	0,5625	39/64	3/32
0,750	0,500	0,250	0,5625	39/64	3/32
0,750	0,500	0,250	0,5625	39/64	3/32
0,875	0,500	0,250	0,5625	39/64	3/32
0,875	0,500	0,250	0,5625	39/64	3/32
0,875	0,500	0,250	0,5625	39/64	3/32
1,000	0,625	0,3125	0,6875	25/32	3/32
1,125	0,625	0,3125	0,6875	25/32	3/32
1,125	0,625	0,3125	0,6875	25/32	3/32
1,125	0,625	0,3125	0,6875	25/32	3/32
1,000	0,625	0,3125	0,6875	25/32	3/32
1,000	0,625	0,3125	0,6875	25/32	3/32
1,250	0,750	0,375	0,8125	63/64	3/32
1,250	0,750	0,375	0,8125	63/64	3/32
1,250	0,750	0,375	0,8125	63/64	3/32
1,375	0,750	0,375	0,8125	63/64	3/32
1,375	0,750	0,375	0,8125	63/64	3/32
1,375	0,750	0,375	0,8125	63/64	3/32
1,500	0,875	0,4375	0,9375	1 3/32	3/32
1,500	0,875	0,4375	0,9375	1 3/32	3/32
1,500	0,875	0,4375	0,9375	1 3/32	3/32
1,625	0,875	0,4375	0,9375	1 3/32	3/32
1,625	0,875	0,4375	0,9375	1 3/32	3/32
1,625	0,875	0,4375	0,9375	1 3/32	3/32
1,750	1,000	0,500	1,0625	1 1/4	3/32
1,750	1,000	0,500	1,0625	1 1/4	3/32
1,750	1,000	0,500	1,0625	1 1/4	3/32
1,875	1,000	0,500	1,0625	1 1/4	3/32
1,875	1,000	0,500	1,0625	1 1/4	3/32
1,875	1,000	0,500	1,0625	1 1/4	3/32

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Designation/Type					*Load Rating		Weight (kg) approx.
TORRINGTON	RBC	ZEN	SMITH	INA	C, stat. (lbs)	C, dyn. (lbs)	
YCR-12	Y-24	CYR-3/4	YR-3/4	RF-12	4130	1660	0.03 kg
YCRS-12	Y-24-L	CYR-3/4-S	YR-3/4X	RF-12-PP	4130	1660	0.03 kg
YCRSC-12	CY-24-L	CCYR-3/4-S	YR-3/4XC	-	4130	1660	0.03 kg
YCR-14	Y-28	CYR-7/8	YR-7/8	RF-14	4130	1660	0.04 kg
YCRS-14	Y-28-L	CYR-7/8-S	YR-7/8X	RF-14-PP	4130	1660	0.04 kg
YCRSC-14	CY-28-L	CCYR-7/8-S	YR-7/8XC	-	4130	1660	0.04 kg
YCR-16	Y-32	CYR-1	YR-1	RF-16	6120	2225	0.07 kg
YCR-18	Y-36	CYR-1 1/8	YR-1 1/8	RF-18	6120	2225	0.08 kg
YCRS-18	Y-36-L	CYR-1 1/8-S	YR-1 1/8X	RF-18-PP	6120	2225	0.08 kg
YCRSC-18	CY-36-L	CCYR-1 1/8-S	YR-1 1/8XC	-	6120	2225	0.08 kg
YCRS-16	Y-32-L	CYR-1-S	YR-1X	RF-16-PP	6120	2225	0.07 kg
YCRSC-16	CY-32-L	CCYR-1-S	YR-1XC	-	6120	2225	0.07 kg
YCR-20	Y-40	CYR-1 1/4	YR-1 1/4	RF-20	8500	3930	0.11 kg
YCRS-20	Y-40-L	CYR-1 1/4-S	YR-1 1/4X	RF-20-PP	8500	3930	0.11 kg
YCRSC-20	CY-40-L	CCYR-1 1/4-S	YR-1 1/4XC	-	8500	3930	0.11 kg
YCR-22	Y-44	CYR-1 3/8	YR-1 3/8	RF-22	8500	3930	0.14 kg
YCRS-22	Y-44-L	CYR-1 3/8-S	YR-1 3/8X	RF-22-PP	8500	3930	0.14 kg
YCRSC-22	CY-44-L	CCYR-1 3/8-S	YR-1 3/8XC	-	8500	3930	0.14 kg
YCR-24	Y-48	CYR-1 1/2	YR-1 1/2	RF-24	11280	4840	0.19 kg
YCRS-24	Y-48-L	CYR-1 1/2-S	YR-1 1/2X	RF-24-PP	11280	4840	0.19 kg
YCRSC-24	CY-48-L	CCYR-1 1/2-S	YR-1 1/2XC	-	11280	4840	0.19 kg
YCR-26	Y-52	CYR-1 5/8	YR-1 5/8	RF-26	11280	4840	0.23 kg
YCRS-26	Y-52-L	CYR-1 5/8-S	YR-1 5/8X	RF-26-PP	11280	4840	0.23 kg
YCRSC-26	CY-52-L	CCYR-1 5/8-S	YR-1 5/8XC	-	11280	4840	0.23 kg
YCR-28	Y-56	CYR-1 3/4	YR-1 3/4	RF-28	15840	6385	0.29 kg
YCRS-28	Y-56-L	CYR-1 3/4-S	YR-1 3/4X	RF-28-PP	15840	6385	0.29 kg
YCRSC-28	CY-56-L	CCYR-1 3/4-S	YR-1 3/4XC	-	15840	6385	0.29 kg
YCR-30	Y-60	CYR-1 7/8	YR-1 7/8	RF-30	15840	6385	0.36 kg
YCRS-30	Y-60-L	CYR-1 7/8-S	YR-1 7/8X	RF-30-PP	15840	6385	0.36 kg
YCRSC-30	CY-60-L	CCYR-1 7/8-S	YR-1 7/8XC	-	15840	6385	0.36 kg

Stützrollen der Type / Yoke Type Track Rollers CYR



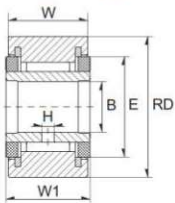
168

Dimension (inch)					
RD	W	B	W1	E	H
2,000	1,250	0,625	1,3125	1 13/32	3/32
2,250	1,250	0,625	1,3125	1 13/32	1/8
2,250	1,250	0,625	1,3125	1 13/32	1/8
2,250	1,250	0,625	1,3125	1 13/32	1/8
2,000	1,250	0,625	1,3125	1 13/32	3/32
2,000	1,250	0,625	1,3125	1 13/32	3/32
2,500	1,500	0,750	1,5625	1 11/16	1/8
2,500	1,500	0,750	1,5625	1 11/16	1/8
2,500	1,500	0,750	1,5625	1 11/16	1/8
2,750	1,500	0,750	1,5625	1 11/16	1/8
2,750	1,500	0,750	1,5625	1 11/16	1/8
2,750	1,500	0,750	1,5625	1 11/16	1/8
3,000	1,750	1,000	1,8125	2 1/8	1/8
3,250	1,750	1,000	1,8125	2 1/8	1/8
3,250	1,750	1,000	1,8125	2 1/8	1/8
3,250	1,750	1,000	1,8125	2 1/8	1/8
3,000	1,750	1,000	1,8125	2 1/8	1/8
3,000	1,750	1,000	1,8125	2 1/8	1/8
3,500	2,000	1,125	2,0625	2 7/16	1/8
3,500	2,000	1,125	2,0625	2 7/16	1/8
3,500	2,000	1,125	2,0625	2 7/16	1/8
4,000	2,250	1,250	2,3125	2 51/64	1/8
4,000	2,250	1,250	2,3125	2 51/64	1/8
4,000	2,250	1,250	2,3125	2 51/64	1/8
5,000	2,750	1,750	2,8750	3 9/16	3/16
5,000	2,750	1,750	2,8750	3 9/16	3/16
6,000	3,250	2,250	3,3750	4 15/32	3/16
6,000	3,250	2,250	3,3750	4 15/32	3/16
7,000	3,750	2,750	3,8750	5 3/16	3/16
7,000	3,750	2,750	3,8750	5 3/16	3/16

Designation/Type					*Load Rating		Weight (kg) approx.
TORRINGTON	RBC	ZEN	SMITH	INA	C, stat. (lbs)	C, dyn. (lbs)	
YCR-32	Y-64	CYR-2	YR-2	RF-32	21140	8090	0.48 kg
YCR-36	Y-72	CYR-2 1/4	YR-2 1/4	RF-36	21140	8090	0.60 kg
YCRS-36	Y-72-L	CYR-2 1/4-S	YR-2 1/4X	RF-36-PP	21140	8090	0.60 kg
YCRSC-36	CY-72-L	CCYR-2 1/4-S	YR-2 1/4XC	-	21140	8090	0.60 kg
YCRS-32	Y-64-L	CYR-2-S	YR-2X	RF-32-PP	21140	8090	0.48 kg
YCRSC-32	CY-64-L	CCYR-2-S	YR-2XC	-	21140	8090	0.48 kg
YCR-40	Y-80	CYR-2 1/2	YR-2 1/2	RF-40	32900	11720	0.82 kg
YCRS-40	Y-80-L	CYR-2 1/2-S	YR-2 1/2X	RF-40-PP	32900	11720	0.82 kg
YCRSC-40	CY-80-L	CCYR-2 1/2-S	YR-2 1/2XC	-	32900	11720	0.82 kg
YCR-44	Y-88	CYR-2 3/4	YR-2 3/4	RF-44	32900	11720	1.02 kg
YCRS-44	Y-88-L	CYR-2 3/4-S	YR-2 3/4X	RF-44-PP	32900	11720	1.02 kg
YCRSC-44	CY-88-L	CCYR-2 3/4-S	YR-2 3/4XC	-	32900	11720	1.02 kg
YCR-48	Y-96	CYR-3	YR-3	RF-48	49820	15720	1.41 kg
YCR-52	Y-104	CYR-3 1/4	YR-3 1/4	RF-52	49820	15720	1.64 kg
YCRS-52	Y-104-L	CYR-3 1/4-S	YR-3 1/4X	RF-52-PP	49820	15720	1.64 kg
YCRSC-52	CY-104-L	CCYR-3 1/4-S	YR-3 1/4XC	-	49820	15720	1.64 kg
YCRS-48	Y-96-L	CYR-3-S	YR-3X	RF-48-PP	49820	15720	1.41 kg
YCRSC-48	CY-96-L	CCYR-3-S	YR-3XC	-	49820	15720	1.41 kg
YCR-56	Y-112	CYR-3 1/2	YR-3 1/2	RF-56	63250	22800	2.25 kg
YCRS-56	Y-112-L	CYR-3 1/2-S	YR-3 1/2X	RF-56-PP	63250	22800	2.25 kg
YCRSC-56	CY-112-L	CCYR-3 1/2-S	YR-3 1/2XC	-	63250	22800	2.25 kg
YCR-64	Y-128	CYR-4	YR-4	RF-64	89540	29985	3.20 kg
YCRS-64	Y-128-L	CYR-4-S	YR-4X	RF-64-PP	89540	29985	3.20 kg
YCRSC-64	CY-128-L	CCYR-4-S	YR-4XC	-	89540	29985	0.48 kg
YCRS-80	Y-160-L	CYR-5-S	YR-5X	-	135900	46575	6.50 kg
YCRSC-80	CY-160-L	CCYR-5-S	YR-5XC	-	135900	46575	6.50 kg
YCRS-96	Y-192-L	CYR-6-S	YR-6X	-	160900	60000	9.14 kg
YCRSC-96	CY-192-L	CCYR-6-S	YR-6XC	-	160900	60000	9.14 kg
YCRS-112	Y-224-L	CYR-7-S	-	-	213860	75380	14.71 kg
YCRSC-112	CY-224-L	CCYR-7-S	-	-	213860	75380	14.71 kg

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Stützrollen der Type / Yoke Type Track Rollers CYR



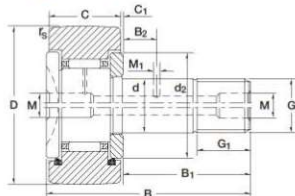
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Dimension (inch)					
RD	W	B	W1	E	H
8,000	4,250	3,255	4,500	4 3/8	1/4
8,000	4,250	3,255	4,500	4 3/8	1/4
9,000	4,750	3,755	5,000	5 1/16	5/16
9,000	4,750	3,755	5,000	5 1/16	5/16
10,000	5,250	4,255	5,500	5 15/32	3/8
10,000	5,250	4,255	5,500	5 15/32	3/8



Designation/Type					*Load Rating		Weight (kg) approx.
TORRINGTON	RBC	ZEN	SMITH	INA	C, stat. (lbs)	C, dyn. (lbs)	
-	-	CYR-8-S	-	-	288200	92200	21.45 kg
-	-	CCYR-8-S	-	-	288200	92200	21.45 kg
-	-	CYR-9-S	-	-	366850	113260	29.80 kg
-	-	CCYR-9-S	-	-	366850	113260	29.80 kg
-	-	CYR-10-S	-	-	431130	131545	40.46 kg
-	-	CCYR-10-S	-	-	431130	131545	40.46 kg

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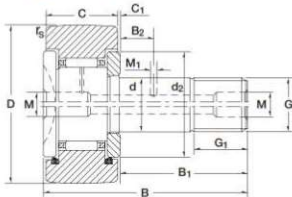
Dimensions (mm)				Outside Diameter (mm)	Designation /Type	Weight (g) approx.	With Eccentric Collar	Weight (g) approx.	Dimensions (mm)				
d	D	B	C						rs min	B1	B2	G	G1
6.0	16.0	28.0	11.0	16.0	KR 16	18 g	KRE 16	20 g	0.15	16.0	-	M6	8.0
6.0	16.0	28.0	11.0	16.0	KR 16PP	18 g	KRE 16PP	20 g	0.15	16.0	-	M6	8.0
6.0	16.0	28.0	11.0	16.0	KRV 16	20 g	KRV 16	22 g	0.15	16.0	-	M6	8.0
6.0	16.0	28.0	11.0	16.0	KRV 16PP	20 g	KRV 16PP	22 g	0.15	16.0	-	M6	8.0
8.0	19.0	32.0	11.0	19.0	KR 19	28 g	KRE 19	31 g	0.15	20.0	-	M8	10.0
8.0	19.0	32.0	11.0	19.0	KR 19PP	28 g	KRE 19PP	31 g	0.15	20.0	-	M8	10.0
8.0	19.0	32.0	11.0	19.0	KRV 19	32 g	KRV 19	35 g	0.15	20.0	-	M8	10.0
8.0	19.0	32.0	11.0	19.0	KRV 19PP	32 g	KRV 19PP	35 g	0.15	20.0	-	M8	10.0
10.0	22.0	36.0	12.0	22.0	KR 22	44 g	KRE 22	48 g	0.3	23.0	-	M10X1	12.0
10.0	22.0	36.0	12.0	22.0	KR 22PP	44 g	KRE 22PP	48 g	0.3	23.0	-	M10X1	12.0
10.0	22.0	36.0	12.0	22.0	KRV 22	45 g	KRV 22	49 g	0.3	23.0	-	M10X1	12.0
10.0	22.0	36.0	12.0	22.0	KRV 22PP	45 g	KRV 22PP	49 g	0.3	23.0	-	M10X1	12.0
10.0	26.0	36.0	12.0	26.0	KR 26	58 g	KRE 26	62 g	0.3	23.0	-	M10X1	12.0
10.0	26.0	36.0	12.0	26.0	KR 26PP	58 g	KRE 26PP	62 g	0.3	23.0	-	M10X1	12.0
10.0	26.0	36.0	12.0	26.0	KRV 26	61 g	KRV 26	65 g	0.3	23.0	-	M10X1	12.0
10.0	26.0	36.0	12.0	26.0	KRV 26PP	61 g	KRV 26PP	65 g	0.3	23.0	-	M10X1	12.0
12.0	30.0	40.0	14.0	30.0	KR 30	87 g	KRE 30	93 g	0.6	25.0	6.0	M12X1.5	13.0
12.0	30.0	40.0	14.0	30.0	KR 30PP	87 g	KRE 30PP	93 g	0.6	25.0	6.0	M12X1.5	13.0
12.0	30.0	40.0	14.0	30.0	KRV 30	89 g	KRV 30	95 g	0.6	25.0	6.0	M12X1.5	13.0
12.0	30.0	40.0	14.0	30.0	KRV 30PP	89 g	KRV 30PP	95 g	0.6	25.0	6.0	M12X1.5	13.0
12.0	32.0	40.0	14.0	32.0	KR 32	98 g	KRE 32	104 g	0.6	25.0	6.0	M12X1.5	13.0
12.0	32.0	40.0	14.0	32.0	KR 32PP	98 g	KRE 32PP	104 g	0.6	25.0	6.0	M12X1.5	13.0
12.0	32.0	40.0	14.0	32.0	KRV 32	100 g	KRV 32	106 g	0.6	25.0	6.0	M12X1.5	13.0
12.0	32.0	40.0	14.0	32.0	KRV 32PP	100 g	KRV 32PP	106 g	0.6	25.0	6.0	M12X1.5	13.0
16.0	35.0	52.0	18.0	35.0	KR 35	169 g	KRE 35	182 g	0.6	32.5	8.0	M16X1.5	17.0
16.0	35.0	52.0	18.0	35.0	KR 35PP	169 g	KRE 35PP	182 g	0.6	32.5	8.0	M16X1.5	17.0
16.0	35.0	52.0	18.0	35.0	KRV 35	171 g	KRV 35	184 g	0.6	32.5	8.0	M16X1.5	17.0
16.0	35.0	52.0	18.0	35.0	KRV 35PP	171 g	KRV 35PP	184 g	0.6	32.5	8.0	M16X1.5	17.0
16.0	35.0	52.0	18.0	35.0	NUKR 35	164 g	NUKRE 35	177 g	0.6	32.5 ^(*)	8.0	M16X1.5	17.0
18.0	40.0	58.0	20.0	40.0	KR 40	274 g	KRE 40	263 g	1	36.5	8.0	M18X1.5	19.0



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Dimensions (mm)							Nut Tightening Torque Ma Nm	*Load Ratings						*Limiting Speed x1000 rpm
M	M1	C1	D	Eccentric Collar				Stud Type Track Roller						
				h9	B1	e		C N	Co N	Cw N	Cow N	Fr perm	For perm	
4 ^(*)	-	0.6	12	9	7	0.5	3	3800	3750	3150	3300	-	-	22.0
4 ^(*)	-	0.6	12	9	7	0.5	3	3800	3750	3150	3300	-	-	16.0
4 ^(*)	-	0.6	12	9	7	0.5	3	6400	8500	4850	6500	-	-	8.5
4 ^(*)	-	0.6	12	9	7	0.5	3	6400	8500	4850	6500	-	-	8.5
4 ^(*)	-	0.6	14	11	9	0.5	8	4250	4600	3500	3900	-	-	20.0
4 ^(*)	-	0.6	14	11	9	0.5	8	4250	4600	3500	3900	-	-	14.0
4 ^(*)	-	0.6	14	11	9	0.5	8	7300	10800	5500	7900	-	-	7.0
4 ^(*)	-	0.6	14	11	9	0.5	8	7300	10800	5500	7900	-	-	7.0
4	-	0.6	17	13	10	0.5	15	5700	6500	4450	5200	-	-	16.0
4	-	0.6	17	13	10	0.5	15	5700	6500	4450	5200	-	-	11.0
4	-	0.6	17	13	10	0.5	15	8600	12900	6300	9100	-	-	6.0
4	-	0.6	17	13	10	0.5	15	8600	12900	6300	9100	-	-	6.0
4	3	0.6	17	13	10	0.5	15	5700	6500	5100	6300	-	-	16.0
4	3	0.6	17	13	10	0.5	15	5700	6500	5100	6300	-	-	11.0
4	3	0.6	17	13	10	0.5	15	8600	12900	7300	11300	-	-	6.0
4	3	0.6	17	13	10	0.5	15	8600	12900	7300	11300	-	-	6.0
6	3	0.6	23	15	11	0.5	22	8100	9700	6800	8400	-	-	11.0
6	3	0.6	23	15	11	0.5	22	8100	9700	6800	8400	-	-	8.3
6	3	0.6	23	15	11	0.5	22	12200	19000	9500	14600	-	-	4.5
6	3	0.6	23	15	11	0.5	22	12200	19000	9500	14600	-	-	4.5
6	3	0.8	27	15	11	0.5	22	8100	9700	7100	9000	-	-	11.0
6	3	0.8	27	15	11	0.5	22	8100	9700	7100	9000	-	-	8.3
6	3	0.8	27	15	11	0.5	22	12200	19000	10000	15800	-	-	4.5
6	3	0.8	27	15	11	0.5	22	12200	19000	10000	15800	-	-	4.5
6	3	0.8	27	20	14	1	58	12900	19000	9700	14100	-	-	7.0
6	3	0.8	27	20	14	1	58	12900	19000	9700	14100	-	-	7.0
6	3	0.8	27	20	14	1	58	18300	35000	12800	23000	-	-	3.4
6	3	0.8	27	20	14	1	58	18300	35000	12800	23000	-	-	3.4
6	3	0.8 ^(*)	21 ^(*)	20	14	1	58	23000	27000	16000	18300	8300	16400	6.5
6	3	0.8	32	22	16	1	87	14200	20400	10900	15500	-	-	6.0

Kurvenrollen der Type / Stud Type Track Rollers KR & NUKR



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Dimensions (mm)				Outside Diameter (mm)	Designation /Type	Weight (g) approx.	With Eccentric Collar	Weight (g) approx.	Dimensions (mm)				
d	D	B	C						rs min	B1	B2	G	G1
18.0	40.0	58.0	20.0	40.0	KR 40PP	247 g	KRE 40PP	263 g	1	36.5	8.0	M18X1.5	19
18.0	40.0	58.0	20.0	40.0	KRV 40	249 g	KRVE 40	265 g	1	36.5	8.0	M18X1.5	19
18.0	40.0	58.0	20.0	40.0	KRV 40PP	249 g	KRVE 40PP	265 g	1	36.5	8.0	M18X1.5	19
18.0	40.0	58.0	20.0	40.0	NUKR 40	242 g	NUKRE 40	258 g	1	36.5 ^(*)	8.0	M18X1.5	19
20.0	47.0	66.0	24.0	47.0	NUKR 47	380 g	NUKRE 47	400 g	1	40.5	9.0	-	21
24.0	72.0	80.0	28.0	72.0	NUKR 72	1020 g	NUKRE 72	1050 g	1	49.5	11.0	-	25

The suffix 'X' indicates a cylindrical outside surface, e.g. KR16X.

The basic load ratings 'C' and 'Cow' apply if the bearing out ring (with cylindrical outside surface) is mounted in a housing bore. When used as a track roller, the load ratings Cw and Cow apply

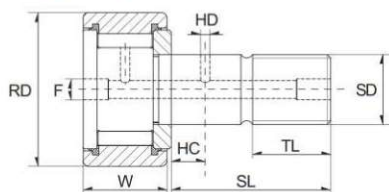
For oil lubrication, the speed can be increased by approximately 30%, except for sealed executions

NUKRE 35 B=31.5; C=1.8; D=24
NUKRE 40 B=35.5; C=1.8; D=26"

Lubrication hole is in the end face at the ribbed end of the stud only.

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Dimensions (mm)							Nut Tightening Torque Ma Nm	*Load Ratings						*Limiting Speed x1000 rpm
M	M1	C1	D	Eccentric Collar				Stud Type Track Roller						
				h9	B1	e		C N	Co N	Cw N	Cow N	Fr perm	For perm	
6	3	0.8	32	22	16	1	87	14200	20400	10900	15500	-	-	6.0
6	3	0.8	32	22	16	1	87	21000	39500	14800	26500	-	-	2.9
6	3	0.8	32	22	16	1	87	21000	39500	14800	26500	-	-	2.9
6	3	0.8 ^(*)	23 ^(*)	22	16	1	87	24800	31000	18500	22800	13200	22800	5.5
6	4	0.8	27	24	18	1	120	28500	37500	19900	26000	16200	32500	4.2
8	4	1.3	44	28	22	1	220	45000	65000	31500	45500	31500	63000	2.6



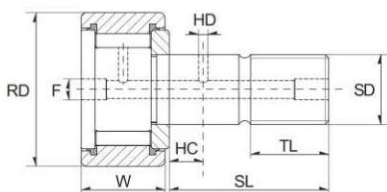
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Dimension (inch)								
RD	W	SD	SL	TL	FINE THR'DS	HC	HD	F
0,500	0,375	0,190	5/8	1/4	10-32	-	-	1/8
0,500	0,344	0,190	1/2	1/4	10-32	-	-	1/8
0,500	0,344	0,190	1/2	1/4	10-32	-	-	1/8
0,500	0,375	0,190	5/8	1/4	10-32	-	-	1/8
0,5625	0,375	0,190	5/8	1/4	10-32	-	-	1/8
0,5625	0,375	0,190	5/8	1/4	10-32	-	-	1/8
0,625	0,4375	0,250	3/4	5/16	1/4-28	-	-	1/8
0,625	0,406	0,250	5/8	5/16	1/4-28	-	-	1/8
0,625	0,406	0,250	5/8	5/16	1/4-28	-	-	1/8
0,625	0,4375	0,250	3/4	5/16	1/4-28	-	-	1/8
0,6875	0,4375	0,250	3/4	5/16	1/4-28	-	-	1/8
0,6875	0,4375	0,250	3/4	5/16	1/4-28	-	-	1/8
0,750	0,500	0,375	7/8	3/8	3/8-24	1/4	3/32	3/16
0,750	0,500	0,375	7/8	3/8	3/8-24	1/4	3/32	3/16
0,875	0,500	0,375	7/8	3/8	3/8-24	1/4	3/32	3/16
0,875	0,500	0,375	7/8	3/8	3/8-24	1/4	3/32	3/16
1,000	0,625	0,4375	1	1/2	7/16-20	1/4	3/32	3/16
1,000	0,625	0,4375	1	1/2	7/16-20	1/4	3/32	3/16
1,125	0,625	0,4375	1	1/2	7/16-20	1/4	3/32	3/16
1,125	0,625	0,4375	1	1/2	7/16-20	1/4	3/32	3/16
1,250	0,750	0,500	1 1/4	5/8	1/2-20	5/16	3/32	3/16
1,250	0,750	0,500	1 1/4	5/8	1/2-20	5/16	3/32	3/16
1,375	0,750	0,500	1 1/4	5/8	1/2-20	5/16	3/32	3/16
1,375	0,750	0,500	1 1/4	5/8	1/2-20	5/16	3/32	3/16
1,500	0,875	0,625	1 1/2	3/4	5/8-18	3/8	3/32	3/16
1,500	0,875	0,625	1 1/2	3/4	5/8-18	3/8	3/32	3/16
1,625	0,875	0,625	1 1/2	3/4	5/8-18	3/8	3/32	3/16
1,625	0,875	0,625	1 1/2	3/4	5/8-18	3/8	3/32	3/16
1,750	1,000	0,750	1 3/4	7/8	3/4-16	7/16	3/32	3/16
1,750	1,000	0,750	1 3/4	7/8	3/4-16	7/16	3/32	3/16



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Designation/Type				Recom. clamping torque (lbs-inch)	*Load Rating		Weight (kg) approx.
TORRINGTON	RBC	ZEN	SMITH		C, stat. (lbs)	C, dyn. (lbs)	
CR-8-1	S-16	CF-1/2	CR-1/2	15	790	680	0.02 kg
CR-8	-	CF-1/2-N	CR-1/2-A	15	720	620	0.02 kg
CRS-8	-	CF-1/2-N-S	CR-1/2-AX	15	720	620	0.02 kg
CRS-8-1	S-16-L	CF-1/2-S	CR-1/2X	15	790	680	0.02 kg
-	S-18	CF-9/16	CR-9/16	15	790	680	0.02 kg
-	S-18-L	CF-9/16-S	CR-9/16X	15	790	680	0.02 kg
CR-10-1	S-20	CF-5/8	CR-5/8	35	1215	955	0.02 kg
CR-10	-	CF-5/8-N	CR-5/8-A	35	1085	930	0.02 kg
CRS-10	-	CF-5/8-N-S	CR-5/8-AX	35	1085	930	0.02 kg
CRS-10-1	S-20-L	CF-5/8-S	CR-5/8X	35	1215	955	0.02 kg
-	S-22	CF-11/16	CR-11/16	35	1215	955	0.03 kg
-	S-22-L	CF-11/16-S	CR-11/16X	35	1215	955	0.03 kg
CR-12	S-24	CF-3/4	CR-3/4	95	2065	1660	0.03 kg
CRS-12	S-24-L	CF-3/4-S	CR-3/4X	95	2065	1660	0.03 kg
CR-14	S-28	CF-7/8	CR-7/8	95	2065	1660	0.04 kg
CRS-14	S-28-L	CF-7/8-S	CR-7/8X	95	2065	1660	0.04 kg
CR-16	S-32	CF-1	CR-1	250	3060	2225	0.08 kg
CRS-16	S-32-L	CF-1-S	CR-1X	250	3060	2225	0.08 kg
CR-18	S-36	CF-1 1/8	CR-1 1/8	250	3060	2225	0.09 kg
CRS-18	S-36-L	CF-1 1/8-S	CR-1 1/8X	250	3060	2225	0.09 kg
CR-20	S-40	CF-1 1/4	CR-1 1/4	350	4250	3930	0.14 kg
CRS-20	S-40-L	CF-1 1/4-S	CR-1 1/4X	350	4250	3930	0.14 kg
CR-22	S-44	CF-1 3/8	CR-1 3/8	350	4250	3930	0.16 kg
CRS-22	S-44-L	CF-1 3/8-S	CR-1 3/8X	350	4250	3930	0.16 kg
CR-24	S-48	CF-1 1/2	CR-1 1/2	650	5640	4840	0.24 kg
CRS-24	S-48-L	CF-1 1/2-S	CR-1 1/2X	650	5640	4840	0.24 kg
CR-26	S-52	CF-1 5/8	CR-1 5/8	650	5640	4840	0.27 kg
CRS-26	S-52-L	CF-1 5/8-S	CR-1 5/8X	650	5640	4840	0.27 kg
CR-28	S-56	CF-1 3/4	CR-1 3/4	1250	7920	6385	0.38 kg
CRS-28	S-56-L	CF-1 3/4-S	CR-1 3/4X	1250	7920	6385	0.38 kg



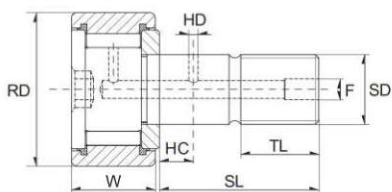
178

Dimension (inch)								
RD	W	SD	SL	TL	FINE THR'DS	HC	HD	F
1,875	1,000	0,750	1 3/4	7/8	3/4-16	7/16	3/32	3/16
1,875	1,000	0,750	1 3/4	7/8	3/4-16	7/16	3/32	3/16
2,000	1,250	0,875	2	1	7/8-14	1/2	1/8	3/16
2,000	1,250	0,875	2	1	7/8-14	1/2	1/8	3/16
2,250	1,250	0,875	2	1	7/8-14	1/2	1/8	3/16
2,250	1,250	0,875	2	1	7/8-14	1/2	1/8	3/16
2,500	1,500	1,000	2 1/4	1 1/8	1-14	9/16	1/8	3/16
2,500	1,500	1,000	2 1/4	1 1/8	1-14	9/16	1/8	3/16
2,750	1,500	1,000	2 1/4	1 1/8	1-14	9/16	1/8	3/16
2,750	1,500	1,000	2 1/4	1 1/8	1-14	9/16	1/8	3/16
3,000	1,750	1,250	2 1/2	1 1/4	1 1/4-12	5/8	1/8	1/4
3,000	1,750	1,250	2 1/2	1 1/4	1 1/4-12	5/8	1/8	1/4
3,250	1,750	1,250	2 1/2	1 1/4	1 1/4-12	5/8	1/8	1/4
3,250	1,750	1,250	2 1/2	1 1/4	1 1/4-12	5/8	1/8	1/4
3,500	2,000	1,75	2 3/4	1 3/8	1 3/8-12	11/16	1/8	1/4
3,500	2,000	1,75	2 3/4	1 3/8	1 3/8-12	11/16	1/8	1/4
4,000	2,250	1,500	3 1/2	1 1/2	1 1/2-12	3/4	1/8	1/4
4,000	2,250	1,500	3 1/2	1 1/2	1 1/2-12	3/4	1/8	1/4
5,000	2,750	2,000	5 1/16	2 9/16	2-12	7/8	3/16	1/4
6,000	3,250	2,500	6	3	2 1/2-12	1	3/16	1/4
7,000	3,750	3,000	7 11/16	4 1/8	3-12	1 1/4	3/16	1/4
8,000	4,250	3,250	8 1/2	4 1/4	3 1/4-4	-	-	1/4
9,000	4,750	3,750	9 1/2	4 3/4	3 1/2-4	-	-	1/4
10,000	5,250	4,250	10	4 3/4	3 1/2-4	-	-	1/4



Designation/Type				Recom. clamping torque (lbs-inch)	*Load Rating		Weight (kg) approx.
TORRINGTON	RBC	ZEN	SMITH		C, stat. (lbs)	C, dyn. (lbs)	
CR-30	S-60	CF-1 7/8	CR-1 7/8	1250	7920	6385	0.43 kg
CRS-30	S-60-L	CF-1 7/8-S	CR-1 7/8X	1250	7920	6385	0.43 kg
CR-32	S-64	CF-2	CR-2	1500	10570	8090	0.62 kg
CRS-32	S-64-L	CF-2-S	CR-2X	1500	10570	8090	0.62 kg
CR-36	S-72	CF-2 1/4	CR-2 1/4	1500	10570	8090	0.75 kg
CRS-36	S-72-L	CF-2 1/4-S	CR-2 1/4X	1500	10570	8090	0.75 kg
CR-40	S-80	CF-2 1/2	CR-2 1/2	2250	16450	11720	1.13 kg
CRS-40	S-80-L	CF-2 1/2-S	CR-2 1/2X	2250	16450	11720	1.13 kg
CR-44	S-88	CF-2 3/4	CR-2 3/4	2250	16450	11720	1.33 kg
CRS-44	S-88-L	CF-2 3/4-S	CR-2 3/4X	2250	16450	11720	1.33 kg
CR-48	S-96	CF-3	CR-3	3450	24910	15720	1.91 kg
CRS-48	S-96-L	CF-3-S	CR-3X	3450	24910	15720	1.91 kg
CR-52	S-104	CF-3 1/4	CR-3 1/4	3450	24910	15720	2.18 kg
CRS-52	S-104-L	CF-3 1/4-S	CR-3 1/4X	3450	24910	15720	2.18 kg
CR-56	S-112	CF-3 1/2	CR-3 1/2	4200	31625	22800	2.91 kg
CRS-56	S-112-L	CF-3 1/2-S	CR-3 1/2X	4200	31625	22800	2.91 kg
CR-64	S-128	CF- 4	CR-4	5000	44770	29985	4.29 kg
CRS-64	S-128-L	CF- 4-S	CR-4X	5000	44770	29985	4.29 kg
-	-	CF-5-S	CR-5X	5000	67950	46575	8.85 kg
-	-	CF-6-S	CR-6X	5000	80450	60000	14.85 kg
-	-	CF-7-S	CR-7X	5000	106930	75380	24.83 kg
-	-	CF-8-S	CR8X	5000	144100	92200	36.20 kg
-	-	CF-9-S	CR-9X	5000	183430	113260	50.65 kg
-	-	CF-10-S	CR-10X	5000	215565	131545	67.22 kg

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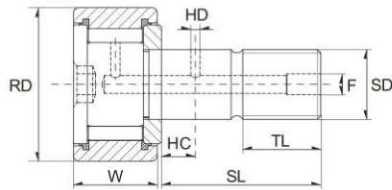
180

Dimension (inch)								
RD	W	SD	SL	TL	FINE THR'DS	HC	HD	F
0,500	0,344	0,190	1/2	1/4	10-32	-	-	-
0,500	0,375	0,190	5/8	1/4	10-32	-	-	-
0,500	0,344	0,190	1/2	1/4	10-32	-	-	-
0,500	0,375	0,190	5/8	1/4	10-32	-	-	-
0,5625	0,375	0,190	5/8	1/4	10-32	-	-	-
0,5625	0,375	0,190	5/8	1/4	10-32	-	-	-
0,625	0,406	0,250	5/8	5/16	1/4-28	-	-	-
0,625	0,4375	0,250	3/4	5/16	1/4-28	-	-	-
0,625	0,406	0,250	5/8	5/16	1/4-28	-	-	-
0,625	0,4375	0,250	3/4	5/16	1/4-28	-	-	-
0,6875	0,4375	0,250	3/4	5/16	1/4-28	-	-	-
0,6875	0,4375	0,250	3/4	5/16	1/4-28	-	-	-
0,750	0,500	0,375	7/8	3/8	3/8-24	1/4	3/32	3/16
0,750	0,500	0,375	7/8	3/8	3/8-24	1/4	3/32	3/16
0,875	0,500	0,375	7/8	3/8	3/8-24	1/4	3/32	3/16
0,875	0,500	0,375	7/8	3/8	3/8-24	1/4	3/32	3/16
1,000	0,625	0,4375	1	1/2	7/16-20	1/4	3/32	3/16
1,000	0,625	0,4375	1	1/2	7/16-20	1/4	3/32	3/16
1,125	0,625	0,4375	1	1/2	7/16-20	1/4	3/32	3/16
1,125	0,625	0,4375	1	1/2	7/16-20	1/4	3/32	3/16
1,250	0,750	0,500	1 1/4	5/8	1/2-20	5/16	3/32	3/16
1,250	0,750	0,500	1 1/4	5/8	1/2-20	5/16	3/32	3/16
1,375	0,750	0,500	1 1/4	5/8	1/2-20	5/16	3/32	3/16
1,375	0,750	0,500	1 1/4	5/8	1/2-20	5/16	3/32	3/16
1,500	0,875	0,625	1 1/2	3/4	5/8-18	3/8	3/32	3/16
1,500	0,875	0,625	1 1/2	3/4	5/8-18	3/8	3/32	3/16
1,625	0,875	0,625	1 1/2	3/4	5/8-18	3/8	3/32	3/16
1,625	0,875	0,625	1 1/2	3/4	5/8-18	3/8	3/32	3/16
1,750	1,000	0,750	1 3/4	7/8	3/4-16	7/16	3/32	3/16
1,750	1,000	0,750	1 3/4	7/8	3/4-16	7/16	3/32	3/16



Designation/Type				Recom. clamping torque (lbs-inch)	*Load Rating		Weight (kg) approx.
TORRINGTON	RBC	ZEN	SMITH		C, stat. (lbs)	C, dyn. (lbs)	
CRB-8	-	CF-1/2-N-B	CR-1/2-A-B	15	720	620	0.02 kg
CRB-8-1	-	CF-1/2-B	CR-1/2-B	15	790	680	0.02 kg
CRSB-8	-	CF-1/2-N-SB	CR-1/2-A-XB	15	720	620	0.02 kg
CRSB-8-1	S-16-LW	CF-1/2-SB	CR-1/2-XB	15	790	680	0.02 kg
-	-	CF-9/16-B	CR-9/16-B	15	790	680	0.02 kg
-	S-18-LW	CF-9/16-SB	CR-9/16-XB	15	790	680	0.02 kg
CRB-10	-	CF-5/8-N-B	CR-5/8-A-B	35	1085	930	0.02 kg
CRB-10-1	-	CF-5/8-B	CR-5/8-B	35	1215	955	0.02 kg
CRSB-10	-	CF-5/8-N-SB	CR-5/8-A-XB	35	1085	930	0.02 kg
CRSB-10-1	S-20-LW	CF-5/8-SB	CR-5/8-XB	35	1215	955	0.02 kg
-	-	CF-11/16-B	CR-11/16-B	35	1215	955	0.03 kg
-	S-22-LW	CF-11/16-SB	CR-11/16-XB	35	1215	955	0.03 kg
CRB-12	-	CF-3/4-B	CR-3/4-B	95	2065	1660	0.03 kg
CRSB-12	S-24-LW	CF-3/4-SB	CR-3/4-XB	95	2065	1660	0.03 kg
CRB-14	-	CF-7/8-B	CR-7/8-B	95	2065	1660	0.04 kg
CRSB-14	S-28-LW	CF-7/8-SB	CR-7/8-XB	95	2065	1660	0.04 kg
CRB-16	-	CF-1-B	CR-1-B	250	3060	2225	0.08 kg
CRSB-16	S-32-LW	CF-1-SB	CR-1-XB	250	3060	2225	0.08 kg
CRB-18	-	CF-1 1/8-B	CR-1 1/8-B	250	3060	2225	0.09 kg
CRSB-18	S-36-LW	CF-1 1/8-SB	CR-1 1/8-XB	250	3060	2225	0.09 kg
CRB-20	-	CF-1 1/4-B	CR-1 1/4-B	350	4250	3930	0.14 kg
CRSB-20	S-40-LW	CF-1 1/4-SB	CR-1 1/4-XB	350	4250	3930	0.14 kg
CRB-22	-	CF-1 3/8-B	CR-1 3/8-B	350	4250	3930	0.16 kg
CRSB-22	S-44-LW	CF-1 3/8-SB	CR-1 3/8-XB	350	4250	3930	0.16 kg
CRB-24	-	CF-1 1/2-B	CR-1 1/2-B	650	5640	4840	0.24 kg
CRSB-24	S-48-LW	CF-1 1/2-SB	CR-1 1/2-XB	650	5640	4840	0.24 kg
CRB-26	-	CF-1 5/8-B	CR-1 5/8-B	650	5640	4840	0.27 kg
CRSB-26	S-52-LW	CF-1 5/8-SB	CR-1 5/8-XB	650	5640	4840	0.27 kg
CRB-28	-	CF-1 3/4-B	CR-1 3/4-B	1250	7920	6385	0.38 kg
CRSB-28	S-56-LW	CF-1 3/4-SB	CR-1 3/4-XB	1250	7920	6385	0.38 kg

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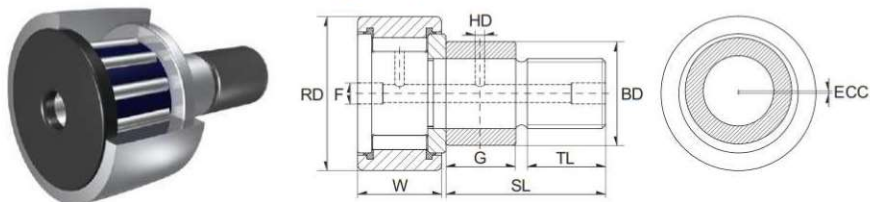
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Dimension (inch)								
RD	W	SD	SL	TL	FINE THR'DS	HC	HD	F
1,875	1,000	0,750	1 3/4	7/8	3/4-16	7/16	3/32	3/16
1,875	1,000	0,750	1 3/4	7/8	3/4-16	7/16	3/32	3/16
2,000	1,250	0,875	2	1	7/8-14	1/2	1/8	3/16
2,000	1,250	0,875	2	1	7/8-14	1/2	1/8	3/16
2,500	1,500	1,000	2 1/4	1 1/8	1-14	9/16	1/8	3/16
2,500	1,500	1,000	2 1/4	1 1/8	1-14	9/16	1/8	3/16
2,750	1,500	1,000	2 1/4	1 1/8	1-14	9/16	1/8	3/16
2,750	1,500	1,000	2 1/4	1 1/8	1-14	9/16	1/8	3/16
3,000	1,750	1,250	2 1/2	1 1/4	1 1/4-12	5/8	1/8	1/4
3,000	1,750	1,250	2 1/2	1 1/4	1 1/4-12	5/8	1/8	1/4
3,250	1,250	0,875	2	1	7/8-14	1/2	1/8	3/16
3,250	1,750	1,250	2 1/2	1 1/4	1 1/4-12	5/8	1/8	1/4
3,250	1,250	0,875	2	1	7/8-14	1/2	1/8	3/16
3,250	1,750	1,250	2 1/2	1 1/4	1 1/4-12	5/8	1/8	1/4
3,500	2,000	1,375	2 3/4	1 3/8	1 3/8-12	11/16	1/8	1/4
3,500	2,000	1,375	2 3/4	1 3/8	1 3/8-12	11/16	1/8	1/4
4,000	2,250	1,500	3 1/2	1 1/2	1 1/2-12	3/4	1/8	1/4
4,000	2,250	1,500	3 1/2	1 1/2	1 1/2-12	3/4	1/8	1/4



Designation/Type				Recom. clamping torque (lbs-inch)	*Load Rating		Weight (kg) approx.
TORRINGTON	RBC	ZEN	SMITH		C, stat. (lbs)	C, dyn. (lbs)	
CRB-30	-	CF-1 7/8-B	CR-1 7/8-B	1250	7920	6385	0.43 kg
CRSB-30	S-60-LW	CF-1 7/8-SB	CR-1 7/8-XB	1250	7920	6385	0.43 kg
CRB-32	-	CF-2-B	CR-2-B	1500	10570	8090	0.62 kg
CRSB-32	S-64-LW	CF-2-SB	CR-2-XB	1500	10570	8090	0.62 kg
CRB-40	-	CF-2 1/2-B	CR-2 1/2-B	2250	16450	11720	1.13 kg
CRSB-40	S-80-LW	CF-2 1/2-SB	CR-2 1/2-XB	2250	16450	11720	1.13 kg
CRB-44	-	CF-2 3/4-B	CR-2 3/4-B	2250	16450	11720	1.33 kg
CRSB-44	S-88-LW	CF-2 3/4-SB	CR-2 3/4-XB	2250	16450	11720	1.33 kg
CRB-48	-	CF-3-B	CR-3-B	3450	24910	15720	1.91 kg
CRSB-48	S-96-LW	CF-3-SB	CR-3-XB	3450	24910	15720	1.91 kg
CRB-36	-	CF-2 1/4-B	CR-2 1/4-B	1500	10570	8090	0.75 kg
CRB-52	-	CF-3 1/4-B	CR-3 1/4-B	3450	24910	15720	2.18 kg
CRSB-36	S-72-LW	CF-2 1/4-SB	CR-2 1/4-XB	1500	10570	8090	0.75 kg
CRSB-52	S-104-LW	CF-3 1/4-SB	CR-3 1/4-XB	3450	24910	15720	2.18 kg
CRB-56	-	CF-3 1/2-B	CR-3 1/2-B	4200	31625	22800	2.91 kg
CRSB-56	S-112-LW	CF-3 1/2-SB	CR-3 1/2-XB	4200	31625	22800	2.91 kg
CRB-64	-	CF-4-B	CR-4-B	5000	44770	29985	4.29 kg
CRSB-64	S-128-LW	CF-4-SB	CR-4-XB	5000	44770	29985	4.29 kg

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Dimension (inch)								
RD	W	G	BD	SL	TL	FINE THR'DS	ECC*	F
0,500	0,375	0,375	0,250	5/8	1/4	10-32	0,010	1/8
0,500	0,375	0,375	0,250	5/8	1/4	10-32	0,010	1/8
0,5625	0,375	0,375	0,250	5/8	1/4	10-32	0,010	1/8
0,5625	0,375	0,375	0,250	5/8	1/4	10-32	0,010	1/8
0,625	0,4375	0,437	0,375	3/4	5/16	1/4-28	0,015	1/8
0,625	0,4375	0,437	0,375	3/4	5/16	1/4-28	0,015	1/8
0,6875	0,4375	0,437	0,375	3/4	5/16	1/4-28	0,015	1/8
0,6875	0,4375	0,437	0,375	3/4	5/16	1/4-28	0,015	1/8
0,750	0,500	0,500	0,500	7/8	3/8	3/8-24	0,015	3/16
0,750	0,500	0,500	0,500	7/8	3/8	3/8-24	0,015	3/16
0,875	0,500	0,500	0,500	7/8	3/8	3/8-24	0,015	3/16
0,875	0,500	0,500	0,500	7/8	3/8	3/8-24	0,015	3/16
1,000	0,625	0,500	0,625	1	1/2	7/16-20	0,030	3/16
1,000	0,625	0,500	0,625	1	1/2	7/16-20	0,030	3/16
1,125	0,625	0,500	0,625	1	1/2	7/16-20	0,030	3/16
1,125	0,625	0,500	0,625	1	1/2	7/16-20	0,030	3/16
1,250	0,750	0,625	0,687	1 1/4	5/8	1/2-20	0,030	3/16
1,250	0,750	0,625	0,687	1 1/4	5/8	1/2-20	0,030	3/16
1,375	0,750	0,625	0,687	1 1/4	5/8	1/2-20	0,030	3/16
1,375	0,750	0,625	0,687	1 1/4	5/8	1/2-20	0,030	3/16
1,500	0,875	0,750	0,875	1 1/2	3/4	5/8-18	0,030	3/16
1,500	0,875	0,750	0,875	1 1/2	3/4	5/8-18	0,030	3/16
1,625	0,875	0,750	0,875	1 1/2	3/4	5/8-18	0,030	3/16
1,625	0,875	0,750	0,875	1 1/2	3/4	5/8-18	0,030	3/16
1,750	1,000	0,875	1,000	1 3/4	7/8	3/4-16	0,030	3/16
1,750	1,000	0,875	1,000	1 3/4	7/8	3/4-16	0,030	3/16
1,875	1,000	0,875	1,000	1 3/4	7/8	3/4-16	0,030	3/16
1,875	1,000	0,875	1,000	1 3/4	7/8	3/4-16	0,030	3/16
2,000	1,250	1,000	1,187	2	1	7/8-14	0,030	3/16
2,000	1,250	1,000	1,187	2	1	7/8-14	0,030	3/16

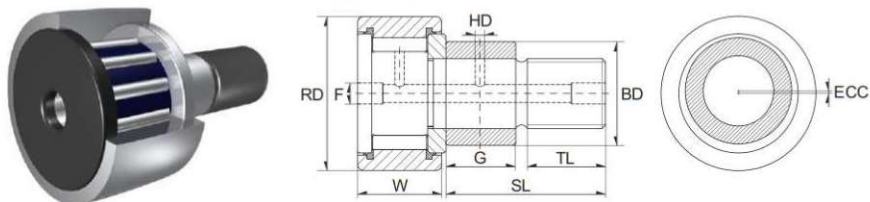
*Eccentricity - measuring the eccentricity of the shaft while the outer ring is fixed



Designation/Type				Recom. clamping torque (lbs.-inch)	*Load Rating		Weight (kg) approx.
TORRINGTON	RBC	ZEN	SMITH		C, stat. (lbs)	C, dyn. (lbs)	
CRE-8-1	-	CFE-1/2	CR-1/2-E	15	790	680	0.02 kg
CRSE-8-1	-	CFE-1/2-S	CR-1/2-XE	15	790	680	0.02 kg
-	-	CFE-9/16	CR-9/16-E	15	790	680	0.02 kg
-	-	CFE-9/16-S	CR-9/16-XE	15	790	680	0.02 kg
CRE-10-1	-	CFE-5/8	CR-5/8-E	35	1215	955	0.02 kg
CRSE-10-1	-	CFE-5/8-S	CR-5/8-XE	35	1215	955	0.02 kg
-	-	CFE-11/16	CR-11/16-E	35	1215	955	0.03 kg
-	-	CFE-11/16-S	CR-11/16-XE	35	1215	955	0.03 kg
CRE-12	-	CFE-3/4	CR-3/4-E	95	2065	1660	0.03 kg
CRSE-12	-	CFE-3/4-S	CR-3/4-XE	95	2065	1660	0.03 kg
CRE-14	-	CFE-7/8	CR-7/8-E	95	2065	1660	0.04 kg
CRSE-14	-	CFE-7/8-S	CR-7/8-XE	95	2065	1660	0.04 kg
CRE-16	-	CFE-1	CR-1-E	250	3060	2225	0.08 kg
CRSE-16	-	CFE-1-S	CR-1-XE	250	3060	2225	0.08 kg
CRE-18	-	CFE-1 1/8	CR-1 1/8-E	250	3060	2225	0.09 kg
CRSE-18	-	CFE-1 1/8-S	CR-1 1/8-XE	250	3060	2225	0.09 kg
CRE-20	-	CFE-1 1/4	CR-1 1/4-E	350	4250	3930	0.14 kg
CRSE-20	-	CFE-1 1/4-S	CR-1 1/4-XE	350	4250	3930	0.14 kg
CRE-22	-	CFE-1 3/8	CR-1 3/8-E	350	4250	3930	0.16 kg
CRSE-22	-	CFE-1 3/8-S	CR-1 3/8-XE	350	4250	3930	0.16 kg
CRE-24	-	CFE-1 1/2	CR-1 1/2-E	650	5640	4840	0.24 kg
CRSE-24	-	CFE-1 1/2-S	CR-1 1/2-XE	650	5640	4840	0.24 kg
CRE-26	-	CFE-1 5/8	CR-1 5/8-E	650	5640	4840	0.27 kg
CRSE-26	-	CFE-1 5/8-S	CR-1 5/8-XE	650	5640	4840	0.27 kg
CRE-28	-	CFE-1 3/4	CR-1 3/4-E	1250	7920	6385	0.38 kg
CRSE-28	-	CFE-1 3/4-S	CR-1 3/4-XE	1250	7920	6385	0.38 kg
CRE-30	-	CFE-1 7/8	CR-1 7/8-E	1250	7920	6385	0.43 kg
CRSE-30	-	CFE-1 7/8-S	CR-1 7/8-XE	1250	7920	6385	0.43 kg
CRE-32	-	CFE-2	CR-2-E	1500	10570	8090	0.62 kg
CRSE-32	-	CFE-2-S	CR-2-XE	1500	10570	8090	0.62 kg

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Kurvenrollen der Type / Stud Type Track Rollers CFE & CFE...S



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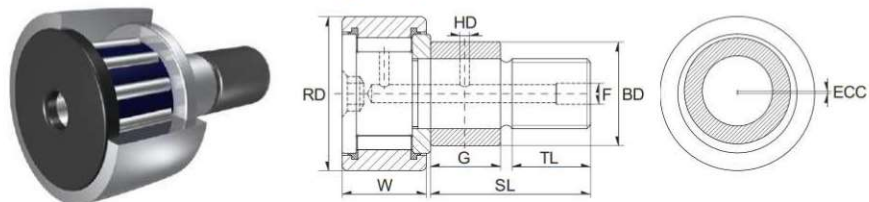
Dimension (inch)								
RD	W	G	BD	SL	TL	FINE THR'DS	ECC*	F
2,250	1,250	1,000	1,187	2	1	7/8-14	0,030	3/16
2,250	1,250	1,000	1,187	2	1	7/8-14	0,030	3/16
2,500	1,500	1,125	1,375	2 1/4	1 1/8	1-14	0,030	3/16
2,500	1,500	1,125	1,375	2 1/4	1 1/8	1-14	0,030	3/16
2,750	1,500	1,125	1,375	2 1/4	1 1/8	1-14	0,030	3/16
2,750	1,500	1,125	1,375	2 1/4	1 1/8	1-14	0,030	3/16
3,000	1,750	1,250	1,750	2 1/2	1 1/4	1 1/4-12	0,060	1/4
3,000	1,750	1,250	1,750	2 1/2	1 1/4	1 1/4-12	0,060	1/4
3,250	1,750	1,250	1,750	2 1/2	1 1/4	1 1/4-12	0,060	1/4
3,250	1,750	1,250	1,750	2 1/2	1 1/4	1 1/4-12	0,060	1/4
3,500	2,000	1,375	1,812	2 3/4	1 3/8	1 3/8-12	0,060	1/4
3,500	2,000	1,375	1,812	2 3/4	1 3/8	1 3/8-12	0,060	1/4
4,000	2,250	2,000	2,000	3 1/2	1 1/2	1 1/2-12	0,060	1/4
4,000	2,250	2,000	2,000	3 1/2	1 1/2	1 1/2-12	0,060	1/4

*Eccentricity - measuring the eccentricity of the shaft while the outer ring is fixed

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Designation/Type				Recom. clamping torque (lbs-inch)	*Load Rating		Weight (kg) approx.
TORRINGTON	RBC	ZEN	SMITH		C, stat. (lbs)	C, dyn. (lbs)	
CRE-36	-	CFE-2 1/4	CR-2 1/4-E	1500	10570	8090	0.75 kg
CRSE-36	-	CFE-2 1/4-S	CR-2 1/4-XE	1500	10570	8090	0.75 kg
CRE-40	-	CFE-2 1/2	CR-2 1/2-E	2250	16450	117200	1.13 kg
CRSE-40	-	CFE-2 1/2-S	CR-2 1/2-XE	2250	16450	117200	1.13 kg
CRE-44	-	CFE-2 3/4	CR-2 3/4-E	2250	16450	117200	1.33 kg
CRSE-44	-	CFE-2 3/4-S	CR-2 3/4-XE	2250	16450	117200	1.33 kg
CRE-48	-	CFE-3	CR-3-E	3450	24910	15720	1.91 kg
CRSE-48	-	CFE-3-S	CR-3-XE	3450	24910	15720	1.91 kg
CRE-52	-	CFE-3 1/4	CR-3 1/4-E	3450	14910	15720	2.18 kg
CRSE-52	-	CFE-3 1/4-S	CR-3 1/4-XE	3450	14910	15720	2.18 kg
CRE-56	-	CFE-3 1/2	CR-3 1/2-E	4200	31625	22800	2.91 kg
CRSE-56	-	CFE-3 1/2-S	CR-3 1/2-XE	4200	31625	22800	2.91 kg
CRE-64	-	CFE-4	CR-4-E	5000	44770	29985	4.29 kg
CRSE-64	-	CFE-4-S	CR-4-XE	5000	44770	29985	4.29 kg

Kurvenrollen der Type / Stud Type Track Rollers CFE...B & CFE...SB



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Dimension (inch)								
RD	W	G	BD	SL	TL	FINE THR'DS	ECC*	F
0,500	0,344	0,250	0,250	1/2	1/4	10-32	0,010	-
0,500	0,375	0,375	0,250	5/8	1/4	10-32	0,010	-
0,500	0,344	0,250	0,250	1/2	1/4	10-32	0,010	-
0,500	0,375	0,375	0,250	5/8	1/4	10-32	0,010	-
0,5625	0,375	0,375	0,250	5/8	1/4	10-32	0,010	-
0,5625	0,375	0,375	0,250	5/8	1/4	10-32	0,010	-
0,625	0,4375	0,437	0,375	3/4	5/16	1/4-28	0,015	-
0,625	0,4375	0,437	0,375	3/4	5/16	1/4-28	0,015	-
0,6875	0,4375	0,437	0,375	3/4	5/16	1/4-28	0,015	-
0,6875	0,4375	0,437	0,375	3/4	5/16	1/4-28	0,015	-
0,750	0,500	0,500	0,500	7/8	3/8	3/8-24	0,015	3/16
0,750	0,500	0,500	0,500	7/8	3/8	3/8-24	0,015	3/16
0,875	0,500	0,500	0,500	7/8	3/8	3/8-24	0,015	3/16
0,875	0,500	0,500	0,500	7/8	3/8	3/8-24	0,015	3/16
1,000	0,625	0,500	0,625	1	1/2	7/16-20	0,030	3/16
1,000	0,625	0,500	0,625	1	1/2	7/16-20	0,030	3/16
1,125	0,625	0,500	0,625	1	1/2	7/16-20	0,030	3/16
1,125	0,625	0,500	0,625	1	1/2	7/16-20	0,030	3/16
1,250	0,750	0,625	0,687	1 1/4	5/8	1/2-20	0,030	3/16
1,250	0,750	0,625	0,687	1 1/4	5/8	1/2-20	0,030	3/16
1,375	0,750	0,625	0,687	1 1/4	5/8	1/2-20	0,030	3/16
1,375	0,750	0,625	0,687	1 1/4	5/8	1/2-20	0,030	3/16
1,500	0,875	0,750	0,875	1 1/2	3/4	5/8-18	0,030	3/16
1,500	0,875	0,750	0,875	1 1/2	3/4	5/8-18	0,030	3/16
1,625	0,875	0,750	0,875	1 1/2	3/4	5/8-18	0,030	3/16
1,625	0,875	0,750	0,875	1 1/2	3/4	5/8-18	0,030	3/16
1,750	1,000	0,875	1,000	1 3/4	7/8	3/4-16	0,030	3/16
1,750	1,000	0,875	1,000	1 3/4	7/8	3/4-16	0,030	3/16
1,875	1,000	0,875	1,000	1 3/4	7/8	3/4-16	0,030	3/16
1,875	1,000	0,875	1,000	1 3/4	7/8	3/4-16	0,030	3/16

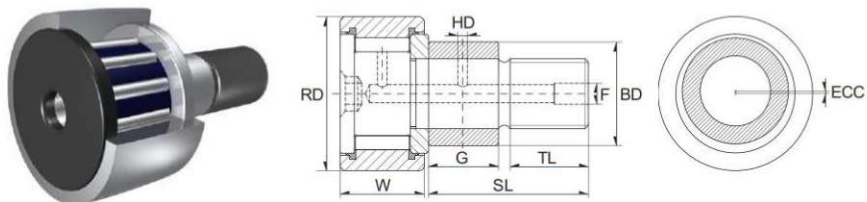
*Eccentricity - measuring the eccentricity of the shaft while the outer ring is fixed



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Designation/Type				Recom. clamping torque (lbs-inch)	*Load Rating		Weight (kg) approx.
TORRINGTON	RBC	ZEN	SMITH		C, stat. (lbs)	C, dyn. (lbs)	
-	-	CFE-1/2-N-B	CR-1/2-N-BE	15	720	620	0.02 kg
CRBE-8-1	-	CFE-1/2-B	CR-1/2-BE	15	790	680	0.02 kg
-	-	CFE-1/2-N-SB	CR-1/2-A-XBE	15	720	620	0.02 kg
CRSBE-8-1	S-16-LWX	CFE-1/2-SB	CR-1/2-XBE	15	790	680	0.02 kg
-	-	CFE-9/16-B	CR-9/16-BE	15	790	680	0.02 kg
-	S-18-LWX	CFE-9/16-SB	CR-9/16-XBE	15	790	680	0.02 kg
CRBE-10-1	-	CFE-5/8-B	CR-5/8-BE	35	1215	955	0.02 kg
CRSBE-10-1	S-20-LWX	CFE-5/8-SB	CR-5/8-XBE	35	1215	955	0.02 kg
-	-	CFE-11/16-B	CR-11/16-BE	35	1215	955	0.03 kg
-	S-22-LWX	CFE-11/16-SB	CR-11/16-XBE	35	1215	955	0.03 kg
CRBE-12	-	CFE-3/4-B	CR-3/4-BE	95	2065	1660	0.03 kg
CRSBE-12	S-24-LWX	CFE-3/4-SB	CR-3/4-XBE	95	2065	1660	0.03 kg
CRBE-14	-	CFE-7/8-B	CR-7/8-BE	95	2065	1660	0.04 kg
CRSBE-14	S-28-LWX	CFE-7/8-SB	CR-7/8-XBE	95	2065	1660	0.04 kg
CRBE-16	-	CFE-1-B	CR-1-BE	250	3060	2225	0.08 kg
CRSBE-16	S-32-LWX	CFE-1-SB	CR-1-XBE	250	3060	2225	0.08 kg
CRBE-18	-	CFE-1 1/8-B	CR-1 1/8-BE	250	3060	2225	0.09 kg
CRSBE-18	S-36-LWX	CFE-1 1/8-SB	CR-1 1/8-XBE	250	3060	2225	0.09 kg
CRBE-20	-	CFE-1 1/4-B	CR-1 1/4-BE	350	4250	3930	0.14 kg
CRSBE-20	S-40-LWX	CFE-1 1/4-SB	CR-1 1/4-XBE	350	4250	3930	0.14 kg
CRBE-22	-	CFE-1 3/8-B	CR-1 3/8-BE	350	4250	3930	0.16 kg
CRSBE-22	S-44-LWX	CFE-1 3/8-SB	CR-1 3/8-XBE	350	4250	3930	0.16 kg
CRBE-24	-	CFE-1 1/2-B	CR-1 1/2-BE	650	5640	4840	0.24 kg
CRSBE-24	S-48-LWX	CFE-1 1/2-SB	CR-1 1/2-XBE	650	5640	4840	0.24 kg
CRBE-26	-	CFE-1 5/8-B	CR-1 5/8-BE	650	5640	4840	0.27 kg
CRSBE-26	S-52-LWX	CFE-1 5/8-SB	CR-1 5/8-XBE	650	5640	4840	0.27 kg
CRBE-28	-	CFE-1 3/4-B	CR-1 3/4-BE	1250	7920	6385	0.38 kg
CRSBE-28	S-56-LWX	CFE-1 3/4-SB	CR-1 3/4-XBE	1250	7920	6385	0.38 kg
CRBE-30	-	CFE-1 7/8-B	CR-1 7/8-BE	1250	7920	6385	0.43 kg
CRSBE-30	S-60-LWX	CFE-1 7/8-SB	CR-1 7/8-XBE	1250	7920	6385	0.43 kg

Kurvenrollen der Type / Stud Type Track Rollers CFE...B & CFE...SB



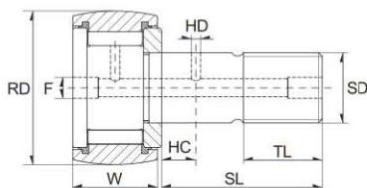
190

Dimension (inch)								
RD	W	G	BD	SL	TL	FINE THR'DS	ECC*	F
2,000	1,250	1,000	1,187	2	1	7/8-14	0,030	3/16
2,000	1,250	1,000	1,187	2	1	7/8-14	0,030	3/16
2,250	1,250	1,000	1,187	2	1	7/8-14	0,030	3/16
2,250	1,250	1,000	1,187	2	1	7/8-14	0,030	3/16
2,500	1,500	1,125	1,375	2 1/4	1 1/8	1-14	0,030	3/16
2,500	1,500	1,125	1,375	2 1/4	1 1/8	1-14	0,030	3/16
2,750	1,500	1,125	1,375	2 1/4	1 1/8	1-14	0,030	3/16
2,750	1,500	1,125	1,375	2 1/4	1 1/8	1-14	0,030	3/16
3,000	1,750	1,250	1,750	2 1/2	1 1/4	1 1/4-12	0,060	1/4
3,000	1,750	1,250	1,750	2 1/2	1 1/4	1 1/4-12	0,060	1/4
3,250	1,750	1,250	1,750	2 1/2	1 1/4	1 1/4-12	0,060	1/4
3,250	1,750	1,250	1,750	2 1/2	1 1/4	1 1/4-12	0,060	1/4
3,500	2,000	1,375	1,812	2 3/4	1 3/8	1 3/8-12	0,060	1/4
3,500	2,000	1,375	1,812	2 3/4	1 3/8	1 3/8-12	0,060	1/4
4,000	2,250	2,000	2,000	3 1/2	1 1/2	1 1/2-12	0,060	1/4
4,000	2,250	2,000	2,000	3 1/2	1 1/2	1 1/2-12	0,060	1/4

*Eccentricity - measuring the eccentricity of the shaft while the outer ring is fixed

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Designation/Type				Recom. clamping torque (lbs-inch)	*Load Rating		Weight (kg) approx.
TORRINGTON	RBC	ZEN	SMITH		C, stat. (lbs)	C, dyn. (lbs)	
CRBE-32	-	CFE-2-B	CR-2-BE	1500	10570	8090	0.62 kg
CRSBE-32	S-64-LWX	CFE-2-SB	CR-2-XBE	1500	10570	8090	0.62 kg
CRBE-36	-	CFE-2 1/4-B	CR-2 1/4-BE	1500	10570	8090	0.75 kg
CRSBE-36	S-72-LWX	CFE-2 1/4-SB	CR-2 1/4-XBE	1500	10570	8090	0.75 kg
CRBE-40	-	CFE-2 1/2-B	CR-2 1/2-BE	2250	16450	11720	1.13 kg
CRSBE-40	S-80-LWX	CFE-2 1/2-SB	CR-2 1/2-XBE	2250	16450	11720	1.13 kg
CRBE-44	-	CFE-2 3/4-B	CR-2 3/4-BE	2250	16450	11720	1.33 kg
CRSBE-44	S-88-LWX	CFE-2 3/4-SB	CR-2 3/4-XBE	2250	16450	11720	1.33 kg
CRBE-48	-	CFE-3-B	CR-3-BE	3450	24910	15720	1.91 kg
CRSBE-48	S-96-LWX	CFE-3-SB	CR-3-XBE	3450	24910	15720	1.91 kg
CRBE-52	-	CFE-3 1/4-B	CR-3 1/4-BE	3450	24910	15720	2.18 kg
CRSBE-52	S-104-LWX	CFE-3 1/4-SB	CR-3 1/4-XBE	3450	24910	15720	2.18 kg
CRBE-56	-	CFE-3 1/2-B	CR-3 1/2-BE	4200	31625	22800	2.91 kg
CRSBE-56	S-112-LWX	CFE-3 1/2-SB	CR-3 1/2-XBE	4200	31625	22800	2.91 kg
CRBE-64	-	CFE-4-B	CR-4-BE	5000	44770	29985	4.29 kg
CRSBE-64	S-128-LWX	CFE-4-SB	CR-4-XBE	5000	44770	29985	4.29 kg



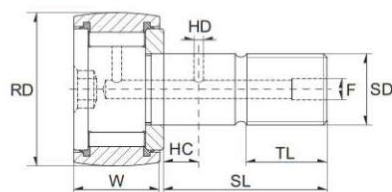
192

Dimension (inch)								
RD	W	SD	SL	TL	FINE THR'DS	HC	HD	F
0,500	0,344	0,190	1/2	1/4	10-32	-	-	1/8
0,500	0,375	0,190	5/8	1/4	10-32	-	-	1/8
0,5625	0,375	0,190	5/8	1/4	10-32	-	-	1/8
0,625	0,406	0,250	5/8	5/16	1/4-28	-	-	1/8
0,625	0,4375	0,250	3/4	5/16	1/4-28	-	-	1/8
0,6875	0,4375	0,250	3/4	5/16	1/4-28	-	-	1/8
0,750	0,500	0,375	7/8	3/8	3/8-24	1/4	3/32	3/16
0,875	0,500	0,375	7/8	3/8	3/8-24	1/4	3/32	3/16
1,000	0,625	0,4375	1	1/2	7/16-20	1/4	3/32	3/16
1,125	0,625	0,4375	1	1/2	7/16-20	1/4	3/32	3/16
1,250	0,750	0,500	1 1/4	5/8	1/2-20	5/16	3/32	3/16
1,375	0,750	0,500	1 1/4	5/8	1/2-20	5/16	3/32	3/16
1,500	0,875	0,625	1 1/2	3/4	5/8-18	3/8	3/32	3/16
1,625	0,875	0,625	1 1/2	3/4	5/8-18	3/8	3/32	3/16
1,750	1,000	0,750	1 3/4	7/8	3/4-16	7/16	3/32	3/16
1,875	1,000	0,750	1 3/4	7/8	3/4-16	7/16	3/32	3/16
2,000	1,250	0,875	2	1	7/8-14	1/2	1/8	3/16
2,250	1,250	0,875	2	1	7/8-14	1/2	1/8	3/16
2,500	1,500	1,000	2 1/4	1 1/8	1-14	9/16	1/8	3/16
2,750	1,500	1,000	2 1/4	1 1/8	1-14	9/16	1/8	3/16
3,000	1,750	1,250	2 1/2	1 1/4	1 1/4-12	5/8	1/8	1/4
3,250	1,750	1,250	2 1/2	1 1/4	1 1/4-12	5/8	1/8	1/4
3,500	2,000	1,375	2 3/4	1 3/8	1 3/8-12	11/16	1/8	1/4
4,000	2,250	1,500	3 1/2	1 1/2	1 1/2-12	3/4	1/8	1/4
5,000	2,750	2,000	5 1/16	2 9/16	2-12	7/8	3/16	1/4
6,000	3,250	2,500	6	3	2 1/2-12	1	3/16	1/4
7,000	3,750	3,000	7 11/16	4 1/8	3-12	1 1/4	3/16	1/4
8,000	4,250	3,250	8 1/2	4 1/4	3 1/4-4	-	-	1/4
9,000	4,750	3,750	9 1/2	4 3/4	3 1/2-4	-	-	1/4
10,000	2,250	4,250	10	4 3/4	3 1/2-4	-	-	1/4



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Designation/Type				Recom. clamping torque (lbs-inch)	*Load Rating		Weight (kg) approx.
TORRINGTON	RBC	ZEN	SMITH		C, stat. (lbs)	C, dyn. (lbs)	
-	-	CCF-1/2-N-S	CR-1/2-A-XC	15	720	620	0.02 kg
CRSC-8-1	-	CCF-1/2-S	CR-1/2-XC	15	790	680	0.02 kg
-	-	CCF-9/16-S	CR-9/16-XC	15	790	680	0.02 kg
-	-	CCF-5/8-N-S	CR-5/8-A-XC	35	1085	930	0.02 kg
CRSC-10-1	-	CCF-5/8-S	CR-5/8-XC	35	1215	955	0.02 kg
-	-	CCF-11/16-S	CR-11/16-XC	35	1215	955	0.03 kg
CRSC-12	CS-24-L	CCF-3/4-S	CR-3/4-XC	95	2065	1660	0.03 kg
CRSC-14	CS-28-L	CCF-7/8-S	CR-7/8-XC	95	2065	1660	0.04 kg
CRSC-16	CS-32-L	CCF-1-S	CR-1-XC	250	3060	2225	0.08 kg
CRSC-18	CS-36-L	CCF-1 1/8-S	CR-1 1/8-XC	250	3060	2225	0.09 kg
CRSC-20	CS-40-L	CCF-1 1/4-S	CR-1 1/4-XC	350	4250	3930	0.14 kg
CRSC-22	CS-44-L	CCF-1 3/8-S	CR-1 3/8-XC	350	4250	3930	0.16 kg
CRSC-24	CS-48-L	CCF-1 1/2-S	CR-1 1/2-XC	650	5640	4840	0.24 kg
CRSC-26	CS-52-L	CCF-1 5/8-S	CR-1 5/8-XC	650	5640	4840	0.27 kg
CRSC-28	CS-56-L	CCF-1 3/4-S	CR-1 3/4-XC	1250	7920	6385	0.38 kg
CRSC-30	CS-60-L	CCF-1 7/8-S	CR-1 7/8-XC	1250	7920	6385	0.43 kg
CRSC-32	CS-64-L	CCF-2-S	CR-2-XC	1500	10570	8090	0.62 kg
CRSC-36	CS-72-L	CCF-2 1/4-S	CR-2 1/4-XC	1500	10570	8090	0.75 kg
CRSC-40	CS-80-L	CCF-2 1/2-S	CR-2 1/2-XC	2250	16450	11720	1.13 kg
CRSC-44	CS-88-L	CCF-2 3/4-S	CR-2 3/4-XC	2250	16450	11720	1.33 kg
CRSC-48	CS-96-L	CCF-3-S	CR-3-XC	3450	24910	15720	1.91 kg
CRSC-52	CS-104-L	CCF-3 1/4-S	CR-3 1/4-XC	3450	24910	15720	2.18 kg
CRSC-56	CS-112-L	CCF-3 1/2-S	CR-3 1/2-XC	4200	31625	22800	2.91 kg
CRSC-64	CS-128-L	CCF-4-S	CR-4-XC	5000	44770	29985	4.29 kg
-	-	CCF-5-S	CR-5-XC	5000	67950	46575	8.89 kg
-	-	CCF-6-S	CR-6-XC	5000	80450	60000	14.85 kg
-	-	CCF-7-S	CR-7-XC	5000	106930	75380	24.83 kg
-	-	CCF-8-S	CR-8-XC	5000	144100	92200	36.20 kg
-	-	CCF-9-S	CR-9-XC	5000	183430	113260	50.62 kg
-	-	CCF-10-S	CR-10-XC	5000	215565	131545	67.22 kg



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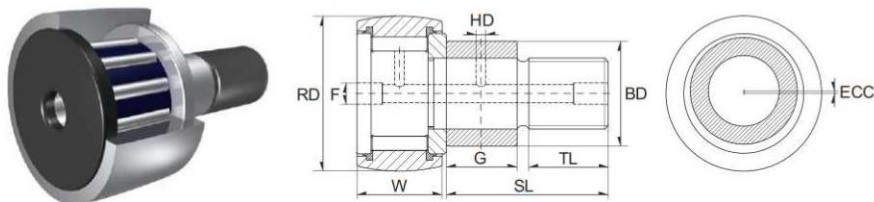
Dimension (inch)								
RD	W	SD	SL	TL	FINE THR'DS	HC	HD	F
0,500	0,344	0,190	1/2	1/4	10-32	-	-	-
0,500	0,375	0,190	5/8	1/4	10-32	-	-	-
0,5625	0,375	0,190	5/8	1/4	10-32	-	-	-
0,625	0,406	0,250	5/8	5/16	1/4-28	-	-	-
0,625	0,4375	0,250	3/4	5/16	1/4-28	-	-	-
0,6875	0,4375	0,250	3/4	5/16	1/4-28	-	-	-
0,750	0,500	0,375	7/8	3/8	3/8-24	1/4	3/32	3/16
0,875	0,500	0,375	7/8	3/8	3/8-24	1/4	3/32	3/16
1,000	0,625	0,4375	1	1/2	7/16-20	1/4	3/32	3/16
1,125	0,625	0,4375	1	1/2	7/16-20	1/4	3/32	3/16
1,250	0,750	0,500	1 1/4	5/8	1/2-20	5/16	3/32	3/16
1,500	0,875	0,625	1 1/2	3/4	5/8-18	3/8	3/32	3/16
1,625	0,875	0,625	1 1/2	3/4	5/8-18	3/8	3/32	3/16
1,750	0,750	0,500	1 1/4	5/8	1/2-20	5/16	3/32	3/16
1,750	1,000	0,750	1 3/4	7/8	3/4-16	7/16	3/32	3/16
1,875	1,000	0,750	1 3/4	7/8	3/4-16	7/16	3/32	3/16
2,000	1,250	0,875	2	1	7/8-14	1/2	1/8	3/16
2,250	1,250	0,875	2	1	7/8-14	1/2	1/8	3/16
2,500	1,500	1,000	2 1/4	1 1/8	1-14	9/16	1/8	3/16
2,750	1,500	1,000	2 1/4	1 1/8	1-14	9/16	1/8	3/16
3,000	1,750	1,250	2 1/2	1 1/4	1 1/4-12	5/8	1/8	1/4
3,250	1,750	1,250	2 1/2	1 1/4	1 1/4-12	5/8	1/8	1/4
3,500	2,000	1,375	2 3/4	1 3/8	1 3/8-12	11/16	1/8	1/4
4,000	2,250	1,500	3 1/2	1 1/2	1 1/2-12	3/4	1/8	1/4



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Designation/Type				Recom. clamping torque (lbs-inch)	*Load Rating		Weight (kg) approx.
TORRINGTON	RBC	ZEN	SMITH		C, stat. (lbs)	C, dyn. (lbs)	
-	-	CCF-1/2-N-SB	CR-1/2-A-XBC	15	720	620	0.02 kg
CRSBC-8-1	CS-16-LW	CCF-1/2-SB	CR-1/2-XBC	15	790	680	0.02 kg
-	CS-18-LW	CCF-9/16-SB	CR-9/16-XBC	15	790	680	0.02 kg
-	-	CCF-5/8-N-SB	CR-5/8-A-XBC	35	1085	930	0.02 kg
CRSBC-10-1	CS-20-LW	CCF-5/8-SB	CR-5/8-XBC	35	1215	955	0.02 kg
-	CS-22-LW	CCF-11/16-SB	CR-11/16-XBC	35	1215	955	0.03 kg
CRSBC-12	CS-24-LW	CCF-3/4-SB	CR-3/4-XBC	95	2065	1660	0.03 kg
CRSBC-14	CS-28-LW	CCF-7/8-SB	CR-7/8-XBC	95	2065	1660	0.04 kg
CRSBC-16	CS-32-LW	CCF-1-SB	CR-1-XBC	250	3060	2225	0.08 kg
CRSBC-18	CS-36-LW	CCF-1 1/8-SB	CR-1 1/8-XBC	250	3060	2225	0.09 kg
CRSBC-20	CS-40-LW	CCF-1 1/4-SB	CR-1 1/4-XBC	350	4250	3930	0.14 kg
CRSBC-24	CS-48-LW	CCF-1 1/2-SB	CR-1 1/2-XBC	650	5640	4840	0.24 kg
CRSBC-26	CS-52-LW	CCF-1 5/8-SB	CR-1 5/8-XBC	650	5640	4840	0.27 kg
CRSBC-22	CS-44-LW	CCF-1 3/8-SB	CR-1 3/8-XBC	350	4250	3930	0.16 kg
CRSBC-28	CS-56-LW	CCF-1 3/4-SB	CR-1 3/4-XBC	1250	7920	6385	0.38 kg
CRSBC-30	CS-60-LW	CCF-1 7/8-SB	CR-1 7/8-XBC	1250	7920	6385	0.43 kg
CRSBC-32	CS-64-LW	CCF-2-SB	CR-2-XBC	1500	10570	8090	0.62 kg
CRSBC-36	CS-72-LW	CCF-2 1/4-SB	CR-2 1/4-XBC	1500	10570	8090	0.75 kg
CRSBC-40	CS-80-LW	CCF-2 1/2-SB	CR-2 1/2-XBC	2250	16450	11720	1.13 kg
CRSBC-44	CS-88-LW	CCF-2 3/4-SB	CR-2 3/4-XBC	2250	16450	11720	1.33 kg
CRSBC-48	CS-96-LW	CCF-3-SB	CR-3-XBC	3450	24910	15720	1.91 kg
CRSBC-52	CS-104-LW	CCF-3 1/4-SB	CR-3 1/4-XBC	3450	24910	15720	2.18 kg
CRSBC-56	CS-112-LW	CCF-3 1/2-SB	CR-3 1/2-XBC	4200	31625	22800	2.91 kg
CRSBC-64	CS-128-LW	CCF-4-SB	CR-4-XBC	5000	44770	29985	4.29 kg

Kurvenrollen der Type / Stud Type Track Rollers CCFE...S



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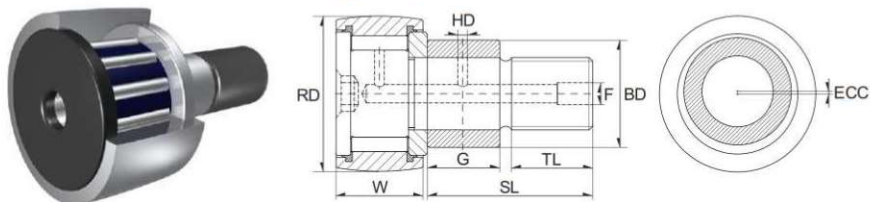
Dimension (inch)								
RD	W	G	BD	SL	TL	FINE THR'DS	EEC	F
0,375	0,750	0,625	0,687	1 1/4	5/8	1/2-20	0,030	3/16
0,500	0,344	0,250	0,250	1/2	1/4	10-32	0,010	1/8
0,500	0,375	0,375	0,250	5/8	1/4	10-32	0,010	1/8
0,562	0,375	0,375	0,250	5/8	1/4	10-32	0,010	1/8
0,625	0,4375	0,437	0,375	3/4	5/16	1/4-28	0,015	1/8
0,687	0,4375	0,437	0,375	3/4	5/16	1/4-28	0,015	1/8
0,750	0,500	0,500	0,500	7/8	3/8	3/8-24	0,015	3/16
0,875	0,500	0,500	0,500	7/8	3/8	3/8-24	0,015	3/16
1,000	0,625	0,500	0,625	1	1/2	7/16-20	0,030	3/16
1,125	0,625	0,500	0,625	1	1/2	7/16-20	0,030	3/16
1,250	0,750	0,625	0,687	1 1/4	5/8	1/2-20	0,030	3/16
1,500	0,875	0,750	0,875	1 1/2	3/4	5/8-18	0,030	3/16
1,625	0,875	0,750	0,875	1 1/2	3/4	5/8-18	0,030	3/16
1,750	1,000	0,875	1,000	1 3/4	7/8	3/4-16	0,030	3/16
1,875	1,000	0,875	1,000	1 3/4	7/8	3/4-16	0,030	3/16
2,000	1,250	1,000	1,187	2	1	7/8-14	0,030	3/16
2,250	1,250	1,000	1,187	2	1	7/8-14	0,030	3/16
2,500	1,500	1,125	1,375	2 1/4	1 1/8	1-14	0,030	3/16
2,750	1,500	1,125	1,375	2 1/4	1 1/8	1-14	0,030	3/16
3,000	1,750	1,250	1,750	2 1/2	1 1/4	1 1/4-12	0,060	1/4
3,250	1,750	1,250	1,750	2 1/2	1 1/4	1 1/4-12	0,060	1/4
3,500	2,000	1,375	1,812	2 3/4	1 3/8	1 3/8-12	0,060	1/4
4,000	2,250	2,000	2,000	3 1/2	1 1/2	1 1/2-12	0,060	1/4



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Designation/Type				Recom. clamping torque (lbs-inch)	*Load Rating		Weight (kg) approx.
TORRINGTON	RBC	ZEN	SMITH		C, stat. (lbs)	C, dyn. (lbs)	
CRSCE-22	-	CCFE-1 3/8-S	CR-1 3/8-XEC	350	4250	3930	0.16 kg
-	-	CCFE-1/2-N-S	CR-1/2-A-XEC	15	720	620	0.02 kg
CRSCE-8-1	-	CCFE-1/2-S	CR-1/2-XEC	15	790	680	0.02 kg
-	-	CCFE-9/16-S	CR-9/16-XEC	15	790	680	0.02 kg
CRSCE-10-1	-	CCFE-5/8-S	CR-5/8-XEC	35	1215	955	0.02 kg
-	-	CCFE-11/16-S	CR-11/16-XEC	35	1215	955	0.03 kg
CRSCE-12	-	CCFE-3/4-S	CR-3/4-XEC	95	2065	1660	0.03 kg
CRSCE-14	-	CCFE-7/8-S	CR-7/8-XEC	95	2065	1660	0.04 kg
CRSCE-16	-	CCFE-1-S	CR-1-XEC	250	3060	2225	0.08 kg
CRSCE-18	-	CCFE-1 1/8-S	CR-1 1/8-XEC	250	3060	2225	0.09 kg
CRSCE-20	-	CCFE-1 1/4-S	CR-1 1/4-XEC	350	4250	3930	0.14 kg
CRSCE-24	-	CCFE-1 1/2-S	CR-1 1/2-XEC	650	5640	4840	0.24 kg
CRSCE-26	-	CCFE-1 5/8-S	CR-1 5/8-XEC	650	5640	4840	0.27 kg
CRSCE-28	-	CCFE-1 3/4-S	CR-1 3/4-XEC	1250	7920	6385	0.38 kg
CRSCE-30	-	CCFE-1 7/8-S	CR-1 7/8-XEC	1250	7920	6385	0.43 kg
CRSCE-32	-	CCFE-2-S	CR-2-XEC	1500	10570	8090	0.62 kg
CRSCE-36	-	CCFE-2 1/4-S	CR-2 1/4-XEC	1500	10570	8090	0.75 kg
CRSCE-40	-	CCFE-2 1/2-S	CR-2 1/2-XEC	2250	16450	11720	1.13 kg
CRSCE-44	-	CCFE-2 3/4-S	CR-2 3/4-XEC	2250	16450	11720	1.33 kg
CRSCE-48	-	CCFE-3-S	CR-3-XEC	3450	24910	15720	1.91 kg
CRSCE-52	-	CCFE-3 1/4-S	CR-3 1/4-XEC	3450	24910	15720	2.18 kg
CRSCE-56	-	CCFE-3 1/2-S	CR-3 1/2-XEC	4200	31625	22800	2.91 kg
CRSCE-64	-	CCFE-4-S	CR-4-XEC	5000	44770	29985	4.29 kg

Kurvenrollen der Type / Stud Type Track Rollers CCFE...SB



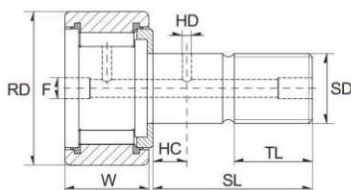
198

Dimension (inch)								
RD	W	G	BD	SL	TL	FINE THR'DS	EEC	F
0,375	0,750	0,625	0,687	1 1/4	5/8	1/2-20	0,030	3/16
0,500	0,344	0,250	0,250	1/2	1/4	10-32	0,010	-
0,500	0,375	0,375	0,250	5/8	1/4	10-32	0,010	-
0,562	0,375	0,375	0,250	5/8	1/4	10-32	0,010	-
0,625	0,4375	0,437	0,375	3/4	5/16	1/4-28	0,015	-
0,687	0,4375	0,437	0,375	3/4	5/16	1/4-28	0,015	-
0,750	0,500	0,500	0,500	7/8	3/8	3/8-24	0,015	3/16
0,875	0,500	0,500	0,500	7/8	3/8	3/8-24	0,015	3/16
1,000	0,625	0,500	0,625	1	1/2	7/16-20	0,030	3/16
1,125	0,625	0,500	0,625	1	1/2	7/16-20	0,030	3/16
1,250	0,750	0,625	0,687	1 1/4	5/8	1/2-20	0,030	3/16
1,500	0,875	0,750	0,875	1 1/2	3/4	5/8-18	0,030	3/16
1,625	0,875	0,750	0,875	1 1/2	3/4	5/8-18	0,030	3/16
1,750	1,000	0,875	1,000	1 3/4	7/8	3/4-16	0,030	3/16
1,875	1,000	0,875	1,000	1 3/4	7/8	3/4-16	0,030	3/16
2,000	1,250	1,000	1,187	2	1	7/8-14	0,030	3/16
2,250	1,250	1,000	1,187	2	1	7/8-14	0,030	3/16
2,500	1,500	1,125	1,375	2 1/4	1 1/8	1-14	0,030	3/16
2,750	1,500	1,125	1,375	2 1/4	1 1/8	1-14	0,030	3/16
3,000	1,750	1,250	1,750	2 1/2	1 1/4	1 1/4-12	0,060	1/4
3,250	1,750	1,250	1,750	2 1/2	1 1/4	1 1/4-12	0,060	1/4
3,500	2,000	1,375	1,812	2 3/4	1 3/8	1 3/8-12	0,060	1/4
4,000	2,250	2,000	2,000	3 1/2	1 1/2	1 1/2-12	0,060	1/4



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Designation/Type				Recom. clamping torque (lbs-inch)	*Load Rating		Weight (kg) approx.
TORRINGTON	RBC	ZEN	SMITH		C, stat. (lbs)	C, dyn. (lbs)	
CRSBCE-22	CS-44-LWX	CCFE-1 3/8-SB	CR-1 3/8-XBEC	350	4250	3930	0.16 kg
-	-	CCFE-1/2-N-SB	CR-1/2-A-XBEC	15	720	620	0.02 kg
CRSBCE-8-1	CS-16-LWX	CCFE-1/2-SB	CR-1/2-XBEC	15	790	680	0.02 kg
-	CS-18-LWX	CCFE-9/16-SB	CR-9/16-XBEC	15	790	680	0.02 kg
CRSBCE-10-1	CS-20-LWX	CCFE-5/8-SB	CR-5/8-XBEC	35	1215	955	0.02 kg
-	CS-22-LWX	CCFE-11/16-SB	CR-11/16-XBEC	35	1215	955	0.03 kg
CRSBCE-12	CS-24-LWX	CCFE-3/4-SB	CR-3/4-XBEC	95	2065	1660	0.03 kg
CRSBCE-14	CS-28-LWX	CCFE-7/8-SB	CR-7/8-XBEC	95	2065	1660	0.04 kg
CRSBCE-16	CS-32-LWX	CCFE-1-SB	CR-1-XBEC	250	3060	2225	0.08 kg
CRSBCE-18	CS-36-LWX	CCFE-1 1/8-SB	CR-1 1/8-XBEC	250	3060	2225	0.09 kg
CRSBCE-20	CS-40-LWX	CCFE-1 1/4-SB	CR-1 1/4-XBEC	350	4250	3930	0.14 kg
CRSBCE-24	CS-48-LWX	CCFE-1 1/2-SB	CR-1 1/2-XBEC	650	5640	4840	0.24 kg
CRSBCE-26	CS-52-LWX	CCFE-1 5/8-SB	CR-1 5/8-XBEC	650	5640	4840	0.27 kg
CRSBCE-28	CS-56-LWX	CCFE-1 3/4-SB	CR-1 3/4-XBEC	1250	7920	6385	0.38 kg
CRSBCE-30	CS-60-LWX	CCFE-1 7/8-SB	CR-1 7/8-XBEC	1250	7920	6385	0.43 kg
CRSBCE-32	CS-64-LWX	CCFE-2-SB	CR-2-XBEC	1500	10570	8090	0.62 kg
CRSBCE-36	CS-72-LWX	CCFE-2 1/4-SB	CR-2 1/4-XBEC	1500	10570	8090	0.75 kg
CRSBCE-40	CS-80-LWX	CCFE-2 1/2-SB	CR-2 1/2-XBEC	2250	16450	11720	1.13 kg
CRSBCE-44	CS-88-LWX	CCFE-2 3/4-SB	CR-2 3/4-XBEC	2250	16450	11720	1.33 kg
CRSBCE-48	CS-96-LWX	CCFE-3-SB	CR-3-XBEC	3450	24910	15720	1.91 kg
CRSBCE-52	CS-104-LWX	CCFE-3 1/4-SB	CR-3 1/4-XBEC	3450	24910	15720	2.20 kg
CRSBCE-56	CS-112-LWX	CCFE-3 1/2-SB	CR-3 1/2-XBEC	4200	31625	22800	2.91 kg
CRSBCE-64	CS-128-LWX	CCFE-4-SB	CR-4-XBEC	5000	44770	29985	4.29 kg



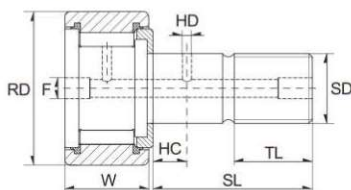
200

Dimension (inch)								
RD	W	SD	SL	TL	FINE THR'DS	HC	HD	F
0,500	0,375	0,250	5/8	1/4	1/4-28	-	-	1/8
0,500	0,375	0,250	5/8	1/4	1/4-28	-	-	1/8
0,562	0,375	0,250	5/8	1/4	1/4-28	-	-	1/8
0,562	0,375	0,250	5/8	1/4	1/4-28	-	-	1/8
0,625	0,4375	0,3125	3/4	5/16	5/16-24	-	-	1/8
0,625	0,4375	0,3125	3/4	5/16	5/16-24	-	-	1/8
0,687	0,4375	0,3125	3/4	5/16	5/16-24	-	-	1/8
0,687	0,4375	0,3125	3/4	5/16	5/16-24	-	-	1/8
0,750	0,500	0,4375	7/8	3/8	7/16-20	1/4	3/32	3/16
0,750	0,500	0,4375	7/8	3/8	7/16-20	1/4	3/32	3/16
0,875	0,500	0,4375	7/8	3/8	7/16-20	1/4	3/32	3/16
0,875	0,500	0,4375	7/8	3/8	7/16-20	1/4	3/32	3/16
1,000	0,625	0,625	1	1/2	5/8-18	1/4	3/32	3/16
1,000	0,625	0,625	1	1/2	5/8-18	1/4	3/32	3/16
1,125	0,625	0,625	1	1/2	5/8-18	1/4	3/32	3/16
1,125	0,625	0,625	1	1/2	5/8-18	1/4	3/32	3/16
1,250	0,750	0,750	1 1/4	5/8	3/4-16	5/16	3/32	3/16
1,250	0,750	0,750	1 1/4	5/8	3/4-16	5/16	3/32	3/16
1,375	0,750	0,750	1 1/4	5/8	3/4-16	5/16	3/32	3/16
1,375	0,750	0,750	1 1/4	5/8	3/4-16	5/16	3/32	3/16
1,500	0,875	0,875	1 1/2	3/4	7/8-14	3/8	3/32	3/16
1,500	0,875	0,875	1 1/2	3/4	7/8-14	3/8	3/32	3/16
1,625	0,875	0,875	1 1/2	3/4	7/8-14	3/8	3/32	3/16
1,625	0,875	0,875	1 1/2	3/4	7/8-14	3/8	3/32	3/16
1,750	1,000	1,000	1 3/4	7/8	1-14	7/16	3/32	3/16
1,750	1,000	1,000	1 3/4	7/8	1-14	7/16	3/32	3/16
1,875	1,000	1,000	1 3/4	7/8	1-14	7/16	3/32	3/16
1,875	1,000	1,000	1 3/4	7/8	1-14	7/16	3/32	3/16
2,000	1,250	1,125	2	1	1 1/8-12	1/2	1/8	3/16
2,000	1,250	1,125	2	1	1 1/8-12	1/2	1/8	3/16



201

Designation/Type				Recom. clamping torque (lbs-inch)	*Load Rating		Weight (kg) approx.
TORRINGTON	RBC	ZEN	SMITH		C, stat. (lbs)	C, dyn. (lbs)	
CRH-8-1	-	CFH-1/2	HR-1/2	35	1580	680	0.18 kg
CRHS-8-1	-	CFH-1/2-S	HR-1/2-X	35	1580	680	0.02 kg
-	-	CFH-9/16	HR-9/16	35	1580	680	0.02 kg
-	-	CFH-9/16-S	HR-9/16-X	35	1580	680	0.02 kg
CRH-10-1	-	CFH-5/8	HR-5/8	90	2480	955	0.02 kg
CRHS-10-1	-	CFH-5/8-S	HR-5/8-X	90	2480	955	0.02 kg
-	-	CFH-11/16	HR-11/16	90	2480	955	0.03 kg
-	-	CFH-11/16-S	HR-11/16-X	90	2480	955	0.03 kg
CRH-12	H-24	CFH-3/4	HR-3/4	250	4130	1660	0.04 kg
CRHS-12	H-24-L	CFH-3/4-S	HR-3/4-X	250	4130	1660	0.04 kg
CRH-14	H-28	CFH-7/8	HR-7/8	250	4130	1660	0.05 kg
CRHS-14	H-28-L	CFH-7/8-S	HR-7/8-X	250	4130	1660	0.05 kg
CRH-16	H-32	CFH-1	HR-1	650	6120	2225	0.09 kg
CRHS-16	H-32-L	CFH-1-S	HR-1-X	650	6120	2225	0.09 kg
CRH-18	H-36	CFH-1 1/8	HR-1 1/8	650	6120	2225	0.09 kg
CRHS-18	H-36-L	CFH-1 1/8-S	HR-1 1/8-X	650	6120	2225	0.09 kg
CRH-20	H-40	CFH-1 1/4	HR-1 1/4	1250	8500	3930	0.17 kg
CRHS-20	H-40-L	CFH-1 1/4-S	HR-1 1/4-X	1250	8500	3930	0.17 kg
CRH-22	H-44	CFH-1 3/8	HR-1 3/8	1250	8500	3930	0.20 kg
CRHS-22	H-44-L	CFH-1 3/8-S	HR-1 3/8-X	1250	8500	3930	0.20 kg
CRH-24	H-48	CFH-1 1/2	HR-1 1/2	1500	11280	4840	0.31 kg
CRHS-24	H-48-L	CFH-1 1/2-S	HR-1 1/2-X	1500	11280	4840	0.31 kg
CRH-26	H-52	CFH-1 5/8	HR-1 5/8	1500	11280	4840	0.34 kg
CRHS-26	H-52-L	CFH-1 5/8-S	HR-1 5/8-X	1500	11280	4840	0.34 kg
CRH-28	H-56	CFH-1 3/4	HR-1 3/4	2250	15840	6385	0.45 kg
CRHS-28	H-56-L	CFH-1 3/4-S	HR-1 3/4-X	2250	15840	6385	0.45 kg
CRH-30	H-60	CFH-1 7/8	HR-1 7/8	2250	15840	6385	0.52 kg
CRHS-30	H-60-L	CFH-1 7/8-S	HR-1 7/8-X	2250	15840	6385	0.52 kg
CRH-32	H-64	CFH-2	HR-2	2800	21140	8090	1.71 kg
CRHS-32	H-64-L	CFH-2-S	HR-2-X	2800	21140	8090	1.71 kg



202

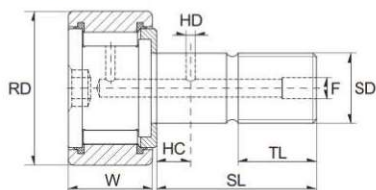
Dimension (inch)								
RD	W	SD	SL	TL	FINE THR'DS	HC	HD	F
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2,250	1,250	1,125	2	1	1 1/8-12	1/2	1/8	3/16
2,500	1,500	1,250	2 1/4	1 1/8	1 1/4-12	9/16	1/8	3/16
2,500	1,500	1,250	2 1/4	1 1/8	1 1/4-12	9/16	1/8	3/16
2,750	1,500	1,250	2 1/4	1 1/8	1 1/4-12	9/16	1/8	3/16
2,750	1,500	1,250	2 1/4	1 1/8	1 1/4-12	9/16	1/8	3/16
3,000	1,750	1,500	2 1/2	1 1/4	1 1/2-12	5/8	1/8	1/4
3,000	1,750	1,500	2 1/2	1 1/4	1 1/2-12	5/8	1/8	1/4
3,250	1,750	1,500	2 1/2	1 1/4	1 1/2-12	5/8	1/8	1/4
3,250	1,750	1,500	2 1/2	1 1/4	1 1/2-12	5/8	1/8	1/4
3,500	2,000	1,750	2 3/4	1 3/8	1 3/4-12	11/16	1/8	1/4
3,500	2,000	1,750	2 3/4	1 3/8	1 3/4-12	11/16	1/8	1/4
4,000	2,250	2,000	3 1/2	1 1/2	2-12	3/4	1/8	1/4
4,000	2,250	2,000	3 1/2	1 1/2	2-12	3/4	1/8	1/4
5,000	2,750	2,500	5 1/16	2 9/16	2 1/2-12	7/8	3/16	1/4
6,000	3,250	3,000	6	3	3-12	1	3/16	1/4
7,000	3,500	3,500	7 11/16	4 1/8	3 1/2-4	1 1/4	3/16	1/4



203

Designation/Type				Recom. clamping torque (lbs-inch)	*Load Rating		Weight (kg) approx.
TORRINGTON	RBC	ZEN	SMITH		C, stat. (lbs)	C, dyn. (lbs)	
CRH-36	H-72	CFH-2 1/4	HR-2 1/4	2800	21140	8090	0.85 kg
CRHS-36	H-72-L	CFH-2 1/4-S	HR-2 1/4-X	2800	21140	8090	0.85 kg
CRH-40	H-80	CFH-2 1/2	HR-2 1/2	3450	32900	11720	1.25 kg
CRHS-40	H-80-L	CFH-2 1/2-S	HR-2 1/2-X	3450	32900	11720	1.25 kg
CRH-44	H-88	CFH-2 3/4	HR-2 3/4	3450	32900	11720	1.45 kg
CRHS-44	H-88-L	CFH-2 3/4-S	HR-2 3/4-X	3450	32900	11720	1.45 kg
CRH-48	H-96	CFH-3	HR-3	5000	49820	15720	2.07 kg
CRHS-48	H-96-L	CFH-3-S	HR-3-X	5000	49820	15720	2.07 kg
CRH-52	H-104	CFH-3 1/4	HR-3 1/4	5000	49820	15720	2.35 kg
CRHS-52	H-104-L	CFH-3 1/4-S	HR-3 1/4-X	5000	49820	15720	2.35 kg
CRH-56	H-112	CFH-3 1/2	HR-3 1/2	5000	663250	22800	3.18 kg
CRHS-56	H-112-L	CFH-3 1/2-S	HR-3 1/2-X	5000	663250	22800	3.18 kg
CRH-64	H-128	CFH-4	HR-4	5000	89540	29985	4.91 kg
CRHS-64	H-128-L	CFH-4-S	HR-4-X	5000	89540	29985	4.91 kg
-	-	CFH-5-S	HR-5-X	5000	135900	46575	10.02 kg
-	-	CFH-6-S	HR-6-X	5000	160900	60000	16.52 kg
-	-	CFH-7-S	HR-7-X	5000	213860	75380	30.86 kg

Kurvenrollen der Type / Stud Type Track Rollers CFH...B & CFH...SB



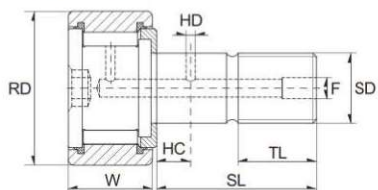
204

Dimension (inch)								
RD	W	SD	SL	TL	FINE THR'DS	HC	HD	F
0,500	0,375	0,250	5/8	1/4	1/4-28	-	-	-
0,500	0,375	0,250	5/8	1/4	1/4-28	-	-	-
0,562	0,375	0,250	5/8	1/4	1/4-28	-	-	-
0,562	0,375	0,250	5/8	1/4	1/4-28	-	-	-
0,625	0,4375	0,3125	3/4	5/16	5/16-24	-	-	-
0,625	0,4375	0,3125	3/4	5/16	5/16-24	-	-	-
0,687	0,4375	0,3125	3/4	5/16	5/16-24	-	-	-
0,687	0,4375	0,3125	3/4	5/16	5/16-24	-	-	-
0,750	0,500	0,4375	7/8	3/8	7/16-20	1/4	3/32	3/16
0,750	0,500	0,4375	7/8	3/8	7/16-20	1/4	3/32	3/16
0,875	0,500	0,4375	7/8	3/8	7/16-20	1/4	3/32	3/16
0,875	0,500	0,4375	7/8	3/8	7/16-20	1/4	3/32	3/16
1,000	0,625	0,625	1	1/2	5/8-18	1/4	3/32	3/16
1,000	0,625	0,625	1	1/2	5/8-18	1/4	3/32	3/16
1,125	0,625	0,625	1	1/2	5/8-18	1/4	3/32	3/16
1,125	0,625	0,625	1	1/2	5/8-18	1/4	3/32	3/16
1,250	0,750	0,750	1 1/4	5/8	3/4-16	5/16	3/32	3/16
1,250	0,750	0,750	1 1/4	5/8	3/4-16	5/16	3/32	3/16
1,375	0,750	0,750	1 1/4	5/8	3/4-16	5/16	3/32	3/16
1,375	0,750	0,750	1 1/4	5/8	3/4-16	5/16	3/32	3/16
1,500	0,875	0,875	1 1/2	3/4	7/8-14	3/8	3/32	3/16
1,500	0,875	0,875	1 1/2	3/4	7/8-14	3/8	3/32	3/16
1,625	0,875	0,875	1 1/2	3/4	7/8-14	3/8	3/32	3/16
1,625	0,875	0,875	1 1/2	3/4	7/8-14	3/8	3/32	3/16
1,750	1,000	1,000	1 3/4	7/8	1-14	7/16	3/32	3/16
1,750	1,000	1,000	1 3/4	7/8	1-14	7/16	3/32	3/16
1,875	1,000	1,000	1 3/4	7/8	1-14	7/16	3/32	3/16
1,875	1,000	1,000	1 3/4	7/8	1-14	7/16	3/32	3/16
2,000	1,250	1,125	2	1	1 1/8-12	1/2	1/8	3/16
2,000	1,250	1,125	2	1	1 1/8-12	1/2	1/8	3/16

205

Designation/Type				Recom. clamping torque (lbs-inch)	*Load Rating		Weight (kg) approx.
TORRINGTON	RBC	ZEN	SMITH		C, stat. (lbs)	C, dyn. (lbs)	
CRHB-8-1	-	CFH-1/2-B	HR-1/2-B	35	1580	680	0.02 kg
CRHSB-8-1	H-16-LW	CFH-1/2-SB	HR-1/2-XB	35	1580	680	0.02 kg
-	-	CFH-9/16-B	HR-9/16-B	35	1580	680	0.02 kg
-	H-18-LW	CFH-9/16-SB	HR-9/16-XB	35	1580	680	0.02 kg
CRHB-10-1	-	CFH-5/8-B	HR-5/8-B	90	2480	955	0.02 kg
CRHSB-10-1	H-20-LW	CFH-5/8-SB	HR-5/8-XB	90	2480	955	0.02 kg
-	-	CFH-11/16-B	HR-11/16-B	90	2480	955	0.03 kg
-	H-22-LW	CFH-11/16-SB	HR-11/16-XB	90	2480	955	0.03 kg
CRHB-12	-	CFH-3/4-B	HR-3/4-B	250	4130	1660	0.04 kg
CRHSB-12	H-24-LW	CFH-3/4-SB	HR-3/4-XB	250	4130	1660	0.04 kg
CRHB-14	-	CFH-7/8-B	HR-7/8-B	250	4130	1660	0.05 kg
CRHSB-14	H-28-LW	CFH-7/8-SB	HR-7/8-XB	250	4130	1660	0.05 kg
CRHB-16	-	CFH-1-B	HR-1-B	650	6120	2225	0.09 kg
CRHSB-16	H-32-LW	CFH-1-SB	HR-1-XB	650	6120	2225	0.09 kg
CRHB-18	-	CFH-1 1/8-B	HR-1 1/8-B	650	6120	2225	0.09 kg
CRHSB-18	H-36-LW	CFH-1 1/8-SB	HR-1 1/8-XB	650	6120	2225	0.09 kg
CRHB-20	-	CFH-1 1/4-B	HR-1 1/4-B	1250	8500	3930	0.17 kg
CRHSB-20	H-40-LW	CFH-1 1/4-SB	HR-1 1/4-XB	1250	8500	3930	0.17 kg
CRHB-22	-	CFH-1 3/8-B	HR-1 3/8-B	1250	8500	3930	0.20 kg
CRHSB-22	H-44-LW	CFH-1 3/8-SB	HR-1 3/8-XB	1250	8500	3930	0.20 kg
CRHB-24	-	CFH-1 1/2-B	HR-1 1/2-B	1500	11280	4840	0.31 kg
CRHSB-24	H-48-LW	CFH-1 1/2-SB	HR-1 1/2-XB	1500	11280	4840	0.31 kg
CRHB-26	-	CFH-1 5/8-B	HR-1 5/8-B	1500	11280	4840	0.34 kg
CRHSB-26	H-52-LW	CFH-1 5/8-SB	HR-1 5/8-XB	1500	11280	4840	0.34 kg
CRHB-28	-	CFH-1 3/4-B	HR-1 3/4-B	2250	15840	6385	0.45 kg
CRHSB-28	H-56-LW	CFH-1 3/4-SB	HR-1 3/4-XB	2250	15840	6385	0.45 kg
CRHB-30	-	CFH-1 7/8-B	HR-1 7/8-B	2250	15840	6385	0.52 kg
CRHSB-30	H-60-LW	CFH-1 7/8-SB	HR-1 7/8-XB	2250	15840	6385	0.52 kg
CRHB-32	-	CFH-2-B	HR-2-B	2800	21140	8090	0.71 kg
CRHSB-32	H-64-LW	CFH-2-SB	HR-2-XB	2800	21140	8090	0.71 kg

Kurvenrollen der Type / Stud Type Track Rollers CFH...B & CFH...SB



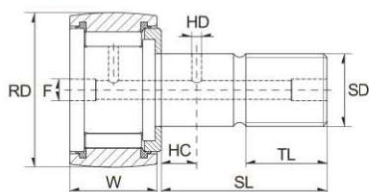
206

Dimension (inch)								
RD	W	SD	SL	TL	FINE THR'DS	HC	HD	F
2,250	1,250	1,125	2	1	1 1/8-12	1/2	1/8	3/16
2,250	1,250	1,125	2	1	1 1/8-12	1/2	1/8	3/16
2,500	1,500	1,250	2 1/4	1 1/8	1 1/4-12	9/16	1/8	3/16
2,500	1,500	1,250	2 1/4	1 1/8	1 1/4-12	9/16	1/8	3/16
2,750	1,500	1,250	2 1/4	1 1/8	1 1/4-12	9/16	1/8	3/16
2,750	1,500	1,250	2 1/4	1 1/8	1 1/4-12	9/16	1/8	3/16
3,000	1,750	1,500	2 1/2	1 1/4	1 1/2-12	5/8	1/8	1/4
3,000	1,750	1,500	2 1/2	1 1/4	1 1/2-12	5/8	1/8	1/4
3,250	1,750	1,500	2 1/2	1 1/4	1 1/2-12	5/8	1/8	1/4
3,250	1,750	1,500	2 1/2	1 1/4	1 1/2-12	5/8	1/8	1/4
3,500	2,000	1,750	2 3/4	1 3/8	1 3/4-12	11/16	1/8	1/4
3,500	2,000	1,750	2 3/4	1 3/8	1 3/4-12	11/16	1/8	1/4
4,000	2,250	2,000	3 1/2	1 1/2	2-12	3/4	1/8	1/4
4,000	2,250	2,000	3 1/2	1 1/2	2-12	3/4	1/8	1/4

207

Designation/Type				Recom. clamping torque (lbs-inch)	*Load Rating		Weight (kg) approx.
TORRINGTON	RBC	ZEN	SMITH		C, stat. (lbs)	C, dyn. (lbs)	
CRHB-36	-	CFH-2 1/4-B	HR-2 1/4-B	2800	21140	8090	0.85 kg
CRHSB-36	H-72-LW	CFH-2 1/4-SB	HR-2 1/4-XB	2800	21140	8090	0.85 kg
CRHB-40	-	CFH-2 1/2-B	HR-2 1/2-B	3450	32900	11720	1.25 kg
CRHSB-40	H-80-LW	CFH-2 1/2-SB	HR-2 1/2-XB	3450	32900	11720	1.25 kg
CRHB-44	-	CFH-2 3/4-B	HR-2 3/4-B	3450	32900	11720	1.45 kg
CRHSB-44	H-88-LW	CFH-2 3/4-SB	HR-2 3/4-XB	3450	32900	11720	1.45 kg
CRHB-48	-	CFH-3-B	HR-3-B	5000	49820	15720	2.07 kg
CRHSB-48	H-96-LW	CFH-3-SB	HR-3-XB	5000	49820	15720	2.07 kg
CRHB-52	-	CFH-3 1/4-B	HR-3 1/4-B	5000	49820	15720	2.35 kg
CRHSB-52	H-104-LW	CFH-3 1/4-SB	HR-3 1/4-XB	5000	49820	15720	2.35 kg
CRHB-56	-	CFH-3 1/2-B	HR-3 1/2-B	5000	63250	22800	3.18 kg
CRHSB-56	H-112-LW	CFH-3 1/2-SB	HR-3 1/2-XB	5000	63250	22800	3.18 kg
CRHB-64	-	CFH-4-B	HR-4-B	5000	89540	29985	4.91 kg
CRHSB-64	H-128-LW	CFH-4-SB	HR-4-XB	5000	89540	29985	4.91 kg

Kurvenrollen der Type / Stud Type Track Rollers CCFH...S

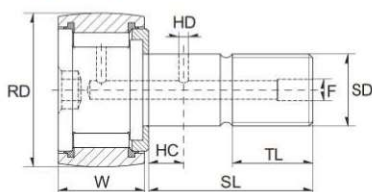


208

Dimension (inch)								
RD	W	SD	SL	TL	FINE THR'DS	HC	HD	F
0,500	0,375	0,250	5/8	1/4	1/4-28	-	-	1/8
0,562	0,375	0,250	5/8	1/4	1/4-28	-	-	1/8
0,625	0,4375	0,3125	3/4	5/16	5/16-24	-	-	1/8
0,687	0,4375	0,3125	3/4	5/16	5/16-24	-	-	1/8
0,750	0,500	0,4375	7/8	3/8	7/16-20	1/4	3/32	3/16
0,875	0,500	0,4375	7/8	3/8	7/16-20	1/4	3/32	3/16
1,000	0,625	0,625	1	1/2	5/8-18	1/4	3/32	3/16
1,125	0,625	0,625	1	1/2	5/8-18	1/4	3/32	3/16
1,250	0,750	0,750	1 1/4	5/8	3/4-16	5/16	3/32	3/16
1,375	0,750	0,750	1 1/4	5/8	3/4-16	5/16	3/32	3/16
1,500	0,875	0,875	1 1/2	3/4	7/8-14	3/8	3/32	3/16
1,625	0,875	0,875	1 1/2	3/4	7/8-14	3/8	3/32	3/16
1,750	1,000	1,000	1 3/4	7/8	1-14	7/16	3/32	3/16
1,875	1,000	1,000	1 3/4	7/8	1-14	7/16	3/32	3/16
2,000	1,250	1,125	2	1	1 1/8-12	1/2	1/8	3/16
2,250	1,250	1,125	2	1	1 1/8-12	1/2	1/8	3/16
2,500	1,500	1,250	2 1/4	1 1/8	1 1/4-12	9/16	1/8	3/16
2,750	1,500	1,250	2 1/4	1 1/8	1 1/4-12	9/16	1/8	3/16
3,000	1,750	1,500	2 1/2	1 1/4	1 1/2-12	5/8	1/8	1/4
3,250	1,750	1,500	2 1/2	1 1/4	1 1/2-12	5/8	1/8	1/4
3,500	2,000	1,750	2 3/4	1 3/8	1 3/4-12	11/16	1/8	1/4
4,000	2,250	2,000	3 1/2	1 1/2	2-12	3/4	1/8	1/4
5,000	2,750	2,500	5 11/16	2 9/16	2 1/2-12	7/8	3/16	1/4
6,000	3,250	3,000	6	3	3-12	1	3/16	1/4
7,000	3,750	3,500	7 11/16	4 1/8	3 1/2-4	1 1/4	3/16	1/4

209

Designation/Type				Recom. clamping torque (lbs-inch)	*Load Rating		Weight (kg) approx.
TORRINGTON	RBC	ZEN	SMITH		C, stat. (lbs)	C, dyn. (lbs)	
CRHSC-8-1	-	CCFH-1/2-S	HR-1/2-XC	35	1580	680	0.02 kg
-	-	CCFH-9/16-S	HR-9/16-XC	35	1580	680	0.02 kg
CRHSC-10-1	-	CCFH-5/8-S	HR-5/8-XC	90	2480	955	0.02 kg
-	-	CCFH-11/16-S	HR-11/16-XC	90	2480	955	0.03 kg
CRHSC-12	CH-24-L	CCFH-3/4-S	HR-3/4-XC	250	4130	1660	0.04 kg
CRHSC-14	CH-28-L	CCFH-7/8-S	HR-7/8-XC	250	4130	1660	0.05 kg
CRHSC-16	CH-32-L	CCFH-1-S	HR-1-XC	650	6120	2225	0.09 kg
CRHSC-18	CH-36-L	CCFH-1 1/8-S	HR-1 1/8-XC	650	6120	2225	0.09 kg
CRHSC-20	CH-40-L	CCFH-1 1/4-S	HR-1 1/4-XC	1250	8500	3930	0.17 kg
CRHSC-22	CH-44-L	CCFH-1 3/8-S	HR-1 3/8-XC	1250	8500	3930	0.20 kg
CRHSC-24	CH-48-L	CCFH-1 1/2-S	HR-1 1/2-XC	1500	11280	4840	0.31 kg
CRHSC-26	CH-52-L	CCFH-1 5/8-S	HR-1 5/8-XC	1500	11280	4840	0.34 kg
CRHSC-28	CH-56-L	CCFH-1 3/4-S	HR-1 3/4-XC	2250	15840	6385	0.45 kg
CRHSC-30	CH-60-L	CCFH-1 7/8-S	HR-1 7/8-XC	2250	15840	6385	0.52 kg
CRHSC-32	CH-64-L	CCFH-2-S	HR-2-XC	2800	21140	8090	0.71 kg
CRHSC-36	CH-72-L	CCFH-2 1/4-S	HR-2 1/4-XC	2800	21140	8090	0.85 kg
CRHSC-40	CH-80-L	CCFH-2 1/2-S	HR-2 1/2-XC	3450	32900	11720	1.25 kg
CRHSC-44	CH-88-L	CCFH-2 3/4-S	HR-2 3/4-XC	3450	32900	11720	1.45 kg
CRHSC-48	CH-96-L	CCFH-3-S	HR-3-XC	5000	49820	15720	2.07 kg
CRHSC-52	CH-104-L	CCFH-3 1/4-S	HR-3 1/4-XC	5000	49820	15720	2.35 kg
CRHSC-56	CH-112-L	CCFH-3 1/2-S	HR-3 1/2-XC	5000	63250	22800	3.18 kg
CRHSC-64	CH-128-L	CCFH-4-S	HR-4-XC	5000	89540	29985	4.91 kg
-	-	CCFH-5-S	HR-5-XC	5000	135900	46575	10.02 kg
-	-	CCFH-6-S	HR-6-XC	5000	160900	60000	16.52 kg
-	-	CCFH-7-S	HR-7-XC	5000	213860	75380	30.86 kg



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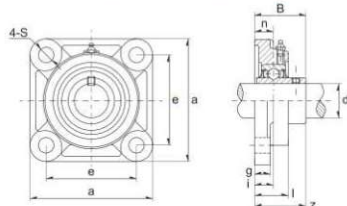
Dimension (inch)								
RD	W	SD	SL	TL	FINE THR'DS	HC	HD	F
0,500	0,375	0,250	5/8	1/4	1/4-28	-	-	-
0,562	0,375	0,250	5/8	1/4	1/4-28	-	-	-
0,625	0,4375	0,3125	3/4	5/16	5/16-24	-	-	-
0,687	0,4375	0,3125	3/4	5/16	5/16-24	-	-	-
0,750	0,500	0,4375	7/8	3/8	7/16-20	1/4	3/32	3/16
0,875	0,500	0,4375	7/8	3/8	7/16-20	1/4	3/32	3/16
1,000	0,625	0,625	1	1/2	5/8-18	1/4	3/32	3/16
1,125	0,625	0,625	1	1/2	5/8-18	1/4	3/32	3/16
1,250	0,750	0,750	1 1/4	5/8	3/4-16	5/16	3/32	3/16
1,375	0,750	0,750	1 1/4	5/8	3/4-16	5/16	3/32	3/16
1,500	0,875	0,875	1 1/2	3/4	7/8-14	3/8	3/32	3/16
1,625	0,875	0,875	1 1/2	3/4	7/8-14	3/8	3/32	3/16
1,750	1,000	1,000	1 3/4	7/8	1-14	7/16	3/32	3/16
1,875	1,000	1,000	1 3/4	7/8	1-14	7/16	3/32	3/16
2,000	1,250	1,125	2	1	1 1/8-12	1/2	1/8	3/16
2,250	1,250	1,125	2	1	1 1/8-12	1/2	1/8	3/16
2,500	1,500	1,250	2 1/4	1 1/8	1 1/4-12	9/16	1/8	3/16
2,750	1,500	1,250	2 1/4	1 1/8	1 1/4-12	9/16	1/8	3/16
3,000	1,750	1,500	2 1/2	1 1/4	1 1/2-12	5/8	1/8	1/4
3,250	1,750	1,500	2 1/2	1 1/4	1 1/2-12	5/8	1/8	1/4
3,500	2,000	1,750	2 3/4	1 3/8	1 3/4-12	11/16	1/8	1/4
4,000	2,250	2,000	3 1/2	1 1/2	2-12	3/4	1/8	1/4



Designation/Type				Recom. clamping torque (lbs-inch)	*Load Rating		Weight (kg) approx.
TORRINGTON	RBC	ZEN	SMITH		C, stat. (lbs)	C, dyn. (lbs)	
CRHSBC-8-1	CH-16-LW	CCFH-1/2-SB	HR-1/2-XBC	35	1580	680	0.02 kg
-	CH-18-LW	CCFH-9/16-SB	HR-9/16-XBC	35	1580	680	0.02 kg
CRHSBC-10-1	CH-20-LW	CCFH-5/8-SB	HR-5/8-XBC	90	2480	955	0.02 kg
-	CH-22-LW	CCFH-11/16-SB	HR-11/16-XBC	90	2480	955	0.03 kg
CRHSBC-12	CH-24-LW	CCFH-3/4-SB	HR-3/4-XBC	250	4130	1660	0.04 kg
CRHSBC-14	CH-28-LW	CCFH-7/8-SB	HR-7/8-XBC	250	4130	1660	0.05 kg
CRHSBC-16	CH-32-LW	CCFH-1-SB	HR-1-XBC	650	6120	2225	0.09 kg
CRHSBC-18	CH-36-LW	CCFH-1 1/8-SB	HR-1 1/8-XBC	650	6120	2225	0.09 kg
CRHSBC-20	CH-40-LW	CCFH-1 1/4-SB	HR-1 1/4-XBC	1250	8500	3930	0.17 kg
CRHSBC-22	CH-44-LW	CCFH-1 3/8-SB	HR-1 3/8-XBC	1250	8500	3930	0.20 kg
CRHSBC-24	CH-48-LW	CCFH-1 1/2-SB	HR-1 1/2-XBC	1500	11280	4840	0.31 kg
CRHSBC-26	CH-52-LW	CCFH-1 5/8-SB	HR-1 5/8-XBC	1500	11280	4840	0.34 kg
CRHSBC-28	CH-56-LW	CCFH-1 3/4-SB	HR-1 3/4-XBC	2250	15840	6385	0.45 kg
CRHSBC-30	CH-60-LW	CCFH-1 7/8-SB	HR-1 7/8-XBC	2250	15840	6385	0.52 kg
CRHSBC-32	CH-64-LW	CCFH-2-SB	HR-2-XBC	2800	21140	8090	0.71 kg
CRHSBC-36	CH-72-LW	CCFH-2 1/4-SB	HR-2 1/4-XBC	2800	21140	8090	0.85 kg
CRHSBC-40	CH-80-LW	CCFH-2 1/2-SB	HR-2 1/2-XBC	3450	32900	11720	1.25 kg
CRHSBC-44	CH-88-LW	CCFH-2 3/4-SB	HR-2 3/4-XBC	3450	32900	11720	1.45 kg
CRHSBC-48	CH-96-LW	CCFH-3-SB	HR-3-XBC	5000	49820	15720	2.07 kg
CRHSBC-52	CH-104-LW	CCFH-3 1/4-SB	HR-3 1/4-XBC	5000	49820	15720	2.35 kg
CRHSBC-56	CH-112-LW	CCFH-3 1/2-SB	HR-3 1/2-XBC	5000	63250	22800	3.18 kg
CRHSBC-64	CH-128-LW	CCFH-4-SB	HR-4-XBC	5000	89540	29985	4.91 kg

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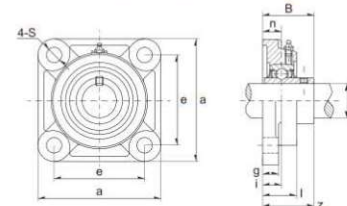
Gehäuselager UCF200 / Cast Iron Housings UCF200



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Ref Type	Dimension (mm / inch)						Bearing No.	Housing No.	Weight Kg	Weight lbs
	d inch	d mm	a	e	Bolt mm	Bolt inch				
UCF201-8	1/2		3 3/8	2 33/64		3/8	UC201-8	F204		1.30 lbs
UCF202-9	9/16		3 3/8	2 33/64		3/8	UC202-9	F204		1.30 lbs
UCF202-10	5/8		3 3/8	2 33/64		3/8	UC202-10	F204		1.30 lbs
UCF203-11	11/16		3 3/8	2 33/64		3/8	UC203-11	F204		1.30 lbs
UCF204-12	3/4		3 3/8	2 33/64		3/8	UC204-12	F204		1.30 lbs
UCF201		12.0	86.0	64.0	M10		UC201	F204	0.61 kg	
UCF202		15.0	86.0	64.0	M10		UC202	F204	0.61 kg	
UCF203		17.0	86.0	64.0	M10		UC203	F204	0.61 kg	
UCF204		20.0	86.0	64.0	M10		UC204	F204	0.61 kg	
UCF205-13	13/16		3 3/4	2 3/4		3/8	UC205-13	F205		1.80 lbs
UCF205-14	7/8		3 3/4	2 3/4		3/8	UC205-14	F205		1.80 lbs
UCF205-15	15/16		3 3/4	2 3/4		3/8	UC205-15	F205		1.80 lbs
UCF205-16	1		3 3/4	2 3/4		3/8	UC205-16	F205		1.80 lbs
UCF205		25.0	95.0	70.0	M10		UC205	F205	0.82 kg	
UCF206-17	1-1/6		4 1/4	3 17/64		3/8	UC206-17	F206		2.50 lbs
UCF206-18	1-1/8		4 1/4	3 17/64		3/8	UC206-18	F206		2.50 lbs
UCF206-19	1-3/16		4 1/4	3 17/64		3/8	UC206-19	F206		2.50 lbs
UCF206-20	1-1/4		4 1/4	3 17/64		3/8	UC206-20	F206		2.50 lbs
UCF206		30.0	108.0	83.0	M10		UC206	F206	1.13 kg	
UCF207-20	1-1/4		4 39/64	3 5/8		7/16	UC207-20	F207		3.10 lbs
UCF207-21	1-5/16		4 39/64	3 5/8		7/16	UC207-21	F207		3.10 lbs
UCF207-22	1-3/8		4 39/64	3 5/8		7/16	UC207-22	F207		3.10 lbs
UCF207-23	1-7/16		4 39/64	3 5/8		7/16	UC207-23	F207		3.10 lbs
UCF207		35.0	117.0	92.0	M12		UC207	F207	1.42 kg	
UCF208-24	1-1/2		5 1/8	4 1/64		1/2	UC208-24	F208		4.10 lbs
UCF208-25	1-9/16		5 1/8	4 1/64		1/2	UC208-25	F208		4.10 lbs
UCF208		40.0	130.0	102.0	M14		UC208	F208	1.87 kg	
UCF209-26	1-5/8		5 13/32	4 9/64		1/2	UC209-26	F209		4.70 lbs
UCF209-27	1-11/16		5 13/32	4 9/64		1/2	UC209-27	F209		4.70 lbs
UCF209-28	1-3/4		5 13/32	4 9/64		1/2	UC209-28	F209		4.70 lbs
UCF209		45.0	137.0	105.0	M14		UC209	F209	2.15 kg	
UCF210-29	1-13/16		5 5/8	4 3/8		1/2	UC210-29	F210		5.40 lbs
UCF210-30	1-7/8		5 5/8	4 3/8		1/2	UC210-30	F210		5.40 lbs

Gehäuselager UCF200 / Cast Iron Housings UCF200



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Ref Type	Dimension (mm / inch)						Bearing No.	Housing No.	Weight Kg	Weight lbs
	d inch	d mm	a	e	Bolt mm	Bolt inch				
UCF210-31	1-15/16		5 5/8	4 3/8		1/2	UC210-31	F210		5.40 lbs
UCF210-32	2		5 5/8	4 3/8		1/2	UC210-32	F210		5.40 lbs
UCF210		50.0	143	111	M14		UC210	F210	2.45 kg	
UCF211-32	2		6 3/8	5 1/8		5/8	UC211-32	F211		7.50 lbs
UCF211-33	2-1/16		6 3/8	5 1/8		5/8	UC211-33	F211		7.50 lbs
UCF211-34	2-1/8		6 3/8	5 1/8		5/8	UC211-34	F211		7.50 lbs
UCF211-35	2-3/16		6 3/8	5 1/8		5/8	UC211-35	F211		7.50 lbs
UCF211		55.0	162	130	M16		UC211	F211	3.4 kg	
UCF212-36	2-1/4		6 57/64	5 5/8		5/8	UC212-36	F212		9.20 lbs
UCF212-37	2-5/16		6 57/64	5 5/8		5/8	UC212-37	F212		9.20 lbs
UCF212-38	2-3/8		6 57/64	5 5/8		5/8	UC212-38	F212		9.20 lbs
UCF212-39	2-7/16		6 57/64	5 5/8		5/8	UC212-39	F212		9.20 lbs
UCF212		60.0	175	143	M16		UC212	F212	4.17 kg	
UCF213-40	2-1/2		7 23/54	5 55/64		5/8	UC213-40	F213		11.70 lbs
UCF213-41	2-9/16		7 23/54	5 55/64		5/8	UC213-41	F213		11.70 lbs
UCF213		65.0	187	149	M16		UC213	F213	5.32 kg	
UCF214-42	2-5/8		7 19/32	5 63/64		5/8	UC214-42	F214		13 lbs
UCF214-43	2-11/16		7 19/32	5 63/64		5/8	UC214-43	F214		13 lbs
UCF214-44	2-3/4		7 19/32	5 63/64		5/8	UC214-44	F214		13 lbs
UCF214		70.0	193	152	M16		UC214	F214	5.92 kg	
UCF215-45	2-13/16		7 7/8	6 17/64		5/8	UC215-45	F215		14.60 lbs
UCF215-46	2-7/8		7 7/8	6 17/64		5/8	UC215-46	F215		14.60 lbs
UCF215-47	2-15/16		7 7/8	6 17/64		5/8	UC215-47	F215		14.60 lbs
UCF215-48	3		7 7/8	6 17/64		5/8	UC215-48	F215		14.60 lbs
UCF215		75.0	200	159	M16		UC215	F215	6.65 kg	
UCF216-50	3-1/8		8 3/16	6 1/2		3/4	UC216-50	F216		17.4 lbs
UCF216		80.0	208	165	M20		UC216	F216	7.89 kg	
UCF217-52	3-1/4		8 21/32	6 57/64		3/4	UC217-52	F217		20.20 lbs
UCF217		85.0	220	175	M20		UC217	F217	9.18 kg	
UCF218-56	3-1/2		9 1/4	7 23/64		3/4	UC218-56	F218		24.7 lbs
UCF218		90.0	235	187	M20		UC218	F218	11.2 kg	
UCF220-64	4		10,4331	8,2677		7/8	UC220-64	F220		26.4 lbs
UCF220		100.0	265	210	M22		UC220	F220	12.0 kg	