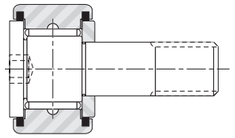
STUD-TYPE TRACK ROLLERS
CRHB,CRHSB SERIES
INCH SERIES

- Non-separable, sealed unit with outer ring, full complement of needle rollers, stud seals, self-lubricating resin internal thrust washers and stud-fastened retaining washer.
- Seals help retain lubricant and exclude foreign matter (CRS Series).
- Hexagonal wrench socket in stud head for mounting.
- Re-lubrication via axially drilled hole through stud with cross-drilled holes in stud raceway and shank.
- Recessed axial hole accepts standard nominal inch drive-type grease lubrication fitting.
- Lubrication fitting plugs furnished to close off unused holes.
- Large diameter heavy-duty stud.
- Tolerance limits for outer diameters of stud and outer ring refer to “single mean diameter.”
- A close fit between stud and hole required for mounting.
- Bore dimensions given below result in varying fit (0.025 mm tight to 0.013 mm loose [0.0010 in. tight to 0.0005 in. loose]).
- Retaining washer should be firmly backed up by flat housing shoulder (perpendicular to the stud axis).
- Shoulder diameter should be at least same size as minimum clamping diameter listed.
- May be mounted with two thin lock nuts, or nut and lock washer.

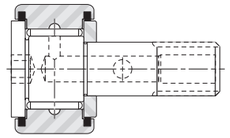
Outer Dia.	d_1	D	C	B_2	B_3	G_1	d_4	d_2	d_3	G	Track Roller Designation	
	+0.025 +0.001 0 0	0 0 -0.025 -0.001	0 0 -0.13 -0.005	(nom.)		Min.				UNF	Without Seals	With Seals and Internal Thrust Washers
in	mm in	mm in	mm in	mm in	mm in	mm in	mm in	mm in	mm in	in		
1/2	6.350 0.2500	12.70 0.500	9.53 0.375	15.88 0.625	-	6.35 0.250	-	-	-	1/4-28	CRHB-8-1	CRHSB-8-1
5/8	7.940 0.3125	15.88 0.625	11.11 0.438	19.10 0.750	-	7.90 0.310	-	-	-	5/16-24	CRHB-10-1	CRHSB-10-1
3/4	11.110 0.4375	19.05 0.750	12.70 0.500	22.20 0.880	6.35 0.250	9.50 0.380	-	4.78 0.188	2.39 0.094	7/16-20	CRHB-12	CRHSB-12
7/8	11.110 0.4375	22.23 0.875	12.70 0.500	22.20 0.880	6.35 0.250	9.50 0.380	-	4.78 0.188	2.39 0.094	7/16-20	CRHB-14	CRHSB-14
1	15.880 0.6250	25.40 1.000	15.88 0.625	25.40 1.000	6.35 0.250	12.70 0.500	-	4.78 0.188	2.39 0.094	5/8-18	CRHB-16	CRHSB-16
1 1/8	15.880 0.6250	28.58 1.125	15.88 0.625	25.40 1.000	6.35 0.250	12.70 0.500	-	4.78 0.188	2.39 0.094	5/8-18	CRHB-18	CRHSB-18
1 1/4	19.050 0.7500	31.75 1.250	19.05 0.750	31.75 1.250	7.92 0.312	15.90 0.630	-	4.78 0.188	2.39 0.094	3/4-16	CRHB-20	CRHSB-20
1 3/8	19.050 0.7500	34.93 1.375	19.05 0.750	31.80 1.250	7.92 0.312	15.90 0.630	-	4.78 0.188	2.39 0.094	3/4-16	CRHB-22	CRHSB-22
1 1/2	22.230 0.8750	38.10 1.500	22.23 0.875	38.10 1.500	9.53 0.375	19.10 0.750	-	4.78 0.188	2.39 0.094	7/8-14	CRHB-24	CRHSB-24
1 5/8	22.230 0.8750	41.28 1.625	22.23 0.875	38.10 1.500	9.53 0.375	19.10 0.750	-	4.78 0.188	2.39 0.094	7/8-14	CRHB-26	CRHSB-26
1 3/4	25.400 1.0000	44.45 1.750	25.40 1.000	44.45 1.750	11.13 0.438	22.20 0.880	-	4.78 0.188	3.18 0.125	1-14[1]	CRHB-28	CRHSB-28
1 7/8	25.400 1.0000	47.63 1.875	25.40 1.000	44.45 1.750	11.13 0.438	22.20 0.880	-	4.78 0.188	3.18 0.125	1-14[1]	CRHB-30	CRHSB-30

[1] UNS instead of UNF threads.
Furnished with lubrication hole in head end of stud and lubrication fitting installed below bottom of hex wrench socket.

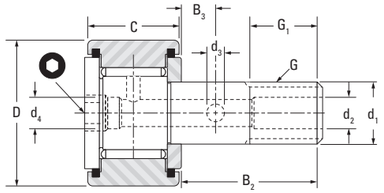
For hexagonal wrench sizes, see page B-5-30.



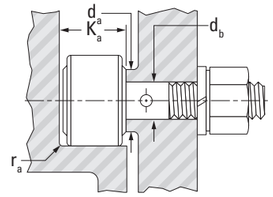
CRHB and CRHSB -8-1 to -10-1



CRHB and CRHSB -24 to -44



CRHB and CRHSB -12 to -22
CRHB and CRHSB -48 to -64



NOTE
Clamping torque is based on lubricated threads. If threads are dry, the torque values listed below may be doubled.

Load Rating					Speed Rating Grease	Mounting Dimensions				Clamping Torque	Approx Wt.
As a Bearing		As a Track Roller				d_b	$r_{as\ max}$	K_a	d_a		
Dynamic	Static	Dynamic		Static		Bore Dia. For Stud +0.013 +0.0005 0 0					
C	C_0	C_w	$F_{r\ perm}$	$F_{0r\ perm}$			Max.	Min.	Min.		
kN lbf	kN lbf	kN lbf	kN lbf	kN lbf	min^{-1}	mm in	mm in	mm in	mm in	N-m lb-in	kg lbs
4.89 1100	5.60 1260	3.39 762	1.36 305	3.25 731	7000	6.350 0.2500	0.25 0.010	11.2 0.44	10.41 0.410	3.96 35	0.02 0.04
6.54 1470	8.72 1960	4.76 1070	2.79 628	6.72 1510	5500	7.938 0.3125	0.38 0.015	12.8 0.50	11.73 0.462	10.17 90	0.02 0.05
10.14 2280	14.68 3300	6.27 1410	2.92 656	6.98 1570	3800	11.112 0.4375	0.38 0.015	14.4 0.57	15.47 0.609	28.25 250	0.04 0.08
10.14 2280	14.68 3300	7.38 1660	4.94 1110	11.88 2670	3800	11.112 0.4375	0.38 0.015	14.4 0.57	15.47 0.609	28.25 250	0.05 0.11
12.99 2920	21.93 4930	8.41 1890	5.60 1260	13.43 3020	2800	15.875 0.6250	0.76 0.030	17.6 0.69	19.84 0.781	73.45 650	0.09 0.20
12.99 2920	21.93 4930	9.43 2120	8.18 1840	17.48 3930	2800	15.875 0.6250	0.76 0.030	17.6 0.69	19.84 0.781	73.45 650	0.11 0.24
21.04 4730	33.27 7480	13.88 3120	8.27 1860	19.79 4450	2400	19.050 0.7500	0.76 0.030	20.7 0.82	24.99 0.984	141.25 1250	0.17 0.38
21.04 4730	33.27 7480	15.26 3430	11.39 2560	26.56 5970	2400	19.050 0.7500	0.76 0.030	20.7 0.82	24.99 0.984	141.25 1250	0.20 0.44
24.64 5540	42.61 9580	16.95 3810	13.12 2950	30.83 6930	2000	22.225 0.8750	0.76 0.030	23.9 0.94	27.79 1.094	169.5 1500	0.31 0.69
24.64 5540	42.61 9580	18.19 4090	16.95 3810	35.27 7930	2000	22.225 0.8750	0.76 0.030	23.9 0.94	27.79 1.094	169.5 1500	0.34 0.75
30.87 6940	59.16 13300	21.66 4870	20.73 4660	44.48 10000	1700	25.400 1.0000	1.02 0.040	27.1 1.07	31.75 1.250	254.25 2250	0.45 1.00
30.87 6940	59.16 13300	22.91 5150	25.58 5750	49.38 11100	1700	25.400 1.0000	1.02 0.040	27.1 1.07	31.75 1.250	254.25 2250	0.52 1.15

Continued on next page.

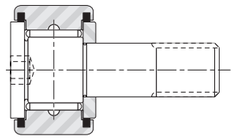
STUD-TYPE TRACK ROLLERS
CRHB,CRHSB SERIES
INCH SERIES

- Non-separable, sealed unit with outer ring, full complement of needle rollers, stud seals, self-lubricating resin internal thrust washers and stud-fastened retaining washer.
- Seals help retain lubricant and exclude foreign matter (CRS Series).
- Hexagonal wrench socket in stud head for mounting.
- Re-lubrication via axially drilled hole through stud with cross-drilled holes in stud raceway and shank.
- Recessed axial hole accepts standard nominal inch drive-type grease lubrication fitting.
- Lubrication fitting plugs furnished to close off unused holes.
- Large diameter heavy-duty stud.
- Tolerance limits for outer diameters of stud and outer ring refer to "single mean diameter."
- A close fit between stud and hole required for mounting.
- Bore dimensions given below result in varying fit (0.025 mm tight to 0.013 mm loose [0.0010 in. tight to 0.0005 in. loose]).
- Retaining washer should be firmly backed up by flat housing shoulder (perpendicular to the stud axis).
- Shoulder diameter should be at least same size as minimum clamping diameter listed.
- May be mounted with two thin lock nuts, or nut and lock washer.

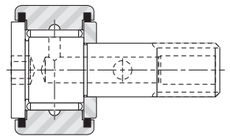
Outer Dia.	d_1	D	C	B_2	B_3	G_1	d_4	d_2	d_3	G	Track Roller Designation	
											Without Seals	With Seals and Internal Thrust Washers
in	**mm** in	**mm** in	**mm** in	**mm** in	**mm** in	**mm** in	**mm** in	**mm** in	**mm** in	in		
2	**28.580** 1.1250	**50.80** 2.000	**31.75** 1.250	**50.80** 2.000	**12.70** 0.500	**25.40** 1.000	-	**4.78** 0.188	**3.18** 0.125	1 1/8-12	CRHB-32	CRHSB-32
2 1/4	**28.580** 1.1250	**57.15** 2.250	**31.75** 1.250	**50.80** 2.000	**12.70** 0.500	**25.40** 1.000	-	**4.78** 0.188	**3.18** 0.125	1 1/8-12	CRHB-36	CRHSB-36
2 1/2	**31.750** 1.2500	**63.50** 2.500	**38.10** 1.500	**57.20** 2.250	**14.27** 0.562	**28.58** 1.125	-	**4.78** 0.188	**3.18** 0.125	1 1/4-12	CRHB-40	CRHSB-40
2 3/4	**31.750** 1.2500	**69.85** 2.750	**38.10** 1.500	**57.20** 2.250	**14.27** 0.562	**28.57** 1.125	-	**4.78** 0.188	**3.18** 0.125	1 1/4-12	CRHB-44	CRHSB-44
3	**38.100** 1.5000	**76.20** 3.000	**44.45** 1.750	**63.50** 2.500	**15.88** 0.625	**31.75** 1.250	**6.35** 0.250	**6.35** 0.250	**3.18** 0.125	1 1/2-12	CRHB-48	CRHSB-48
3 1/4	**38.100** 1.5000	**82.55** 3.250	**44.45** 1.750	**63.50** 2.500	**15.88** 0.625	**31.75** 1.250	**6.35** 0.250	**6.35** 0.250	**3.18** 0.125	1 1/2-12	CRHB-52	CRHSB-52
3 1/2	**44.450** 1.7500	**88.90** 3.500	**50.80** 2.000	**69.90** 2.750	**17.48** 0.688	**34.93** 1.375	**6.35** 0.250	**6.35** 0.250	**3.18** 0.125	1 3/4-12	CRHB-56	CRHSB-56
4	**50.800** 2.0000	**101.60** 4.000	**57.15** 2.250	**88.90** 3.500	**19.05** 0.750	**38.10** 1.500	**6.35** 0.250	**6.35** 0.250	**3.18** 0.125	2/12	CRHB-64	CRHSB-64

(1) UNS instead of UNF threads.
Furnished with lubrication hole in head end of stud and lubrication fitting installed below bottom of hex wrench socket.

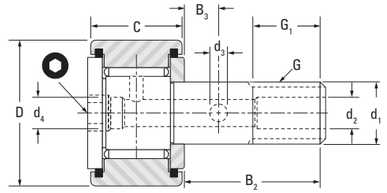
For hexagonal wrench sizes, see page B-5-30



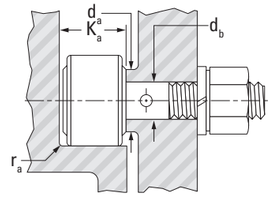
CRHB and CRHSB -8-1 to -10-1



CRHB and CRHSB -24 to -44



CRHB and CRHSB -12 to -22
CRHB and CRHSB -48 to -64



NOTE
Clamping torque is based on lubricated threads. If threads are dry, the torque values listed below may be doubled.

Load Rating					Speed Rating Grease	Mounting Dimensions				Clamping Torque	Approx Wt.
As a Bearing		As a Track Roller				d_b	$r_{as\ max}$	K_a	d_a		
Dynamic	Static	Dynamic		Static		Bore Dia. For Stud +0.013 +0.0005 0 0	Max.	Min.	Min.		
C	C_0	C_w	$F_{r\ perm}$	$F_{0r\ perm}$							
kN lbf	**kN** lbf	**kN** lbf	**kN** lbf	**kN** lbf	min^{-1}	**mm** in	**mm** in	**mm** in	**mm** in	**N-m** lb-in	**kg** lbs
38.25 8600	**81.40** 18300	**27.05** 6080	**30.87** 6940	**61.83** 13900	1500	**28.575** 1.1250	**1.27** 0.050	**33.4** 1.32	**35.71** 1.406	**316.4** 2800	**0.71** 1.56
38.25 8600	**81.40** 18300	**29.40** 6610	**43.10** 9690	**72.51** 16300	1500	**28.575** 1.1250	**1.27** 0.050	**33.4** 1.32	**35.71** 1.406	**316.4** 2800	**0.85** 1.88
58.27 13100	**117.43** 26400	**44.48** 10000	**54.71** 12300	**104.09** 23400	1400	**31.750** 1.2500	**2.29** 0.090	**39.8** 1.57	**42.88** 1.688	**389.85** 3450	**1.25** 2.75
58.27 13100	**117.43** 26400	**47.15** 10600	**71.17** 16000	**116.54** 26200	1400	**31.750** 1.2500	**2.29** 0.090	**39.8** 1.57	**42.88** 1.688	**389.85** 3450	**1.45** 3.19
74.29 16700	**177.93** 40000	**51.60** 11600	**68.50** 15400	**131.22** 29500	990	**38.100** 1.5000	**2.29** 0.090	**46.1** 1.82	**53.98** 2.125	**565** 5000	**2.07** 4.56
74.29 16700	**177.93** 40000	**54.71** 12300	**85.85** 19300	**147.24** 33100	990	**38.100** 1.5000	**2.29** 0.090	**46.1** 1.82	**53.98** 2.125	**565** 5000	**2.36** 5.19
109.87 24700	**225.52** 50700	**82.29** 18500	**94.75** 21300	**191.27** 43000	950	**44.450** 1.7500	**2.29** 0.090	**52.5** 2.07	**61.93** 2.438	**565** 5000	**3.18** 7.01
137.89 31000	**319.38** 71800	**98.75** 22200	**125.88** 28300	**250.43** 56300	780	**50.800** 2.0000	**2.29** 0.090	**58.8** 2.32	**71.04** 2.797	**565** 5000	**2.23** 4.91