



SCB-TR Series

Introduction

SCB-TR Tri-Roller Bearings
Offers increased stiffness and capacity compared to the SCB-XR and SCB-DT series
OD size range up : 48"- 275"

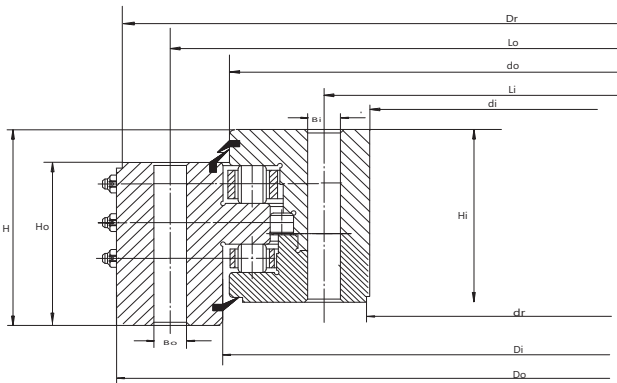
Construction

- Three separate rows of rollers
- Top and bottom rollers transmit thrust and moment load
- Middle roller transmits radial loading
- Sealed
- Ring Configuration:
 - Non geared
 - External gear
 - Internal gear
- Grease fittings for lubrication

Applications

- Mining
- Stackers and reclaimers
- Heavy equipment
- Cranes
- Radar
- Boring machines

No Gear

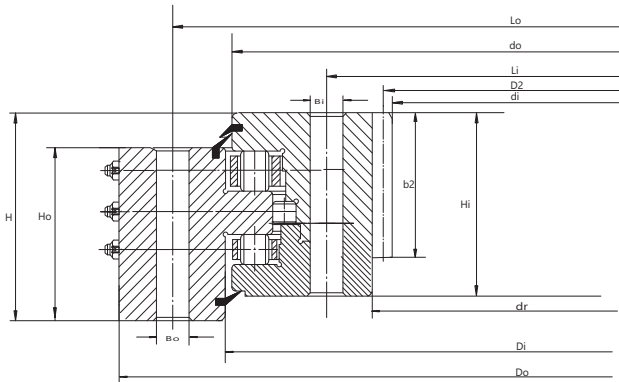


SOCARE® No.	KAYDON® No.	OUTLINE DIMENSIONS(IN) AND WEIGHT (LBS)								
		Do	di	H	Hi/Ho	Di	dr	Dr	do	G(LBS) Approx.
SCB-TR1233	16349001	48.560	33.000	7.300	6.880/6.380	7.300	7.300	39.310	39.710	1,700
SCB-TR1445	16350001	56.890	41.535	8.661	8.150/6.772	8.661	8.661	47.215	47.563	2,450
SCB-TR1962	16351001	77.250	59.880	7.550	7.000/7.120	7.550	7.550	69.410	70.420	3,400
SCB-TR2362	16352001	93.000	72.500	9.050	8.630/8.620	9.050	9.050	80.960	81.420	5,630
SCB-TR3012	16353001	118.583	97.638	7.677	7.283/6.102	7.677	7.677	107.087	107.402	6,280
SCB-TR3110	16354001	122.480	107.638	9.000	5.472/4.646	9.000	9.000	113.780	113.976	3,500
SCB-TR4013	16356001	158.000	136.500	5.945	8.500/7.250	5.945	5.945	146.280	146.080	10,100
SCB-TR5270	16387001	207.480	187.795	8.819	8.425	8.819	8.819	198.622	199.055	13,200
SCB-TR6000	16366001	236.220	210.236	12.205	9.842/11.811	12.205	12.205	225.433	224.409	25,800
Contact SoCare® about custom features, configurations and construction. (mounting holes, materials, coating, internal clearance)										

SOCARE® No.	KAYDON® No.	MOUNTING HOLES						Moment Rating Crm (ft-lbs)
		OUTER RING			INNER RING			
		Lo	no	Bo	Li	ni	Bi	
SCB-TR1233	16349001	46.000	32	1.313	36.000	32	1 1/4-7	1,104,700
SCB-TR1445	16350001	54.843	48	1.024	43.583	48	1.024	1,275,900
SCB-TR1962	16351001	74.500	44	1.250	62.500	44	1.250	2,332,400
SCB-TR2362	16352001	89.500	60	1.625	76.000	60	1.625	6,404,300
SCB-TR3012	16353001	115.039	72	1.535	101.181	72	1.535	7,936,000
SCB-TR3110	16354001	119.882	66	1.299	110.236	66	1.299	6,653,000
SCB-TR4013	16356001	154.000	100	1.563	140.500	100	1.563	20,124,000
SCB-TR5270	16387001	202.756	120	1.535	190.945	120	1.535	32,339,000
SCB-TR6000	16366001	231.102	120	1.772	215.354	120	1.772	49,976,000
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Internal Gear

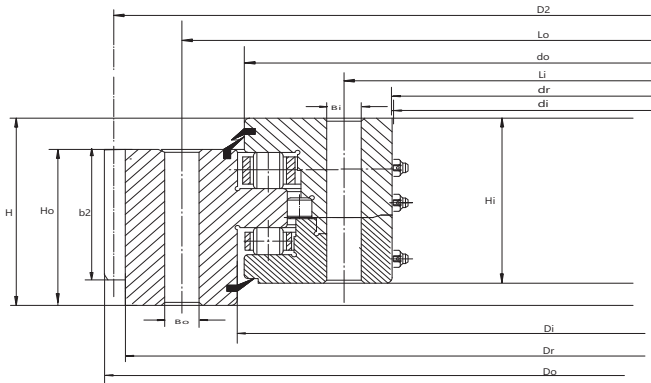


SOCARE® No.	KAYDON® No.	OUTLINE DIMENSIONS(IN)								Gear Data INV.STUB,α=20°					
		Do	di	H	Hi	Ho	Di	do	dr	D2 (in)	Pd/m (in)	Z2	b2 (in)	X2	Tooth Form
SCB-TRN1385	16376001	54.530	41.760	4.720	4.410	3.700	48.150	48.390	43.380	42.400	2.5	106	3.390	0	SD
SCB-TRN1630	16377001	64.173	46.850	7.874	7.283	6.299	54.803	54.567	-	46.850	<10>	119	6.299	-.75	FD
SCB-TRN1791	16378001	70.500	50.200	8.620	8.120	6.750	59.800	60.220	52.250	51.000	2	102	5.000	0	SD
SCB-TRN2216	16379001	87.244	68.032	6.969	6.772	5.315	77.764	78.112	71.102	68.661	<16>	109	4.252	-.5	FD
SCB-TRN2748	16380001	108.189	85.433	8.504	8.150	6.850	97.126	96.339	88.150	85.984	<14>	156	4.724	-.5	FD
SCB-TRN3069	16381001	120.866	97.008	13.701	10.157	11.732	108.740	109.291	97.008	97.874	<22>	113	8.000	-.5	FD
SCB-TRN3190	16382001	125.620	106.333	8.380	6.810	6.880	115.280	115.630	-	107.333	1.5	161	6.880	-.25	FD
SCB-TRN3950	16383001	155.512	131.339	9.055	8.661	7.284	143.307	143.701	133.701	132.284	<12>	280	5.906	0	FD
SCB-TRN4760	16384001	187.402	162.992	9.252	8.858	7.480	175.158	175.591	-	164.567	<20>	209	7.480	0	FD
SCB-TRN5791	16385001	228.000	198.000	11.750	11.25	9.250	213.630	214.130	203.00	200.000	1	200	6.000	0	FD

SOCARE® No.	KAYDON® No.	MOUNTING HOLES						WEIGHT G Approx. (lbs)	Max Gear Tooth Loading Fz (lbs)	Moment Rating Crm (ft-lbs)
		OUTER RING			INNER RING					
		Lo	no	Bo	Li	ni	Bi			
SCB-TRN1385	16376001	52.953	36	1.024	45.079	36	1.024	950	28,250	896,700
SCB-TRN1630	16377001	61.811	48	1.024	50.551	48	1.024	3,650	55,480	1,479,900
SCB-TRN1791	16378001	67.625	48	1 1/2-6	55.000	48	1.563	3,550	56,440	3,514,400
SCB-TRN2216	16379001	84.646	60	1.299	73.819	60	1.299	3,460	60,240	4,250,900
SCB-TRN2748	16380001	104.646	80	1.772	91.890	80	1.772	6,000	57,210	9,038,400
SCB-TRN3069	16381001	117.717	72	1.535	104.724	72	1.535	10,820	143,850	10,642,000
SCB-TRN3190	16382001	122.812	72	1.563	112.250	72	1 1/2-6	5,800	93,140	9,275,100
SCB-TRN3950	16383001	151.969	96	1.535	137.402	96	1.535	10,550	59,840	18,616,000
SCB-TRN4760	16384001	183.858	90	1.535	169.882	90	1.535	14,200	128,000	28,772,000
SCB-TRN5791	16385001	224.000	150	1.563	207.000	150	1.563	24,950	130,700	43,823,000

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(mounting holes, materials, coating, internal clearance)

External Gear



SOCARE® No.	KAYDON® No.	OUTLINE DIMENSIONS (IN)								Gear Data INV.STUB,α=20°					
		Do	di	H	Hi	Ho	Di	do	Dr	D2 (in)	Pd/m (in)	Z2	b2 (in)	X2	Tooth Form
SCB-TRE1450	16367001	57.100	42.500	5.000	4.500	4.500	48.850	49.090	53.750	56.000	1.5	84	4.000	-.18	FD
SCB-TRE1811	16368001	71.388	57.000	5.850	4.790	4.630	63.760	64.030	69.040	69.921	<12>	148	3.430	-.50	FD
SCB-TRE2484	16369001	97.795	76.850	7.126	5.472	6.772	86.614	87.047	-	96.378	<18>	136	5.472	0	FD
SCB-TRE2941	16370001	115.800	90.500	10.750	8.500	10.25	104.24	104.04	-	115.000	2	230	8.500	0	SD
SCB-TRE3880	16371001	152.756	129.921	10.039	8.071	9.646	141.535	141.339	-	150.394	<20>	191	8.071	+.50	FD
SCB-TRE4320	16372001	170.079	144.882	9.941	7.638	9.449	156.729	157.155	-	168.504	<20>	214	7.638	0	FD
SCB-TRE5358	16373001	210.968	187.795	8.819	8.425	8.425	198.622	199.055	207.48	208.346	<18>	294	5.906	+.85	FD
SCB-TRE5918	16388001	233.000	203.000	11.750	9.25	11.250	216.880	217.380	228.00	230.000	1	230	7.000	+.50	FD

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		OUTER RING			INNER RING					
		Lo	no	Bo	Li	ni	Bi			
SCB-TRE1450	16367001	52.000	40	1.094	44.375	40	1.094	1,250	46,750	829,300
SCB-TRE1811	16368001	66.889	60	1.024	59.252	60	1.024	1,600	27,510	1,329,900
SCB-TRE2484	16369001	91.535	40	1.535	79.921	40	1.535	4,400	70,630	4,129,500
SCB-TRE2941	16370001	109.750	96	1 1/2-6	94.500	96	1 1/2-6	10,000	89,510	12,091,000
SCB-TRE3880	16371001	145.669	90	1.299	133.465	90	1.299	11,130	117,500	11,652,000
SCB-TRE4320	16372001	162.992	120	1.535	148.425	120	1.535	13,830	111,600	24,086,000
SCB-TRE5358	16373001	202.756	120	1.535	190.945	120	1.535	14,330	78,770	32,339,000
SCB-TRE5918	16388001	224.000	150	1.563	207.000	150	1.563	25,500	130,300	43,823,000

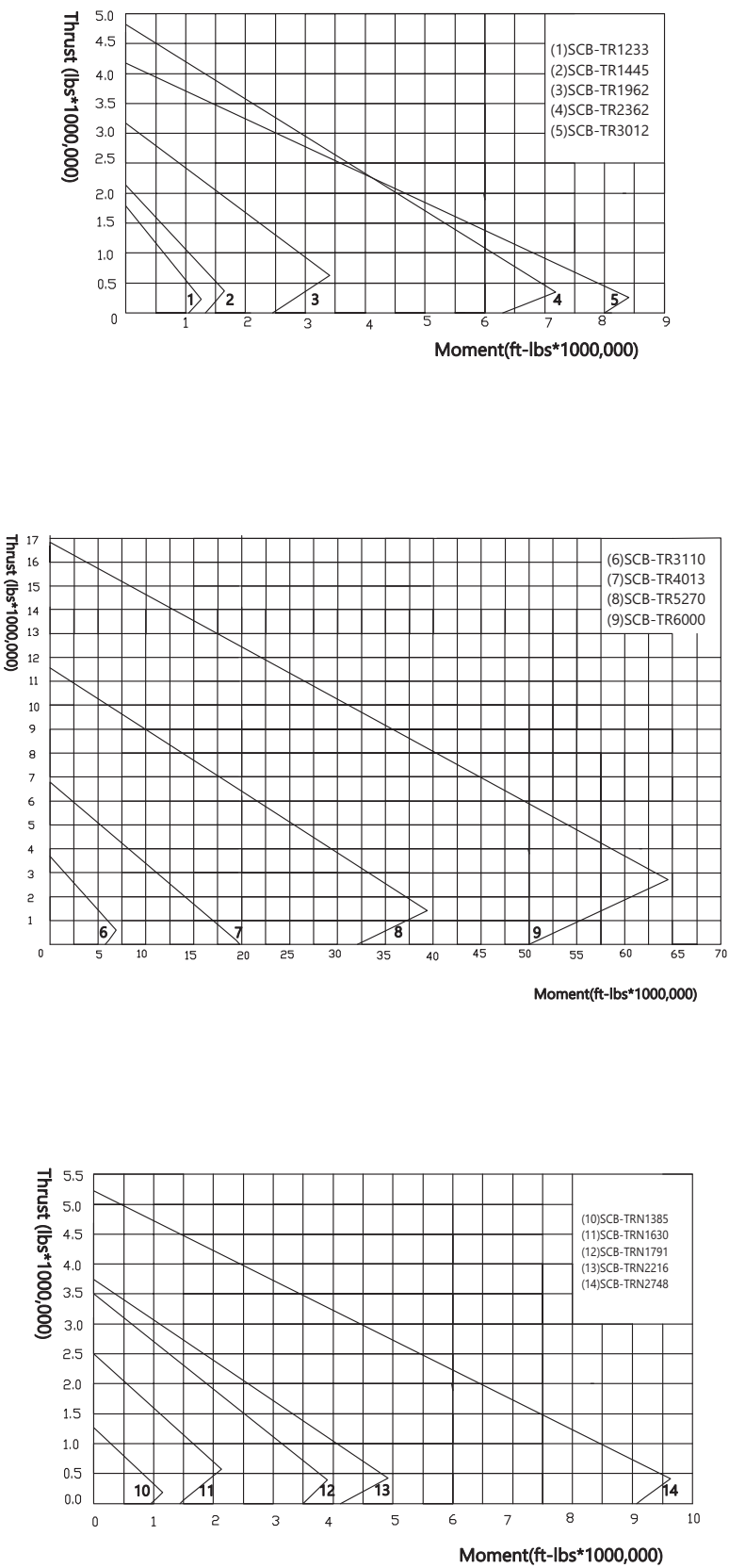
SCB-TRE1450 dr=42.630 SCB-TRE1811 dr=57.080

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SCB-TR Load Ratings**

**Ratings based on bearing capability, consult SoCare® engineering to ensure design criteria.



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