



Cylindrical Roller Bearings (Full Complement Type):

Single Row Cylindrical Roller Bearings are for high radial loads. Application which require very high load and very high rigidity & which do not require much speeds compared to those with cage type. SL1818**/SL1829**/SL1830**/SL1822**/ SL1923 (Semi-Locating).

Suffix and Corresponding Description For Single Row Cylindrical Roller Bearings	
Suffix	Description of Suffix
A	Internal Design
C1	Radial Internal Clearance C1 (Clearance lesser than C2)
C2	Radial Internal Clearance C2 (Clearance lesser than CN)
No Symbol	(CN) Normal Internal Clearance
C3	Radial Internal Clearance C3 (Clearance Larger than Normal)
C4	Radial Internal Clearance C4 (Clearance Larger than C3)

Locating Bearings:

Locating Bearings can support radial and axial loads in both directions.

Non-Locating Bearings:

Non-Locating Bearings can support only radial loads.

Semi-Locating Bearings:

Semi-Locating Bearings can support radial loads as well as limited axial loads in one direction by means of a rib. These Bearings operate in the opposing direction as Non-Locating Bearings and the axial displacement should be taken into consideration in these cases. The Bearing Unit is secured by a snap ring in the outer ring.

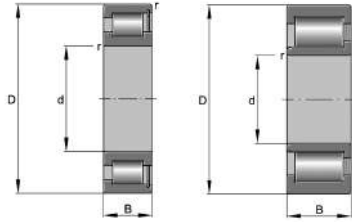
Rope Sheaves Bearings:

Rope sheave bearings are locating bearings having snap ring both sides.

Single Row Cylindrical Roller Bearings
(Full Complement)

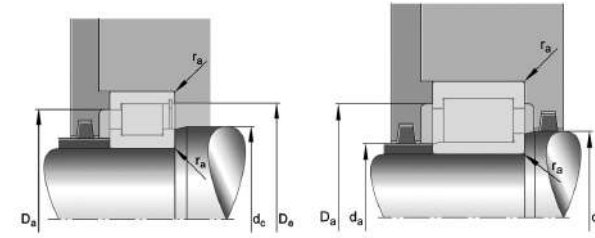


Single Row Cylindrical Roller Bearings
(Full Complement)



SL1818, SL1822, SL1829, SL1830

SL1923



Mounting Dimension for
SL1818, SL1822, SL1829, SL1830

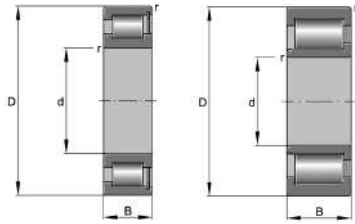
Mounting Dimension for SL1923

Boundary Dimensions				Basic Load Rating		Limiting speed	Bearing Designation	Abutment and Fillet Dimensions					Mass Approx
(mm)				(KN)		(rpm)		(mm)					(kg)
d	D	B	r	C _r	C _{or}			d _a	d _c	D _a	D _o	r _a	
			(min)										
20	42	16	0.6	30.50	26.00	11400	SL183004	-	28.5	32.5	36.5	0.6	0.11
20	47	18	1	45.50	37.00	10400	SL182204	-	30	36.5	41	1	0.16
25	47	16	0.6	35.00	32.00	9500	SL183005	-	34.5	38.5	42.5	0.6	0.12
25	52	18	1	51.00	44.50	9000	SL182205	-	35.5	41.5	46.5	1	0.18
25	62	24	1.1	73.00	59.00	8100	SL192305	31.5	36.5	47.5	-	1.1	0.37
30	55	19	1	45.00	42.00	8100	SL183006	-	40	45	49.5	1	0.2
30	62	20	1	70.00	64.00	7400	SL182206	-	42	50.5	55	1	0.3
30	72	27	1.1	100.00	87.00	6800	SL192306	38	43.5	56	-	1.1	0.56
35	62	20	1	55.00	53.00	7100	SL183007	-	44.5	51	55.5	1	0.26
35	72	23	1.1	88.00	78.00	6400	SL182207	-	47	59	63.5	1.1	0.44
35	80	31	1.5	126.00	110.00	5800	SL192307	44.5	50.5	65.5	-	1.5	0.74
40	68	21	1	66.00	67.00	6300	SL183008	-	50.5	57	61.5	1	0.31
40	80	23	1.1	97.00	91.00	5600	SL182208	-	54	66	70.5	1.1	0.55
40	90	33	1.5	170.00	153.00	5000	SL192308	51	57.5	75	-	1.5	1.01
45	75	23	1	70.00	74.00	5800	SL183009	-	55	62	66.5	1	0.4
45	85	23	1.1	101.00	98.00	5300	SL182209	-	57.5	69.5	74	1.1	0.59
45	100	36	1.5	181.00	164.00	4600	SL192309	56	62.5	80	-	1.5	1.37
50	80	23	1	88.00	94.00	5300	SL183010	-	59	67.5	72	1	0.43
50	90	23	1.1	109.00	111.00	4750	SL182210	-	64	76.5	81	1.1	0.64
50	110	40	2	232.00	215.00	4200	SL192310	60.5	68	89.5	-	2	1.81
55	90	26	1.1	120.00	136.00	4550	SL183011	-	68.5	78.5	83.5	1.1	0.64
55	100	25	1.5	140.00	148.00	4350	SL182211	-	70	84	88.5	1.5	0.87
55	120	43	2	270.00	250.00	3750	SL192311	67	75.5	99	-	2	2.28
60	85	16	1	63.00	76.00	4700	SL182912	-	69	74	78.5	1	0.29
60	95	26	1.1	123.00	143.00	4350	SL183012	-	71.5	82	86.5	1.1	0.69
60	110	28	1.5	169.00	176.00	3900	SL182212	-	76.5	93.5	99	1.5	1.18
60	130	46	2.1	285.00	275.00	3500	SL192312	73.5	82	105.5	-	2.1	2.88
65	90	16	1	67.00	84.00	4250	SL182913	-	75.5	81	85	1	0.31
65	100	26	1.1	130.00	157.00	4000	SL183013	-	78	88	93	1.1	0.73
65	120	31	1.5	198.00	210.00	3650	SL182213	-	82	100.5	106	1.5	1.57

Single Row Cylindrical Roller Bearings
(Full Complement)

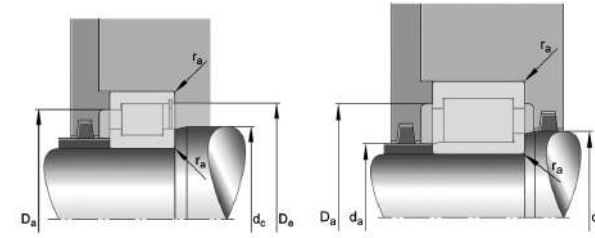


Single Row Cylindrical Roller Bearings
(Full Complement)



SL1818, SL1822, SL1829, SL1830

SL1923



Mounting Dimension for
SL1818, SL1822, SL1829, SL1830

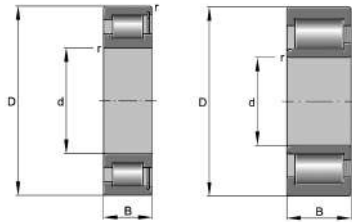
Mounting Dimension for SL1923

Boundary Dimensions				Basic Load Rating		Limiting speed	Bearing Designation	Abutment and Fillet Dimensions					Mass Approx
(mm)				(KN)		(rpm)		(mm)					(kg)
d	D	B	r	Cr	Cor			da	dc	Da	Do	ra	
			(min)										
65	140	48	2.1	350.00	345.00	3200	SL192313	80.5	90	116.5	-	2.1	3.52
70	100	19	1	88.00	111.00	3950	SL182914	-	81	87.5	92	1	0.49
70	110	30	1.1	153.00	174.00	3750	SL183014	-	81.5	95.5	100	1.1	1.02
70	125	31	1.5	181.00	223.00	3450	SL182214	-	87	105	111	1.5	1.66
70	150	51	2.1	385.00	385.00	3050	SL192314	84	93.5	121.5	-	2.1	4.33
75	105	19	1	91.00	119.00	3700	SL182915	-	86	92.5	97	1	0.52
75	115	30	1.1	162.00	192.00	3450	SL183015	-	89	103	107.5	1.1	1.06
75	130	31	1.5	187.00	236.00	3250	SL182215	-	91.5	110	116	1.5	1.75
75	160	55	2.1	460.00	465.00	2800	SL192315	91	101.5	131.5	-	2.1	5.3
80	110	19	1	94.00	126.00	3500	SL182916	-	91	98	102.5	1	0.55
80	125	34	1.1	170.00	220.00	3200	SL183016	-	95	111.5	117	1.1	1.43
80	140	33	2	223.00	280.00	3000	SL182216	-	98.5	119	126	2	2.15
80	170	58	2.1	540.00	560.00	2600	SL192316	98	109.5	142	-	2.1	6.32
85	120	22	1.1	118.00	159.00	3300	SL182917	-	96	105	109.5	1.1	0.81
85	130	34	1.1	175.00	231.00	3050	SL183017	-	99	116	121.5	1.1	1.51
85	150	36	2	255.00	320.00	2850	SL182217	-	104	126	133.5	2	2.74
85	180	60	3	570.00	610.00	2410	SL192317	107	118	150.5	-	3	7.34
90	125	22	1.1	122.00	169.00	3100	SL182918	-	102	110.5	115.5	1.1	0.84
90	140	37	1.5	205.00	275.00	2850	SL183018	-	106	124.5	130	1.5	1.97
90	160	40	2	285.00	365.00	2700	SL182218	-	110	133	141	2	3.48
90	190	64	3	620.00	650.00	2400	SL192318	105	117.5	152.5	-	3	8.83
95	130	22	1.1	132.00	177.00	2950	SL182919	-	106.5	117	122	1.1	0.86
95	1170	43	2.1	330.00	425.00	2420	SL182219	-	122	147	155.5	2.1	4.17
95	200	67	3	650.00	710.00	2240	SL192319	114.5	126.5	161.5	-	3	10.2
100	140	24	1.1	152.00	203.00	2750	SL182920	-	113	125.5	130.5	1.1	1.14
100	150	37	1.5	216.00	300.00	2600	SL183020	-	115.5	134	140	1.5	2.15
100	180	46	2.1	390.00	510.00	2300	SL182220	-	127.5	154	163	2.1	5.13
100	215	73	3	790.00	850.00	2110	SL192320	119	132.5	172.5	-	3	13
110	150	24	1.1	155.00	213.00	2500	SL182922	-	124	136	141.5	1.1	1.23
110	170	45	2	280.00	385.00	2350	SL183022	-	127	149	156.5	2	3.5

Single Row Cylindrical Roller Bearings
(Full Complement)

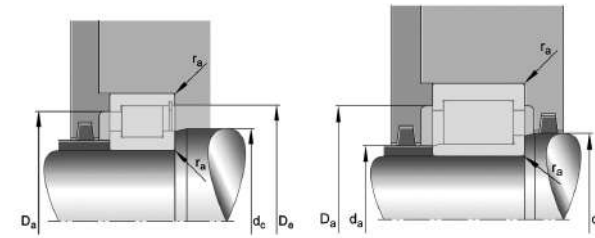


Single Row Cylindrical Roller Bearings
(Full Complement)



SL1818, SL1822, SL1829, SL1830

SL1923



Mounting Dimension for
SL1818, SL1822, SL1829, SL1830

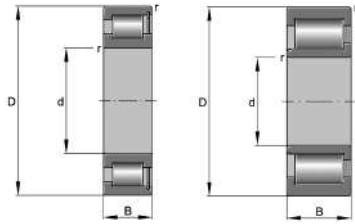
Mounting Dimension for SL1923

Boundary Dimensions				Basic Load Rating		Limiting speed	Bearing Designation	Abutment and Fillet Dimensions					Mass Approx
(mm)				(KN)		(rpm)		(mm)					(kg)
d	D	B	r	Cr	Cor			da	dc	Da	D0	ra	
			(min)										
110	200	53	2.1	450.00	580.00	2130	SL182222	-	137	168	177.5	2.1	7.24
110	240	80	3	950.00	970.00	1820	SL192322	134	151	199.5	-	3	17
120	165	27	1.1	199.00	285.00	2290	SL182924	-	134.5	149	154	1.1	1.73
120	180	46	2	295.00	425.00	2160	SL183024	-	138.5	160.5	168	2	3.8
120	215	58	2.1	530.00	720.00	1930	SL182224	-	150.5	183	192.5	2.1	9.08
120	260	86	3	1130.00	1230.00	1690	SL192324	147	164	213	-	3	22.3
130	180	30	1.5	238.00	350.00	2110	SL182926	-	146	161	167	11.5	2.33
130	200	52	2	425.00	600.00	1990	SL183026	-	148.5	175.5	184	2	5.65
130	230	64	3	620.00	850.00	1790	SL182226	-	162	197	207.5	3	11.25
130	280	93	4	1260.00	1380.00	1570	SL192326	157.5	176	227.5	-	4	27.95
140	190	30	1.5	260.00	375.00	1950	SL182928	-	157	174	180	11.5	2.42
140	210	53	2	450.00	660.00	1820	SL183028	-	162	189.5	198	2	6.04
140	250	68	3	720.00	1000.00	1660	SL182228	-	173.5	211	222.5	3	14.47
140	300	102	4	1410.00	1570.00	1470	SL192328	168	187.5	243	-	4	34.9
150	210	36	2	340.00	480.00	1790	SL182930	-	169	189.5	1196.5	2	3.77
150	225	56	2.1	475.00	700.00	1740	SL183030	-	170	198	207	2.1	7.33
150	270	73	3	820.00	1160.00	1560	SL182230	-	185.5	225	237	3	18.43
150	320	108	4	1490.00	1900.00	1350	SL192330	182	203	263.5	-	4	42.1
160	220	36	2	350.00	510.00	1680	SL182932	-	179.5	200.5	1207.5	2	4
160	240	60	2.1	540.00	800.00	1600	SL183032	-	184.5	215.5	225	2.1	8.8
160	290	80	3	1020.00	1470.00	1370	SL182232	-	208.5	253	267	3	23
160	340	114	4	1690.00	2170.00	1250	SL192332	196	219	284	-	4	49.7
170	230	36	2	365.00	540.00	1590	SL182934	-	190.5	211	218	2	4.3
170	260	67	2.1	700.00	1050.00	1480	SL183034	-	198	232.5	243.5	2.1	12.2
170	310	86	4	1140.00	1660.00	1300	SL182234	-	220	267	281.5	4	28.65
170	360	120	4	1830.00	2380.00	1200	SL192334	203.5	226.5	295	-	4	59.2
180	250	42	2	455.00	680.00	1500	SL182936	-	200.5	224	1231.5	2	6.2
180	280	74	2.1	810.00	1240.00	1370	SL183036	-	212	249	261	2.1	16.1
180	320	86	4	1180.00	1760.00	1230	SL182236	-	232	279.5	294	4	29.8
180	380	126	4	1940.00	2600.00	1120	SL192336	221.5	245	312.5	-	4	69.1

Single Row Cylindrical Roller Bearings
(Full Complement)

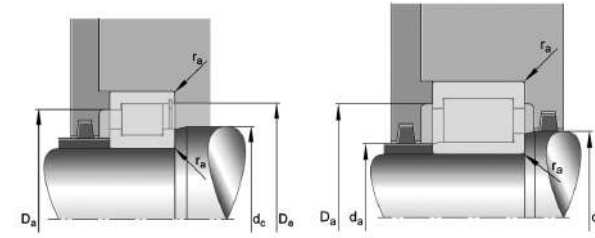


Single Row Cylindrical Roller Bearings
(Full Complement)



SL1818, SL1822, SL1829, SL1830

SL1923



Mounting Dimension for
SL1818, SL1822, SL1829, SL1830

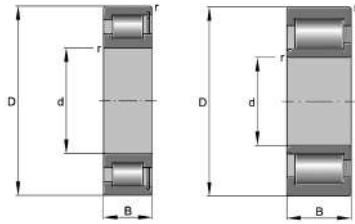
Mounting Dimension for SL1923

Boundary Dimensions				Basic Load Rating		Limiting speed	Bearing Designation	Abutment and Fillet Dimensions					Mass Approx
(mm)				(KN)		(rpm)		(mm)					(kg)
d	D	B	r	Cr	Cor			da	dc	Da	Do	ra	
			(min)										
190	260	42	2	510.00	770.00	1420	SL182938	-	211.5	238.5	244	2	6.5
190	290	75	2.1	830.00	1,300.00	1320	SL183038	-	221.5	259	270.5	2.1	17
190	340	92	4	1300.00	1900.00	1170	SL182238	-	243.5	295.5	311.5	4	35.65
190	400	132	5	2220.00	2950.00	1090	SL192338	224	250	326.5	-	5	80.3
200	250	24	1.5	178.00	320.00	1420	SL181840	-	216.5	231.5	237.5	1.5	2.57
200	280	48	2.1	610.00	940.00	1320	SL182940	-	225.5	252	261.5	2.1	9.1
200	310	82	2.1	950.00	1510.00	1230	SL183040	-	236.5	276	288.5	2.1	21.8
200	360	98	4	1410.00	2010.00	1150	SL182240	-	246.5	302	319	4	43.12
200	420	138	5	2470.00	3300.00	1020	SL192340	238	265.5	347	-	5	92.1
220	270	24	1.5	187.00	350.00	1290	SL181844	-	237	252	258.5	1.5	2.8
220	300	48	2.1	650.00	1030.00	1210	SL182944	-	246	273	282	2.1	9.9
220	340	90	3	1150.00	1820.00	1140	SL183044	-	254.5	299	312	3	28.4
220	460	145	5	2650.00	3450.00	910	SL192344	266.5	297	388	-	5	111.2
240	300	28	2	265.00	490.00	1160	SL181848	-	260.5	281	287.5	2	4.29
240	320	48	2.1	600.00	1120.00	1120	SL182948	-	267.5	294	303.5	2.1	10.6
240	360	92	3	1210.00	1990.00	1040	SL183048	-	277.5	322	336	3	30.9
240	500	155	5	2900.00	3800.00	860	SL192348	280.5	312.5	408.5	-	5	142.3
260	320	28	2	275.00	530.00	1080	SL181852	-	281	301.5	308	2	4.61
260	360	60	2.1	780.00	1450.00	1020	SL182952	-	291.5	323	333.5	2.1	18.5
260	400	104	4	1600.00	2500.00	940	SL183052	-	304	358	375.5	4	44.5
260	540	165	5	3550.00	4700.00	760	SL192352	315.5	351.5	459.5	-	6	173.2
280	350	33	2	355.00	670.00	990	SL181856	-	304	327	335	2	6.89
280	380	60	2.1	910.00	1710.00	940	SL182956	-	314	348.5	359.5	2.1	19.7
280	420	106	4	1650.00	2650.00	900	SL183056	-	319.5	372.5	390	4	48
300	380	38	2.1	455.00	840.00	920	SL181860	-	323.5	350.5	360	2.1	9.79
300	420	72	3	1170.00	2200.00	870	SL182960	-	338	376.5	389	3	31.2
300	460	118	4	2020.00	3300.00	800	SL183060	-	353.5	415.5	434.5	4	66.6
320	400	38	2.1	470.00	900.00	870	SL181864	-	344.5	371.5	381	2.1	10.36
320	440	72	3	1210.00	2340.00	820	SL182964	-	358.5	397	409.5	3	32.9
320	480	121	4	2080.00	3450.00	770	SL183064	-	369.5	430	449.5	4	71.7

Single Row Cylindrical Roller Bearings
(Full Complement)

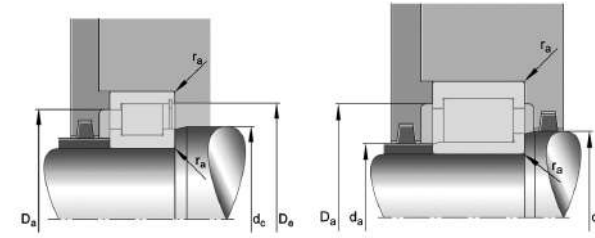


Single Row Cylindrical Roller Bearings
(Full Complement)



SL1818, SL1822, SL1829, SL1830

SL1923



Mounting Dimension for
SL1818, SL1822, SL1829, SL1830

Mounting Dimension for SL1923

Boundary Dimensions				Basic Load Rating		Limiting speed	Bearing Designation	Abutment and Fillet Dimensions					Mass Approx
(mm)				(KN)		(rpm)		(mm)					(kg)
d	D	B	r	C _r	C _{or}			d _a	d _c	D _a	D _o	r _a	
			(min)										
340	420	38	2.1	485000	960000	810	SL181868	-	365.5	392.5	402	2.1	10.93
340	460	72	3	1250000	2470000	770	SL182968	-	379	418.5	430	3	34.7
340	520	133	5	2490.00	4150.00	710	SL183068	-	396	463.5	485.5	5	95.8
360	440	38	2.1	500.00	1010.00	770	SL181872	-	387	413.5	423.5	2.1	11.49
360	480	72	3	1280.00	2600.00	730	SL182972	-	399.5	438.5	450.5	3	36.4
360	540	134	5	2550.00	4350.00	680	SL183072	-	414	481.5	503	5	101
380	480	46	2.1	650.00	1290.00	710	SL181876	-	415.5	448	459	2.1	18.87
380	520	82	4	1660.00	3300.00	680	SL182976	-	426	472	486.5	4	52.1
380	560	135	5	2600.00	4450.00	660	SL183076	-	431.5	499.5	521	5	106
400	500	46	2.1	660.00	1340.00	680	SL181880	-	432	464.5	475.5	2.1	19.81
400	540	82	4	1710.00	3500.00	650	SL182980	-	450	496	510.5	4	54.3
400	600	148	5	3050.00	5400.00	610	SL183080	-	462.5	535	558.5	5	140
420	520	46	2.1	680.00	1420.00	650	SL181884	-	457	489.5	500	2.1	20.6
420	560	82	4	1730.00	3600.00	630	SL182984	-	462	509	522.5	4	56.9
440	540	46	2.1	700.00	1470.00	620	SL181888	-	473.5	506	517	2.1	21.54
440	600	95	4	2090.00	4100.00	590	SL182988	-	490	544.5	562	4	78.1
460	580	56	3	940.00	1890.00	580	SL181892	-	501.5	540	554	3	33.21
460	620	95	4	2130.00	4250.00	570	SL182992	-	504	559.5	576	4	81.1
480	600	56	3	960.00	1970.00	560	SL181896	-	522	560	574.5	3	34.53
480	650	100	5	2390.00	4800.00	530	SL182996	-	538	596.5	614.5	5	94.7
500	620	56	3	980.00	2050.00	540	SL1818/500	-	542	580.5	594.5	3	35.73
500	670	100	5	2430.00	4950.00	520	SL1829/500	-	553	612.5	630	5	98.3