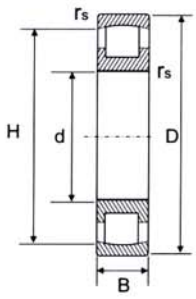
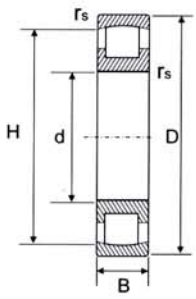
Single-Row Spherical Roller Bearing

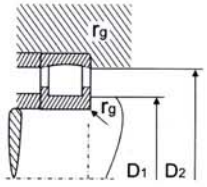
- Description: Single-row spherical roller bearings are Single row, self-aligning spherical roller bearings. They comprise solid outer rings with a concave raceway, solid inner rings with two ribs and a cylindrical or tapered bore as well as spherical rollers with cages. The bearings are not separable.

- Main features:
  - Single row, self-aligning spherical roller bearing (+-1.5 can be aligned during bearing operation)
  - Both cylindrical bore type and tapered bore type are available
  - Cage: The bearings with Nylon cage (with suffix code of T) and Solid brass cage (with suffix code of MB) are available
  - Rollers: With higher precision
  - Lubrication: by oil, without oil groove and oil holes in the outer ring
  - Sealing: not sealed
  - Operating temperature:
    with Nylon cage: -30 centigrade to +120 centigrade
    with Brass cage: -30 centigrade to +150 centigrade
  - Radial internal clearance: C0, C3 are of standard supply. In case bigger or smaller radial internal clearance needed, pls contact us.
  - Inner ring guided
  - Suitable for applications with high radial shock loads
  - With low axial load carrying capacity

- Main applications:
  - Steel mill
  - Mining
  - Oil & gas
  - Paper & Pulp
  - Cement
  - Sugar







Single-Row Spherical Roller Bearing

Dimensions					Net weight	Basic load		Limiting speed	UBC Bearing No.	Installation sizes		
d (mm)	D (mm)	B (mm)	rs min	H (≈) (mm)	≈ (kg)	Dynamic C (kN)	Static Co	min-1		D1 min.	D2 max.	rg max.
40	80	18	1.1	70.000	0.386	49	53	4300	20208T	47	73	1.0
40	80	18	1.1	70.000	0.380	49	53	4300	20208K.T.C3	47	73	1.0
40	90	23	1.5	76.800	0.671	76.5	81.5	4000	20308T	49	81	1.5
45	85	19	1.1	74.600	0.441	52	57	4000	20209T	52	78	1.0
45	85	19	1.1	74.600	0.443	52	57	4000	20209K.T.C3	52	78	1.0
45	100	25	1.5	85.200	0.914	86.5	95	3600	20309T	54	91	1.5
50	90	20	1.1	79.500	0.499	58.5	68	3600	20210T	57	83	1.0
50	90	20	1.1	79.500	0.489	58.5	68	3600	20210K.T.C3	57	83	1.0
50	110	27	2.0	94.400	1.170	108	118	3400	20310T	61	99	2.0
55	100	21	1.5	89.200	0.653	73.5	85	3400	20211T	64	91	1.5
55	100	21	1.5	89.200	0.642	73.5	85	3400	20211K.T.C3	64	91	1.5
55	120	29	2.0	101.80	1.530	120	137	3000	20311T	66	109	2.0
55	120	29	2.0	101.80	1.490	120	137	3000	20311K.T.C3	66	109	2.0
60	110	22	1.5	97.800	0.836	85	100	3200	20212T	69	101	1.5
60	110	22	1.5	97.800	0.822	85	100	3200	20212K.T.C3	69	101	1.5
60	130	31	2.1	111.20	1.920	146	170	2800	20312T	72	118	2.1
60	130	31	2.1	111.20	1.890	146	170	2800	20312K.T.C3	72	118	2.1
65	120	23	1.5	105.10	1.800	95	116	3000	20213T	74	111	1.5
65	120	23	1.5	105.10	1.600	95	116	3000	20213K.T.C3	74	111	1.5
65	140	33	2.1	105.10	2.180	170	196	2800	30313MB	77	128	2.1
65	140	33	2.1	105.10	2.140	170	196	2800	20313K.MB.C3	77	128	2.1
70	125	24	1.5	111.00	1.170	106	134	2800	20214T	79	116	1.5
70	150	35	2.1	128.70	3.150	183	216	2600	20314MB	82	138	2.1
75	130	25	1.5	115.90	1.280	112	143	2800	20215T	84	121	1.5
75	130	25	1.5	115.90	1.250	112	143	2800	20215K.T.C3	84	121	1.5
75	160	37	2.1	138.10	3.760	216	255	2200	20315MB	87	148	2.1
80	140	26	2.0	124.50	1.580	125	163	2600	20216T	91	129	2.0
80	140	26	2.0	124.50	1.560	125	163	2600	20216K.T.C3	91	129	2.0
80	170	39	2.1	147.50	4.580	245	285	2000	20316MB	92	158	2.1
85	150	28	2.0	133.90	2.220	156	200	2400	20217MB	96	139	2.0
85	150	28	2.0	133.90	2.190	156	200	2400	20217K.MB.C3	96	139	2.0
85	180	41	3.0	156.90	5.250	270	320	1900	20317MB	99	166	2.5
90	160	30	2.0	143.80	2.720	173	220	2000	20218MB	101	149	2.0
90	160	30	2.0	143.80	2.680	173	220	2000	20218K.MB.C3	101	149	2.0
90	190	43	3.0	165.10	6.250	300	360	1900	20318MB	104	176	2.5
90	190	43	3.0	165.10	6.170	300	360	1900	20318K.MB.C3	104	176	2.5
95	170	32	2.1	152.70	3.190	208	265	1900	20219MB	107	158	2.1
95	200	45	3.0	174.50	7.290	335	400	1800	20319MB	109	186	2.5
100	180	34	2.1	160.80	3.960	224	290	1900	20220MB	112	168	2.1
100	180	34	2.1	160.80	3.900	224	290	1900	20220K.MB.C3	112	168	2.1
100	215	47	3.0	186.60	8.690	365	440	1700	20320MB	114	201	2.5
100	215	47	3.0	186.60	8.580	365	440	1700	20320K.MB.C3	114	201	2.5

UBC® BEARINGS

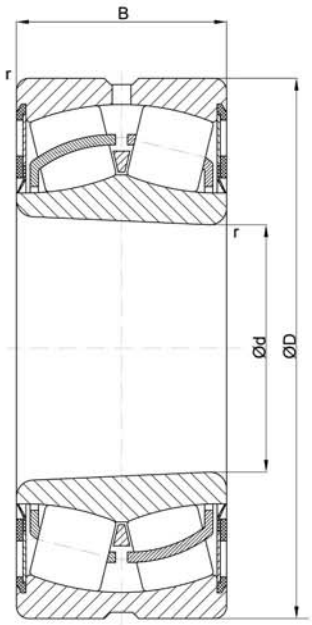
Global Brand, Global Strategy

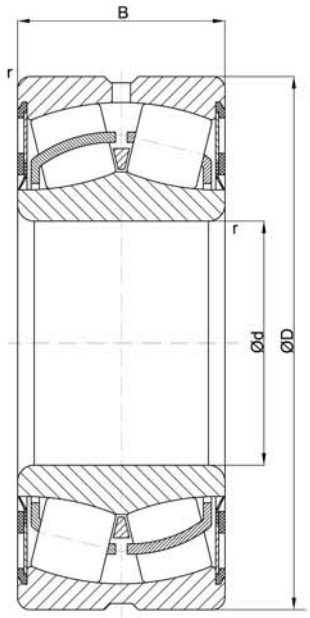
Sealed Spherical Roller Bearing

- Description: Sealed Spherical Roller Bearings are sealed at both sides with rubber seals to retain grease in the bearing, and protect bearings against contamination and moisture. The bearings have two rows of rollers with a common sphered raceway in the outer ring. The two inner ring raceways are inclined at an angle to the bearing axis. The bearings are self-aligning and consequently insensitive to errors of alignment of the shaft relative to the housing and to shaft deflection. In addition to radial loads, the bearings can accommodate axial loads acting in both directions.

- Main features:
  - Double-row, self-aligning spherical roller bearing
  - Both cylindrical bore type and tapered bore type are available
  - Cage: The bearings with steel cage (with suffix code of CC) and solid brass cage (with suffix code of CA) are available
  - Rollers: With higher precision
  - Lubrication: By grease. Usually lubricated with lithium soap base grease that can work in high temperature, and also has excellent extreme pressure anti-wear function. The bearings can be re-lubricated via an annular oil groove and three lubrication holes in the outer ring (with suffix code of W33)
  - Sealing: sealed at both sides with rubber seals
  - Operating temperature: -40 centigrade to +180 centigrade
  - Inner ring guided
  - Radial internal clearance: C0, C3 are of standard supply. In case bigger or smaller radial internal clearance needed, pls contact us.
  - Capable of carrying medium to heavy loads
  - Allow simpler and space saving bearing arrangements
  - Provide long service life and high reliability with minimal maintenance requirements

- Main applications:
  - Industrial robots
  - Screw pumps
  - Conveyor belt stacker equipment
  - Cranes
  - Material handling i.e. elevators
  - Cable car assembly





Sealed Type Spherical Roller Bearing

UBC Part No.	Basic Dimensions			Basic Load ratings		Limiting Speed	Limiting Fatigue Load Pu	Net Weight
	inner diameter (d)	outer diameter (D)	Width (B)	Dynamic (Cr)	Static (Cor)			
	mm	mm	mm	KN	KN	r/min	KN	kg
BS2-2205-2CS/VT143	25	52	23	45	40	3600	4,75	0,26
BS2-2207-2CS/VT143	35	72	28	81,5	79	2400	9,30	0,52
BS2-2209-2CS/VT143	45	85	28	97	90	2000	10,80	0,66
BS2-2211-2CS/VT143	55	100	31	113	115	1700	13,70	1,00
BS2-2212-2CS/VT143	60	110	34	141	150	1600	18,60	1,30
BS2-2213-2CS/VT143	65	120	38	174	195	1500	24,00	1,60
BS2-2214-2CS/VT143	70	125	38	188	205	1400	25,50	1,80
BS2-2216-2CS/VT143	80	140	40	213	243	1200	29,00	2,40