

Ball bearing for high temperature

BHT 320°

The BHT 320° ball bearings are designed on the dimensions of a standard bearing but with treatments of stabilisation, surface treatment, radial clearance and molybdenum grease that make them suitable for operation from -30° to +320°. Their recommended range of application is between 280° and 320°. The BHT 320° bearings are open bearings and require frequent additional lubrication with oil for high temperatures. Until the end of the 1980's, greases suitable at operating at a temperature in the absence of periodic lubrication were not available, so this product was the only solution to working in high temperatures. Such greases are now available, capable of operating up to 280° and lubrication with graphite cages for temperature up to 350°. Therefore this type of bearings now has a limited range of application in existing industrial plants. The lubrication with molybdenum disulphide grease makes the bearing vulnerable to oxidation resulting from the weather, so the shelf life is completely depending on the quality of maintenance performed. The BHT 320° bearing has been produced for over 30 years and many customers have found that with the right balance in maintenance intervals achieve excellent results with a product that is objectively economic. Please note that the BHT 320° bearing does not allow further greasing even with the same molybdenum disulphide grease. Our 30 years of experience has allowed us to identify almost exclusively as a cause of damage to the bearing, the added grease is incompatible even if of the same quality inside the bearing. The amount of grease used in the original design is calculated and this is what is needed to create the film of molybdenum on the raceway of the ball, and although visually seems to be a small quantity, is technically the optimal amount for operation.

Technical characteristics:

Material Steel AISI 52100 (Chrome) stabilized to the application
Treatment of manganese phosphate coating on all steel parts
Radial 4 times C5
Bearing running open
Greasing with molybdenum disulphide grease

Fields of application:

Paint Ovens
Steel Industry
Furnaces for Ceramic Industry
Trolley Industry Brick Kilns

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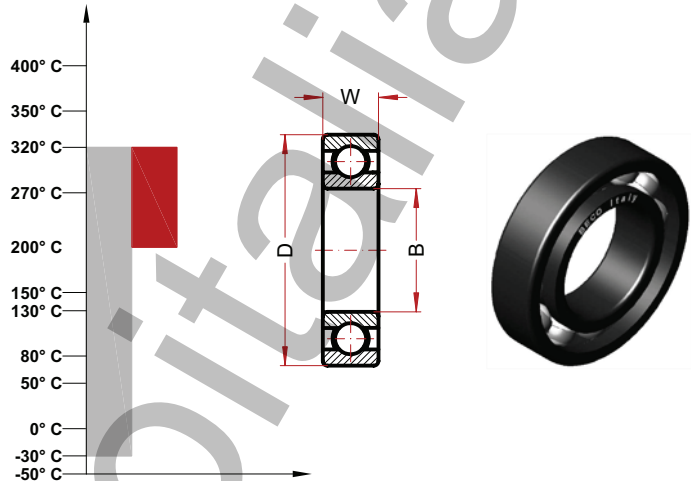
BHT 320° (MICRO Serie)

MAX TEMP CELSIUS 320° C

MAX TEMP FAHRENHEIT 608° F

SUGGESTED RANGE 200-320° C

SUGGESTED RANGE 392-608° F



Designation	Bore (B)	Diam (D)	Widht (W)	Weight g	Speed RPM/min (*)	Static Load kN
613/3 BHT 320°	3	8	3	1.5	280	
623 BHT 320°	3	10	4	3	280	0.16
604 BHT 320°	4	12	4	3	280	0.29
624 BHT 320°	4	13	5	3	280	0.29
605 BHT 320°	5	14	5	4	280	0.35
625 BHT 320°	5	16	5	5	280	0.35
606 BHT 320°	6	17	6	7	280	0.72
626 BHT 320°	6	19	6	8	280	0.72
607 BHT 320°	7	19	6	8	280	0.72
627 BHT 320°	7	22	7	13	280	0.93
608 BHT 320°	8	22	7	13	280	0.93
628 BHT 320°	8	24	8	14	280	0.93
609 BHT 320°	9	24	7	15	280	1.11
629 BHT 320°	9	26	8	20	280	1.33

Static load and max speed are calculated for the maximum temperature of application we supply this technical information only for help customer in the choice. Due the extremely difference in the condition of application. We suggest to the customer to contact our engineering service and made practical test for check in the real condition the practical working.

Ball bearing for high temperature

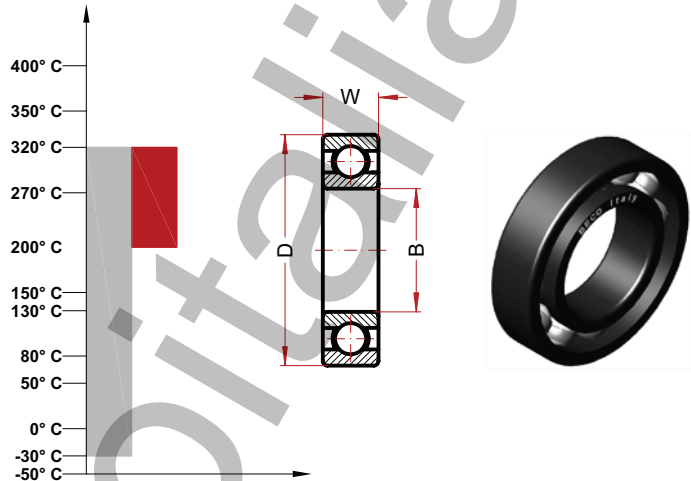
BHT 320° (61800 Serie)

MAX TEMP CELSIUS 320° C

MAX TEMP FAHRENHEIT 608° F

SUGGESTED RANGE 200-320° C

SUGGESTED RANGE 392-608° F



Designation	Bore (B)	Diam (D)	Widht (W)	Weight g	Speed RPM/min (*)	Static Load kN
61800 BHT 320°	10	19	5	6	282	0.56
61801 BHT 320°	12	21	5	7	262	0.65
61802 BHT 320°	15	24	5	7	242	0.85
61803 BHT 320°	17	26	5	8	222	0.99
61804 BHT 320°	20	32	7	18	200	1.59
61805 BHT 320°	25	37	7	24	170	1.90
61806 BHT 320°	30	42	7	27	130	2.28
61807 BHT 320°	35	47	7	32	110	2.45
61808 BHT 320°	40	52	7	35	100	2.90
61809 BHT 320°	45	58	7	42	90	3.81
61810 BHT 320°	50	65	7	52	85	4.28
61811 BHT 320°	55	72	9	81	75	5.78
61812 BHT 320°	60	78	10	105	70	7.48
61813 BHT 320°	65	85	10	124	63	8.16
61814 BHT 320°	70	90	10	133	60	8.50
61815 BHT 320°	75	95	10	143	56	9.11

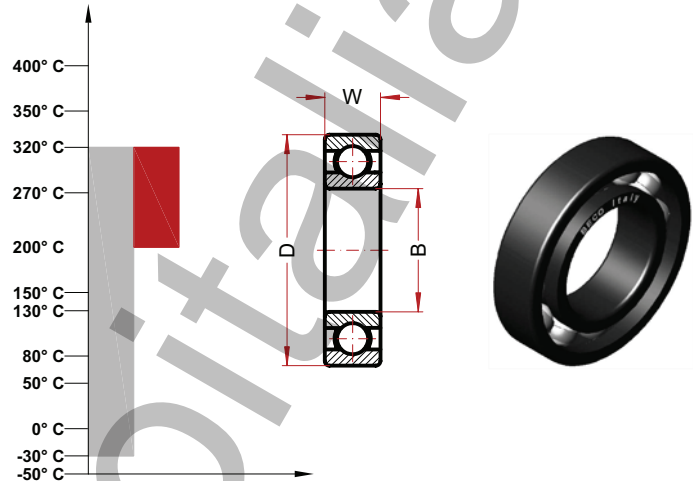
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Ball bearing for high temperature

BHT 320° (6000 Serie)

MAX TEMP CELSIUS 320° C
MAX TEMP FAHRENHEIT 608° F

SUGGESTED RANGE 200-320° C
SUGGESTED RANGE 392-608° F



Designation	Bore (B)	Diam (D)	Widht (W)	Weight g	Speed RPM/min (*)	Static Load kN
6000 BHT 320°	10	26	8	20	282	1.34
6001 BHT 320°	12	28	8	25	262	1.61
6002 BHT 320°	15	32	9	30	242	1.94
6003 BHT 320°	17	35	10	40	222	2.21
6004 BHT 320°	20	42	12	69	200	3.40
6005 BHT 320°	25	47	12	80	170	3.98
6006 BHT 320°	30	55	13	120	130	5.44
6007 BHT 320°	35	62	14	160	110	7.07
6008 BHT 320°	40	68	15	190	100	8
6009 BHT 320°	45	75	16	250	90	9.73
6010 BHT 320°	50	80	16	260	85	10.61
6011 BHT 320°	55	90	18	390	75	14.42
6012 BHT 320°	60	95	18	420	70	15.80
6013 BHT 320°	65	100	18	440	63	17
6014 BHT 320°	70	110	20	600	60	21.42
6015 BHT 320°	75	115	20	640	50	23.12
6016 BHT 320°	80	125	22	850	50	26
6017 BHT 320°	85	130	22	890	50	27.9
6018 BHT 320°	90	140	24	1150	50	32.5
6019 BHT 320°	95	145	24	1200	50	35.1
6020 BHT 320°	100	150	24	1250	50	35.1

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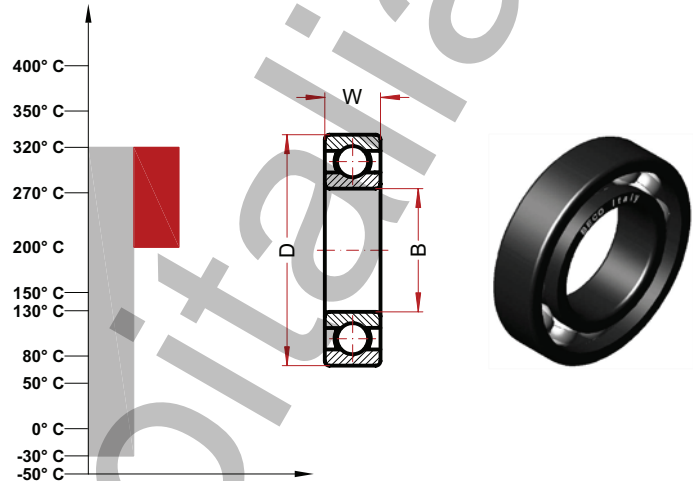
BHT 320° (6200 Serie)

MAX TEMP CELSIUS 320° C

MAX TEMP FAHRENHEIT 608° F

SUGGESTED RANGE 200-320° C

SUGGESTED RANGE 392-608° F



Designation	Bore (B)	Diam (D)	Widht (W)	Weight g	Speed RPM/min (*)	Static Load kN
6200 BHT 320°	10	30	9	30	262	1.77
6201 BHT 320°	12	32	10	37	242	2.11
6202 BHT 320°	15	35	11	45	180	2.55
6203 BHT 320°	17	40	12	65	175	3.23
6204 BHT 320°	20	47	14	110	150	4.46
6205 BHT 320°	25	52	15	130	140	5.44
6206 BHT 320°	30	62	16	200	110	7.62
6207 BHT 320°	35	72	17	290	100	10
6208 BHT 320°	40	80	18	370	85	12.24
6209 BHT 320°	45	85	19	410	80	13.87
6210 BHT 320°	50	90	20	460	75	16.3
6211 BHT 320°	55	100	21	610	67	19.88
6212 BHT 320°	62	110	22	780	60	24.48
6213 BHT 320°	65	120	23	990	53.2	28.22
6214 BHT 320°	70	125	24	1040	50	29.92
6215 BHT 320°	75	130	25	1210	50	33.32
6216 BHT 320°	80	140	26	1400	50	35.7
6217 BHT 320°	85	150	28	1800	50	41.6
6218 BHT 320°	90	160	30	2150	50	47.7
6219 BHT 320°	95	170	32	2500	50	52.9
6220 BHT 320°	100	180	34	3150	50	60.4

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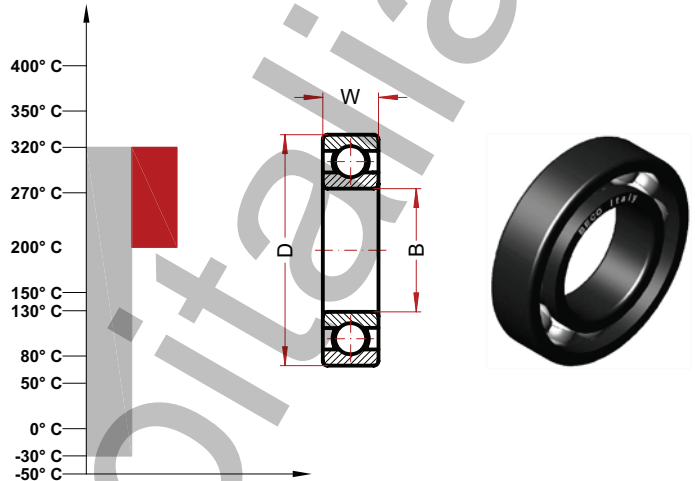
BHT 320° (6300 Serie)

MAX TEMP CELSIUS 320° C

MAX TEMP FAHRENHEIT 608° F

SUGGESTED RANGE 200-320° C

SUGGESTED RANGE 392-608° F



Designation	Bore (B)	Diam (D)	Widht (W)	Weight g	Speed RPM/min (*)	Static Load kN
6300 BHT 320°	10	35	11	52	220	2.34
6301 BHT 320°	12	37	12	60	200	2.82
6302 BHT 320°	15	42	13	80	180	3.67
6303 BHT 320°	17	47	14	120	160	4.46
6304 BHT 320°	20	52	15	140	140	5.78
6305 BHT 320°	25	62	17	225	110	7.75
6306 BHT 320°	30	72	19	350	95	11
6307 BHT 320°	35	80	21	450	85	12.92
6308 BHT 320°	40	90	23	620	75	17
6309 BHT 320°	45	100	25	830	67	21.76
6310 BHT 320°	50	110	27	1050	60	25
6311 BHT 320°	55	120	29	1350	53	32.30
6312 BHT 320°	60	130	31	1700	50	35.36
6313 BHT 320°	65	140	33	2100	50	40.8
6314 BHT 320°	70	150	35	2500	50	46
6315 BHT 320°	75	160	37	3000	50	52
6316 BHT 320°	80	170	39	3600	50	56.2
6317 BHT 320°	85	180	41	4250	50	62.7
6318 BHT 320°	90	190	43	4900	50	70.2
6319 BHT 320°	95	200	45	5650	50	76.7
6320 BHT 320°	100	215	47	7000	50	91

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