

HY 6202 2Z T9H P4 C3 DUA 10.15 S1 Grease

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

① Material

- Bearings made of chrome steel have no prefix
M Bearings made of high temperature steel (on request)
HY Balls and rings from different materials (hybrid bearings)

② Bearing size

6202 Designation of dimension series and bore

③ Features
Sealing

X Oversize bearing
Z Shield with snap ring on one side of the bearing
2Z Shields with snap rings on both sides of the bearing, with bearing pairs (matched bearings) shields are on the outside faces

④ Cage

J Cage, steel sheet
T9H Snap cage, glass-fibre-reinforced polyamide, ball riding
TBH Snap cage, laminated phenolic resin, inner-land-riding
TA Solid cage, laminated phenolic resin, outer-land-riding
TB Solid cage, laminated phenolic resin, inner-land-riding
MA Solid cage, brass, outer-land-riding

⑤ Precision

P4 Tolerance class P4 according to DIN 620
P2 Tolerance class P2 according to DIN 620
A7 Tolerance class ABEC 7 according to ABMA
A9 Tolerance class ABEC 9 according to ABMA
HG GMN high precision according to GMN specification
UP GMN ultra precision according to GMN specification

⑥ Bearing
clearance

C2 Radial clearance smaller than normal
- Normal clearance (not shown in code)
C3 Radial clearance greater than normal
C4 Radial clearance greater than C3
 Reduced ranges of radial clearance are noted in clear (values without measuring load)

⑦ Matched
bearings

DF Face-to-face arrangement
DB Back-to-back arrangement
DT Tandem arrangement
DUA Universally matched with axial clearance
DUO Universally matched without axial clearance
DUV Universally matched with preload

⑧ Heat
treatment

S1 Operating temperature up to +200 °C
S2 Operating temperature up to +250 °C
S3 Operating temperature up to +300 °C

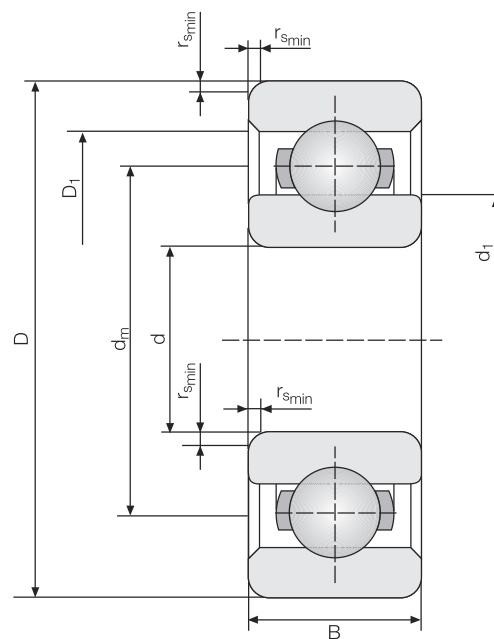
⑨ Lubrication

Designation of grease, e.g. **Asonic GLY 32**

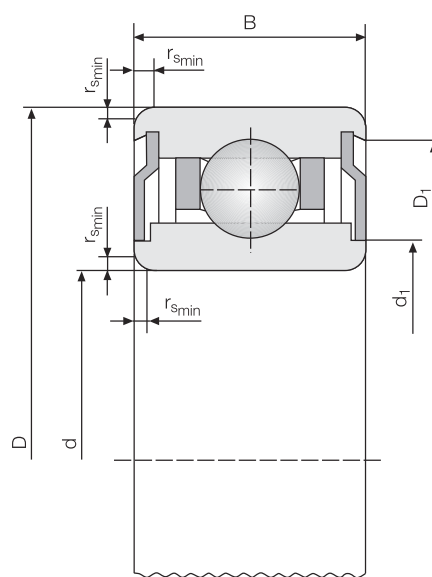
Deep groove bearings

The following notations are used in the bearing tables:

d	[mm]	Bore diameter
D	[mm]	Outer diameter
B	[mm]	Width, single bearing
r_{smin}	[mm]	Chamfer
D_W	[mm]	Ball diameter
Z	[Stück]	Ball complement
m	[kg]	Weight
d_m	[mm]	Pitch circle diameter
d_1	[mm]	Outer diameter of inner ring
D_1	[mm]	Inner diameter of outer ring
n	[1/min]	Speed value
C	[N]	Dynamic load rating
C_0	[N]	Static load rating



Series 60...; 62...



Series...X - 2Z

Boundary dimensions			Ball		Chamfer	Dimensions		Designation
d	D	B	D _w	Z	r _{smin}	d ₁	D ₁	
5	16	5	3.175	6	0.3	7.65	12.50	625
6	19	6	3.175	8	0.3	10.70	15.80	626
7	19	6	3.175	8	0.3	10.70	15.80	607
7	22	7	3.969	7	0.3	11.80	17.60	627
8	22	7	3.969	7	0.3	11.80	17.60	608
8	22	10.312	3.969	7	0.3	10.50	19.00	608 X - 2Z
9	24	7	3.969	8	0.3	13.45	19.90	609
9	26	8	4.762	7	0.3	14.65	21.40	629
10	26	8	4.762	7	0.3	14.65	21.40	6000
10	30	9	5.556	7	0.6	16.00	24.45	6200
10	26	11.506	4.762	7	0.3	13.00	23.10	6000 X - 2Z
12	28	8	4.762	8	0.3	16.65	23.40	6001
12	32	10	5.953	7	0.6	18.30	26.00	6201
12	28	11.506	4.762	8	0.3	15.00	25.10	6001 X - 2Z
15	32	9	4.762	9	0.3	20.15	26.90	6002
15	35	11	5.953	8	0.6	21.10	29.00	6202
15	32	11.506	4.762	9	0.3	18.50	28.45	6002 X - 2Z
17	35	10	4.762	10	0.3	22.65	29.40	6003
17	40	12	6.747	8	0.6	24.10	32.95	6203
17	35	12.700	4.762	10	0.3	21.00	30.95	6003 X - 2Z
20	42	12	6.350	9	0.6	26.60	35.45	6004
20	47	14	7.938	8	1.0	28.50	38.55	6204
20	42	15.875	6.350	9	0.6	24.30	37.00	6004 X - 2Z
25	47	12	6.350	10	0.6	32.20	40.05	6005
25	52	15	7.938	9	1.0	34.04	44.05	6205
30	55	13	7.144	11	1.0	38.10	46.95	6006
30	62	16	9.525	9	1.0	40.40	52.05	6206
35	72	17	11.112	9	1.1	47.40	60.55	6207
40	80	18	11.906	9	1.1	52.80	67.60	6208

Load rating		Speed value	Pitch diameter	Weight	Designation
C	C ₀	n	d _m	m	
1800	665	46000	10.5	0.005	625
2300	935	43000	12.5	0.008	626
2300	935	43000	13.0	0.008	607
3000	1290	40500	14.5	0.012	627
3000	1290	40500	15.0	0.012	608
3000	1290	65000	15.0	0.014	608 X - 2Z
3350	1400	37000	16.5	0.023	609
4500	1850	35000	17.5	0.020	629
4500	1850	34500	18.0	0.019	6000
6100	2600	31000	20.0	0.032	6200
4500	1850	55000	18.0	0.024	6000 X - 2Z
4900	2150	31000	20.0	0.022	6001
6900	3000	28000	22.0	0.037	6201
4900	2150	50000	20.0	0.027	6001 X - 2Z
5400	2500	26500	23.5	0.030	6002
7700	3500	25000	25.0	0.045	6202
5400	2500	42000	23.5	0.034	6002 X - 2Z
5800	2800	24000	26.0	0.039	6003
9600	4500	22000	28.5	0.065	6203
5800	2800	38000	26.0	0.046	6003 X - 2Z
9900	4900	20000	31.0	0.069	6004
14100	7000	18000	33.5	0.106	6204
9900	4900	32000	31.0	0.070	6004 X - 2Z
10700	5600	17000	36.0	0.080	6005
15400	8000	16000	38.5	0.128	6205
13500	7400	14500	42.5	0.128	6006
20400	10900	13500	46.0	0.199	6206
28000	15500	11500	53.5	0.315	6207
29700	16600	10000	60.0	0.402	6208

Speed values for grease lubrication.
With Z- or 2Z- execution standard grease used is
KLÜBER Asonic GLY 32; greasefill 30% of void space
(other types of grease or greasefill on request).