



Bearing No. 7017 ACD/HCP4AH1

K	0.5 mm
a	36.2 mm
d	85 mm
D	130 mm
B	22 mm
Ball - z	21
Size (mm)	130x85x22
Width (mm)	22
Mass bearing	0.74 kg
$d_n$	101.9 mm
$D_1$	116.1 mm
$d_1$	98.9 mm
$C_1$	5.9 mm
$D_1$	116.1 mm
$d_2$	98.9 mm
$C_1$	5.9 mm
$d_1$	98.9 mm
$d_n$	101.9 mm
$d_2$	98.9 mm
Bearing number	7017 ACD/HCP4AH1
Preload class B	338 N/micron
Preload class A	258 N/micron
Preload class D	609 N/micron
$G_{ref}$	11.7 cm <sup>3</sup>
Preload class C	450 N/micron
Number of balls z	21
Bore Diameter (mm)	130
$r_b$ max.	0.6 mm
$r_a$ max.	1 mm

$D_b$ max.	126 mm
$D_a$ max.	124 mm
$d_a$ min.	91 mm
$d_b$ min.	91 mm
Outer Diameter (mm)	85
$r_a$ - max.	1 mm
$D_a$ - max.	124 mm
$d_b$ - min.	91 mm
$d_a$ - min.	91 mm
$r_{1,2}$ min.	1.1 mm
$r_{3,4}$ min.	0.6 mm
Ball - $D_w$	14.288 mm
$r_b$ - max.	0.6 mm
$D_b$ - max.	126 mm
Calculation factor f	1.15
Calculation factor e	0.68
Calculation factor - f	1.15
$r_{1,2}$ - min.	1.1 mm
$r_{3,4}$ - min.	0.6 mm
Calculation factor - e	0.68
Ball diameter $D_w$	14.288 mm
Basic dynamic load rating C	63.7 kN
Preload class A $G_A$	400 N
Preload class B $G_B$	800 N
Preload class C $G_C$	1600 N
Basic dynamic load rating - C	63.7 kN
Preload class D $G_D$	3200 N
Preload class B - $G_B$	800 N
Preload class A - $G_A$	400 N
Preload class D - $G_D$	3200 N

Preload class C - $G_C$	1600 N
Fatigue load limit $P_u$	2.5 kN
Calculation factor $f_1$	0.99
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.02
Calculation factor $f_{2C}$	1.05
Calculation factor $f_{2D}$	1.08
Calculation factor $f_{HC}$	1.02
Calculation factor - $Y_1$	0.92
Calculation factor - $Y_2$	1.41
Calculation factor - $Y_0$	0.76
Calculation factor - $X_2$	0.67
Calculation factor - $f_1$	0.99
Limiting speed for oil lubrication	17000 mm/min
Fatigue load limit - $P_u$	2.5 kN
Calculation factor - $f_{2D}$	1.08
Calculation factor - $f_{HC}$	1.02
Calculation factor - $f_{2C}$	1.05
Calculation factor - $f_{2B}$	1.02
Calculation factor - $f_{2A}$	1
Limiting speed for grease lubrication	11000 r/min
Basic static load rating $C_0$	62 kN
Static axial stiffness, preload class A	258 N/ $\mu$ m
Static axial stiffness, preload class D	609 N/ $\mu$ m
Static axial stiffness, preload class C	450 N/ $\mu$ m
Static axial stiffness,	338 N/ $\mu$ m

preload class B	
Attainable speed for grease lubrication	11000 r/min
Basic static load rating - $C_0$	62 kN
Attainable speed for oil-air lubrication	17000 r/min
Reference grease quantity $G_{ref}$	11.7 cm <sup>3</sup>
Calculation factor (single, tandem) $Y_2$	0.87
Calculation factor (single, tandem) $Y_0$	0.38
Calculation factor (single, tandem) $X_2$	0.41
Calculation factor (back-to-back, face-to-face) $Y_1$	0.92
Calculation factor (back-to-back, face-to-face) $Y_2$	1.41
Calculation factor (back-to-back, face-to-face) $Y_0$	0.76
Calculation factor (back-to-back, face-to-face) $X_2$	0.67