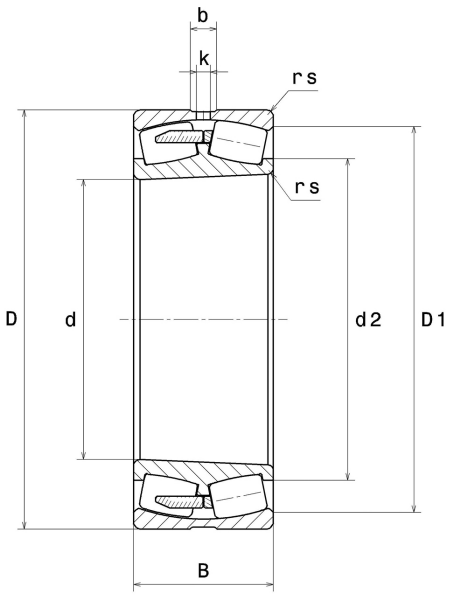
PDF technical sheet
23280BKC3

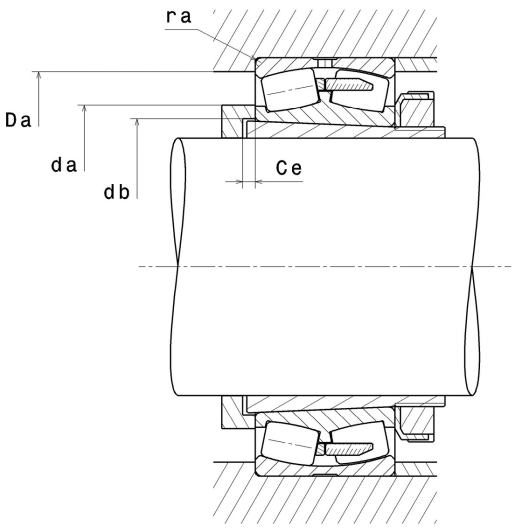
Double row spherical roller bearings

Spherical roller bearing, with central rib on inner ring, 2-part machined cage centred on inner ring, groove and lubrication holes on outer ring, tapered bore 1:12

Product definition	
d	15.7480 "
D	28.3465 "
B	10.0787 "
d2	19.7244 "
D1	24.0591 "
rs min	0.2362 "
Number of lubrication holes	8
b	1.2992 "
k	0.7874 "
Associated sleeve reference	H3280
e	0.37
Y1	1.81
Y2	2.69
Y0	1.77
Radial clearance class	C3
Brand	NTN



Product performance	
Dynamic load, C	5,850 kN
Static load, C0	10,600 kN
Fatigue limit load, Cu	636 kN
Nref	370 RPM
Nlim	750 RPM
Min operating temperature, Tmin	−40 °C
Max operating temperature, Tmax	248 °C
Characteristic cage frequency, FTF	0.43 Hz
Characteristic rolling element frequency, BSF	6.90 Hz
Characteristic outer ring frequency, BPF0	8.19 Hz
Characteristic inner ring frequency, BPFI	10.81 Hz



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Abutment dimensions	
da min	16.7717 "
db min	16.8110 "
Ce min	0.5906 "
Da max	27.3228 "
ra max	0.1969 "

Calculation factors

Equivalent dynamic radial load

$P = X.Fr + Y.Fa$

Fa / Fr ≤ e		Fa / Fr > e	
X	Y	X	Y
1	Y1	0.67	Y2

Equivalent static radial load

$P_0 = X_0.Fr + Y_0.Fa$

X_0	Y_0
1	Y0

The values for e, Y1, Y2 and Y0 are shown in the above table .