

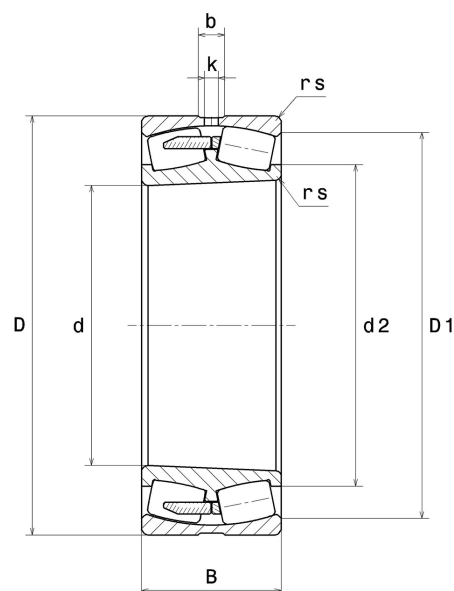
PDF technical sheet 23176BKC3



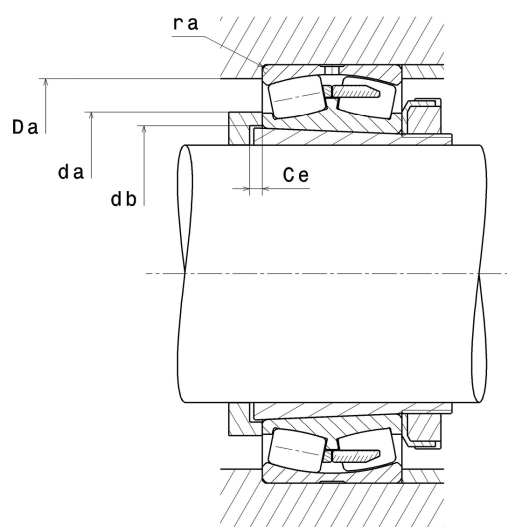
Double row spherical roller bearings

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	14.9606 "
D	24.4094 "
B	7.6378 "
d2	17.9528 "
D1	21.2520 "
rs min	0.1969 "
Number of lubrication holes	8
b	1.0630 "
k	0.6299 "
Associated sleeve reference	H3176
e	0.31
Y1	2.16
Y2	3.22
Y0	2.12
Radial clearance class	C3
Brand	NTN



Product performance	
Dynamic load, C	3,900 kN
Static load, C0	7,500 kN
Fatigue limit load, Cu	515 kN
Nref	530 RPM
Nlim	850 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	248 °C
Characteristic cage frequency, FTF	0.44 Hz
Characteristic rolling element frequency, BSF	8.40 Hz
Characteristic outer ring frequency, BPF0	10.18 Hz
Characteristic inner ring frequency, BPF1	12.82 Hz



Abutment dimensions

da min	15.7480 "
db min	15.7874 "
Ce min	0.5906 "
Da max	23.6220 "
ra max	0.1575 "

Calculation factors

Equivalent dynamic radial load

$$P = X.F_r + Y.F_a$$

$F_a / F_r \leq e$		$F_a / F_r > e$	
X	Y	X	Y
1	Y1	0.67	Y2

Equivalent static radial load

$$P_0 = X_0.F_r + Y_0.F_a$$

X_0	Y_0
1	Y0

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