

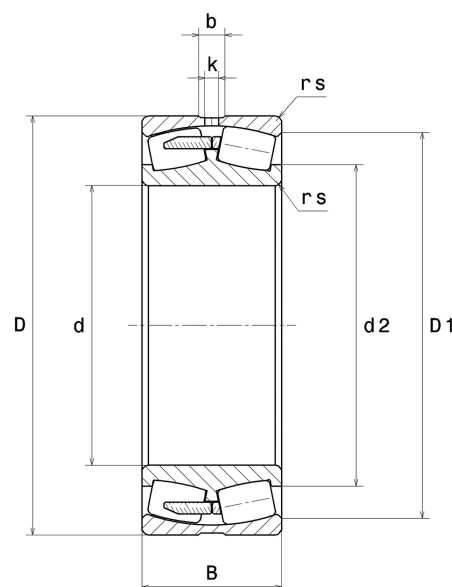
PDF technical sheet 230/750B



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

Product definition	
d	29.5276 "
D	42.9134 "
B	9.8425 "
d2	33.9764 "
D1	39.0118 "
rs min	0.2953 "
b	1.2992 "
k	0.7874 "
e	0.21
Y1	3.2
Y2	4.76
Y0	3.13
Radial clearance class	CN
Brand	NTN



Product performance	
Dynamic load, C	8,150 kN
Static load, C0	18,300 kN
Fatigue limit load, Cu	1,271 kN
Nref	310 RPM
Nlim	460 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	248 °C
Characteristic cage frequency, FTF	0.46 Hz
Characteristic rolling element frequency, BSF	10.80 Hz
Characteristic outer ring frequency, BPF0	13.64 Hz
Characteristic inner ring frequency, BPF1	16.36 Hz



Abutment dimensions

da min	30.6299 "
Da max	41.8110 "
ra max	0.2362 "

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 .