



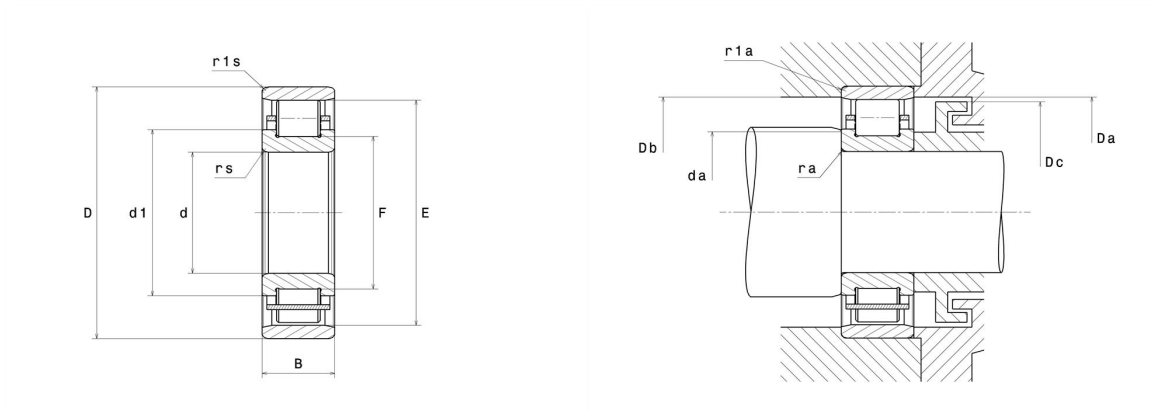
Technical datasheet

N314

Single row cylindrical roller bearings

Single row cylindrical roller bearing, floating, separable, pressed steel cage

Visual(s)



Product definition

d	70 mm
D	150 mm
B	35 mm
E	130 mm
F	90 mm
d1	98 mm
rs min	2.1 mm
r1s min	2.1 mm
Radial clearance class	CN
Mass (without HJ ring)	2.67 kg
Brand	NTN

Product performance

Dynamic load, C	158 kN
Static load, C0	168 kN
Fatigue limit load, Cu	19.9 kN
Nlim (oil)	5,500 rpm
Nlim (grease)	4,700 rpm
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.41 Hz
Characteristic rolling element frequency, BSF	5.32 Hz
Characteristic outer ring frequency, BPF0	5.32 Hz
Characteristic inner ring frequency, BPFI	7.68 Hz

Abutment dimensions

da min	81 mm
Da max	139 mm
Db min	133 mm
Dc max	128 mm
ra max	2 mm
r1a max	2 mm

Calculation factors

Equivalent dynamic radial load

$$P = Fr$$

Equivalent static radial load

$$Po = Fr$$