



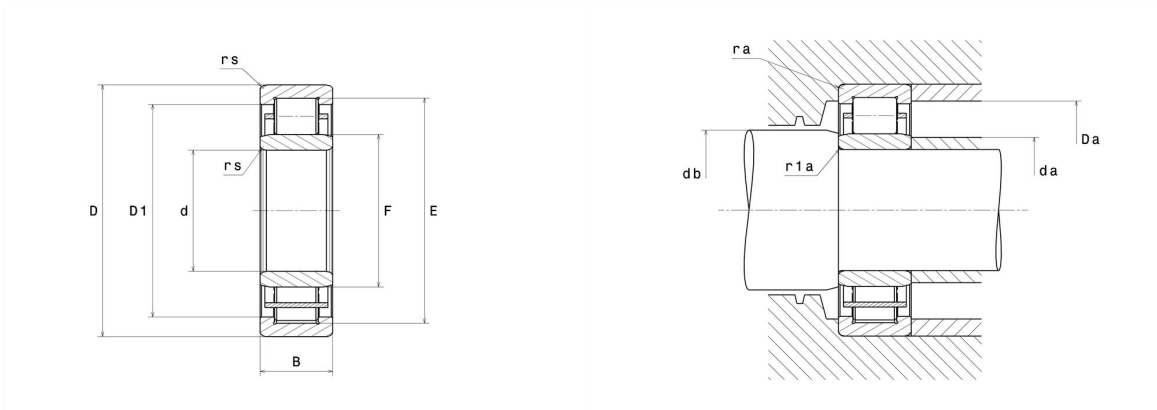
Technical datasheet

NU414

Single row cylindrical roller bearings

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

Visual(s)



Product definition

d	70 mm
D	180 mm
B	42 mm
E	152 mm
F	100 mm
rs min	3 mm
r1s min	3 mm
Radial clearance class	CN
Mass (without HJ ring)	5.23 kg
Brand	NTN

Product performance

Dynamic load, C	228 kN
Static load, C0	236 kN
Fatigue limit load, Cu	26.9 kN
Nlim (oil)	4,000 rpm
Nlim (grease)	3,400 rpm
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.4 Hz
Characteristic rolling element frequency, BSF	4.64 Hz
Characteristic outer ring frequency, BPF0	4.36 Hz
Characteristic inner ring frequency, BPF1	6.64 Hz

Abutment dimensions

da min	83 mm
da max	99 mm
db min	102 mm
Da max	167 mm
ra max	2.5 mm
r1a max	2.5 mm

Calculation factors

Equivalent dynamic radial load

$$P = F_r$$

Equivalent static radial load

$$P_0 = F_r$$