

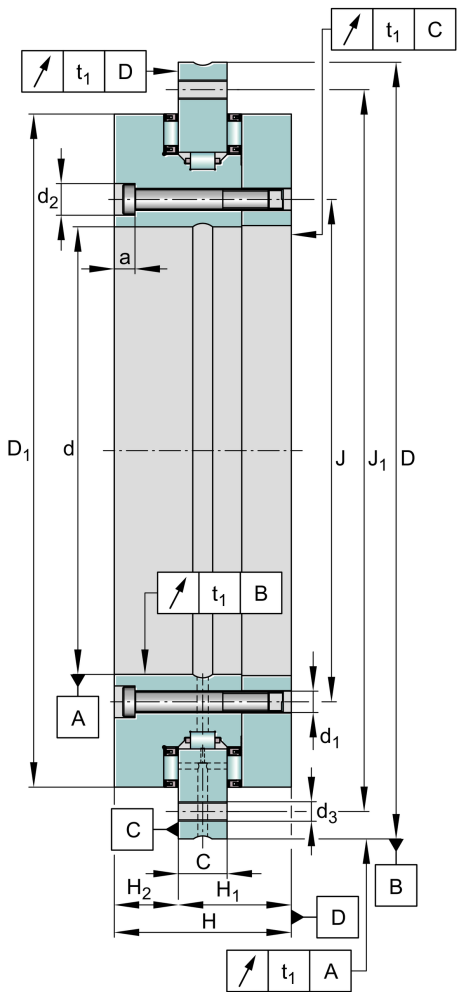
YRTC150-XL

Axial/radial roller bearing

Schaeffler ID:
0889031330000

Axial/radial bearings, double direction, for screw mounting

Technical information



Main Dimensions & Performance Data

d	150 mm	Bore diameter
	0 mm	Bore diameter upper tolerance
	-0.013 mm	Bore diameter lower tolerance
D	240 mm	Outside diameter
	0 mm	Outside diameter upper tolerance
	-0.015 mm	Outside diameter lower tolerance
H	40 mm	Height
C _r	74,000 N	Basic dynamic load rating, radial
C _{0r}	146,000 N	Basic static load rating, radial
C _a	128,000 N	Basic dynamic load rating, axial
C _{0a}	650,000 N	Basic static load rating, axial
C _{ur}	22,100 N	Fatigue load limit, radial
C _{ua}	65,000 N	Fatigue load limit, axial
n _G	800 1/min	Limiting speed
M _R	4 Nm	Bearing friction torque
	5.5 kg	Weight

Dimensions

H ₁	26 mm	Height contact face outer ring
H ₂	14 mm	Height contact face outer ring
C	12 mm	Width of outer ring
D _{1 max}	214.5 mm	Maximum bord diameter inner ring

Mounting dimensions

J	165 mm	Pitch circle diameter fixing holes in inner ring
J ₁	225 mm	Pitch circle diameter fixing holes in outer ring
d ₁	7 mm	Fixing holes diameter inner ring
d ₂	11 mm	Counterbore diameter of fixing holes
a	6.2 mm	Counterbore depth of fixing holes
	34	Quantity of fixing holes inner ring
d ₃	7 mm	Fixing holes diameter outer ring
	33	Quantity of fixing holes outer ring
n	36	Pitch quantity
t	10 °	Pitch separation angle
G	M8	Threaded extraction hole
	3	Quantity of threaded extraction hole
M _A	14 Nm	Screw tightening torque
	2	Quantity of retaining screws

Additional information

c _{aL}	3,800 N/μm	Axial rigidity of bearing position
c _{rL}	3,200 N/μm	Radial rigidity of bearing position
c _{kL}	18,600 Nm/mrad	Tilting rigidity of bearing position
c _{aL}	12,000 N/μm	Axial rigidity of rolling element set
c _{rL}	4,800 N/μm	Radial rigidity of rolling element set
c _{kL}	61,000 Nm/mrad	Tilting rigidity of rolling element set