

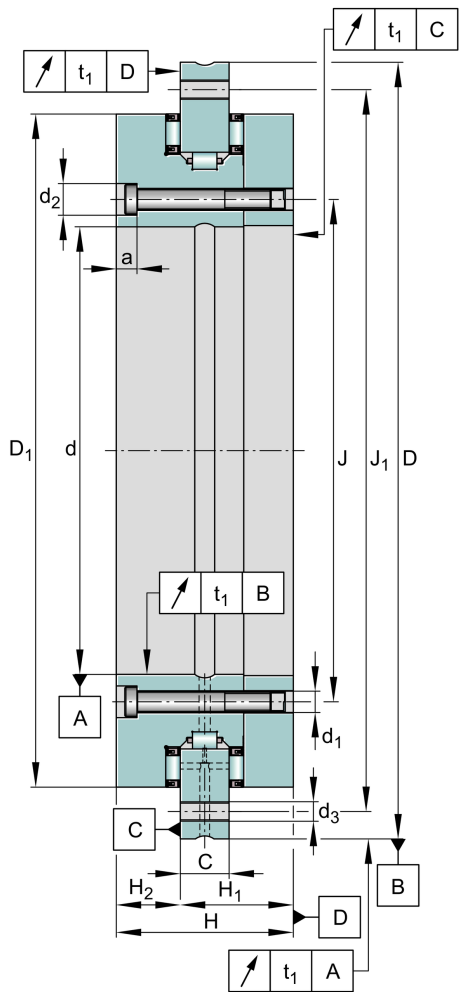
YRTC460-XL

Axial/radial roller bearing

Schaeffler ID:
0889029780000

Axial/radial bearings, double direction, for screw mounting

Technical information



Main Dimensions & Performance Data

d	460 mm	Bore diameter
	0 mm	Bore diameter upper tolerance
	-0.023 mm	Bore diameter lower tolerance
D	600 mm	Outside diameter
	0 mm	Outside diameter upper tolerance
	-0.028 mm	Outside diameter lower tolerance
H	70 mm	Height
C _r	265,000 N	Basic dynamic load rating, radial
C _{0r}	880,000 N	Basic static load rating, radial
C _a	290,000 N	Basic dynamic load rating, axial
C _{0a}	2,550,000 N	Basic static load rating, axial
C _{ur}	96,000 N	Fatigue load limit, radial
C _{ua}	201,000 N	Fatigue load limit, axial
n _G	150 1/min	Limiting speed
M _R	25 Nm	Bearing friction torque
	45.2 kg	Weight

Dimensions

H ₁	46 mm	Height contact face outer ring
H ₂	24 mm	Height contact face outer ring
C	22 mm	Width of outer ring
D _{1 max}	560.9 mm	Maximum bord diameter inner ring

Mounting dimensions

J	482 mm	Pitch circle diameter fixing holes in inner ring
J ₁	580 mm	Pitch circle diameter fixing holes in outer ring
d ₁	9.3 mm	Fixing holes diameter inner ring
d ₂	15 mm	Counterbore diameter of fixing holes
a	8.2 mm	Counterbore depth of fixing holes
	46	Quantity of fixing holes inner ring
d ₃	9.3 mm	Fixing holes diameter outer ring
	45	Quantity of fixing holes outer ring
n	48	Pitch quantity
t	7.5 °	Pitch separation angle
G	M12	Threaded extraction hole
	3	Quantity of threaded extraction hole
M _A	34 Nm	Screw tightening torque
	2	Quantity of retaining screws

Additional information

c _{aL}	12,000 N/μm	Axial rigidity of bearing position
c _{rL}	6,500 N/μm	Radial rigidity of bearing position
c _{kL}	429,000 Nm/mrad	Tilting rigidity of bearing position
c _{aL}	43,000 N/μm	Axial rigidity of rolling element set
c _{rL}	17,000 N/μm	Radial rigidity of rolling element set
c _{kL}	1,543,000 Nm/mrad	Tilting rigidity of rolling element set