



6024-Z Deep groove ball bearings

- SKF Explorer

Deep groove ball bearings

Bearing data

[Tolerances](#),

Normal (metric), P6, P5, Normal (inch),

[Radial internal clearance](#),

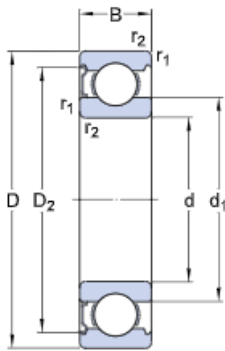
Matched bearing pairs, Stainless steel
 $d < 10$ mm, Other bearings

Bearing interfaces

[Seat tolerances for standard conditions](#),

[Tolerances and resultant fits](#)

Technical specification

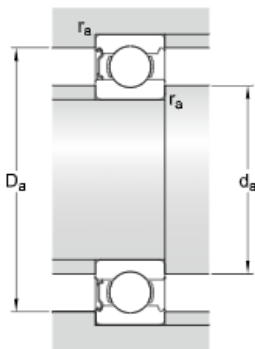


DIMENSIONS

d	120 mm	Bore diameter
D	180 mm	Outside diameter
B	28 mm	Width
d_1	≈ 139.05 mm	Shoulder diameter
D_2	≈ 165.3 mm	Recess diameter
$r_{1,2}$	min. 2 mm	Chamfer dimension

ABUTMENT DIMENSIONS

d_{ξ} min.	129 mm	Diameter of shaft abutment
d_{ξ} max.	139 mm	Diameter of shaft abutment
D_i max.	171 mm	Diameter of housing abutment
r_a max.	2 mm	Radius of shaft or housing fillet



CALCULATION DATA

C	88.4 kN	Basic dynamic load rating
C ₀	80 kN	Basic static load rating
P _u	2.75 kN	Fatigue load limit
	7 500 r/min	Reference speed
	4 800 r/min	Limiting speed
k _r	0.025	Minimum load factor
f ₀	15.9	Calculation factor

MASS

	2.14 kg	Mass bearing
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TOLERANCE CLASS

P6	Dimensional tolerances
Normal	Radial run-out