



Part Number	RL 453 - 4
Type	Roller Bearing

Shaft & Housing Tolerances

Shaft Tolerance	h5
Housing Tolerance	H6
Shaft & Housing Hardness	HRC 60 ⁺⁴ , Ehd ¹ ≥ 1.3 mm
Shaft & Housing Surface	R _z ≤ 2.5 μm

Geometrical Data

Inner Diameter	d [mm]	45
Outer Diameter	D [mm]	53
Width	W [mm]	6

Ratings

Max. Static Radial Load	[N]	13,577
Max. Dynamic Radial Load	[N]	11,417
Max. Speed (Grease)	[rpm]	7,000
Max. Speed (Oil)	[rpm]	9,000
Max. Operating Temperature	[°C]	170

Notes:

1. Effective hardness depth, equivalent to case hardness depth (CHD).
2. Stated speed ratings are contingent on utilizing specified tolerances, correct installation techniques, and operating conditions below the specified maximums. If specific applications differ, please consult GMN USA engineers.