

1603



Technical sheet of 1603

What are the Benefits of choosing 1603 bearings?

- **Minimal Size:** Inner diameter can be as small as 1 mm or even smaller, saving installation space and suitable for micro motors and instruments.
- **Ultra-High Speed:** Optimized design enables extremely high limiting speeds and extremely low heat generation.
- **Low Friction Torque:** Minimal starting and running friction torque, high sensitivity, ensuring precise control.
- **Low Noise and Vibration:** Precision machining ensures smooth and quiet operation, suitable for precision instruments.
- **Long Lifespan:** Utilizing high-quality materials and processes guarantees stable operation over extended periods.

Type :	Inch size miniature ball bearings	
Model :	1603	
Main dimensions :	7.938 mm × 22.225 mm × 7.144 mm	Bore Dia × Outside Dia × Width Dia
M kg:	0.01	Mass
HS Code :	8482102000	Bearing customs code
d mm:	7.938	inner ring diameter
D mm:	22.225	Outer ring diameter
B(T) mm:	7.144	Overall Width
Cr kN:	2.54	Radial dynamic load rating
C0r kN:	1.34	Radial static load rating

Detailed parameters and installation dimensions:

Part Number: 1603 Neutral

Bearing Type: Deep Groove Ball Bearings, Single Row

Bearing Size (metric): Bore Dia. (d): 7,94 mm X Outer dia. (D): 22,23 mm X Width (B): 8,73 mm or Size: 7,94 mm * 22,23 mm * 8,73 mm

Size(inch): Bore Dia. (d): 0.3125 Inch X Outer dia. (D): 0.8750 Inch X Width (B): 0.3437 Inch or Size: 0.3125 Inch * 0.8750 Inch * 0.3437 Inch

Original Equipment Manufacture(OEM NO.): 1603

Bore: C (Cylindrical Bore)

Seals Type: No Seal

Cage Design: S (Steel or Standard Cage)

Radial internal clearance: Cn (Normal Internal clearance)

Precision Rating: Standard class precision

Type of lubrication: Standard class lubrication

Thermal Stability: No Thermal Stability - Temperatures up to 120°C

What are the applications of the 1603 bearing?

- **Medical/Dental:** Used in dental drills, surgical instruments, and analytical instruments. Ultra-high speed and low friction ensure precise control and stability.
- **Precision Instruments:** Used in measuring equipment, encoders, and optical instruments. Extremely low vibration and high sensitivity guarantee measurement accuracy.
- **Motors/Models:** Used in miniature motors, cooling fans, drones, and remote-controlled models. Extremely small size and low noise allow for high-speed rotation.
- **Office/Home Appliances:** Used in hard drives, printer motors, and robotic vacuum cleaners. Long lifespan and low friction torque ensure stable and quiet operation.

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