



HIGH PRECISION ROLLER



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About US

EXFIRO CO., LTD., established in 2011, specializes in the production of high-precision, high-quality transmission components—rollers. Our products adhere to stringent JIS B 1506 & DIN 5402 standards, with sorting precision reaching $1\mu\text{m}$ or higher, and are distinguished by advanced crowning and large R-angle technologies. We use premium SUJ2 bearing steel, ideal for high-rigidity linear motion applications such as roller bearings, linear guides, and cross-roller transmission components.

Innovative and high-quality crowning and large R-angle technologies, combined with flexible R&D and production processes, are the company's greatest competitive advantages in the market. EXFIRO offers professional roller development tailored to customers' needs, providing the highest levels of quality and service satisfaction.

EXFIRO CO., LTD. is dedicated to continuous technological advancement, constantly refining our production methods and equipment. We strive to build lasting, mutually beneficial partnerships with our clients, working together to achieve sustainable growth and success in the future.

Why Choose EXFIRO?

1. Customized orders and flexible manufacturing processes.
2. Specialized edge finishing (chamfering) technology, delivering customer requirements for edge dimensions and crowning design are met.
3. High-precision sorting technology, achieving a sorting accuracy of up to $1\mu\text{m}$.
4. Product precision meets industry JIS and DIN standards.

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Application:

High precision roller bearings / Bearings for linear guideway

Material:

SUJ2 Bearing steel (tool steel)

Hardness Range:

HRC58~66

Working Range:

- Outer Diameter (O.D.): 2mm ~ 40mm
- Length: 2mm ~ 40mm

Product Precision:

- Outer Diameter Tolerance (O.D.): $1\mu\text{m}$
- Parallelism: 0.01mm
- Length Tolerance: 0.01~0.05mm
- Outer Diameter Roughness (O.D.): $Ra\ 0.05\mu\text{m}$
- End Surface Roughness: $Ra\ 0.1\mu\text{m}$
- Product precision meets JIS & DIN standards

Multiple Tests

Rockwell Hardness Testing

Micro Vickers Hardness Tester

Roundness Testing

Metallographic Analysis

2D Vision Measuring System

Pressure Testing

Laser Scan Micrometer

Roughness Testing

