

## We put all our efforts into developing this ceramic bearing for the winning bicycle hub.



**Superior Performance of Ceramic Bearings**  
by the Pioneer of Ceramic Bearing Manufacturing

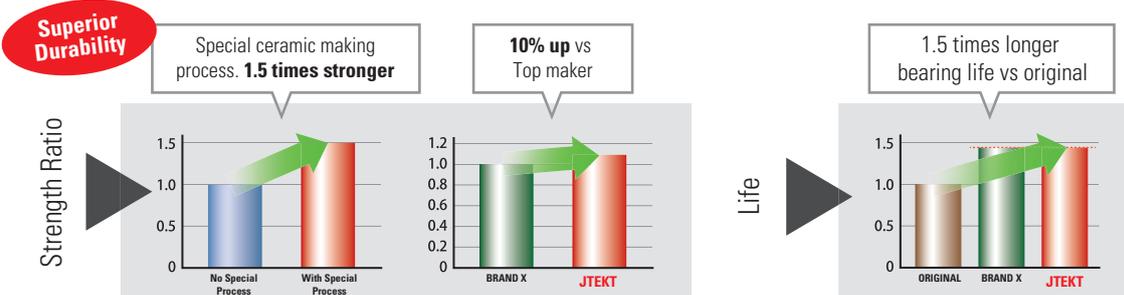
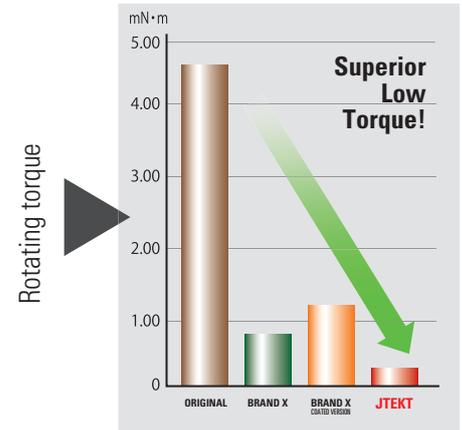
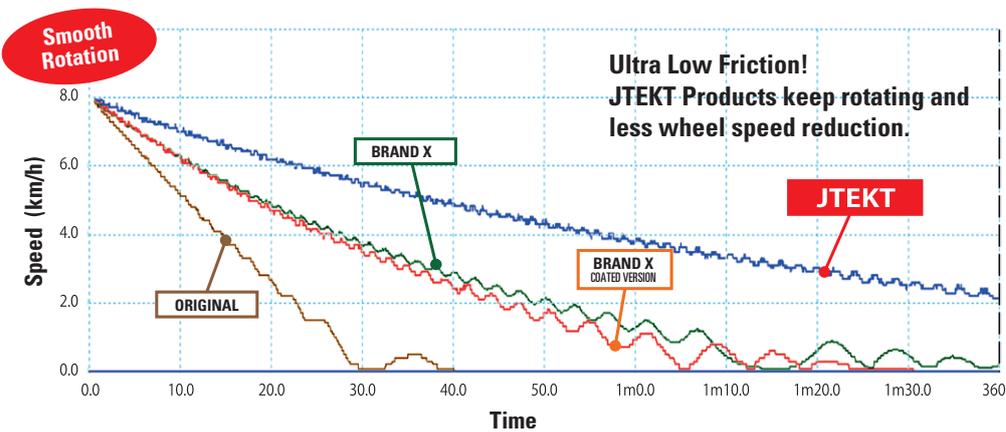
**Superior Low torque**  
Reducing bike riding resistance

**Superior Durability**  
No.1 Strength and Life



**JTEKT 100 years superior technology contributes to reduce rolling resistance.**

Test results prove: JTEKT **Superior Performance** of Ceramic Bearing



No.1 strength and long life by the best grade Silicon Nitride

Please check the superior performance of our products here



# History of **JTEKT** the World's First commercialized Ceramic Bearings

## Cycling Track Race - Omnium (in Tokyo) Our Bearing was used for the wheel of World No.1.

2021

Summer  
2021

Entering Bicycle Market

JTEKT's Engineering capabilities and track record resulting in new products with unprecedented performance

**Super High Speed** - 200.000 RPM - Turbo Charger

**Extra Long Life** - more than 20 years service life operating 24 hours a day - Wind power generation

**Resistance for Severe Environment** - High Temperature (350°C) - Hub bearing for Paris Dakar Rally

2005

World's First

**Extra Long life** - Applied to Wind Power Generation Turbine

1998

World's First

**Extra Long life** - Applied to Hard Disk Drive

1998

World's First

**Super High Speed + Extra Long Life** - Mass production for Automotive Turbo charger Registered as Essential Historical Materials for Science and Technology in Japan, National Museum of Nature and Science, Tokyo



Turbo charger

1997

World's First

**Severe Environment** - Applied to Wheel Hub of a Rally car that participated in Paris Dakar Rally



Wheel Hub of a Rally car

1990

World's First

**Super High Speed + Severe Environment** - Applied to Engine Crank for motorcycle Road racing world championship

1986

World's First

**Super High Speed** - Applied to Main shaft for Machine Tools

1984

World's First

**Commercialized Ceramic Bearings**



Wind Power Generation Turbine



Main shaft for Machine Tools

**WE ARE GLOBAL**

© Visit JTEKT global website  
<http://www.jtekt.co.jp/e/>

Visit JTEKT Europe website  
[koyo.eu/en](http://koyo.eu/en)

JTEKT Corporation is a Japanese manufacturing company, established in 2006 after the merging of two companies: Koyo Seiko Co., LTD. and Toyoda Machine Works Ltd., both with a long history & traditions. The JTEKT Group has approximately 150 subsidiaries and 50,000 employees in about 30 countries and regions. The company manufactures and sells power steering, which has the largest share of the global market, as well as other automotive parts, bearings, and machine tools, with "No.1 & Only ONE" – Shaping a Better Future – as the JTEKT GROUP VISION.

After the 100 years anniversary of the Koyo Bearing business in 2021, JTEKT Corporation has unified all business brands to JTEKT on 1st April 2022, in order to continue its further growth.

JTEKT engineering and manufacturing capabilities range from super large bearings with outer diameters of seven meters to miniature bearings with inner diameters as small as one millimeter, utilizing new materials and the latest in manufacturing technology. JTEKT Corporation stands at the forefront, as a technological leader in the world bearing industry.

**JTEKT EUROPE S.A.S.: Regional Headquarter Office**  
ZI, Rue du Broteau, CS 70001, 69540 Irigny, FRANCE  
Phone: +33-4-7239-4444

**JTEKT EUROPE Bearings. B.V.: Bearing Main Office**  
Markerkant 13-01, 1314 AL, Almere, The Netherlands  
Phone: +31-36-538-3333, E-mail: [info-eu@jtekt.eu](mailto:info-eu@jtekt.eu)