

New Value R & D



ILJIN makes large investments in R&D to provide the best products for our customers. We have adopted the most advanced research technologies and employed highly talented employees to create customer satisfaction. Our R&D focuses on creative new solutions that help our customers achieve their targets. In automotive, we are reducing friction in seals, using new mechanisms to reduce weight, and downsizing designs - all to improve fuel economy, CO2 emissions and overall performance.

Global Networks



ILJIN

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Wherever you need us,
We are there

**MORE CREATIVE,
MORE INNOVATIVE,
EXCELLENCE IN BEARINGS**
WORLD CLASS ILJIN



History

1970's - Foundation Phase

- 1973. 07 Established ILJIN CORPORATION.
- 1978. 12 Established ILJIN FORGING (Currently ILJIN BEARING).
- 1978. 12 Started supplying transmission parts to Hyundai Motor Company.



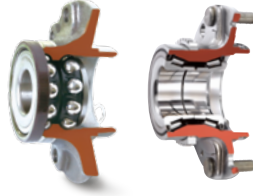
1980's - Take-off Phase

- 1982.08 Established BLOXWICH KOREA (Currently ILJIN GLOBAL) as a joint venture company.
- 1986.01 Established DONG-A INDUSTRIAL (Currently ILJIN Corp.).
- 1986.02 Exported "center link" parts to Moog, USA.
- 1988.11 Started manufacturing ball joints and tie rod ends.



1990's - Growth Phase

- 1994.01 ILJIN INDUSTRIAL (Currently ILJIN BEARING) signed a technological tie-up agreement with KOYO in Japan.
- 1994.06 Started automotive bearing business and installed equipment to manufacture generation 2 wheel bearings.
- 1997.07 Established ILJIN INDIA.
- 1999.07~11 Started supplying wheel bearings, ball joints, tie rod ends and stabilizer links to Ford, Australia.



2000's - Global Growth

- 2000.04 ILJIN INDUSTRIAL (Currently ILJIN BEARING) developed Generation 3 Wheel Bearings. Started providing Generation 3 wheel bearings to Federal Mogul.
- 2001.11 Generation 3 wheel Bearings were selected as the next world-class product by Korean Government.
- 2002.01 Established ILJIN AUSTRALIA.
- 2002.03 Awarded key wheel bearing programs by 2 North American OEM's.
- 2002.10 Established BEIJING ILJIN.
- 2003.03 Established ILJIN USA and Tech Center.
- 2005.11 Established ILJIN SLOVAKIA.
- 2006.11 Established TIANJIN ILJIN.
- 2008.02 Established ILJIN AMERICA. (Currently ILJIN USA SC)
- 2008.04 Established ILJIN GmbH. (Currently ILJIN BEARING GmbH)



2010's - The Second Take-off Phase

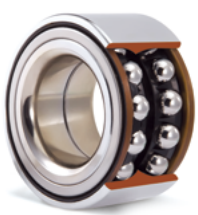
- 2010.09 Established ILJIN ALABAMA.
- 2011.05 Established BEARING ART.
- 2013.06 Completion of BEARING ART Young-ju.
- 2014.09 Established North America R&D Center.
- 2015.06 Established CHONGQING ILJIN.
- 2016.01 Established ILJIN GLOBAL INDIA.
- 2016.01 Established Europe R&D Center.



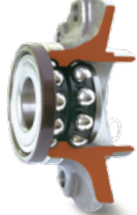
Wheel Bearings

Wheel bearings are installed on automotive wheels, and are used to support axle loads and send power to the wheels. There are two basic types of wheel bearings : Ball(Double Row Angular Contact Bearing) and Roller(Double Row Tapered Roller Bearing) for passenger cars through heavy truck applications, with integral ABS encoder and sensor technologies.

Double Row Angular Contact Ball Bearing



Gen.1



Gen.2



Gen.3

Double Row Tapered Roller Bearing



Gen.1



Gen.2



Gen.3

Industrial Bearings

ILJIN strives to provide the best quality and services not only in our bearings range for vehicles but also in construction machinery, heavy equipment, reducer of industry, steel manufacture, wind power and defense industry among others.



Tapered Roller Bearing (TRB)



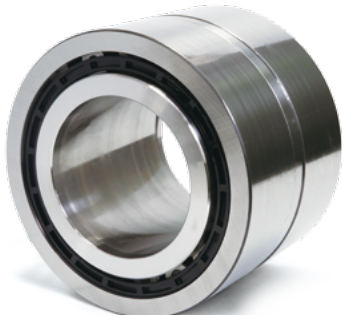
Angular Contact Ball Bearing (ACBB)



Pitch Bearing

Yaw Bearing

Slewing Bearing



Railway Bearing

Chassis & Suspension

Chassis & Suspension components are designed to connect the body of the automobile to the wheels. These parts help maintain proper strength, and absorb road impact to enhance comfort. Additionally, Chassis & Suspension enhance the vehicle's handling characteristics and make it easier to control the vehicle when external/internal forces are applied on road wheels (e.g., driving, braking or steering).



Lightweight Lower Control Arm



Corner Module



Upper Control Arm



Ball Joint



CABJ



Hybrid Ball Joint/CABJ



Tie Rod End



Stabilizer Link



Door Checker

Powertrain

Powertrain comprises of bearings used for automotive transmission: these include tapered roller bearings, angular contact ball bearings, and deep groove ball bearings. These bearings support radial directional / axial loads generated by gears and withstand lubricant contaminants.



High Load Tapered Roller Bearing



Flange Type Double Row Angular Contact Ball Bearing with Flange



Single Row Tapered Roller Bearing with Plastic Cage



Single Row Tapered Roller Bearing with Steel Cage