

# NSK Europe Ltd. Facts & Figures

(per March 31, 2018)

## Start of European NSK Businesses

- 1916 NSK (Nippon Seiko K.K.) established in Tokyo (Japan).
- 1963 Implementation of first European Sales Office in Düsseldorf (Germany).
- 1976 NSK Plant in Peterlee (UK) started production.

**Sales:** more than 1056 mil. Euro in Europe as per March 2018

**Employees:** approx. 3900 in Europe

## Business Units & Products

### NSK Industrial Bearings & Linear Components (EIBU – European Industrial Business Unit)

European Headquarter:	Ratingen (D)
Product Portfolio:	Ball Bearings, Cylindrical Roller Bearings, Tapered Roller Bearings, Spherical Roller Bearings, Thrust Bearings, Super Precision Bearings, Mounted Units, ProKIT, Ball Screws, Linear Guides and a wide variety of Mechatronic products.
Channels:	Industrial Aftermarket Automotive Aftermarket Precision Solutions Sectors, such as:  Agriculture, Automotive Production, Cement, Domestic Appliances, Electrical, Fans & Blowers, Food & Beverage, Industrial Gearboxes, Handling & Automation, Injection Molding, Machine Tools, Power Transmission, Printing, Pulp & Paper, Pumps & Compressors, Quarry, Mining & Construction, Railway, Semiconductor & Medical, Steel & Metals, Wind Energy as well as strong supply into European and Middle East aftermarket channels.
Production plants:	Munderkingen/Ulm (D), Newark (UK)
Sales Offices:	Barcelona (E), Dubai (UAE), Guyancourt (F), Istanbul (TR), Johannesburg (South Africa), Milan (I), Newark (UK), Ratingen (D), St. Petersburg (RU), Warsaw (PL)
Technology Centres:	Kielce (PL), Newark (UK), Ratingen (D)
Logistic Centres:	Newark (UK), Tilburg (NL)

### NSK Automotive Bearings & Modules (EABU – European Automotive Business Unit)

European Headquarter:	Ratingen (D)
Product Portfolio:	Chassis Bearings, Bearings for Powertrain Applications, Bearings for Engine Accessories and Electrical Motors
Channels:	Automotive OEM, 1 <sup>st</sup> and 2 <sup>nd</sup> Tier
Production plants:	Peterlee (UK), Kielce (PL)
Sales Offices:	Barcelona (E), Guyancourt (F), Milan (I), Ratingen (D), Stuttgart (D), Wolfsburg (D)
Technology Centres:	Kielce (PL), Newark (UK), Ratingen (D)
Logistic Centres	Tilburg (NL)

### NSK Steering Systems (ESBU – European Steering Business Unit)

European Headquarter:	Ratingen (D)
Product Portfolio:	Mechanical/Electrical Steering Columns with integrated Energy Absorb Systems, Manual/Electric Rake and Reach Adjustment, Electric/Manual Upper Tilt + Telescope Adjustment, Electrically Assisted Power Steering Systems (EPAS) with integrated Energy Absorb Systems, Column Assist, Pinion Assist, Steering Gears, Intermediate Shafts
Channels:	Automotive OEM, 1 <sup>st</sup> Tier
Production plants:	Peterlee (UK), Walbrzych (PL)
Technology Centres:	Guyancourt (F), Newark (UK), Ratingen (D)
Sales Offices:	Guyancourt (F); Milan (I), Ratingen (D); Newark (UK); Wolfsburg (D)

## European Engineering & Technology (R&D)

Technology Centres:	<p><i>Industrial Machinery Bearings:</i> Newark (UK), Ratingen (D), Kielce (PL)  <i>Automotive Bearings:</i> Newark (UK), Ratingen (D), Kielce (PL)  <i>Automotive Steering:</i> Guyancourt (F), Newark (UK), Ratingen (D)</p>
Four Key Areas of Activity:	<p><b>Application Engineering</b> – Technical support of customers, Distributors manufacturing operations  <b>Design</b> – New product design and development  <b>Testing</b> – Application related testing  <b>Investigation</b> - Detailed analysis of bearings and surrounding components</p>
Four core technologies:	<p><i>Tribology (Friction Control Technology)</i>  Advances in the area of lubrication including improved grease formulations and surface processing methods, have allowed NSK to develop faster, quieter and more durable bearings capable of sustaining heaviest loads.</p> <p><i>Material Engineering</i>  NSK is actively working to develop the enhanced material technology needed to improve the functionality and durability of bearings used in extreme environments.</p> <p><i>Analysis Technology</i>  Improve analysis technology to create the product designs and production systems used to manufacture its extremely reliable products.</p> <p><i>Mechatronics</i>  NSK has used technology from its product development and manufacturing activities to create innovative mechatronics technology based on the fusion of mechanics and electronics.</p>
Main areas of expertise:	<p>Development of...</p> <ul style="list-style-type: none"> <li>› Industrial Bearings (General motors, household appliances, wind turbines, pumps &amp; compressors, industrial gearboxes, etc.)</li> <li>› Precision Bearings (Material- and lubrication technology; analysis and evaluation technology, etc.)</li> <li>› Chassis Bearings (HUB I-III)</li> <li>› Powertrain: <ul style="list-style-type: none"> <li>▪ Manual Gearboxes</li> <li>▪ Automatic Gearboxes (CVT gearboxes, DCT gearboxes, Driveline bearings)</li> </ul> </li> <li>› Engine Accessories &amp; Electrical Motors (Alternators, Water Pumps, Electrification)</li> <li>› Steering Systems (electrical power steering systems – electrical and mechanical design; manual steering columns; steering torque transmission shafts – I-shafts)</li> </ul>

## Awards of the last years

Bosch - Preferred Supplier - Material Group Bearings  
Bosch - Supplier Award

Brammer Award

BSH - Supplier Award

Continental - Supplier Award

DMG - Supplier of the Year – Quality

Festool Award

Kessler - Supplier of the Year - Delivery

KTM - Supplier Quality Excellence Award

PSA - Supplier's Awards – Quality

Toyota Motors South Africa - Supplier award – Quality

Toyota - Quality Award - NSK Needle Bearing Poland Sp. Z O.O. (NNBP)

Toyota - Quality Award - NSK Bearings Polska S.A.

Toyota Manufacturing UK - Certificate of Recognition

Toyota Manufacturing UK - Project Management Award

Toyota Manufacturing UK - Superior Performance Award

Toyota Manufacturing UK - Achievement Award

Volkswagen - Group Award

Volkswagen - Supplier Award - Excellence in Development

## Company Background & Milestones

### **1916: NSK Ltd. is established in Tokyo, Japan**

1960's: Opening of first NSK Sales Offices in Ann Arbor, Michigan USA and Düsseldorf, Germany

1970's: Opening of Production Plants in Sao Paulo, Brazil, North America, UK and Asia

1990's: Purchase of the UPI Group including RHP (UK) and Neuweg (Germany). Further opening of Sales Offices & Production Plants in UK, Germany & Switzerland

2000's: Finalisation of Fujisawa Research & Development Centre in Japan & opening of the Technology Centre in Germany

2010's: Further expansion of the Technology Centre in Germany, opening of the Steering Test Centre in Germany. Further expansion of European plants.

## European Executives

- › Toshihiro Uchiyama, President and CEO, NSK Ltd. in Tokyo, Japan
- › Masatada Fumoto, Chief Executive Officer, NSK Europe Ltd.
- › Issei Murata, Deputy Head of all European Operations, NSK Europe Ltd.
- › Gordon Frisby, Chief Financial Officer, NSK Europe Ltd.
- › Günter Winkler-Gonze, Acting Managing Director European Industrial Business Unit (EIBU), NSK Europe Ltd.
- › Franck Keiffer, Managing Director European Automotive Business Unit (EABU), NSK Europe Ltd.
- › Klauspeter Noack, Managing Director European Steering Business Unit (ESBU), NSK Europe Ltd.
- › Volker Polonyi, Engineering Director European Technology Centre, NSK Deutschland GmbH
- › Kanta Ozaki, Head of Manufacturing, NSK Europe Ltd.
- › Andrew Savage, European HR Director, NSK Europe Ltd.