MAZDA COMPANY PROFILE /two.lf/zero.lf/one.lf/eight.lf

Operating income 146.4 billion yen
Net income 112.1 billion yen

(As of FY2017)
Research & Development

Mazda is dedicated to developing vehicles that are distinctive and innovative, using the latest and most advanced technologies to satisfy the diverse needs of customers worldwide. To accomplish this, Mazda created a global R&D network with operations in Japan, the United States, Germany, and China.

### R&D Sites

Mazda has R&D centers in various locations around the world, each focusing on specific activities to support the development of innovative vehicles.

#### Japan

- **Headquarters, R&D Divisions**
  - Location: Fuchu-cho, Aki-gun, Hiroshima
  - Activities: Product and engineering planning, design development, product development, advanced research for significant new technology

- **Mazda R&D Center (Yokohama)**
  - Location: Yokohama
  - Activities: Product and engineering planning, advanced research for significant new technology

#### U.S.A.

- **Mazda North American Operations (MNAO)**
  - Location: Irvine, CA
  - Activities: Technology and market trend studies in the North American market, design development for the North American market, evaluation of product conformity with North American market standards

#### Europe

- **Mazda Motor Europe GmbH (MME) European R&D Centre**
  - Location: Flat Rock, Michigan
  - Activities: Technology and market trend studies in the European market, design development for the European market, evaluation of product conformity with European market standards

#### China

- **Mazda Motor (China) Co., Ltd.**
  - Location: Jiading District, Shanghai
  - Activities: Technology and market trend studies in the Chinese market

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### Comprehensive Vehicle Proving Grounds

<table>
<thead>
<tr>
<th>Plant Name</th>
<th>Location</th>
<th>Start of operations</th>
<th>Land Area</th>
<th>Activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Miyoshi Proving Ground</td>
<td>Hiroshima, Japan</td>
<td>June 1965</td>
<td>1,702,000m²</td>
<td>Mazda’s main proving ground: used to develop basic vehicle functionality for driving, cornering, and stopping. Also, contributes to comfortable and safe vehicle engineering by providing test areas for stability tests, crash tests, and durability tests.</td>
</tr>
<tr>
<td>Mine Proving Ground</td>
<td>Yoraguchi, Japan</td>
<td>May 2006</td>
<td>753,000m²</td>
<td>Ongoing development of test course facilities that are unavailable at the Miyoshi Proving Ground for further product improvements.</td>
</tr>
<tr>
<td>Hokkaido Kenbuchi Proving Ground</td>
<td>Hokkaido, Japan</td>
<td>January 1990</td>
<td>4,700,000m²</td>
<td>Technology development and functional tests on frozen roads of systems such as AWD, ABS, TCS, and DSC that ensure safe driving under hazardous frozen/snow conditions.</td>
</tr>
<tr>
<td>Hokkaido Nakasatsunai Proving Ground</td>
<td>Hokkaido, Japan</td>
<td>January 2002</td>
<td>260,000m²</td>
<td>Mazda’s second proving ground in Hokkaido is for developing vehicle functions for differing conditions in various climates. Mainly performs development tests for safe-driving systems such as ABS, TCL, and DSC under frozen conditions.</td>
</tr>
</tbody>
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*1 Mazda North American Operations (MNAO) is a generic organizational name which comprises Mazda Motor of America, Inc. and Mazda Motor de Mexico S. de R. L. de C. V.

*2 Traction Control System (TCS): Mechanism to optimize a vehicle’s traction according to the driving conditions

*3 Dynamic Stability Control (DSC): DSC integrates the 4-wheel Anti-lock Braking System (ABS) and Traction Control System (TCS) to optimally control the engine output and 4-wheel individual brake force to prevent side skids. In addition, the system maintains stable driving conditions while cornering on slippery roads or during evasive steering to avoid hazards.