Miba Automation Systems
Miba is an international corporate group producing technologically advanced, high performance drive components. Sintered components, engine bearings, friction materials and coatings are produced at twelve locations around the globe. Miba Automation Systems is part of Miba Group.

**Experience and Innovation**

We have more than 60 years of experience in the development of special machinery for a broad range of applications. Thanks to our technical know-how and solutions which are fine-tuned to customers’ needs, we are a flexible, powerful partner in the field of special machinery for future-oriented industries. Our solutions are suitable for rapid, high-precision mechanical production of small, large and very large components.

One of our particular areas of focus is the development of mobile CNC processing units. Ever larger components and more complex tasks as well as very high levels of processing precision require customized systems of this kind.

Our numerous patents for transfer lines and special processing machines reflect our powers of technological innovation.

Our production site in Austria and sales offices around the world deliver leading-edge technology and optimum service. We put special emphasis on providing customers with the best possible processing strategies. Converting specific challenges into products at competitive prices is our core competence.
Technological Competence

Miba Automation Systems specializes in µm-accurate, automated machining in combination with workpiece positioning, robotics and integrated measurement.

Core Competencies

- Combining and interlinking machines (complete transfer lines)
- Combining several processes in a single machine
- Combining processing and measuring technologies (laser-controlled processing axes, etc.)
- Multi-spindle machines for milling operations
- Combining processing with robotics
- Mobile processing systems for very large components (construction of power plants, cranes, wind power plants, etc.)
- On-site processing using mobile CNC processing systems
- Checking of complex and large components

Key Strengths

- Handling of complex components
- Highly trained, committed team
- Global service
Corporate Social Responsibility

At Miba, sustainable management means taking responsibility while operating in harmony with the environment and society. As defined in our corporate mission statement, operations are geared to commercial, ecological and social sustainability.

Investing in Employees

Miba offers employees a wealth of opportunities for training and staff development, via a wide range of programs and initiatives for personal and professional growth. Safety and health are also major priorities: the group maintains very high safety standards by investing in modern, safe systems, optimum use of machinery and ergonomic workstations.

Environmental Awareness in Conjunction with Innovation

Our environmental management activities are closely intertwined with innovation. Our production processes are governed by uniform standards for quality, occupational safety and environmental protection. The emphasis lies on lowering resource consumption, reducing emissions, using environmentally-friendly materials and strengthening our employees’ awareness of environmental issues. Miba products are environment- and future-oriented, and we view green markets as opportunities.

Miba Automation Systems helps in the efficient maintenance of wind power and hydroelectric plants, thereby enhancing their commercial viability.
With over 60 years of experience in developing and building machines for engine bearing production, Miba Automation Systems is a world market leader in this segment. All the leading engine bearing producers have come to rely on our technologies. They include the biggest, best known automotive suppliers in Japan, China, India, Europe and the US.

**Transfer Lines**

Enabling you to produce both large and small batch sizes cost efficiently, transfer lines are the perfect symbiosis of set-up and cycle times. Transfer lines from Miba Automation Systems guarantee short set-up times with optimally designed cycle times.

**Fineboring Machines**

Miba Automation Systems is also a pioneer in fineboring technology. By enhancing our technology leadership with ongoing advances, we stay a step ahead of the competition. Cycle times of below a second combine with positioning precision in the one tenth of a micrometer range. Customers benefit from tolerances of less than 0.005 mm, with extremely high process capability.
More than Just Robotics

Miba Automation Systems has more to offer than just assembly lines, automation and robotics. Customers’ added value chains profit from our complete systems, especially when optimized combinations of processing machines are involved. Miba Automation Systems is a specialist in high-precision positioning of complex components. We build robotic systems for coating systems and component handling and processing - all tailored to customers’ individual requirements. In addition, we are well positioned in the rapidly growing market of camera and testing systems combined with robotics.
Stationary Special Purpose Machines

Our technological know-how and solutions customized to clients’ needs make us an attractive strategic partner to future-oriented industries. We view complex tasks as exciting challenges. Special machines designed and developed by Miba Automation Systems ensure μm-precise production and component positioning.

Mechanical Production

One of our biggest strengths is in the field of mechanical production. Whether it’s milling, grinding, turning, broaching, punching or coining - our wide-ranging experience in machining makes us a leading provider.

Measuring Equipment

High-precision production and assembly processes require measuring systems with very high precision. Miba Automation Systems is more than equal to the challenge of absolute precision. Having realized at an early stage the importance of automated measuring systems, we have always positioned ourselves on the leading edge. The numerous systems planned and built by Miba Automation Systems for the international engine industry are testament to our competence.

Sputter Systems

Miba Automation Systems is a specialist with many years of experience in complex vacuum coating systems. We develop and build coating systems working closely with our associate companies Teer Coatings Ltd. (UK) and High Tech Coatings (Austria).
CNC Processing Units for Flanges

We are driving growth in future-oriented industries by developing and building mobile CNC processing units.

As components become larger than ever and tasks more complex, processing precision needs to keep pace. This calls for systems specifically designed for the application in question. Mobile, transportable machines allow clients to perform technologically demanding processes on components directly on site.

Our mobile special machines thus have clear benefits in terms of cost savings and functionality.

Flange Processing

Final processing of steel flanges on finished components can be performed on site using our mobile flange processing machines. Thanks to the stable, intelligent design of our machines, a wide range of processing diameters can be handled. Miba Automation Systems: precise, economical, and a step ahead of the competition.

Processing of Large-Scale Flanges

Miba Automation Systems mobile CNC processing units can also be used to process very large workpieces (Ø 2m - 20 m) under a wide range of mechanical conditions. Laser-based systems ensure impressive performance in terms of material removal and precision. Areas of application include crane construction, open-cast mining and wind power industry.
Miba Automation Systems is the only company worldwide to offer mobile processing equipment with online laser tracking systems. These laser measuring systems automatically correct the processing axis, ensuring very high precision.

**Processing of Turbine Casings**

Mobile CNC processing machines make revisions of power plant turbines highly economically. Downtime and transport costs are reduced. Advanced Miba Automation Systems technology ensures efficient, rapid, precise execution.

**Preparation of Weld Seam Profiles**

Our circumferential and longitudinal weld seam milling machines are used to pre-mill exterior weld seam profiles on apparatuses, vessels and steel towers. This guarantees optimum weld seam profiles. Seam preparation and weld times are reduced relative to conventional joining/grinding, and less weld material is required.

**Processing of Large-Scale Components**

Mobile CNC processing units allow complete processing (turning, milling, grinding, drilling etc.) of very large components. All over the world, you can find Miba Automation Systems machines performing the work of more expensive processing centers.

**Applications:**

- Crane tower flange processing
- Special vehicles
- Open-cast mining
- Power plant turbine processing
- Clutch bolt processing
- Steel tower processing
- Valve seat processing
- Hydroelectric plant sealing flanges
Contacts

Production & Sales:

Austria
Miba Automation Systems Ges.m.b.H.
Dr.-Mitterbauer-Str. 3
4663 Laakirchen, Austria
T +43/76 13/25 41-21 70
F +43/76 13/25 41-23 62
mas.office@miba.com

Sales:

USA
Miba Bearings US, LLC
North State Route 60
43756 McConnelsville, Ohio, USA
T +1/740/962-42 42
F +1/740/962-53 99
mas.office.us@miba.com

China
Miba Precision Components (China) Co., Ltd.
No. 530, Xinglong Street, Phase III
215024 Suzhou Industrial Park
Jiangsu Province, P. R. China
T +86/512/62 85-09 00
F +86/512/62 85-09 90
mas.office.cn@miba.com

Singapore
Miba Far East PTE Ltd.
3 Loyang Way 4
Singapore 506956
T +65/654/53 869
F +65/654/53 958
mas.office.sg@miba.com