Miba Sinter Group Key Products
Miba sintered components are high-precision, high-strength parts produced using special process technology. They are used in car engines, transmissions, driveline and steering systems, and for the electrification of passenger vehicles.

The Miba Sinter Group is the technology leader in powder metallurgy applications. We work closely with our customers to meet the challenges of the international automotive industry related to making vehicles more efficient, environmentally friendly and quieter. Our customers are guaranteed customized and cost-effective solutions, backed up by a global presence, years of development experience and quality standards.
Our Mission
Innovation in Motion – Technologies for a Cleaner Planet

Our Vision
No power train without Miba technology

Our Values
- Technology Leadership
- Lifelong Learning
- Entrepreneurship
- Passion for Success

Miba is your international partner for innovative solutions in sintered metal.

As a technology leader, Miba commands know-how and expertise in the fields of engines, transmission and body, chassis and pumps.

The state-of-the-art equipment and stable manufacturing processes of Miba guarantee highest quality.

Miba components guarantee
- Cost-effectiveness
- Functional design
- High strength and precision
Gear Drive Application

- For cam-to-cam and mass balancer drives
- Miba Densgrad® and Denscontour® processes
- Mechanical features similar to carburized steel
- Noise, vibration and harshness (NVH) benefits
- Additional functions through highly complex geometries
- Innovative coating options
- Helical gears
Chain Drive Application

- Experience from 200+ applications
- Roller chain, bush chain, silent chain sprockets
- Various processes to fit application requirements
- Improved NVH behavior
- Economical solution
- Application know-how and engineering competence
Belt Drive Application

- Huge experience from 400+ applications
- Development partner for innovative belt systems
- Continuous improvement of technology and processes
Crank Drive Application

Functional testing and validation testing, both in-house and in cooperation with partners

Specialization in highly dynamic drives

Innovative technologies in order to achieve:
- Cost-effectiveness
- Improved functionality
VVT Application

- Leading supplier of variable valve timing (VVT) components – years of experience
- High precision – complex net shape
- Elimination of other system components
- Hard and green machining
Transmission Application

Synchronizer Hubs

- Optimized design/performance utilizing analytical tools
- Innovative materials and processes for high-strength applications
- Net-shape manufacturing for complex part geometries
Transmission Application

Synchronizer Rings

- Flexible geometries for single- and multi-cone synchronizers
- High precision combined with high wear resistance
- Miba carbon technology for high loads and long life
Transmission Application

Dog Rings

• Miba Denscal® technology for high-performance applications
• Net-shape design with cone and/or axial end stop
• Symmetrical or asymmetrical back taper for reliable gear engagement
• Hardened (ready-to-install) or finished blanks ready for conventional welding and hardening processes
**Driveline Application**

**AWD Components**

- Miba Denscal® technology for high-performance all-wheel drive (AWD) components
- High-strength components for AWD clutches
- Synchronizer modules for part-time AWD and active disconnect systems
- Cost-efficient net-shape manufacturing
EPS Application

- Leading supplier of electrical power steering (EPS) components
- Dedicated high-precision manufacturing methods for helical pulleys
- Global Miba network for development, engineering and manufacturing
VOP Application

• Strategic focus on components for variable oil pumps (VOP)
• Modern high-precision manufacturing methods
• Specific machining technologies for VOP components
Electrification

Our passion for technological challenges combined with our ability to utilize the benefits of powder metallurgy also opens up new possibilities in “electrified” applications.

SMC components in permanent magnet synchronous motors (PMSM) allow 3D magnetic flux which results in

- High power density
- High torque in excellent packaging
- NVH benefits
- Cost advantage through replacement of rare earth magnets
Soft Magnetic Composite (SMC)

Our soft magnetic composite (SMC) material allows 3D magnetic flux. This opens up the efficient use of motor topologies with high power density.

We offer engineering support and production of SMC components as well as assemblies for both

- electric auxiliary components (e.g. climate compressor, water pump, generator)
- and traction drives.
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