

EXPERT FOR eMOTOR PRODUCTS AND PLATFORMS

We are offering the full package for customized pin winding solutions and the serial production of stators. Due to the unique setup of having product expertise, interdisciplinary technology development, product design, manufacturing equipment and production experience under one roof, we create outstanding solutions for eMotor products and platforms.

Worldwide leading companies rely on Miba, for example:

- ABB
- Audi
- BMW
- Bosch
- Caterpillar
- Daimler
- Fiat
- GM
- Geely
- John Deere
- Siemens
- Volvo
- VW
- Wärtsillä



TECHNOLOGIES FOR A CLEANER PLANET

Miba develops and produces functionally critical components along the entire energy value chain. Our products make an important contribution to the efficient and sustainable generation, transmission, storage and use of energy. Miba sintered components, engine and industrial bearings, friction materials, power electronics components and coatings are used around the world in motor vehicles, trains, ships, aircraft, power plants, refineries, compressors and industrial pumps.



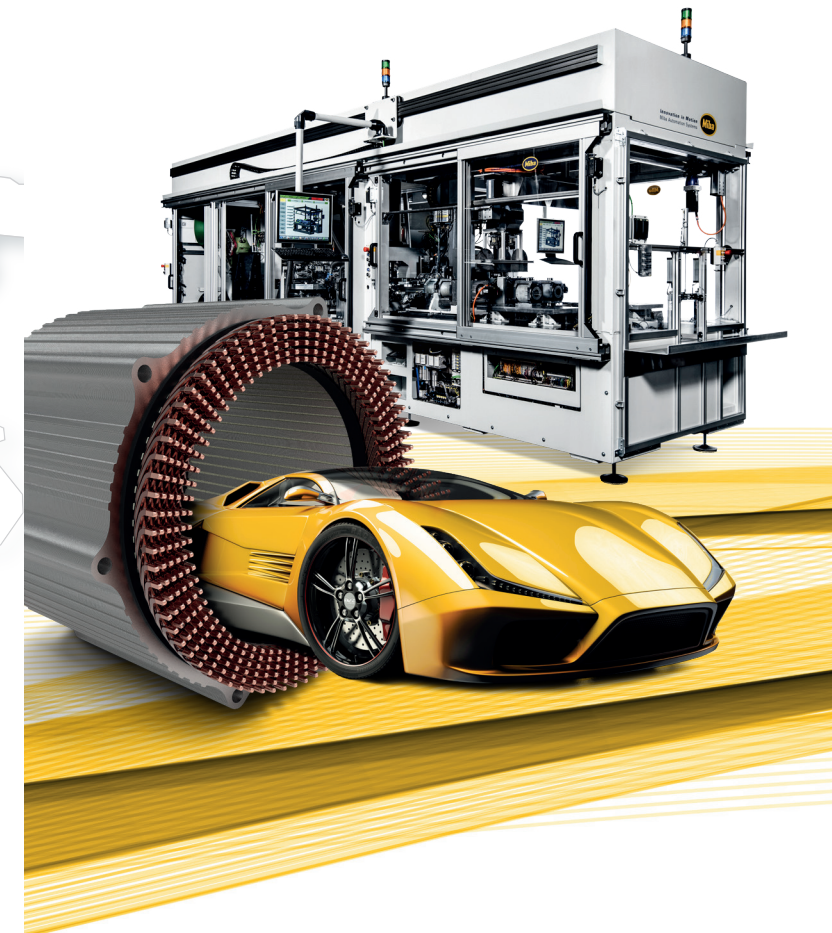
<p>AMERICA 1,350 employees 9 sites</p>	<p>EUROPE 4,900 employees 17 sites</p>	<p>ASIA 1,300 employees 5 sites</p>
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LEADING PIN WINDING TECHNOLOGY

Customized stator manufacturing equipment and series production



WINDING AND ASSEMBLY SYSTEMS

ANALYSIS

- Electromagnetic simulation
- Winding and insulation design
- Production optimized design
- Overall feasibility study

PROTOTYPES

- A/B/C samples available
- Based on serial production
- Serial production tooling

EQUIPMENT

- Hairpin and I-Pin stator assembly lines
- Fully automated
- Highest quantities
- Latest technology

SERIES PRODUCTION

- Stators for eMotors
- For highest efficiency and performance
- Unique Miba LapWinding®

Precisely to your requirements

Our fully automated lines for production and assembly of stators are setting standards. We provide machines and automatic lines of the latest technology for the highest quantities, precisely tailored to the individual production requirements of our customers. Our comprehensive expertise spanning from analysis and prototypes to quality manufacturing guarantees added-value solutions from a single source.

STATOR SERIES PRODUCTION

Delivering efficiency and performance

Miba is one of the pioneers for Hairpin Technology. With the Miba LapWinding® we have developed a unique winding scheme that secures the avoidance of circulating currents. Miba offers maximum numbers of conductors per slot with in-house manufacturing equipment. This leads to significantly reduced skin- and proximity effect and therefore reduces losses especially at higher revolutions and frequencies.

- Highest number of pins per slot for maximum efficiency
- Patented winding scheme
- Platform designs with commonality parts and material (e.g. for trucks, off-road vehicle families)
- Slot cooling technology for maximum continuous power
- Slotlinerless technology for maximum copper fill factor

