

MG. There is always quality behind it.

STAMPING AND HIGH PRESSURE DIE CASTING
TECHNOLOGY FROM
METALLWARENFABRIK GEMMINGEN GMBH
AND FEM MŰVEK KISBÉR LTD





What you will always be amazed at, and even others will often ask you where you get this high quality from.



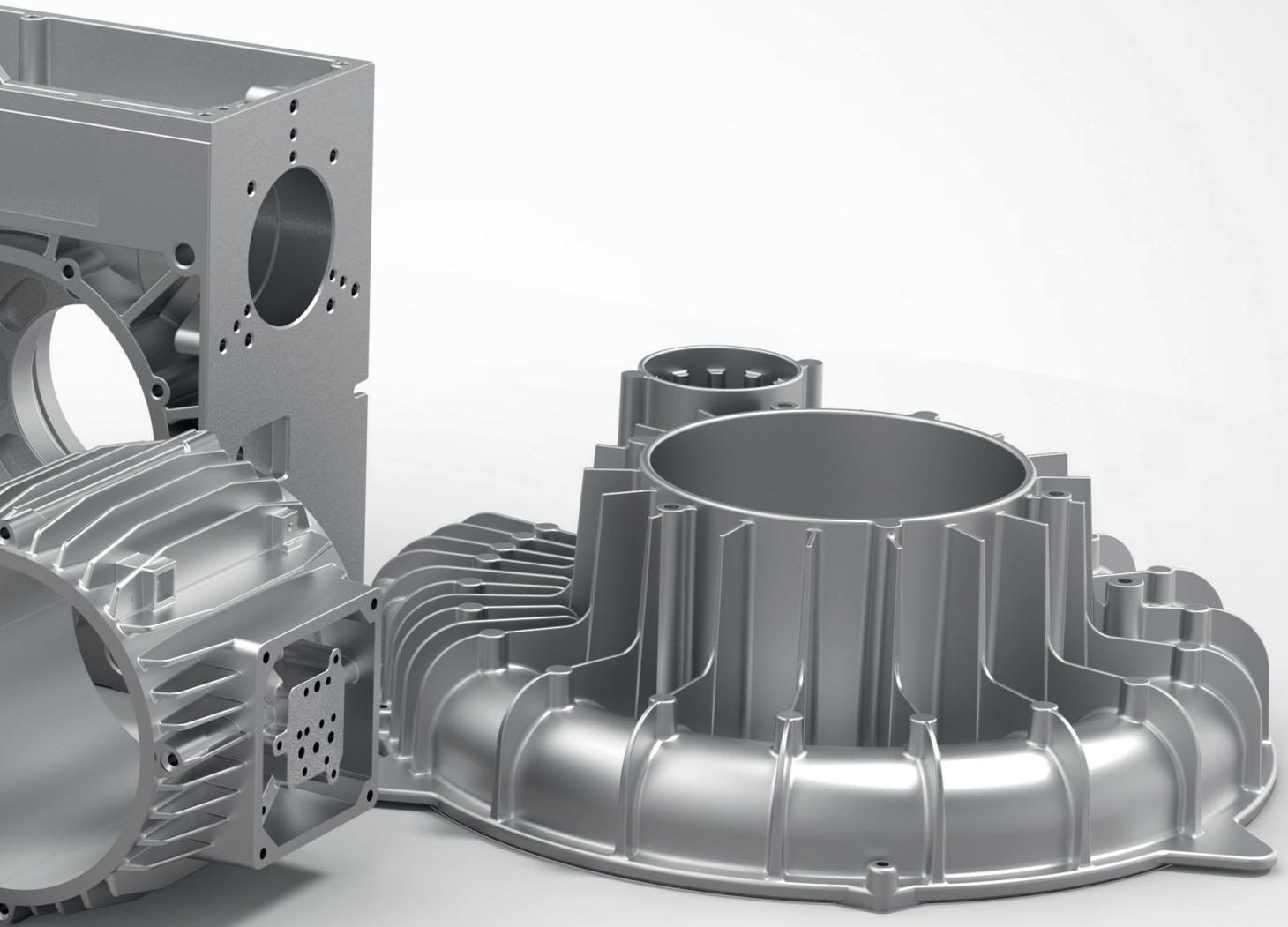
If something works well, such as a garage door or a garden tool, we'll no longer be surprised why it does so, but take it for granted.

Our customers and their customers experience the same thing again and again every day in connection with our motor housings, rotors and other products manufactured in our factories in Hungary and Germany.

All this works smoothly and with the highest quality.

This is mainly due to the fact that we have managed to combine the knowledge and efficiency of our factories so that we can offer you an optimal price-value ratio with high quality and flexible delivery time.

From design to series production - that's what we guarantee for you.



Satisfied customers spread the news and sure enough you will be asked as well how you reach your own quality standards.

We are proud to be able to contribute to the continuous success of our customers with our products.

For more than 50 years, our domestic and foreign customers have been able to build on our products and expertise in various drive technology applications:

- industrial and gear motors
- ventilation or circulation systems
- compressors
- pumps and generators
- compressed air and vacuum technologies
- medical technologies
- control engines for wind turbines
- window shutters and gate drives



From prototype production to series manufacturing. Our company is able to control all processes in one hand.

CONSULTING, DEVELOPMENT, PLANNING

Sometimes a tiny spark or key information is what can be decisive to the subsequent success of an idea or product.

Thus, it is possible, for example, that using the experience gained during the development and manufacturing of products already in series production, significant costs and resources can be saved for new projects. In order to benefit from such crucial information in a timely manner, we recommend involving our own design department from the very beginning of the idea. Our qualified colleagues will provide you with the optimal product geometry, taking into account the pourability conditions.

FROM THE FIRST PROTOTYPE TO THE ENTIRE SERIAL PRODUCTION

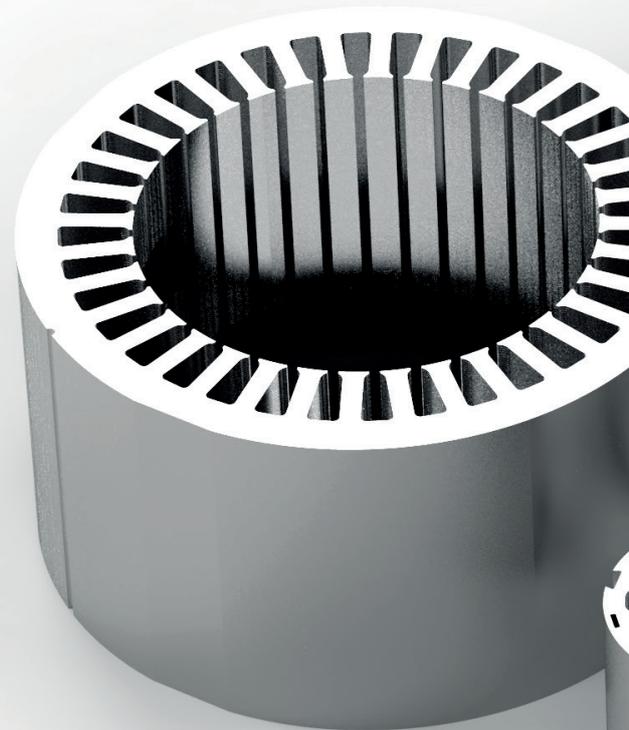
Every successful product is preceded by a precise development process.

Our customers can count on us to create the first prototypes, which only requires 3D models of the products. We offer Rapid-Prototyping and precision casting for castings and laser cutting for stamped products. Utilizing the close cooperation between our design and our tool making department, we are able to perform first initial sampling and further optimizations of die casting and stamping tools in-house until the conditions for series production are reached. From tool design and tool manufacturing to the production of casted, stamped, deburred and machined finished products, our customers can rely on the support of our skilled employees.

SERIAL PRODUCTION

Outstanding dimensional accuracy at an affordable price, in high quantities.

Our main strength is the series production of high-quality aluminum die castings from 0.1 to 6.0 kg tailored to our customer needs. Based on decades of experience in manufacturing high pressure die casted parts from various aluminum alloys, our primary goal is to make a significant contribution to the success of our customers. On our high-speed presses, we are able to produce high-precision stamped electric sheets as well as stator and rotor packages up to an outer diameter of 280 mm.





CONTINUOUS QUALITY CONTROL

As an integral part of our quality management, we carry out production-related tests for all manufacturing steps.

Thanks to our certified quality assurance system, we guarantee the reliable and constant quality of the processes. Products are inspected for functionality and dimensional accuracy using the appropriate testing equipment, measuring instruments and 3D measuring machines.

FLEXIBLE DELIVERY

... and all this according to the call-offs of our clients

In order to always be able to react to the changes in the market situation as quickly as possible and to provide maximum flexibility for our customers, we offer consignment and buffer storage, JIT as well as Kanban deliveries.



Facts and figures

We consider it important that our extensive product portfolio is easily transparent to our customers, which is why we have summarized the most important key data related to our stamping and high pressure die casting technologies. For other materials that can also be downloaded in PDF format, please visit our websites:

<http://femmuvek.hu/English.html>

www.metallwarenfabrik.com

Do you have more questions? Please feel free to contact our experts, who are at your disposal at the contact details below:

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mg@metallwarenfabrik.com



PRODUCT OVERVIEW

Stators and rotors

for all electric drives e.g. for three-phase, single-phase AC or permanent magnet excited machines or frequency inverters.

Stators and armature plates

for DC machines

Housings and armature plates

for universal motors

Cast rotors

in standard sizes as well as individual rotors on request

IEC standard motors & parts

according to DIN 42673/77

Prototype manufacturing

High pressure die cast aluminum castings

according to customer needs

EXECUTIONS IN SIZES IEC 56-112

Stator and rotor laminations in IEC 56-112 sizes

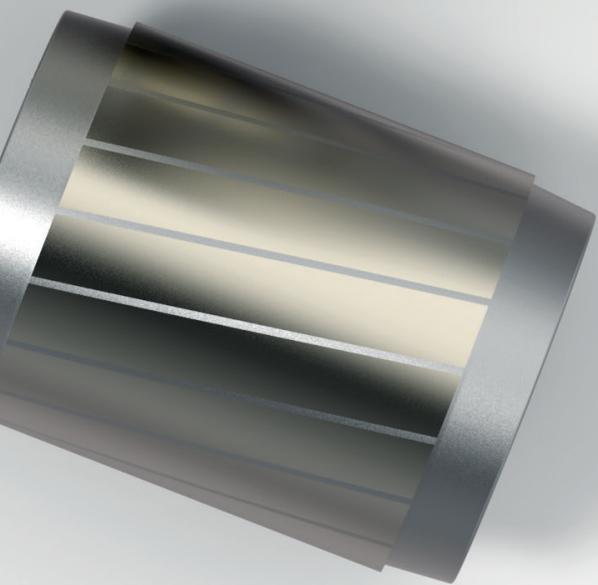
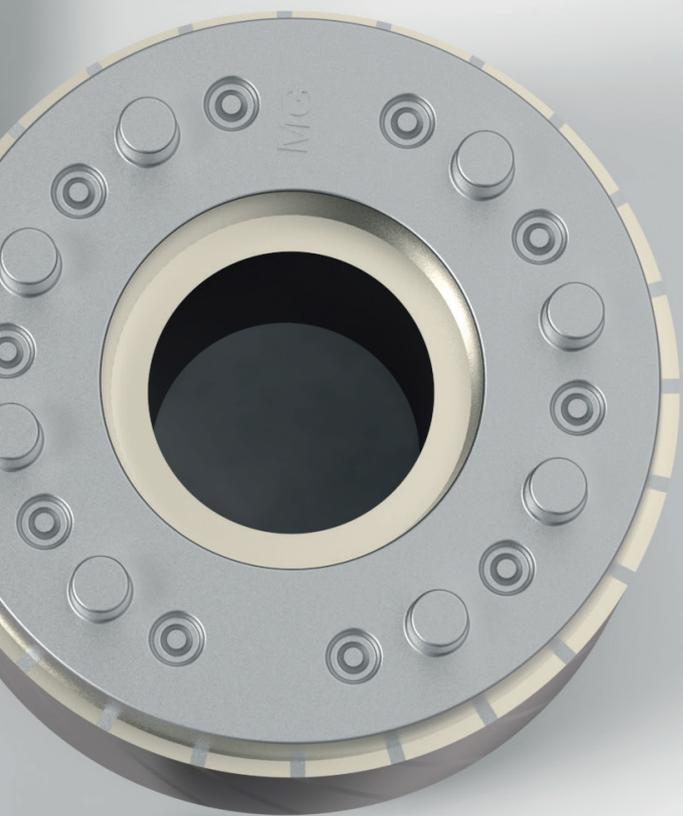
Available in 2-4 and 6-8 pole packages.

Different stator packing methods in punch packed (interlocking), welded, riveted design.

Rotor castings made of pure aluminum 99.7 or Silumin alloy.

Die cast aluminum products for standardized motors in IEC 56-112 sizes

The wide product range includes cast motor housings and bearing shields in versions B3, B5 / 14 as well as flanges and terminal boxes with protection level between IP40 and IP65.



MACHINE PARK

We are proud of our 17 high pressure die casting machines at our sites with closing forces of 300-900 t, our 4 high-speed presses with pressing forces of 110-250 t, our 6 stamping presses with pressing forces of 30-40 t, our machining workshop with 5 axis machine center and CNC lathe, our 4 surface grinding machines and our 2 shot blasting machines.

MANPOWER

In total, we employ about 200 people at our production sites. It is a significant resource that is constantly working on the successful implementation of our clients' projects.

PRODUCTION AREAS AND STORAGE CAPACITIES

In total, we have more than 18,000 m² of production and storage space, which we use to carry out our clients' projects, thus providing the necessary flexibility.

CERTIFICATES

TUV -Rheinland ISO 9001
SGS/Hungary ISO 14001





DO YOU HAVE FURTHER QUESTIONS?

Our qualified consultants are at your disposal and will answer your questions in detail.

Feel free to contact our staff on weekdays from 7 a.m. to 4 p.m.

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