



2022|23

**The driving force
for individual drive solutions**

www.fischer-elektromotoren.de

Fischer Elektromotoren
TOMAS083-051-080
Typ: ...
UdN: 320 V
n_{syn}: 4500 U/min
4,5 Nm
22,6 mm
Serien-Nr.: U11 001
Ident-Nr.: ...
IP: 07 Acrt
Gewicht: 2,4 kg
Luftgekühlt
FISCHER CE

Innovation with dynamics
made in Baden-Württemberg,
Germany



YOUR IDEA IS

WHAT DRIVES US

Creative, competent, experienced – take our word for it.

As a mid-sized family business, we have been successful for three generations as a manufacturer of electric motors with competence and passion. Our solutions are different because we fundamentally regard the wishes and requirements of our customers as a personal challenge. We are passionate, innovative believers when it comes to the development and production of electric motors.

Our success is based on the experience and enthusiasm of all our employees for first-class solutions and outstanding quality.

Creating intelligent solutions together.

Regardless of whether we develop ourselves or produce on the basis of customer plans, our credo is: it must be perfect at the end! Quality and precision are indispensable guidelines for Fischer Elektromotoren. Where there is room for improvement, we take the liberty of addressing it. In addition, we are open to external impulses for optimisation, because we always want the one hundred percent solution.



Quality management by conviction

Quality assurance is an integral part of all work processes: from administration to procurement, and from order fulfilment and production to delivery.



04 05

Reliable partner



We are so free – thanks to our enormous manufacturing depth.

There are several reasons why we are always associated with special, individual solutions. In addition to our partnership-based customer orientation, our enormous manufacturing depth plays a major role in this. Since we work almost autonomously from cable assembly to toolmaking, we can approach planning and development in a completely free way. From prototype to series production, we are practically not dependent on third parties at all. Our customers appreciate this.



A photograph of two men in a workshop setting. The man on the left is younger, with short brown hair and a goatee, wearing a black t-shirt with the 'FISCHER Elektromotoren' logo. He is smiling and looking at a small grey component he is holding. The man on the right is older, with white hair and glasses, wearing a white shirt and a dark vest. He is also smiling and looking at the component. They are both holding black cylindrical electric motor units with wires protruding from the top. The background shows a workshop with various tools and equipment.

Together we win

We are convinced of this as a partner and team player.

For us, it makes a big difference whether you work for or with one another. We are passionate team players, because experience has shown that intensive cooperation with our partners and clients is the best basis for implementing exemplary solutions. From development to production, exchange at eye level is important to us. We also regard strong and efficient cooperation as the basis for outstanding solutions in terms of value creation, sustainability and quality. When we combine the knowledge potential of our customers with our expertise, very special products and results are possible. If the common aim is to achieve excellence, then this approach is the best way.



Technical consulting



Development | Design



Prototyping | Test field

The interplay of experienced pragmatists and innovative engineers is what makes our consulting quality so special. Because we always think from the detail to the whole, we make sure that you get exactly the electric motor that you actually need.

We offer development, prototyping, production and integration services from a single source. Of course, we also take care of the entire development service for individual electric motors, taking into account all design specifications.

Trailblazing development work requires good prototyping and comprehensive test field options. Our services include the production of pilot series and the construction of prototypes. In addition, several test benches are available for prototype testing and series inspection.



Synchronous winding technology

We like to keep things in our own hands. Whether small batch sizes or series production in large quantities – we convince with cost-effective solutions.



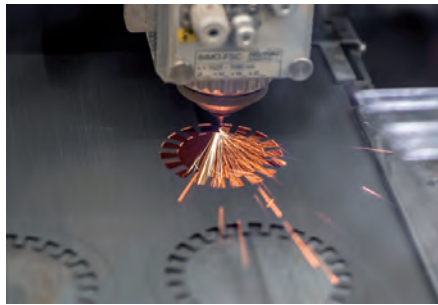
Asynchronous winding technology

Of course, we can also meet almost any customer requirement in the production of asynchronous motors from batch size one to large-scale production.



Toolmaking

Almost all the parts and tools that we need for the production of electric motors are manufactured in our own tool shop. This makes us independent and efficient.



Mechanical manufacturing

With our state-of-the-art systems and processes, we combine cost-effectiveness, efficiency and quality.



Assembly

Every assembly step is part of the final product quality. We have taken quality assurance to the extreme here.



Magnet installation

We also carry out this work in-house because it makes us more efficient and cost-effective.



Cable assembly

As part of our enormous manufacturing depth, our in-house cable processing contributes to greater flexibility and productivity.



Our efficient production is the key to real success stories

Our manufacturing: automated, comprehensive and very efficient.

We want to serve the needs of all customers in the best possible way. The degree of automation in our electric motor production is high, but we also rely on state-of-the-art manual workstations and semi-automation.

We are developers, system providers and manufacturers all in one. For this reason, we have an enormous manufacturing depth that leaves plenty of room for special solutions. Fischer electric motors are manufactured with maximum precision and quality.

„Our efficient and high-performance production is the key to first-class and reliable products. With our extensive and modern production facilities, we ensure compliance with the highest standards.“

Maximilian Fischer, Managing Director

We take care of complex tasks, from development and prototype production to series production and the final functional testing of electric motors. That's why we are so comprehensively and efficiently equipped at our locations in Allfeld and Billigheim.



Drive is

our passion

**From the individual idea to
series production. Take a look
at our product range.**



Torque motors as internal rotor motors, equipped with permanent magnets (neodymium magnets). These direct drives are also known as permanent magnet synchronous machines.



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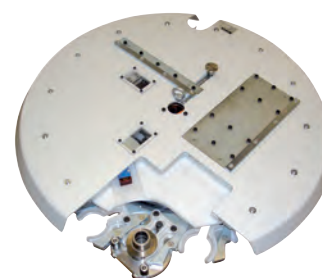
Linear motors
Synchronous linear motors as direct drives with permanent magnets (neodymium magnets).



Drilling and milling motors
These high-speed synchronous motors are particularly suitable for industrial drilling and milling applications.



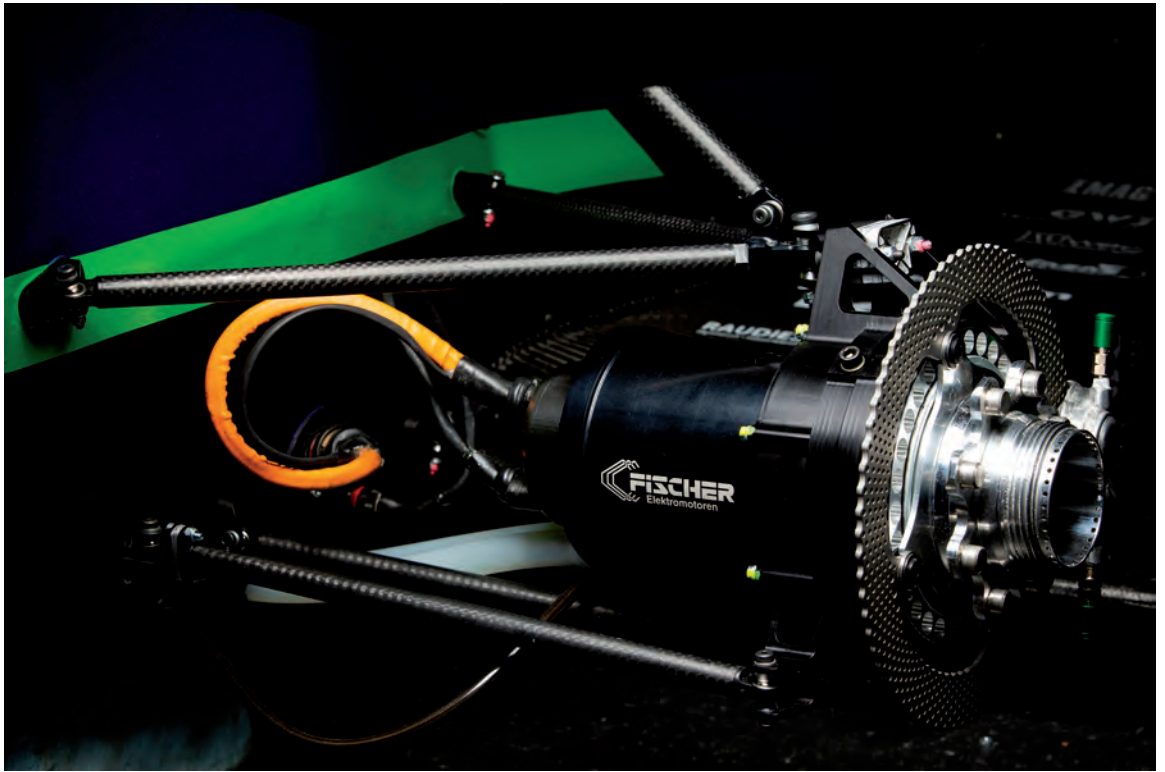
Saw motors
in a disc rotor design are particularly slim and also belong to our extensive portfolio of direct drives with permanent magnets.



Tool changer
Your advantage with our direct drive system.

12 13

Formula Student



You can also drive on new ways.

We have been involved in Formula Student since 2014. We are not only attracted to this very special racing series for reasons of a passion for motor racing, but also because it unlocks enormous development potential. Completely detached from classic project tasks, we can drive research and development for electric drives forward and apply them directly. Unusual ideas and solutions are subjected to a real endurance test in Formula Student in the form of prototypes or small series in motor racing action.

As an electric motor manufacturer, we enjoy the interaction of old hands with budding engineers and technicians. The associated transfer of knowledge with the universities is a real win-win situation for everyone involved.

Innovation and inspiration

Innovation is a skill that does not require magical powers, but rather creativity and the courage to tackle new things. And it is precisely this combination that we find around Formula Student. Here, it is not only the available financial resources that determine the approach to a solution and success. Precisely because endless resources are not available, it is important to be more creative, more unconventional and more innovative.

We are sure that everyone involved benefits from our involvement as well as the challenges of Formula Student.





Good equipment and competent personnel are the hallmarks of a good repair shop.

We carry out vendor-independent repairs and services, because we are of the opinion that professionally performed repairs with final functional testing and certification are in many cases cost-effective, sustainable and resource-saving. Our repair shop enjoys a first-class reputation, because our specialists for maintenance and repair often get even supposedly hopeless cases up and running again.

The repair shop at Fischer Elektromotoren has excellent equipment as well as a competent and experienced workshop team. Of course, all motors, assemblies and systems are tested on the test bench after repair in accordance with VDE regulations and an acceptance report is drawn up with all measured data.

We take care of the professional repair of:

- electric motors
- generators
- brakes, clutches
- fans
- power tools
- DC motors
- gear motors
- pumps
- generator sets
- servo motors





Service, maintenance and repairs.

That's what we do.

We repair motors, gearboxes, clutches and much more in just the same reliable and quality-conscious manner as we manufacture new motors. With our special know-how for preventive maintenance and repairs, we significantly extend the life cycle of many technical systems.



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