The ESKAM-Project

Research and Development:

BMBF-joint project **ESKAM**
Electrically **SK**alable **A**xial Drive **M**odule

The Company Groschopp AG, in cooperation with six midsize-industrial companies and four research institutions, is developing an axial drive module for the application in electrically driven vehicles.

The basic idea is to design and produce two high-speed motors, combined with a double-reducer gear and a suitable power electronics unit (to be developed), as an axial drive module.

A lightweight-design is envisaged at the outset as a cost-effective and energy-efficient solution. The runtime for the project has been calculated as lasting three years. The project is Government-funded by the BMBF under the synonym **ESKAM**.

GEFÖRDERT VOM

Bundesministerium
für Bildung
und Forschung

GROSCHOPP

GROSCHOPP AG
Drives & More

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Drives for your E-Mobility

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Innovative Drive-module for E-Mobility

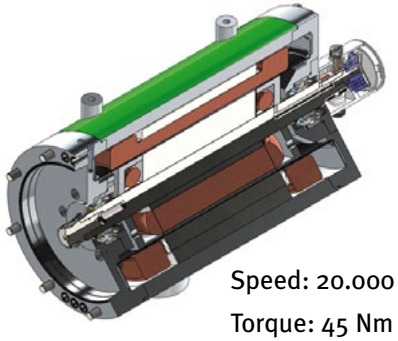
The complete drive-module for the front- and/or rear axle comprises two oil-cooled electric motors with reducer gear and electronics. The base of the structure is an innovative sub-frame. Seven notable mid-size-industrial companies, in cooperation with one Fraunhofer-Institute and three Universities, have developed this drive-module.

These newly developed electric motors do not depend on expensive permanent magnets and achieve a far better efficiency during the actual driving operation compared with traditional electric motors.

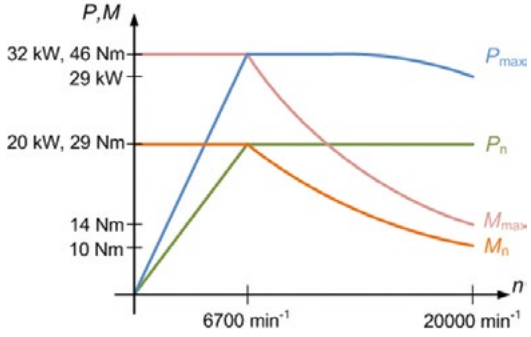
Various application scenarios are possible for this drive-module.

It is also possible to retrofit existing vehicles, having internal combustion engines, to operate them electrically, or even to re-model them into a Hybrid vehicle. It is also possible to use this drive-module in small batch series for new vehicles, e.g for inner city motor cars or in luggage- or small transport-vehicles.

Technical Data



Speed: 20.000 min^{-1}
Torque: 45 Nm maximum
Output: 32 kW maximum
Weight: 25 kg

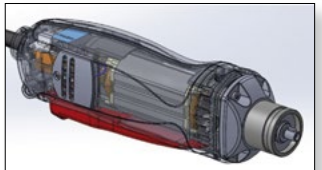


Standard components are not sufficient for the realisation of certain products. Therefore, it is much better to avail of a manufacturer who designs, develops, produces and installs customer-tailored drive solutions.

Drive solutions, customer-tailored according to your requirements

Application

Our Team supports you in your design both in layout and in choosing the correct drive system. In that way, customer-tailored solutions are found that are suitable for any particular application.



Development

Experienced engineers study newest developments and compare them with proven technologies. Any innovative idea is included in the product portfolio only after a thorough scrutiny and validation has been completed successfully. In the process, most modern equipment is used by the interdisciplinary teams involved.

Rapid Prototyping & FEM

In order to shorten the development cycles and to accelerate the validation of a particular application on request of the customers involved, Groschopp relies on the technologies of the ‘Rapid Prototyping’ and of the ‘Calculation of finite elements’ (FEM).

Quality-Management System

Groschopp’s name is synonymous with quality. In order to maintain this high standard, the documented processes are reviewed on a regular basis and as part of the general audit. In that way, strict guidelines are established and adhered to, so as to guarantee future leadership in quality assurance.

Prüf- und Überwachungsgesellschaft
PÜG
DIN EN ISO 9001
Qualitätsmanagement