

Efficient. Compact. Powerful.

# Efficiency Line



GROSCHOPP 



# A special surface coating

## Efficiency Line

**Drives are multi-functional.** Every individual application has its own requirements. Especially in the light of frequent cleaning and corrosion resistance of drives, motors in aluminium housings are available with different coating.

For standard requirements with regard to motor surfaces, a normal painting is sufficient, while this is not enough in harsh environmental. To utilize such applications, a special electrolytic sealing of the motor housing delivers the required protection. Groschopp uses various standard surface coating methods for the protection against corrosion and erosion of the housings. With this process, the very good heat-characteristics and the advantageous price-performance-ratio of the motor will retain.

A favoured method is known as 'hard-coating', whereby an oxidation is generated on the surface, creating a densification of the material. Additional surface blasting using sand or glass-beads makes the surface even less dirt resistant.



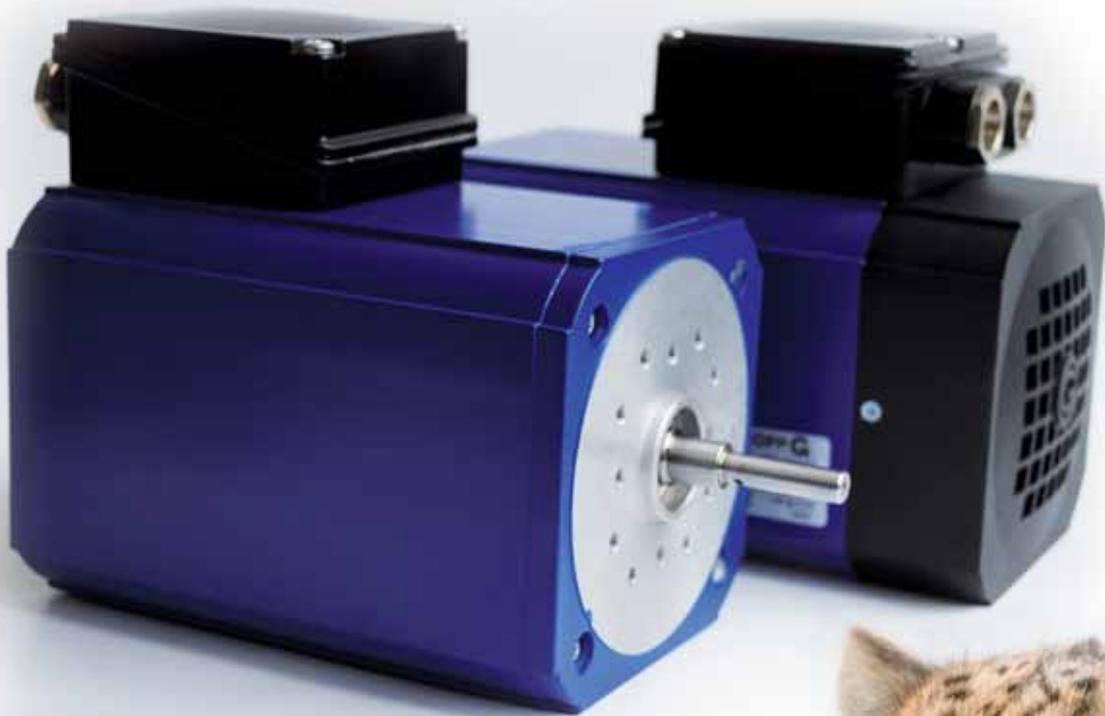
# Efficient. Compact. Powerful.

## Efficiency Line

With the new model range **Efficiency Line** a product line has been created, which either complies or even exceeds today's demands of efficiency classifications. This optimisation of efficiency for induction motors is generated on the basis of the "Finite Element Calculation Method".

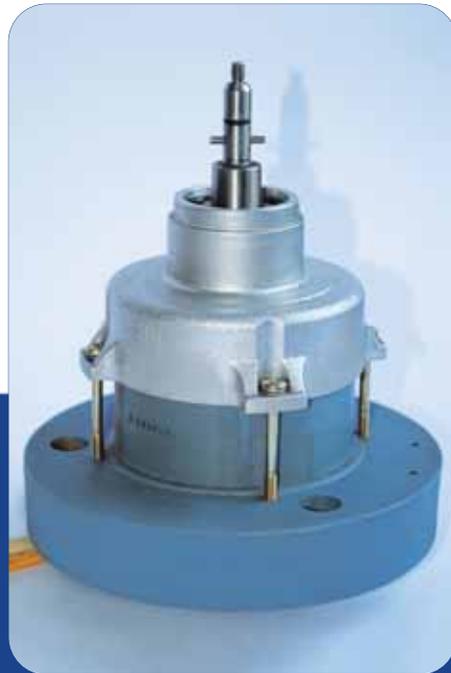
This results in convection-cooled or fan-cooled induction motors, which cover a wide range of applications. Noticeable is the compact design and the smooth surfaces of all motors. A distinctive feature is the design of the housing without additional fins, of which internal air ducts serve for rapid and improved heat dissipation.

As a special service, we also offer solutions for all motors, which are designed for an optimised working point of any particular application.



# Induction-Skeleton-Motors IEK/IEL

- Convection- or fan-cooling
- Cost-effective skeleton motor
- Notably more output by smaller model volume
- Minimal losses lead to an optimal efficiency
- Energy savings compared to standard motors
- IP00 or IP40 / insulation class F
- Compatible with all Groschopp-gears
- Can be combined with gears from other manufacturer
- Optimal possibilities with brakes, encoder systems etc.
- Up to 30,000 r.p.m.



# Induction-Housing-Motors IGK/IGL

- Convection- or fan-cooling
- Notably more output by smaller model volume
- Minimal losses lead to an optimal efficiency
- Energy savings compared to standard motors
- IP54 or IP65 / insulation class F
- Compatible with all Groschopp-gears
- Can be combined with gears from other manufacturer
- Options like brakes, encoder systems etc.



# Groschopp AG

**Groschopp is a leading manufacturer in the area of electric drive techniques.** The company develops, manufactures and distributes customer-tailored solutions by taking into account long-term experience and an excellent quality commitment. Especially as an OEM-supplier, Groschopp explores new paths and as such setting standards in drive applications.

Call us to find out more.

Groschopp AG

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