



„A motor with optimised service life?
That’s when I called Elektrosil.“

In the supermarket, the opening and closing of the swivel barrier is ensured by means of an integrated geared motor.

Elektrosil developed a clever motor solution that was precisely matched to the system.

THE CHALLENGE

One motor for 2 million cycles: The customer was looking for an efficient and cost-friendly alternative for the access barrier drives of a control system. Elektrosil took on the task of finding a suitable motor model with appropriate dimensions. The objective was a motor with adapted performance data, customised connection cable and an improved service life.

THE SOLUTION

Thanks to in-depth knowledge of gear motors and extensive contacts with manufacturers, the Elektrosil team found a suitable model in accordance with the technical specifications. The motor had ideal dimensions and, with its cylindrical shape, fitted perfectly into the tubular frame of the barrier. To achieve the longer service life, highly stressed components of the standard motor were replaced: the carbon brushes and the bearing were replaced by wear-resistant components. The new motor solution confirmed its endurance in a sensory load test. The drive performed the opening and closing operations over the 2 million cycles requested by the customer. The engineers

also used a specific cable and connector solution for the connection by attaching the contacts to the side of the housing. This allowed the entire actuator, including connections, to be inserted into the tube and facilitated easy maintenance. The entire project took about half a year, during which the team continuously communicated with the customer.

Elektrosil’s development not only replaces the previous model but surpasses it in terms of service life and maintenance characteristics.

OUR STRENGTHS

- Great expertise in the areas of drive technology and cable assembly
- Customer proximity with daily coordination & updates
- One-stop shop: From consulting to development and simulation to manufacturing and delivery

Are you also looking for a custom-fit solution for your system and a competent partner? Then give us a call: +49 40 840001-0.

Project information

- Client: A manufacturer for innovative solutions in buying and selling
- Project size: > 10,000 units per year
- Sector: Vending (Retail), POI/POS
- Product area: Drive Technology
- Services: Customised drive modification, organisation of assembly production, load tests

Elektrosil’s services

- Application consultation, development assistance, design-in support
- Quality assurance
- Engineering and production
- Completely customised applications