Media Release

Mechatronic drive system in elevator doors.

Maxon brushless DC motors and encoders drive lift doors open and closed.

Schindler is a well-known manufacturer of elevators and lifts, moving more than one billion people every day. When we take the lift, we press the button, the cab arrives, we enter and disembark at the desired floor. What is a simple event has alot of technology in the undertaking – in the elevator shaft, motor chamber, control box and in the lift compartment itself.

A motor installed in the cab opens and closes both the doors of the cab and the doors at each particular floor. The requirements of the motor are very specific: small yet powerful, reliable, energy-saving and intelligent. Maxon developed two Door Drives alongside Schindler, using a brushless DC motor with a diameter of 90 millimeters, a MILE encoder combined with the motor and a customised EPOS2 positioning controller. With two power levels, the more powerful version uses a belt drive and is able to move doors weighing up to 400 kilograms. The smaller and latest version is more compact and moves doors weighing up to 120 kilograms.

Encased in a housing, the Door Drive can be mounted directly onto the lift cab. And this is where its real work starts. The ability to adapt to the many different types of elevators, with differently sized cabs, different materials and, depending on the country, different safety standards. After a calibration procedure, the controller of the Door Drive detects the size and weight of the doors, autonomously calculates the optimal parameters corrects them if necessary and drives the doors open and closed.

For more information on applications where DC motor technology needs to be powerful, compact, reliable and intelligent please contact maxon motor Australia on tel. 61 2 9457 7477.

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The media release is available on the internet at: www.maxonmotor.com.au
Mechatronic system

The drive solution for elevator doors consists of a brushless flat DC motor (90 mm diameter), an integrated MILE encoder and a customer-specific positioning controller based on the EPOS 2 series. © maxon motor

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