



Airport Madrid-Barajas

GEZE Powerdrive and variations

Automatic sliding door systems



BEWEGUNG MIT SYSTEM

The Powerhouse.

Convenience and safety even for heavy doors are the trademarks of the Powerdrive line.

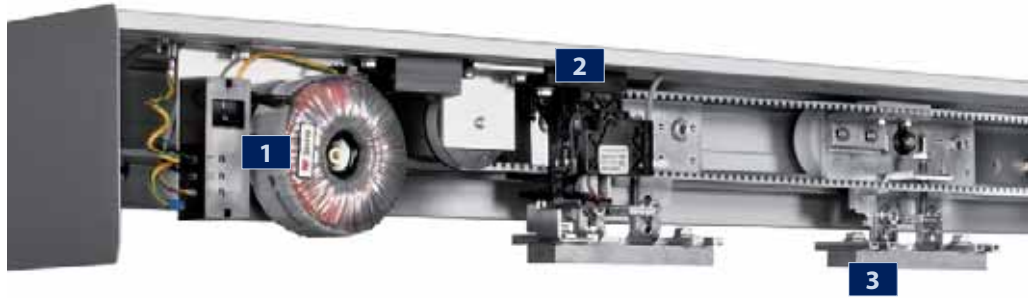
Large entrances and opening widths together with high leaves make specific demands on door drive technology, and this is precisely where the strong points of the Powerdrive are.

The economical yet high-capacity Powerdrive can move „out of the ordinary“ door leaves up to 200* kg in weight. The Powerdrive offers the appropriate drive for large-size openings, specific door leaf structures and difficult special fillings in standard and escape route designs.

DIN 18650 – Standard fulfilled

A uniform standard was created with DIN 18650 to guarantee optimal safety to the operators and users of automatic doors. Naturally the GEZE Powerdrive sliding door systems were type-tested and certified in accordance with DIN 18650.

* up to 160 kg for escape route design



1 Transformer

Low noise development and powerful 200 W.

2 Locking system

The bistable electromechanical locking system with mechanical emergency unlocking is continuously monitored by the control and is thus protected from misuse.

3 Roller carriage

Optimal sliding characteristics and minor wear due to the coordinated profiles of the roller and track. Integrated brushes which permanently clean the rollers (self-cleaning roller carriage) ensure high service life and reduced noise development.

4 Control

The self-learning 16-bit microprocessor control adapts the operating parameters to the environmental conditions and uses CAN bus to communicate with other GEZE products. Always up-to-date because of the easy software update possibilities, and well-equipped in control engineering even for future developments.

5 Battery

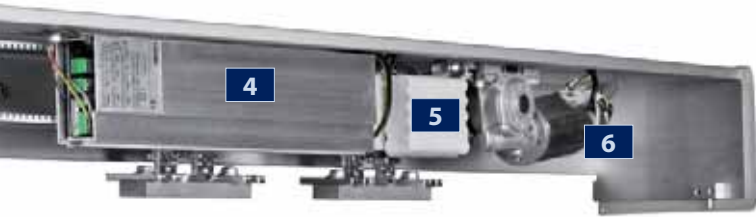
In case of emergencies, the light and compact NiMH battery enables the door to be temporarily opened or closed even without an external power supply.

6 Motor

Powerful motor with 400 Ncm and encapsulated gear, low-noise.



Hotel Kempinski, Antalya



Actuation

- ▶ Radar motion detector
GC 302 R and GC 302 SV
- ▶ Radar multi-sensor detector with light curtain
Activ R und S, Jupiter R and SV

Safety during closing

- ▶ Active infrared light curtain
Activ R and S, Jupiter R and SV
- ▶ Safety light barrier
GZ 472 V or GZ 470 V

Safety during opening

- ▶ Active infrared light curtain
Iris S or Presence S
- ▶ Active AIR 30 infrared sensor

With respect to all other standard specifications, these sensors can also be utilised for escape and rescue routes.

Extensive range of use

Powerdrive sliding door systems are suitable for:

- ▶ single- and double-leaf doors,
- ▶ with thin-framed leaves, of ESG (single thickness safety glass) and ISO glass (up to 120 kg),
- ▶ and with frame panels of metal, plastic or timber up to 200* kg
- ▶ inside and outside doors.

Safety

The Powerdrive is optimally equipped for use in escape and rescue routes as well. Whether as FR variation with redundant 2-motor technology that will not let the user down even in case of emergencies, or as break-out solution: the Powerdrive always offers the highest degree of safety.

* up to 160 kg for escape route design

Variation variety

To meet the most diverse requirements, the Powerdrive is available in a multitude of variations:

- ▶ **Powerdrive PL**
The high-capacity sliding door system for large and heavy doors
- ▶ **Powerdrive FR**
For escape and rescue routes
- ▶ **Powerdrive FR-RWS** (approved by TÜV)
Constantly self-supervised system which immediately goes into a safe condition as soon as an error is registered somewhere
- ▶ **Powerdrive FR-LL**
Closing time (one way) in escape route locked single fault secure and constantly self-supervised system which immediately goes into a safe condition as soon as an error is registered somewhere
- ▶ **Powerdrive FR-DUO**
Two escape route directions
- ▶ **Powerdrive BO**
In an emergency, the door leaves and side elements can swing out in the direction of the escape route (break-out) to clear the maximum escape route width
- ▶ **Powerdrive HT**
Hermetic sliding door system for use in clean rooms

	Powerdrive PL	Powerdrive FR, FR-RWS, FR-LL, FR-DUO	Powerdrive BO	Powerdrive HT
Drive dimensions (height x width)	150/200 x 185 mm	150/200 x 185 mm	150/200 x 185 mm	300 x 185 mm
Opening width	700 - 3000 mm (Single-leaf) 800 - 3000 mm (Double-leaf)	700 - 3000 mm (Single-leaf) 800 - 3000 mm (Double-leaf)	900 - 1400 mm (Single-leaf) 1000 - 2400 mm (Double-leaf)	700 - 1400 mm (Single-leaf)
Max. passage height	3000 mm	3000 mm	2500 mm	2200 mm
Max. weight per door leaf	200 kg (Single-leaf) 180 or 200* kg (Double-leaf)	160 kg (Single- and double-leaf)	100 kg (Single- and double-leaf)	100 kg (Single-leaf)
Max. opening speed	0,7 m/s (depending on leaf weight)	0,7 m/s (depending on leaf weight)	0,6 m/s	0,5 m/s
Max. closing speed	0,5 m/s	0,5 m/s	0,4 m/s	0,5 m/s

* Possibly increased opening and hold-open times

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