

## Type Approval Certificate (English Issue) P-4061/14

**Applicant:** GEZE GmbH  
Reinhold-Vöster-Straße 21-29  
71229 Leonberg

**Manufacturing plant:** GEZE GmbH  
Reinhold-Vöster-Straße 21-29  
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**Type:** Door drive for swing doors  
Different versions with roller levers / link arm and wing weights in the boundary areas of the permissible use (see diagram areas of application)

**Approved design:**

- Automatic door drive for single swing doors DIN left or right
- Automatic door drive for double-leaf swing doors, consisting of two electrically interconnected drives
- Door drive unit for double-leaf swing doors, consisting of one automatic door drive and one door closer type GEZE TS 4000 with link arm or GEZE TS 5000 L with guide rail.

**Types:** The door drive can be realized in several variations, according to the respective requirements as well as in combination with a door closer. The appropriate type designations and permissible variations are given below:

### **GEZE Powerturn**

One-leaf / double-leaf door drive for swing doors

Permissible mounting types:

- Transom installation hinge side with roller guide rail (KM BS RS)
- Transom installation opposite hinge side with link arm (KM BGS ST)
- Transom installation opposite hinge side with roller guide rail (KM BGS RS)
- Door leaf mounting hinge side with roller guide rail (TBM BS RS)
- Door leaf mounting opposite hinge side with roller guide rail (TBM BGS RS)
- Door leaf mounting hinge side with link arm (TBM BS ST)

### **GEZE Powerturn F**

One-leaf / double-leaf door drive for swing doors on fire doors

Permissible mounting types:

- Transom installation hinge side with roller guide rail (KM BS RS)
- Transom installation opposite hinge side with link arm (KM BGS ST)
- Transom installation opposite hinge side with roller guide rail (KM BGS RS)
- Door leaf mounting hinge side with roller guide rail (TBM BS RS)
- Door leaf mounting opposite hinge side with roller guide rail (TBM BGS RS)
- Door leaf mounting hinge side with link arm (TBM BS ST)

### **GEZE Powerturn F/R**

One-leaf / double-leaf door drive for swing doors on fire doors with integrated smoke switch control unit

Permissible mounting types:

- Transom installation hinge side with roller guide rail (KM BS RS)
- Transom installation opposite hinge side with link arm (KM BGS ST)
- Transom installation opposite hinge side with roller guide rail (KM BGS RS)

### **GEZE Powerturn F-IS**

Double-leaf door drive for swing doors on fire doors with integrated closing sequence.

Permissible mounting types:

- Transom installation hinge side with roller guide rail (KM BS RS)
- Transom installation opposite hinge side with link arm (KM BGS ST)
- Transom installation opposite hinge side with roller guide rail (KM BGS RS)

### **GEZE Powerturn F/R-IS**

Double-leaf door drive for swing doors on fire doors with integrated smoke switch control unit and integrated closing sequence

Permissible mounting types:

- Transom installation hinge side with roller guide rail (KM BS RS)
- Transom installation opposite hinge side with link arm (KM BGS ST)
- Transom installation opposite hinge side with roller guide rail (KM BGS RS)

### **GEZE Powerturn IS/TS**

Double-leaf door, active leaf with automatic door drive, passive leaf with door closer and integrated closing sequence

Permissible mounting types:

- Transom installation hinge side with roller guide rail (KM BS RS)
- Transom installation opposite hinge side with link arm (KM BGS ST)

### **GEZE Powerturn F-IS/TS**

Double leaf door, active leaf with automatic door drive, passive leaf with door closer and hold-open device and integrated closing sequence on fire doors

Permissible mounting types:

- Transom installation hinge side with roller guide rail (KM BS RS)
- Transom installation opposite hinge side with link arm (KM BGS ST)

### **GEZE Powerturn F/R-IS/TS**

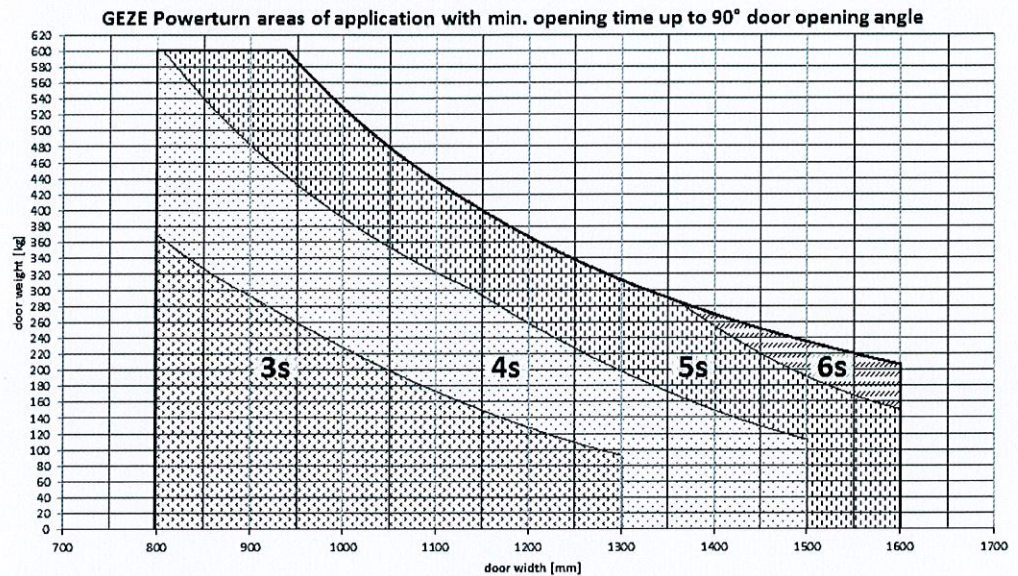
Double leaf door, active leaf with automatic door drive, passive leaf with door closer and hold-open device on fire doors with integrated smoke switch and integrated closing sequence

Permissible mounting types:

- Transom installation hinge side with roller guide rail (KM BS RS)
- Transom installation opposite hinge side with link arm (KM BGS ST)

The permissible field of application of the door drives with link arm or roller guide rail is dependent on the leaf wide and the leaf weight and in the following diagrams.

Maximum Field of application GEZE Powerturn:



<b>Technical Data:</b>	Nominal Voltage:	230 V AC, 10-14 %
	Nominal Frequency:	50/60 Hz
	Nominal Power:	max. 200 W
	Temperature Range:	- 15 °C up to + 50 °C
	Protection Class:	IP 30

**Permitted Modes:** The swing door drives of the type " GEZE Powerturn, GEZE Powerturn F, GEZE Powerturn F-IS, GEZE Powerturn F/R, GEZE Powerturn F/R-IS, GEZE Powerturn IS/TS, GEZE Powerturn F-IS/TS, GEZE Powerturn F/R-IS/TS " have the following operating modes:

- Off
- Night
- Shop closing
- Automatic
- Permanently open

**Testing based on the following:**

1. DIN 18650-1/2: 2010-06  
Locks and metal fittings - Automatic door systems
2. DIN EN 16005: 2013-01  
Power operated pedestrian doorsets - Safe in use
3. DIN EN 60335-1: 2012-10  
Household and similar electrical appliances – Safety  
Part 1: General requirements
4. DIN EN 60335-2-103: 2010-05  
Household and similar electrical appliances – Safety  
Part 2-103: Particular requirements for drives for gates, doors and windows
5. DIN EN ISO 13849-1/2: Date of issue: Part 1: 2008-12; Part 2: 2013-02  
Safety of machinery - Safety-related parts of control systems

All standards, regulations or guidelines named in the above-mentioned basic documents must also be considered valid.

**Conditions:**

1. Swing door drives of the type "GEZE Powerturn, GEZE Powerturn F, GEZE Powerturn F-IS, GEZE Powerturn F/R, GEZE Powerturn F/R-IS, GEZE Powerturn IS/TS, GEZE Powerturn F-IS/TS, GEZE Powerturn F/R-IS/TS" are suitable for dry rooms only and must be marked accordingly.
2. Before the use of automatic swing door drives for the respective use of a hazard analysis and risk assessment carried out. According to the results of hazard analysis and risk assessment of automatic swing door drive must be equipped with the necessary sensors and to take measures to end so that the automatic swing door no risks to the user.  
An application of the drive systems "GEZE Powerturn IS/TS, GEZE Powerturn F-IS/TS and GEZE Powerturn F/R-IS/TS" is only permissible if from the hazards analysis and risk assessment result as a possible residual risk (for example by the door closer) is acceptable.
3. As sensors for activation of the drive and for use as Occupancy sensors are to use the sensors listed in Annex I to run as a type examination certificate-sensor list. The application limits must be observed in accordance with the manufacturer's instructions.
4. The swing door drives / drive systems may only be used for the wing weights, the approved mounting variants and operating modes. The instructions given in the assembly instructions, the user manual and the connection plan must be observed.
5. With each swing door drives / drive systems following documents have to be send out:
  - a template for risk analysis on site,
  - Mounting instructions with:
    - Safety instructions,
    - Information on the application,
    - Information on the installation and commissioning,
    - Declaration of Conformity,
  - Connection plan,
  - User manual:
    - Functional description of the system,
    - Indications of faults and maintenance,
    - Information on testing and their deadlines,
  - a copy of the certificate P-4061/14.
6. Before commissioning automatic swing doors drives of the type "GEZE Powerturn, GEZE Powerturn F, GEZE Powerturn F-IS, GEZE Powerturn F/R, GEZE Powerturn F/R-IS, GEZE Powerturn IS/TS, GEZE Powerturn F-IS/TS, GEZE Powerturn F/R-IS/TS", a test is by a technical expert required with written proof of the testing results.

The door system has to be tested at least once a year by a technical expert. The manufacturer's instructions concerning maintenance intervals must be adhered to.

**Notice:**

1. The installation of an emergency stop (emergency switch) can be omitted.
2. The door system was tested due to durability class 3 (1.000.000 cycles). The door closer was not tested for durability during this test.
3. In the control of the swing door drive was a force limiting actuator system integrated, which limits the static forces to levels  $\leq 150$  N.
4. As a protective measure, the "Low Energy" operation is adjustable. When set correctly, the permissible forces of 67N and the kinetic energy of 1,6J per leaf are not exceeded.
5. The functions door closers operation and Push & Go are possible in the operating modes automatic and shop closing.

6. Proof of the suitability of the swing door drive types "GEZE Powerturn, GEZE Powerturn F, GEZE Powerturn F-IS, GEZE Powerturn F/R, GEZE Powerturn F/R-IS, GEZE Powerturn IS/TS, GEZE Powerturn F-IS/TS, GEZE Powerturn F/R-IS/TS" for use on fire doors, smoke doors or a hold-open was not included in the audit. These performance characteristics are verified by independent technical approvals.
7. This Type Examination Certificate replaces the examination certificate from 2014-10-24. It shall apply until 31.12.2019. If there are significant changes to the technical regulations re-examination may be required.

Zella-Mehlis, 2017-03-13

Association for Technical Inspection (TÜV) Thüringen e.V.  
Test Centre for Building Industry Products

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