GILGEN DOOR SYSTEMS

SWING DOOR DRIVE UNIT
GILGEN FD 10

Compact and reliable drive mechanism for use in areas with heavy footfall. This low-noise electromechanical drive unit comes in an impressively sleek package. It has been TÜV design-type tested on the basis of one million cycles.

- Compatible with single/two-leaf doors and interlock accesses
- Controlled, spring-actuated closure with motor assistance
- The drive mechanism has a built-in travel stop
- The integrated load function guarantees resistance against high wind loads
- Freely selectable Full Power and Low Energy functions in a single drive mechanism
- Assisted-opening option, with servo function
- Terminals for connecting accessories such as locks, security/safety elements or operating controls
- Voltage-free outputs for acknowledgements to, for example, the building management system (via relay PCB)
- Simple to set up and operate via the integrated graphic display screen
- TÜV approved and complies with the pertinent standards and requirements (e.g. EN 16005, DIN 18650)

Range of application

Max. door leaf weight	150 kg
Door sizes single leaf	730 – 1100mm
Door sizes two-leaf	1460 – 2200mm
Max. opening angle	105°
Max. wind speed	see charts*

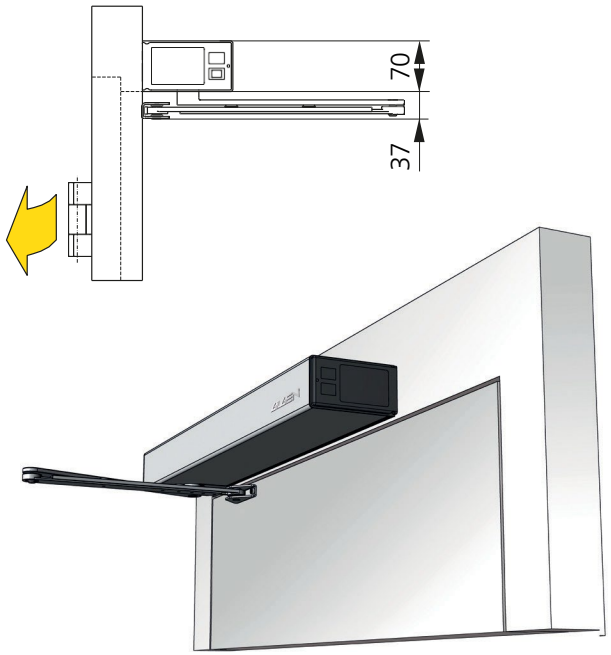
* depending on door size and type of rod

Dimensions of drive system

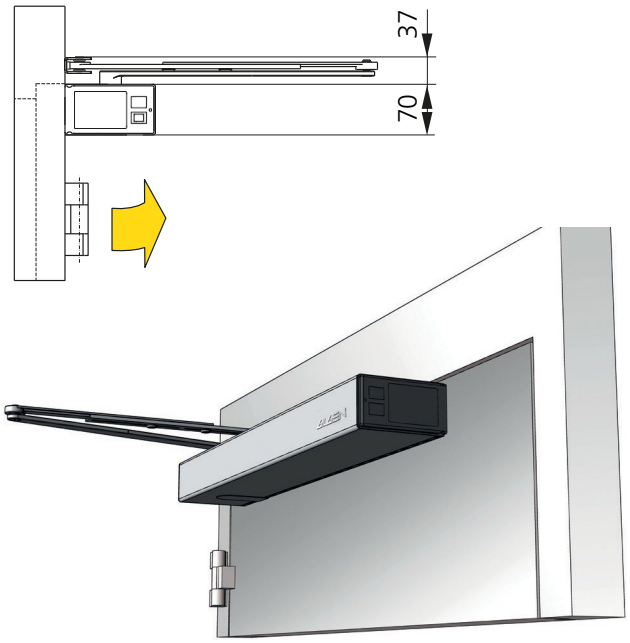
Height	70 mm
Width	730 mm
Depth	125 mm

Possible applications

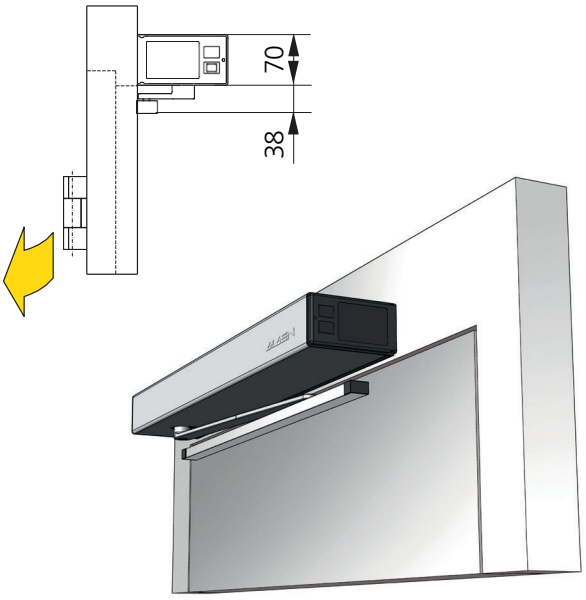
Standard rods with pushing function
Lintel installation



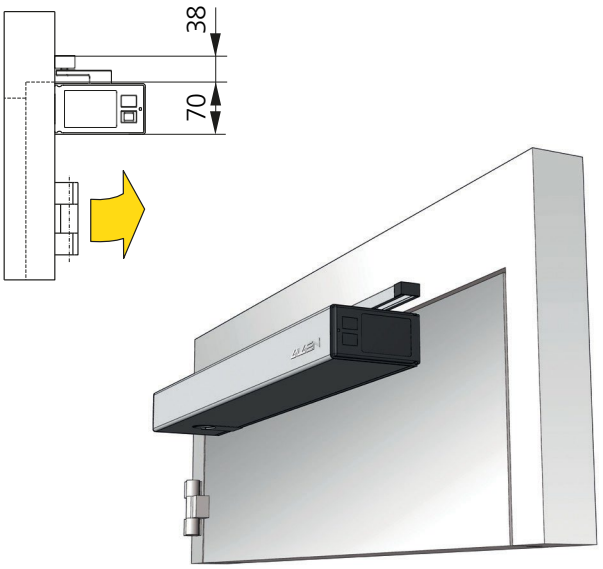
Standard rods with pushing function
Door leaf installation



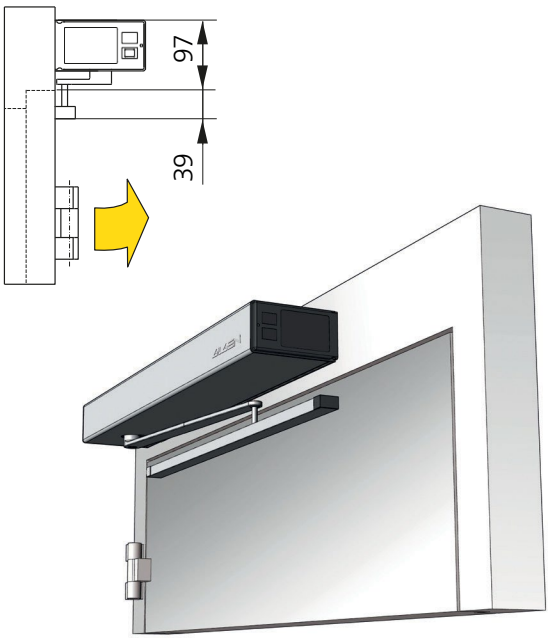
Sliding rods with pushing function
Lintel installation



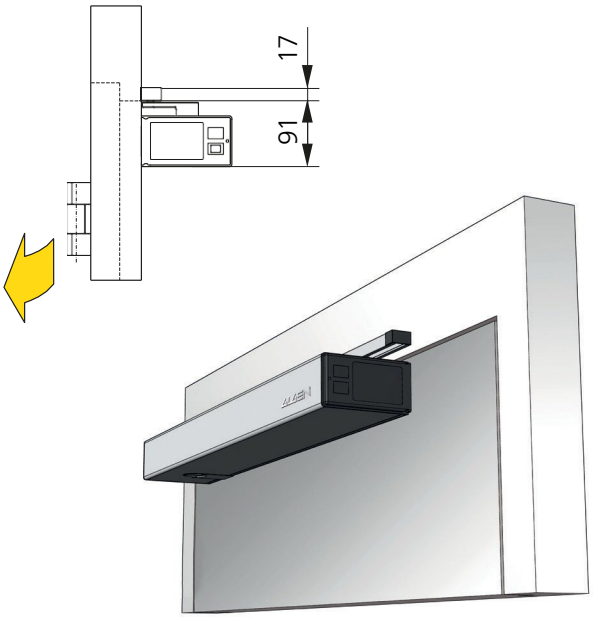
Sliding rods with pushing function
Door leaf installation



Sliding rods with pulling function
Lintel installation

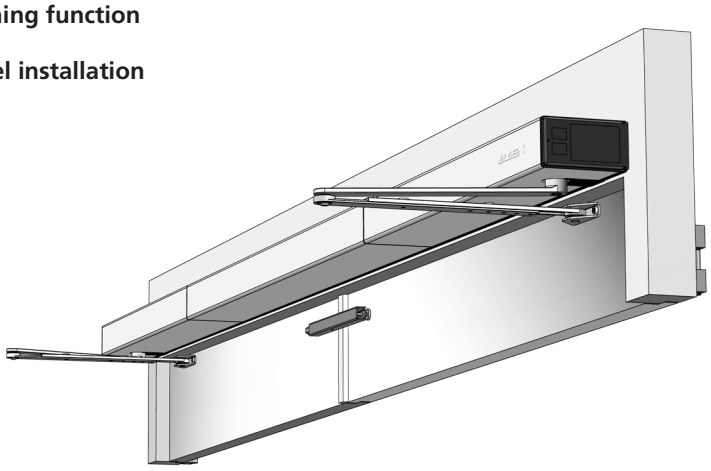


Sliding rods with pulling function
Door leaf installation



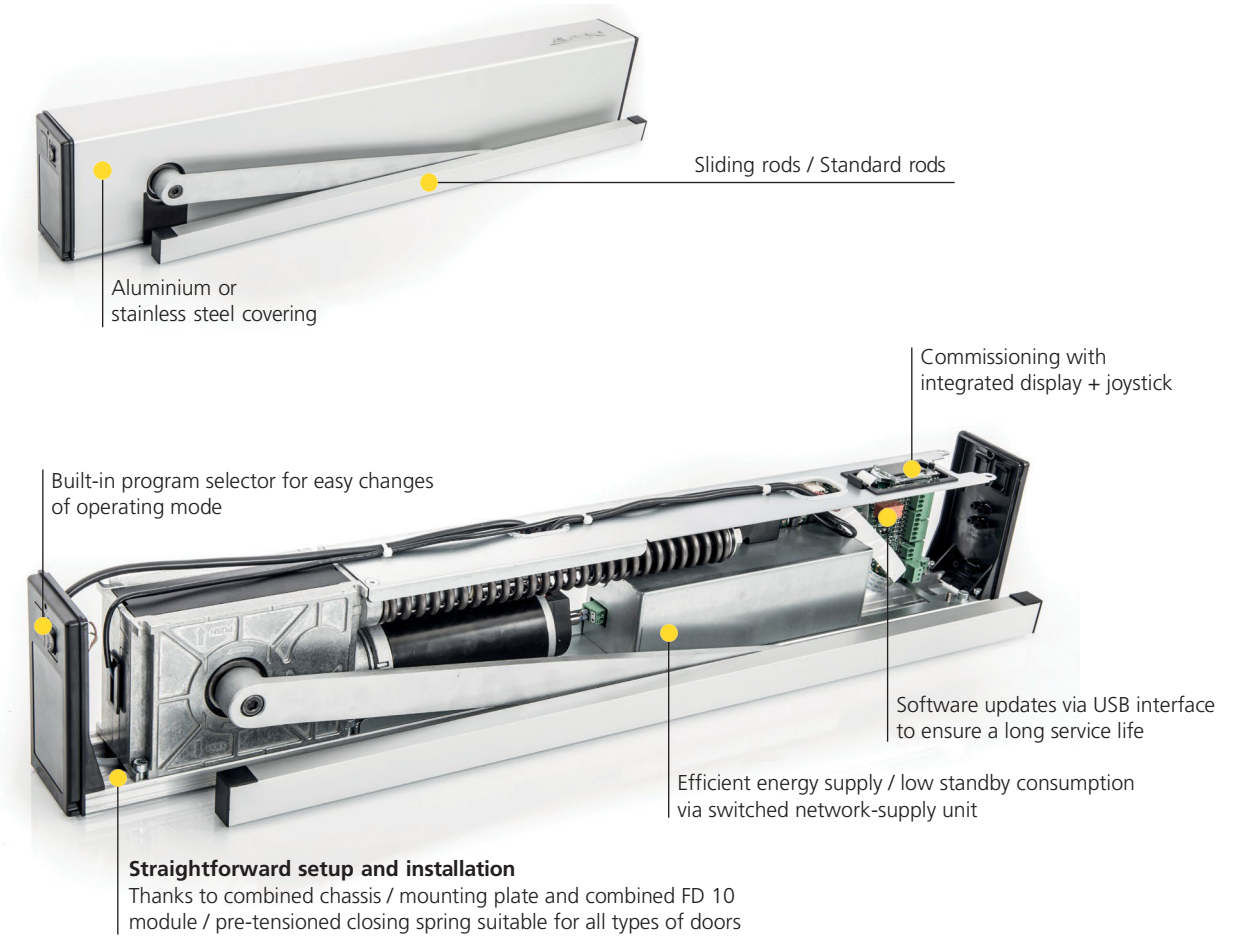
Two-leaf door Standard rods with pushing function

Lintel installation



- Mechanical closing sequence regulator and smoke detector concealed inside the drive system
- The smart mechanical logic system ensures a controlled closing sequence
- Compatible with all installation and rod variants

Technical data



Power transfer	Standard rods (pushing function) Sliding rods (pushing and pulling function)
Weight of drive system	8.2kg
Protection rating	IP 20
Ambient temperature	-15 to +50 °C
Operating voltage	230 VAC (+10/-15 %), 50 Hz, 10/13 A
Power consumption of drive system	max. 350 W
Rated motor capacity	100 W
Stand-by consumption	4 W
Power supply, external user	24 VDC (±10 %), 1,4 A
Lintel depth standard rods	max. 250 mm
Lintel depth sliding rods	-50 / +150 mm
Opening speed	max. 40°/s
Closing speed	max. 40°/s
Relative humidity	max. 85 %
Output shaft torque	permanent max. 56 Nm short max. 165 Nm

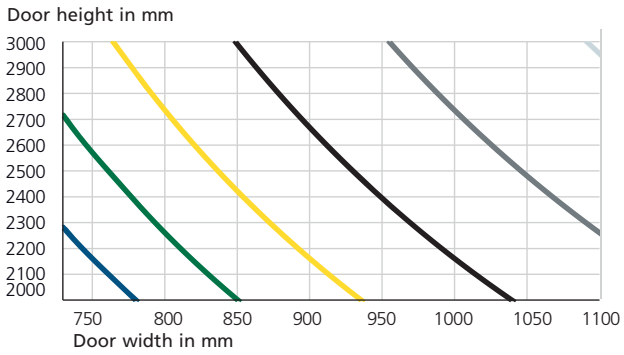
The Gilgen FD 10 withstands high wind-load stresses

The power of the Gilgen FD 10 drive unit for swing doors is sufficient for reliably opening and closing doors even when exposed to high wind speeds.

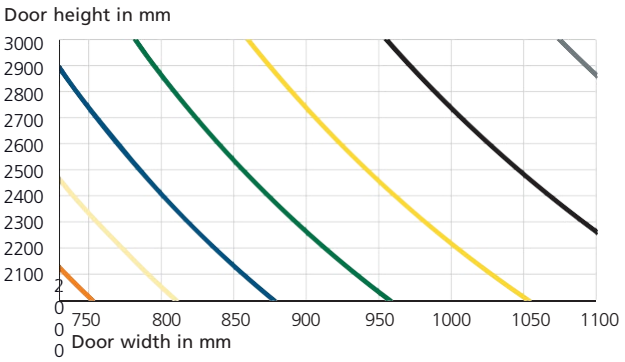
For external doors, Gilgen Door Systems recommends to assume a wind pressure of at least 100 Pa 45km/h). Doors installed in certain exposed locations (e.g. near the sea, in mountainous regions, on observation platforms, etc.) are often subject to higher wind loads.

The data in the following tables correspond to fully-secured doors with safety-sensor systems. The presented application limits result from wind-load, door size and type of rods.

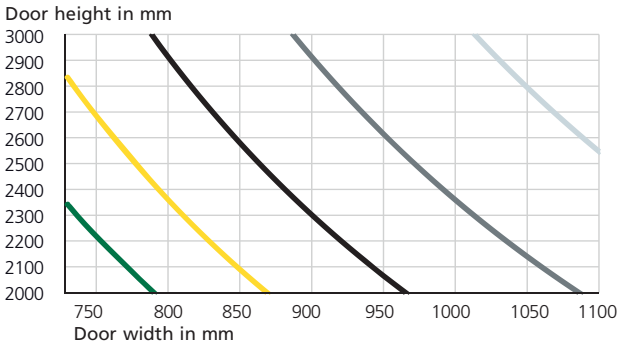
Standard rods with pushing function
Lintel installation



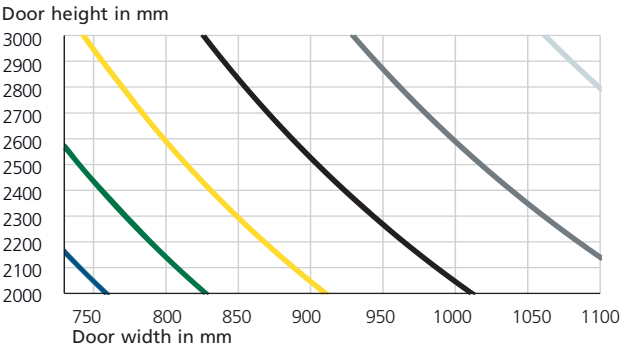
Standard rods with pushing function
Door leaf installation



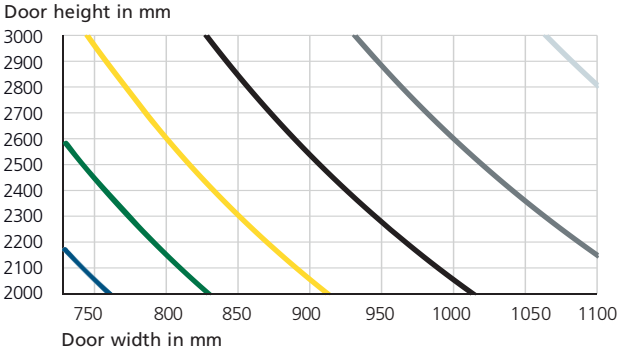
Sliding rods with pushing function
Lintel installation



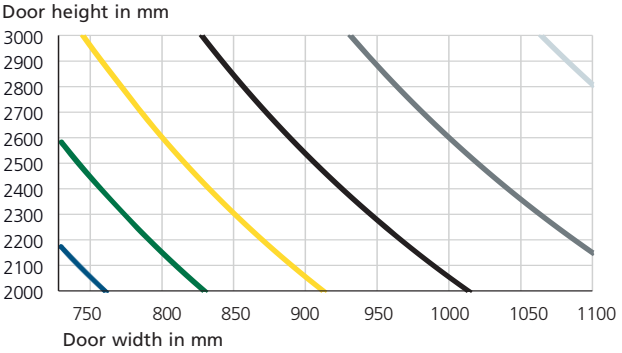
Sliding rods with pushing function
Door leaf installation

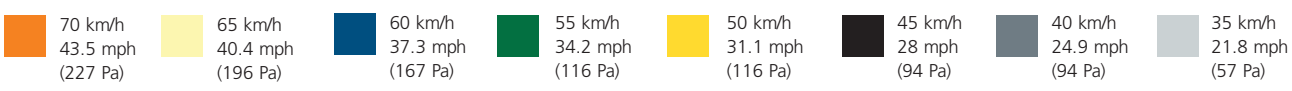


Sliding rods with pulling function
Lintel installation



Sliding rods with pulling function
Door leaf installation





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