

GILGEN FD 20 SWING DOOR DRIVE UNIT

One drive mechanism – many possible applications

The Gilgen FD 20 swing door drive unit is highly consistent when it comes to performance, long service life and quiet running. From lightweight internal doors to heavier external doors designed to withstand high winds – the Gilgen FD 20 is always the right choice!



Advantages of the Gilgen FD 20 swing door drive unit:

Highly versatile and robust

Gilgen swing door drive units are equally ideal for new installations and building upgrades. External doors, internal doors and even fire doors can all be automated with ease.

All the functions – one drive mechanism Full Power and Low Energy operating modes can be selected as desired!

- Electromechanical opening system
- Controlled, spring-actuated closure with motor assistance
- Spring-actuated closure in the event of a power failure
- No travel stops required (except where there is a danger of vandalism and for fire-related doors)
- Adjustable wind-load function
- Integrated “inverse” power-down opening function

Easy installation

- Can be attached to the door lintel or door leaf
- Optional pull/push-rod or sliding rod
- Consistent installation position
- Reliable plan-compatibility suitable for a large range of applications
- All-pole, circuit-breaking master switch (integrated into side cover)

Initial startup made simple

The integrated LC display lets you configure drive functions and parameters such as:

- Operating sequence
- Opening angle
- Push and go function
- Electronic closing-sequence control for two-leaf doors
- Interlock function
- Reinforced closure

Safety-tested

The Gilgen FD 20 is TÜV-tested for conformity with both EN 16005 and DIN 18650.

Operating and safety elements

The high-performance mains power unit (24 VDC/2A) allows the connection of such items as:

- Safety sensors
- Radar devices
- Contactless detection sensors
- Hand-held radio transmitter
- Foot- or elbow-operated switches
- Key-operated pulse switches and badge/pass scanners
- Electric locks and locking devices
- D-BEDIX external control unit

For reliable, convenient operation

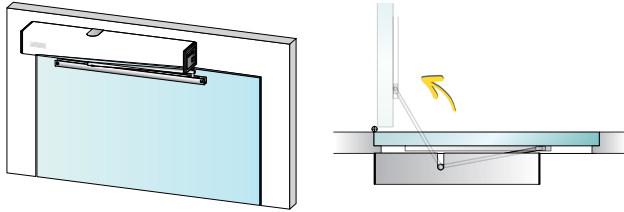
- Obstacle-detection system with automatic stop/reverse mechanism
- Optical sensor strips
- Smooth, noise-free opening and closing
- 100% electromechanical configuration
- Very low power consumption in standby (4 watts)
- Illuminated program selector keys integrated into side cover
- Operates reliably even in high winds

Installation and configuration options

Lintel assembly with sliding rods

Pushing function, single- and two-leaf

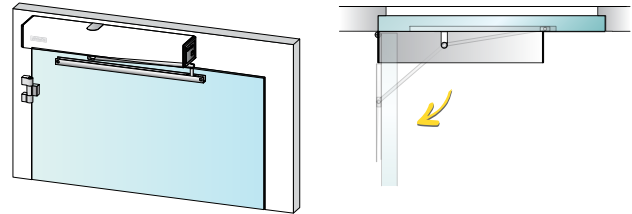
- Aesthetic solution, simple installation



Lintel assembly with sliding rods

Pulling function, single- and two-leaf

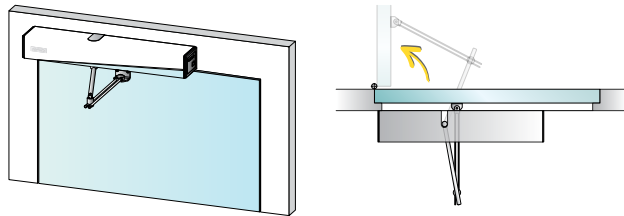
- Aesthetic solution, simple installation



Lintel assembly with standard rods

Pushing function, single- and two-leaf

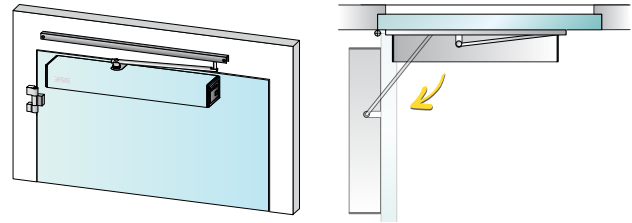
- Highly-efficient power transmission



Door installation with sliding rods

Pushing function, single-leaf

- Suitable for use where height is limited



Technical specifications:

| | |
|--------------------------------------|---|
| Power transfer | Standard rods (pushing function) Sliding rods (pushing and pulling function) |
| Dimensions of drive mechanism (mm) | Height 95, width 690, depth 120 |
| Weight of drive mechanism | 10,5 kg |
| Ambient temperature | -15 to +50 °C |
| Protection rating | IP 40 |
| Operating voltage | 230 VAC (+10/-15 %), 50 Hz, 10/13 A |
| Power consumption of drive mechanism | max. 560 W |
| Rated motor capacity | 100 W |
| Stand-by consumption | 4W |
| Power supply, external user | 24 VDC (±10 %), 2 A |
| Output shaft torque | max. 80 Nm |
| Lintel depth standard rods | max. 250 mm |
| Lintel depth sliding rods | ±30 mm |
| Opening speed | max. 40°/s |
| Closing speed | max. 40°/s |
| Relative humidity | max. 85 % |

Application limits:

| | |
|------------------------------|-------------------|
| Max. leaf weight | 250 kg |
| Door sizes EN 3-7 | (850 – 1600 mm) |
| Door sizes fire doors EN 4-6 | (950 – 1400 mm) |
| Max. opening angle | 105° |
| Max. wind speed | 80 km/h (320 Pa)* |

* depending on door size and type of rod



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