

Swing Door Operator

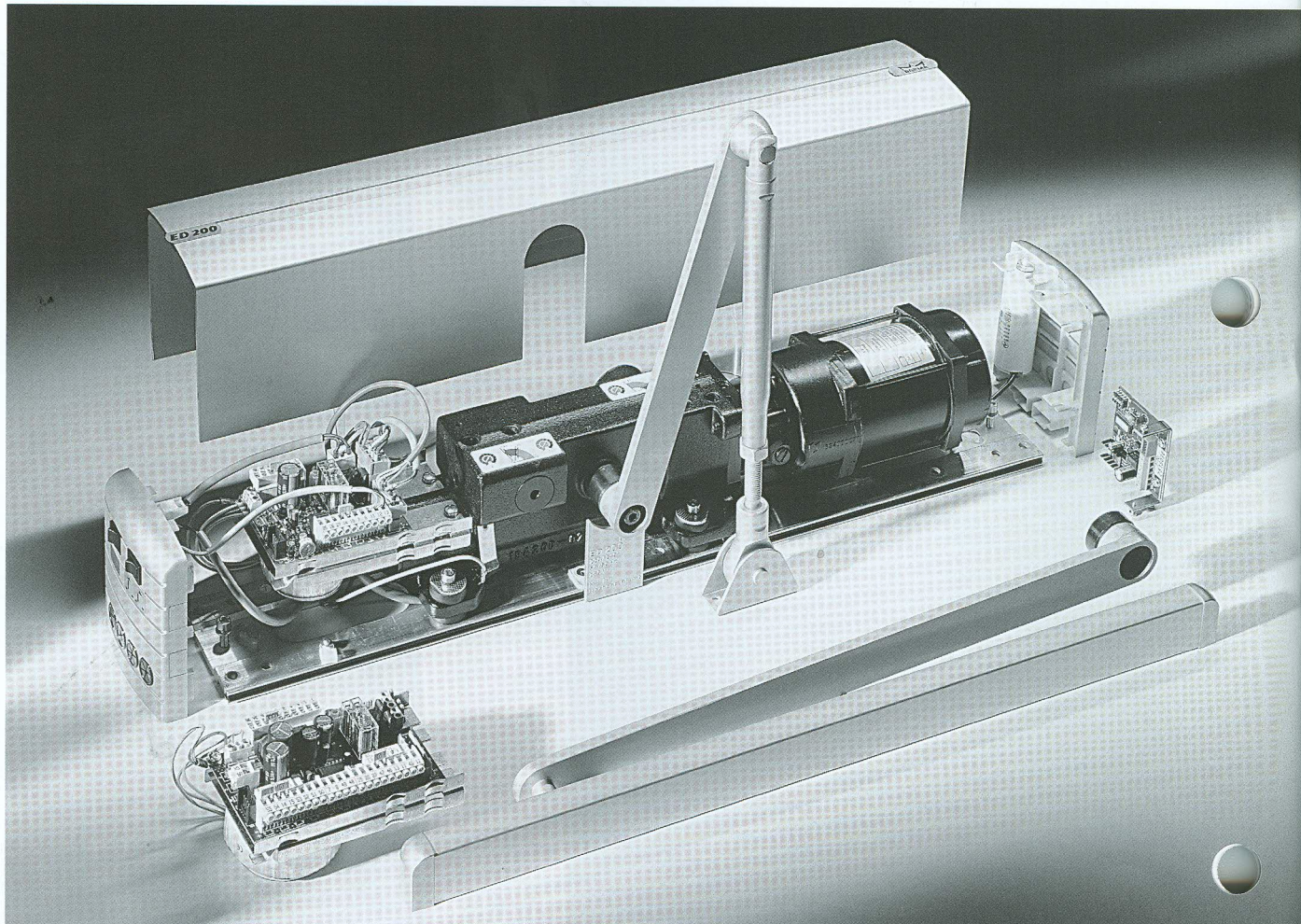
# DORMA ED 200



## Universal application, simple installation, reliable function

As a powerful automatic electro-hydraulic swing door operator, the DORMA ED 200 is suitable for standard and for large and heavy doors. It can be adapted to a wide range of applications and mounting requirements and offers numerous adjustable features. When the permanent open function is activated, the door is held open by a solenoid valve in a way which ensures stability and operational silence. The softline cover can be extended to the full door width providing an optical elegant solution. The DORMA ED 200 – available up to size EN 7 – is also suitable for fire and smoke doors, even with its permanent open function.

Double-leaf doors may also be equipped with an integrated door coordinator (ED 200 ESR) which, when viewed from the outside, is concealed behind the cover. It can also be installed in emergency exits and escape routes. It can likewise be combined with access control systems.





### Features and benefits

- Two variants (EN 4–6, EN 7), to suit all applications
- One version for both door directions (left-handed/right-handed) and mounting positions (hinge (pull) side/opposite hinge (push) side).
- Quick and easy mounting thanks to two auxiliary screws and plug-connected cabling
- Reliable function even in the case of heavy-use doors and entrances exposed to various weather conditions. Optimum adaptability to individual requirements – e.g. in hospitals, homes for the elderly, facilities for the disabled, restaurants, security areas and laboratories.
- Numerous control options
- Integrated door coordinator for double-leaf doors
- Operator available either with control board A or B





**Applications**

Single- and double-leaf standard doors

Single- and double-leaf fire and smoke doors

(only with standard arm)

Opening width for single-leaf doors (Door leaf width)<sup>1)</sup>

Operator variant EN 4-6

with standard arm	590 mm to 1400 mm
with slide channel (mounting on the hinge [pull] side)	880 mm to 1400 mm <sup>2)</sup>
with slide channel (mounting on the opposite hinge [push] side)	800 mm to 1400 mm
with parallel arm	680 mm to 1400 mm

Operator variant EN 7

with standard arm	750 mm to 1600 mm
with slide channel (mounting on the hinge [pull] side)	880 mm to 1600 mm <sup>2)</sup>
with slide channel (mounting on the opposite hinge [push] side)	800 mm to 1600 mm
with parallel arm	680 mm to 1600 mm

Opening width for double-leaf doors<sup>1)</sup>

(for applications with symmetric door leaf widths)

Operator variant EN 4-6

with standard arm	1284 mm to 2800 mm
with slide channel (mounting on the hinge [pull] side)	1750 mm to 2800 mm <sup>2)</sup>
with slide channel (mounting on the opposite hinge [push] side)	1600 mm to 2800 mm
with parallel arm	1360 mm to 2800 mm

Operator variant EN 7

with standard arm	1284 mm to 3200 mm
with slide channel (mounting on the hinge [pull] side)	1750 mm to 3200 mm <sup>2)</sup>
with slide channel (mounting on the opposite hinge [push] side)	1600 mm to 3200 mm
with parallel arm	1360 mm to 2800 mm

Door leaf weight, max. 250 kg

Lintel depth

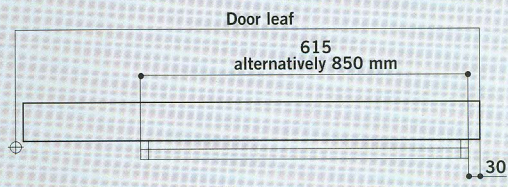
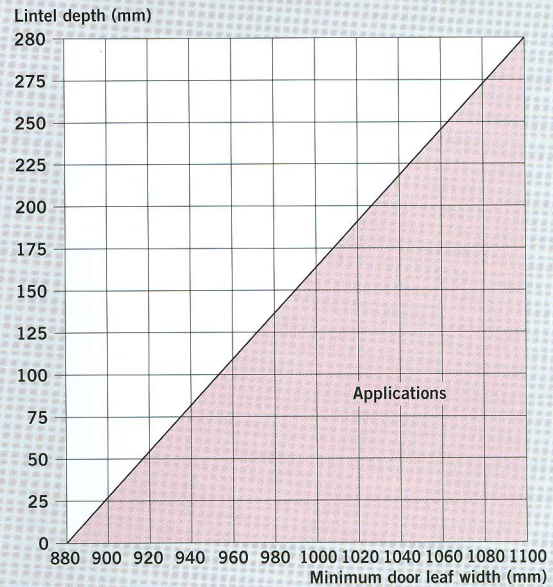
with standard arm	-40 mm to 500 mm
with slide channel (mounting on the hinge [pull] side)	-20 mm to 280 mm <sup>2)</sup>
with slide channel (mounting on the opposite hinge [push] side)	0 mm
with parallel arm	-40 mm to 160 mm

1) Door widths beyond the above-mentioned ranges on demand!

2) Attention! Please consider the minimum door leaf width according to the above diagram.

Additionally a special slide channel or a mounting position different from the drawings in this brochure could be required. Special solutions on demand!

**Applications ED 200 mounted on hinge (pull) side with slide channel**



**Technical data of the drive unit**

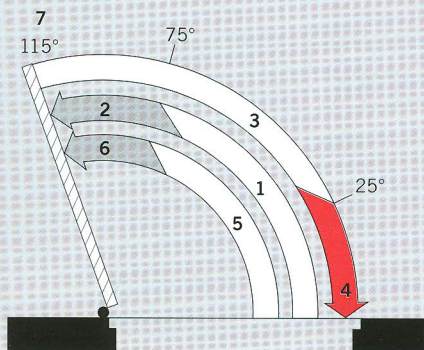
Closing force (2 operator types)	EN 4 – 6 (adjustable)
	EN 7 (fixed)
Dimensions	Height 106 mm
	Depth 133 mm
	Width 665 mm
Continuous/extended cover for single- and double-leaf door operators	○
Weight per operator	18 kg
One operator variant for mounting on the hinge (pull) and opposite hinge (push) side, and LH (ISO 6) and RH (ISO 5) doors	●
Power consumption, max.	250 W
Supply voltage	230 V, 50/60 Hz
Power supply for external accessories	
with control board A	800 mA at 12/24 V AC; 600 mA at 24 V DC
with control board B	1500 mA at 12/24 V AC; 1000 mA at 24 V DC
Stabilized power supply (e.g. for smoke detectors)	
with control board B	100 mA at 24 V DC
Class of protection	IP 20
TÜV type-approved	●
Compliant with the Low Voltage Directive and the EMC Directive	●
Manufactured to ISO 9000	●



### Adjustable parameters of the driving phase

Opening angle, max.	
with standard arm	115°
with slide channel (mounting on the hinge [pull] side)	90°
with slide channel (mounting on the opposite hinge [push] side)	90°
with parallel arm	90°
Adjustable opening time	≥ 1,5 s
Adjustable closing time	≥ 3 s
Adjustable hold open time	0 s – 30 s
Adjustable backcheck	●
Adjustable delayed action	●
Adjustable wall blanking for safety sensors	●

### Functions and adjustment possibilities



- 1 Adjustable opening speed
- 2 Adjustable backcheck
- 1 + 2 Adjustable opening time
- 3 Adjustable closing speed
- 4 Adjustable delayed action
- 3 + 4 Adjustable closing time
- 5 Easy manual operation with bypass valve
- 6 Backcheck range for manual operation
- 7 Adjustable opening angle, adjustable hold open time

### Function programs

	Control board A	Control board B
Off	●	●
Automatic	●	●
Permanent open	●	●
Exit only	–	●
Nurse-bed-function for double-leaf doors (only in combination with special module SM 206)	●	●
Special functions		
Airlock function (only in combination with door reed contact TK)	○	○
Timed airlock function (only in combination with special module SM 208 and door reed contact TK)	○	○
Night-/bank function	–	●
Push&Go function (only in combination with Push&Go module)	○	○
Flip-flop-function (only in combination with special module SM 202)	○	○
Door closer function under cut-out conditions	●	●

### Prepared for connection of the following accessories

	Control board A	Control board B
Standard arm, slide channel, parallel arm	●	●
DORMA IRS-2 infrared safety sensors (mounting on the hinge [pull] and opposite hinge [push] side)	●	●
Door locking device	●	●
Electric strikes (fail-safe/fail-secure principle)	●	●
DORMA SVP emergency exit motor lock with self-locking action	–	●
Access control system (DORMA AutoSwitch)	–	●
Activators (Pushbutton, Radar movement detector ...)	●	●
Radio remote control	●	●
External program switch (integrated 3-position program switch as standard)	●	●
Smoke detectors also with integrated power pack*	–	●

\* 1 x lintel-mounted RM-ED or RM when bottom edge of lintel to bottom edge of smoke-sealed ceiling < 1 m  
In addition: 2 x ceiling-mounted RM when bottom edge of lintel to bottom edge of smoke-sealed ceiling > 1 m

● standard

○ optional