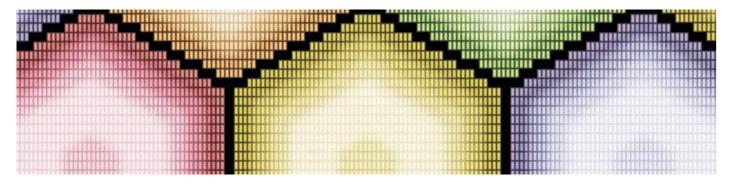




The modular system.

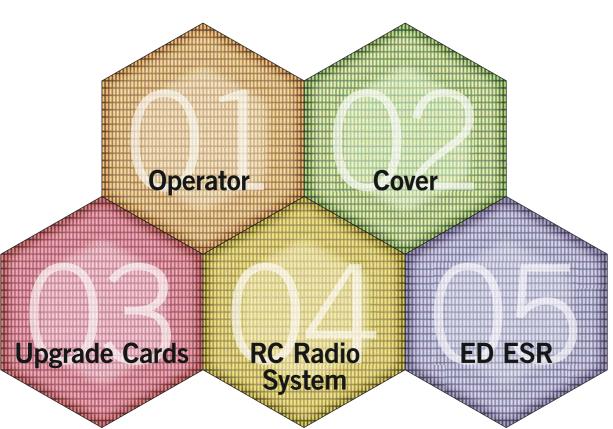


Cover

design.

Slender Contur

Operator A compact and powerful unit



Upgrade Cards Additional functions as required.

RC Radio System Easily operable via pushbutton.

ED ESR Integrated door coordinator.





Door Control

Security/Time and

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All information regarding the availability, equipment and the functional range of operators and modules in this brochure is current as of time of printing and subject to change without notice.



New modular swing door operators.









For barrier free access.



For fast operation.



For preventive fire protection.



For controlled access.

ED 100 and ED 250 made to measure configurations for various door applications.

Individual upgrade packages to meet almost any requirement.

adaptable to almost any requirement, with particular regard to their safety and ability to provide convenient access. DORMA offers intelare identical. ligent systems for such demands. The ED 100 and ED Plug-in modules offer addi-250 represent our new generation of electromechanical basic operators can be up-

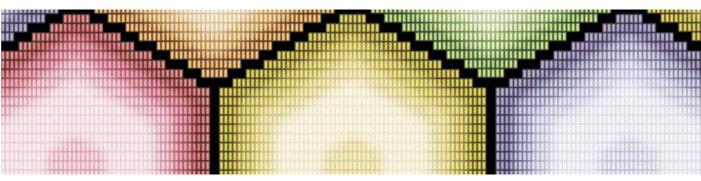
operators whose only difference is their performance. All further components such as the control unit, the cover and the power supply unit

tional functions so that even graded to high end systems.

ised configurations to meet the exact requirements of the particular door system.

A further advantage: Some of our modules can subsequently be upgraded in order to adapt an existing door system to new demands.

The modular system in detail.



Module Operator

Choose one of the following operator systems according to your individual door leaf parameters.

■ ED 100 Closing force size EN 2-4 for door widths

from 700-1,100 mm and a maximum door weight of 100 kg.

■ ED 250 Closing force size EN 4-6 for door widths from 700-1,400 mm and a maximum door



Module Cover

weight of 250 kg.

The cover is packed separately from the operator and can be selected individually.

- Basic (silver/white/special colour) Cover for single leaf door systems.
- Vario (silver) Centre piece with cover for the cutting edge, to realise double leaf door systems or to

extend one side of the Basic cover.

Professional (silver/white/special colour) Seamless cover for double leaf door systems.

The operator cover is sold separately, not together with the operator system, and can thus be ordered individually. We provide a mounting plate with cable channels to facilitate the cable laying process within double leaf door systems.



Module Upgrade Cards

Plug-in modules to upgrade the operator system with additional functions.

- Upgrade Card Full Energy High performance for fast operation.
- Upgrade Card Fire Protection For enhanced safety in case of a fire.
- Upgrade Card Professional Designed to open the leaves of a double leaf door either individually or simultaneously. To extend the adjustable hold-open time.
- Upgrade card DCW Centrally controlled access control system. Additional function(s) via plug-in module.



Module RC Radio System

- RC-R Receiver The receiver can easily be integrated in
- the standard operator.
- RC-H Hand held transmitter Bidirectional system in new design.
- RC-W Wall transmitter (pushbutton) Extra slim design, suitable for surface
- RC-T Transmitter Easy installation in commercial pushbuttons.



Module ed esr

■ ED ESR Set

Integrated door coordinator, easy mounting and maintenance free operation.

Benefits.



- Flexible configuration: Customers only pay for the functions they actually
- Thanks to the Energy Saving Mode (ESM), the power consumption of the IRS-4 safety sensor can be reduced by up to 60% compared to the former systems used by DORMA.
- Despite its reduced size, this system provides considerably better operator performance than electrohydraulic swing door operators.
- New technology with Low cost transport and numerous integrated funceasy mounting thanks to tions such as TMP and its reduced weight (40% IDC. TMP stands for less compared to former electrohydraulic DORMA Temperature Management Program. This feature operators) and the intecontrols the performance grated mounting plate for of the operator system in fast mounting. order to avoid any temperature related damage of the operator system as far

as possible.

IDC stands for Initial Drive

Control. This feature con-

trols and, where required,

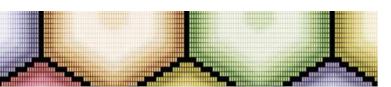
optimises the driving be-

at regular intervals.

haviour of the door system

- Low noise application thanks to its multi-stage
- Elegant design: DORMA elevation height of only







ED 100/ED 250 operator

A compact and powerful unit.

Basic Cover

Slender Contur design.







Standards, regulations, availability dates as well as available functions for the operators and modules may vary from country to country. The required and available equipment may thus vary from the examples shown and indicated in this brochure.

ED 100 and ED 250 – for reliable barrier free access and easy handling.

The attraction of brands and their showrooms – for example in the fashion industry – is defined by the style of their presentation. We can create such an attraction with applications that impress customers with their combination of technology and design. Our ED 100 and ED 250 operators meet such requirements.

Barrier free access makes a good impression.

The automatic of our ED 100 and ED 250 provides convenient access as you can easily open doors by hand. Thanks to their Low Energy Mode, our operators comply with the strict safety requirements in the public sector. Furthermore both systems are also operable via pushbutton, radar motion detector or via Push&Go function. They also provide a direct

connection for the electric strike output of an intercommunication system. This

Guaranteed easy manual opening.

feature considerably reduces

the installation effort when

upgrading the system as it

can be operated direct with

an external voltage of up to

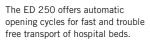
24 V DC/AC and thus does

not require an additional

coupling relay.

The ED 100 is adjustable to closing force size EN 2, which ensures that the door can be opened manually with little effort.



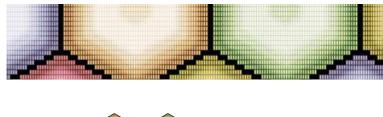


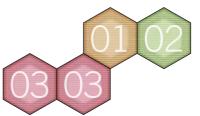






Ward 3





ED 100/ED 250 operator

A compact and powerful unit.

Professional Cover

Slender Contur design.

Upgrade Card Full Energy

High performance for fast operation.

Upgrade Card Professional

Flexible door leaf control.

Standards, regulations, availability dates as well as available functions for the operators and modules may vary from country to country. The required and available equipment may thus vary from the examples shown and indicated in this brochure.

This system combines speed and low energy consumption.

Hospitals should be fully operational at any time of day or night and incur as low energy costs as possible. Thus every process has to be well thought out to ensure smooth operation. The ED 100 and ED 250 can make a considerable contribution to this.

Reliably supporting fast operation.

Hospital doors must respond fast. The Full Energy Upgrade Card activates the complete performance range of the respective operator and increases the adjustable opening speed. We furthermore offer moving infrared safety sensors (IRS) to safeguard the swing path of the door.

Full Energy Upgrade Card. To reduce energy costs.

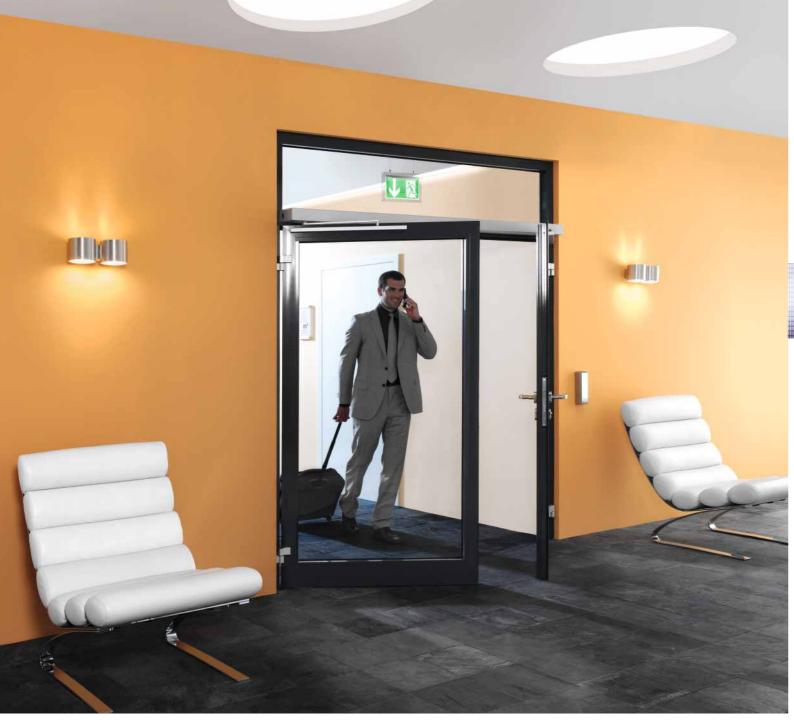
The ED 100 and ED 250 provide an Energy Saving Mode (ESM) to reduce operating costs. In this mode all connected infrared safety

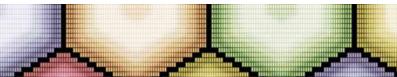
sensors (IRS-4) are switched to Stand-By Mode as soon as the program switch is adjusted to OFF position. This feature may reduce energy consumption by 60% compared to former systems that were supplied by DORMA.

Upgrade Card Professional. Flexible door leaf control.

With the Professional Card per- you can either just activate all the active leaf or both door y leaves of a double leaf system – thus you only consume the amount of energy you actually require. Furthermore the Professional Upgrade Card allows you to increase the adjustable hold-open time by up to 180 seconds, while the flip-flop function enables you to open door leaves permanently (via pushbutton) and close them again.









ED 100/ED 250 operator

A compact and powerful unit.

Professional Cover

Slender Contur design.

Upgrade Card Fire Protection

Enhanced safety in the event of a fire.

ED ESR

Integrated door coordinator.

Professional: Seamless cover with an elevation height of only 70 mm.



Standards, regulations, availability dates as well as available functions for the operators and modules may vary from country to country. The required and available equipment may thus vary from the examples shown and indicated in this brochure.

Where safety and fire protection are part of the business.

Wherever systems must respond fast or where common swing door operators have difficulty in meeting the requirements of highly-frequented doors, the DORMA ED 100 and ED 250 swing door operators are the most suitable applications. They are especially suitable for emergency exits and escape routes.

A powerful operator.

Thanks to its wind load feature, the system will support

the door during its closing cycle. In case the operator cannot close the door with the adjusted closing force, the motor will support the spring. By the way, this can make a considerable contribution to cutting costs and avoiding heat loss.

Upgrade Card Fire Protection. Enhanced safety in the event of a fire.

In addition to the intrinsically safe fire detector connection,

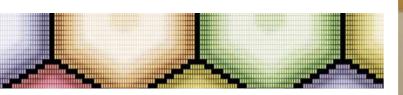
the Fire Protection Upgrade Card for the ED 100 and ED 250 provides new patented additional functions. These additional functions also facilitate the handling of automatic hold-open devices. Just press slightly against the door leaf in order to deactivate the holdopen function. No additional pushbutton is required to close the door, which in turn has a positive effect on acquisition and installation cost. Just open the door by hand in order to reactivate the system.

ED ESR – the reliable door coordinator.

The usual high reliability of DORMA swing door operators is also reflected by the integrated door coordinator. Our new mechanical door coordinator is maintenance free and available with the ED ESR module.

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ED 100/ED 250 operator

A compact and powerful unit.

Professional Cover

Slender Contur design.

Upgrade Card DCW

Centrally controlled access control system.

RC Radio System

Easily operable via pushbutton.



Easy handling thanks to DORMA RC radio system.



Reliable access control via pushbutton.



Standards, regulations, availability dates as well as available functions for the operators and modules may vary from country to country. The required and available equipment may thus vary from the examples shown and indicated in this brochure.

Many buildings require their door hardware to control the access to rooms. The ED 100 and ED 250 offer such functions with their plug-in additional modules.

Controlled safety.

The DCW Upgrade Card enables you to connect DORMA motor locks direct (SVP-DCW). Thanks to the easy Plug&Play installation of DORMA motor locks (SVP-DCW), just a few cables

have to be connected while an almost automatic parametrisation ensures safe functioning. The wind load feature supports the reliable closing behaviour of the door system. In the event of a malfunction, the system sends the status of the door system to the safety systems of the building. If required, you may also upgrade the communication features individually with the aid of the building management module (external) so that safety

staff will be able to respond specifically to the prevailing situation.

Wireless door management.

You may also couple the bidirectional DORMA RC radio system to standard units. We have provided an interface in order to facilitate the installation of the RC-R radio receiver inside the operator. Apart from our reliable RC-H hand held transmitters, we also offer flat RC-W wall transmitters. Simply mount them onto the desired wall without further cables and just activate the pushbutton so that the operator will perform the desired function.

Reliable access control – for numerous rooms.

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ED 100/250 Swing door operators





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A challenge for swing door operators.

Swing doors are often exposed to wind loads. Wind acts with full force on exterior door leaves while interior doors are committed to pressure differences caused by air conditioning systems, ventilation systems or the stack effect.

With a surface of around 2–3 m², even average sized doors are heavily committed to wind loads, which in turn have a negative effect on the proper driving behaviour of swing doors during their opening and closing cycles.

Especially electrohydraulic operators, which close only via spring force, cannot respond flexibly to the prevailing weather conditions as their closing force is tied to their current spring force adjustment.

This results in:

- Loss of warm or cold air through open doors.
- Unauthorised user access whenever the door does not fall shut.
- Considerably varying driving speeds depending on the prevailing weather conditions.

The solution: The ED 100/250 with integrated wind-load control.

The new electromechanical ED 100 and ED 250 swing door operators are equipped with DORMA wind-load control. This feature is activated with the aid of the Full-Energy Upgrade Card. While adjusted to Automatic mode, the system recognises and compensates wind loads with a force of up to 150 N (maximum admissible force). In addition, the motor supports the spring during closing cycles and the electronic latching action helps to close the door properly. Furthermore,

the wind load control actively changes the driving parameters in opening and closing direction in order to tailor the door's driving behaviour to the prevailing weather conditions.

Benefits:

- Motor-supported closing cycles
- Adjustable electronic latching action
- Less weather effects on the door's driving behaviour

Tested and approved as powerful.

Compared to electrohydraulic swing door operators up to size EN 6, our system provides more than double the closing force for as long as the wind-load control is activated. Thanks to this feature, the operator can easily cope with higher wind loads.

Tests of an independent testing institute, performed in a wind tunnel, show that the ED 100 is capable of opening and closing a door several times at a frontal wind speed of

17 m/s – which is the maximum speed this wind tunnel can generate. All tests have been performed at a door with a width of 990 mm and a height of 2,250 mm. Please visit our homepage www.dorma.com to watch the corresponding video documentation.







