

DORMA Automatics

**ED700
Low Energy
Operator**





DORMA ED700. Smooth, quiet operation. Elegant slimline design.

For applications requiring barrier-free access, the DORMA ED700 is the perfect solution. Simple and easy to install, the ED700 provides many features and functions to make existing doors easily accessible.

The DORMA ED700 is a universal model for surface

mount applications. Its “one unit fits all” design matches all common applications for outswing and inswing doors, either with push arm or slide track arm for tight side clearance.

Extruded aluminum covers in custom lengths are available

to match aesthetically with the door frame.

The ED700 may be used for door widths up to 48" (1220 mm) and a maximum weight of 200 lb (91 kg).

For best accessibility, the operator can open the door up to an opening angle of 110°.

Product Features

Installation

The DORMA ED700 is very easy to install and commission. Its flexibility and universal design make barrier-free access an easy task to fulfill. The operator features unique TorqueAdjust. This allows the installer to set the door speed within a wide range – independent of the motor torque.

Safety

Touch Control System (TCS)—

This unique DORMA innovation provides comprehensive safety features enabling the operator to “sense” the pedestrian’s intention and to react accordingly. If the door hits an obstacle during the opening cycle, the operator will reduce force immediately. The sensitivity for obstacle detection within the

opening cycle is adjustable to provide proper settings of the operator for different environmental conditions.

An obstacle detected during the closing cycle will immediately initiate a door reopening. The TCS provides enhanced safety for the pedestrians, while dramatically improving the performance of the door.

All DORMA ED700 operators meet or exceed ANSI A156.19 guidelines.

Operation

Door Programs—

The ED700 includes a control switch to select the following operational modes:

- Off (easy manual operation)
- On (low energy mode)
- Hold open (unlimited hold open time for the door)

Control Board—

The DORMA ED700 control features state-of-the-art electronics and flexibility. It offers dedicated inputs for all common sensors and has a built-in “lockout relay” for swing-side presence sensors. This reduces system complexity and costs.

Electrical Strikes & Autolocks—

The DORMA ED700 provides full support of all common electric strikes and locks. When installed in conjunction with an electrical strike, the unit offers a built-in time delay (0.5 s) for smooth operation of the door. The internal power supply supports many commercial electric strikes. For larger external power requirements, an additional power supply can easily be added.

Activation

Depending on the application, the DORMA ED700 can be activated by using wall switches, push-buttons, motion sensors, or remote control devices.

Alternatively, the built-in push & go function activates the operator by a simple, slight push on the door. With the operator’s intelligent Touch Control System (TCS), the unit will immediately react.

Manual Use—

Doors equipped with the DORMA ED700 can be easily used manually, e.g. during a power failure. Even without power, the operator provides controlled self-closing.

Additional Features and Functions

Surface Mount Installation

- 5.5" W x 5" H Extruded Aluminum Header (140 x 127 mm)
- For inswing and outswing doors
- Scissor-arm for inswing and outswing applications
- Slide track arm available for inswing applications

Settings and Adjustments

All major adjustments are easily accessible on the control unit allowing correct settings for varying door and pedestrian requirements. Main adjustments are as follows:

- Open speed
- Time delay (hold open time, 1–30 s)
- Close speed

Additional adjustments:

- Open check speed
- Open force

Options for Activation

- Pushbutton (momentary actuation opens door; time delayed closing)

3 Position Door Control Switch

- OFF (easy manual operation)
- ON (low energy mode operation)
- OPEN (door fully opens and remains)

Remote Control

- Motion sensor (door opens and remains until sensor zone clears; time delayed closing)
- Presence sensor (swing area protection; prevents closed door from opening/open door from closing)
- Built-in lock-out relay function and support for dual-zone sensors
- On-door Sensors (Approach/Door Open; Swing side/Door Inhibit)
- Internal Push-&-Go (Slight push of door will initiate powered door opening)

Built-in Power Supply for External Use

- 24 VDC @ 2.0 A available

Electrical

- 120 VAC, 50/60 Hz, 5 A minimum

Standards

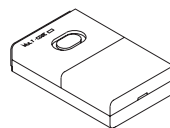
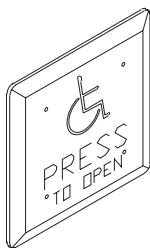
- ETL listed for US and Canada
- Full compliance with ANSI A156.19 - American National Standard for Power Assist and Low Energy Power Operated Doors
- Full compliance with the Americans with Disabilities Act of 1990

Finishes

- 204-R1 clear anodized
- 313-R1 dark bronze anodized
- Special finishes available (custom anodized, paint, architectural metal cladding)

Miscellaneous

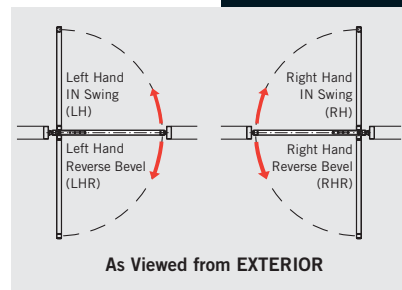
- Full length header available on request



Internal Control Board



Drive Motor Assembly



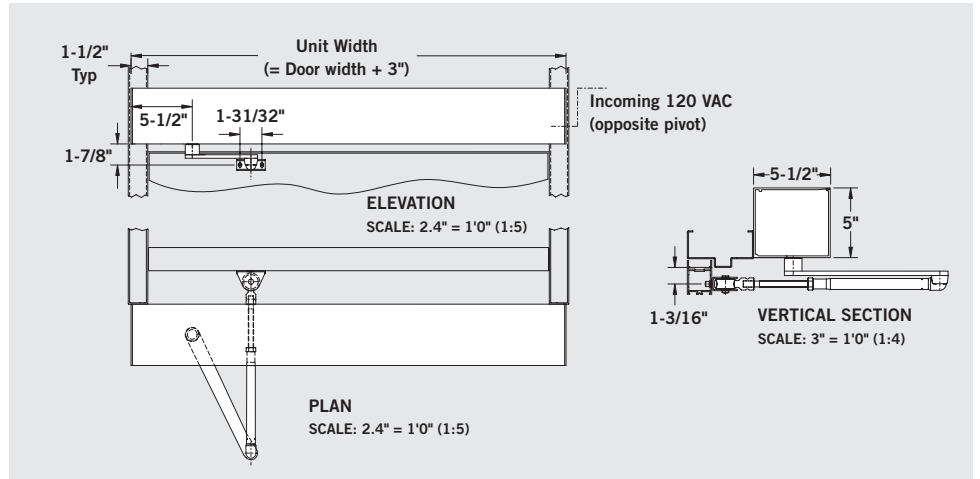
Door Handing Definition

Aesthetic solutions for swinging door applications.

ED700 Configurations

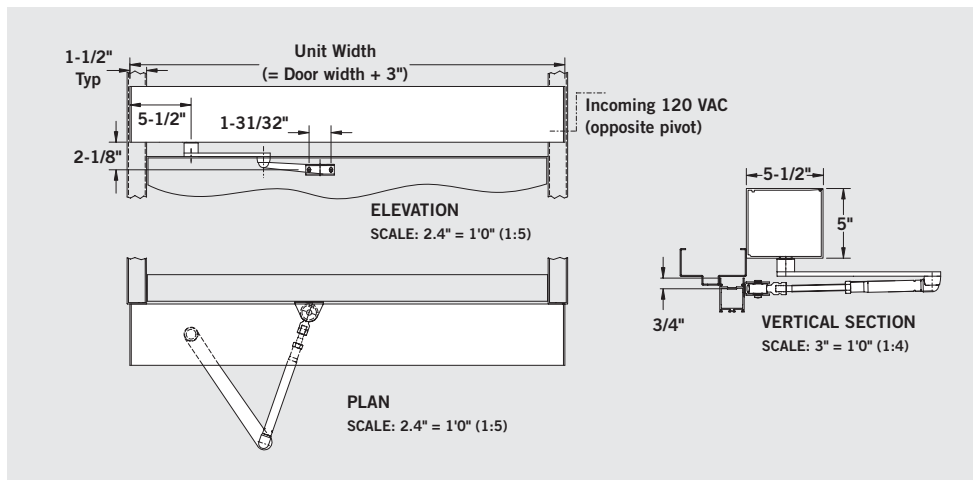
Surface Applied Outswing Scissor-Arm (Push Application)

Surface applies the operator to the door frame with a push arm assembly attached to the top door rail.



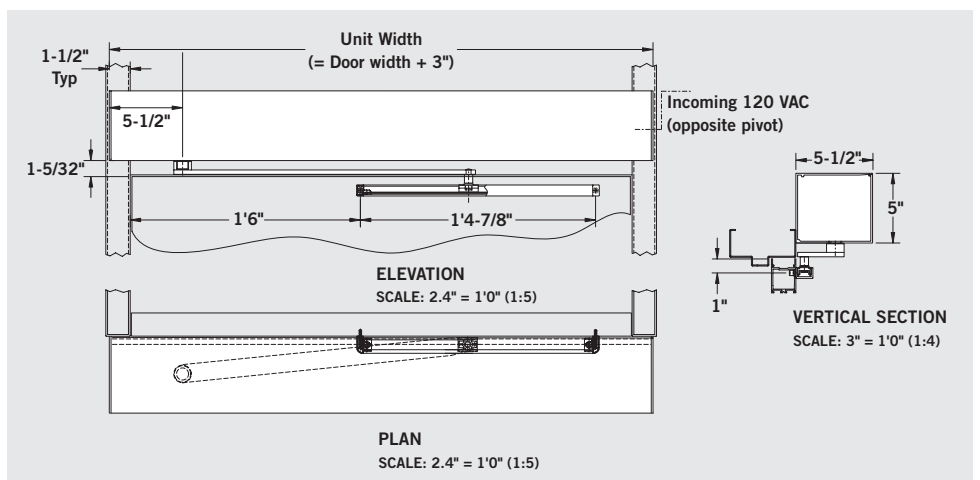
Surface Applied Inswing Scissor-Arm (Pull Application) (Standard)

Surface applies the operator to the door frame with push arm assembly attached to the top door rail.



Surface Applied Inswing Track Arm (Pull Application) (Use only with zero reveal conditions)

Surface applies the operator to the door frame with slide track assembly mounted to the top door rail.







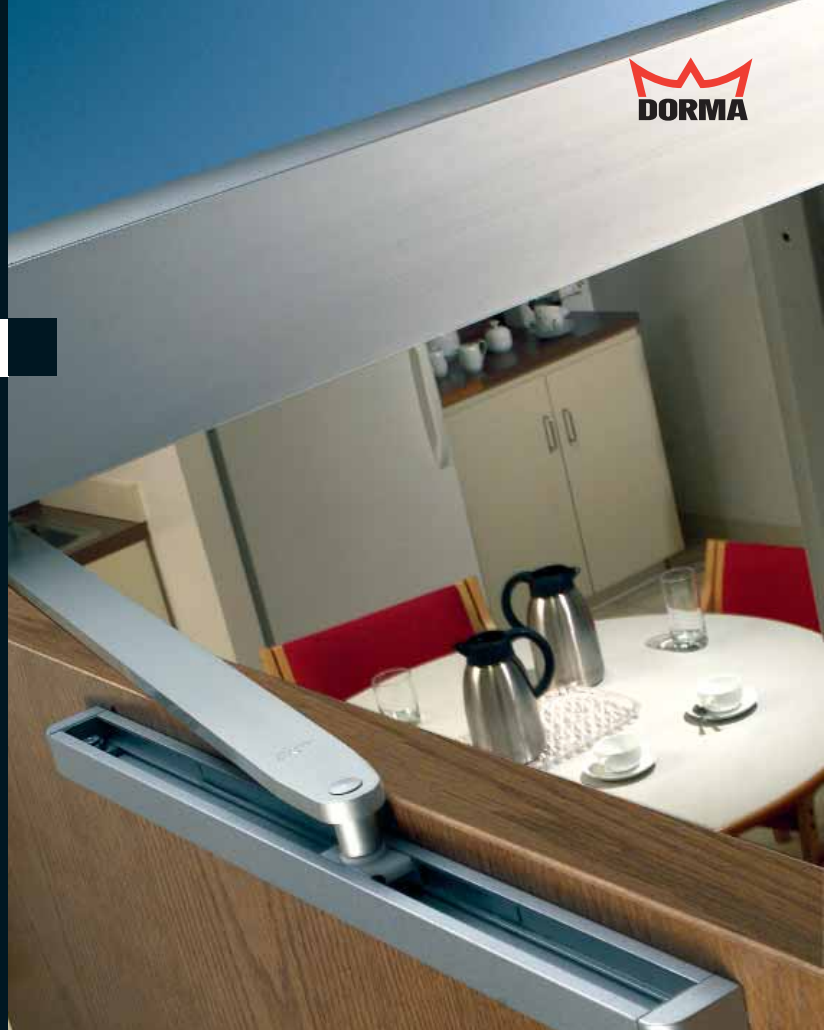
A History of Innovative Design

Since 1908, DORMA has been building a reputation for producing some of the most technologically advanced automatic door systems in the world.

DORMA Automatics, based in Chicago, Illinois, designs and manufactures a complete range of automatic door systems that meet or exceed industry standards while maintaining architectural appeal. DORMA is recognized worldwide for producing attractive products with superior functionality and design versatility.

The innovative line includes sliding, swinging and revolving door systems covering a wide range of applications and finishes.

DORMA Automatics, along with Crane Revolving Doors, DORMA Architectural Hardware, DORMA Glas, Modernfold, DORMA Mexico and DORMA Canada comprise DORMA Group North America, part of the DORMA Group, the world's largest manufacturer of door control systems. Founded nearly 100 years ago the company has always been a driving force behind developments in door system technology.



DORMA Group North America

Leaders in Architectural Opening Solutions



UL325 patent pending

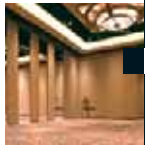
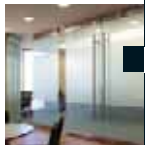
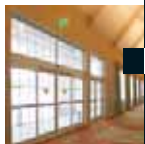
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DORMA Automatics

Complete Automated Door Solutions

Providing automatic doors that meet or exceed industry standards while maintaining architectural appeal.

Crane Revolving Doors

Pedestrian Flow, Safety & Aesthetics

The choice of leading architects for commercial and institutional buildings throughout the world.

DORMA Architectural Hardware

Providing Safety & Security Around the Door

Offering a complete line of door controls, locks, exit devices, and electronic access control hardware.

DORMA Glas

Elegance, Versatility & Beauty

Delivering modern style and reliable performance with accessories and systems for tempered glass entrances.

Modernfold

Management of Sound & Space Division

Designs, manufactures, and services operable partitions and accordion doors.