



AUTOMATIC ENTRANCE SPECIALISTS

Dok E, Dok M and Magnum
Motorized multipurpose
guide-tracks for straight doors

CE



Automatic pedestrian doors

Motorized multipurpose guide-tracks for straight fastenings

The world of fastenings, in relation to entrances or exits, is numerically very extensive, both in terms of fields of application than types of materials used. Amongst the various applications there are the straight sliding type, and amongst these a numerically important part of the market, subdivided into civil and industrial applications, is composed by those suspended from the top.

For these entrances DITEC has created **Dok** and **Magnum**, innovative products which can be adapted to the various installation requirements. Indeed, the new and revolutionary design philosophy of **Dok** and **Magnum** is that of being able to provide the door constructor with a guide-track which has been specially developed to enable motorization, even at a later stage, without the need for

adaptation, building work or modifications to the door itself. And all of this is within an extremely attractive context, for the automatic system is entirely hidden inside the guide-track and there are no visible parts such as motors, reduction units, chains or returns, i.e. all those components which make up the existing traditional and obsolete systems. Consequently, with **Dok** and **Magnum**, the door constructor does not need to worry about how to construct and support the upper guide-track, nor which type of carriages to purchase, which is often the cause of great problems

concerning reliability: all he needs to do is to construct the industrial door, pedestrian door, external safety grille, etc., using the type of material which he wishes because DITEC takes care of the rest. Indeed, **Dok** and **Magnum** have been devised, designed, and built to resolve all problems connected with movement, so that the constructor can offer his clients automatic doors without having to worry about reliability and technical adaptation. **Dok** and **Magnum** are supplied as loose components, in assembly kits, according to the information shown on the price lists.

Dok E motorized shutters

Dok M motorized warehouse separating panel



Magnum motorized large sliding doors

The **Magnum** range

This is a system designed for the intelligent movement of large suspended sliding doors weighing up to 700 kg.

Magnum is composed of: a galvanized steel motorized guide-track suitable for welding; a series of specially designed carriages for the movement and suspension of a large door; an electronic panel with microprocessor logic for the "intelligent" control of the system with an incorporated battery unit suitable for emergency operations. The **Magnum T** version is used by the constructors of fire barrier doors to make them automatic in compliance with the relevant current regulations.



The **Dok** range

This is a multipurpose modular system suitable for the docile, easy and safe movement of all kinds of fastenings with straight movement within the weight/performance limits provided for.

Indeed, it is possible to automate large rigid and flexible industrial doors, shutters, windows, external grilles, pedestrian doors, mobile walls, large curtains, doors for industrial tunnels, etc. The **Dok** system is made up of a series of simple components, to be

assembled on the basis of the specific installation requirements, in order to obtain the configuration most suited to the needs of the client. The result is a natural aluminium motorized guide-track, with compact dimensions and high aesthetic value.

Two basic versions are available: **Dok E**, automatic system with basic movement; **Dok M**, automatic system with "intelligent" movement.

Dok M

Thanks to its microprocessor control, the **Dok M** system is the ideal solution for applications where docile and controlled movement of the fastening is required, during both the acceleration and slow-down phases (for example, automatic pedestrian doors).

Thanks to the single laterally-mounted block housing the reduction unit and

electronic control panel, the system can be assembled in various ways:

- with the geared motor on the end;
- with the geared motor at the front;
- with the geared motor on top.

Dok M can be equipped with a complete series of control and safety accessories, such as detection devices, photocells, sensors, floor mats, push-

buttons, selectors etc, in addition to a numerous series of specific accessories (lock, connections, support brackets, etc.).

A supplementary battery system permits the automatic system to operate, even in the case of emergency.



Dok M with the geared motor and electronic control panel on the end.



Dok M with the geared motor and electronic control panel at the front.

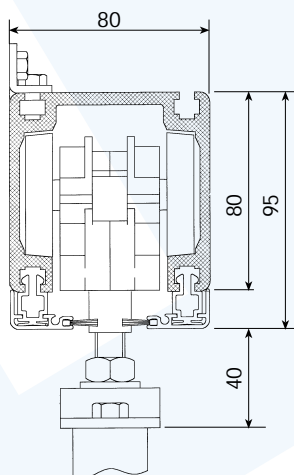


Dok M with the geared motor and electronic control panel on top.

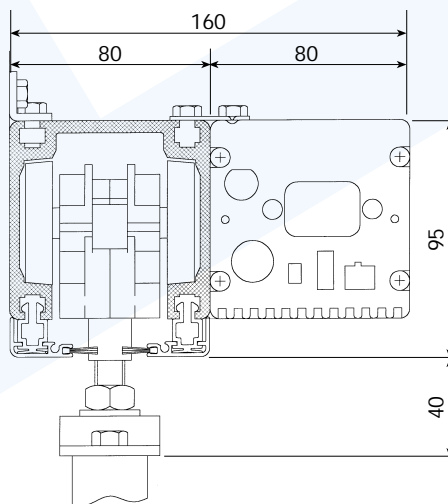


Dok M motorized full-length window

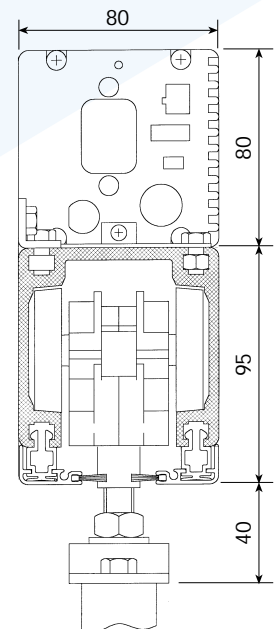
Cross-section with dimensions (mm)



Geared motor on the end



Geared motor at the front



Geared motor on top

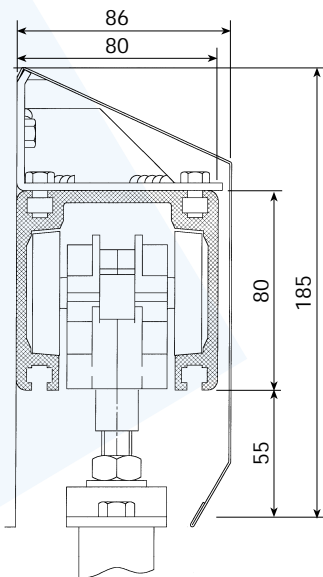
Dok E

The **Dok E** system is the ideal solution for all those applications where sophisticated forms of control and handling of the movement are not necessary, for example: safety grilles, mobile walls, shutters, screens, full-length windows, etc. It is a very sturdy and reliable automatic system which permits constant and safe movement to

be obtained, even in outdoor environments, so long as it is protected. A supplementary battery device guarantees operation even in the absence of the main power supply. It is possible to equip **Dok E** with several commonly used accessories, such as photocells, detection sensors, floor mats, push-buttons, etc. Furthermore,

a complete series of "dedicated" accessories (support brackets, air-tight brush seals, joint kits, electric panels for the control of up to 6 automatic systems, external protective casing, door leaf locking devices), permits the **Dok E** system to satisfy the most varied application requirements.

Cross-section with dimensions (mm)



Geared motor with protective casing for external installation.



Sealing brushes assembly set



Dok E motorized shutters



Dok E with two motors.



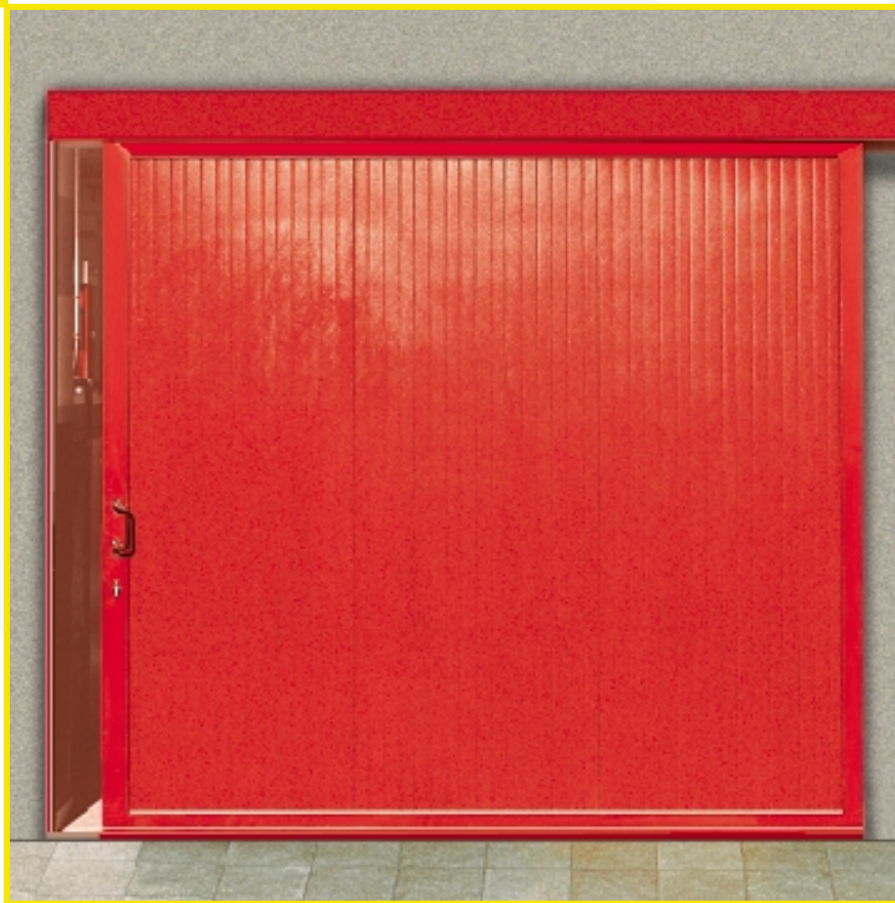
Dok E with one motor, electric control panel and push-button panel.

Magnum

This automatic system is at the top of the market range: it is an integrated guide-track of high aesthetic quality which offers unmatched reliability and sturdiness. It unites power and docility, and is in fact the first "intelligent" automatic system for industrial use. Indeed, the system is governed by sophisticated electronic logic which ensures controlled and safe move-

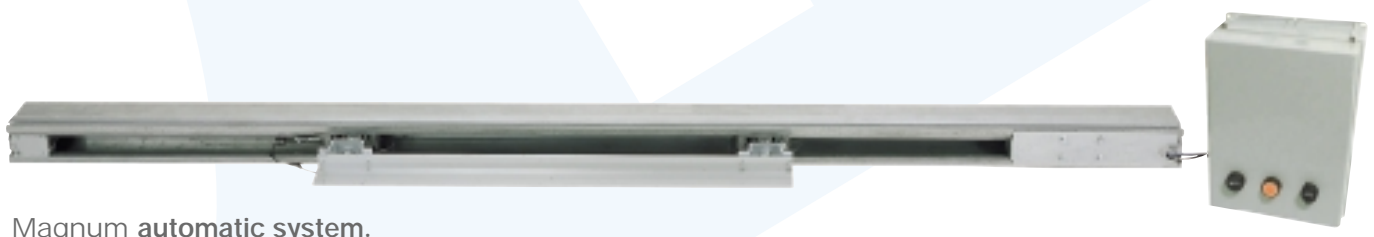
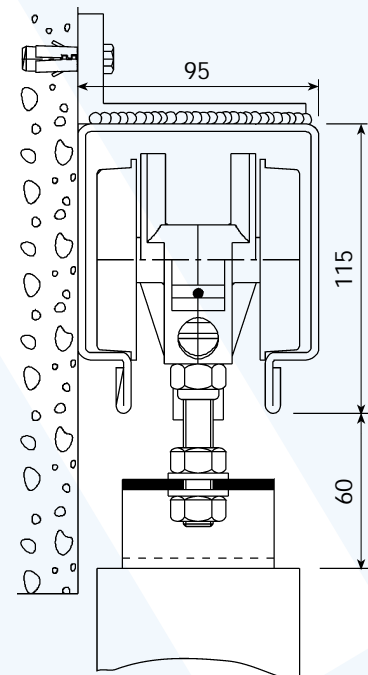
ment in all situations. The behaviour of the large industrial door during operation is surprising: indeed, its acceleration and slowing down are typical of a traditional automatic door. The opening and closure times, which are considerably shorter than those of traditional systems, permit more efficient air-conditioning of the environment.

Magnum can be equipped with many kinds of accessories (photocells, detection devices, floor mats, etc.), as well as several specific accessories. The batteries incorporated in the electric control panel permit the motorized guide-track to operate even in the absence of the main power supply.



Large automatic sliding door

Cross-section with dimensions (mm)



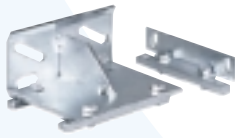
Magnum automatic system.

Parts and accessories

Dok E and Dok M



Carriage



Support brackets



Reduction unit



Head/Return



Lock on board



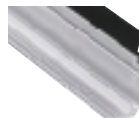
Sliding Guide-track section bar



Electric control panels



Protective casing



Sealing brush with support track



Lock for door leaves



Joint kit

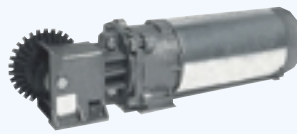
Magnum



Carriage



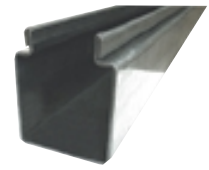
Electric control panel



Geared motor



Belt return



Guide-track

Compatibility of the basic components with the Dok E, Dok M and Magnum versions

Code	Description	u.m.	Dok E	Dok M	Magnum
0KDECF	Fixed components kit for Dok E – 1 leaf	piece	✓		
0KDMCF	Fixed components kit for Dok M – 1 leaf	piece		✓	
0KDEMS	Supplementary motor kit for Dok E	piece	✓		
0KDMRL	Lateral reduction unit kit for Dok M	piece		✓	
0901	Electric control panel for Dok E – 1 geared motor	piece	✓		
0902	Electric control panel for Dok E – 2 geared motors	piece	✓		
0906	Dok E electric control panel for up to 6 geared motors	piece	✓		
0906S	Card for each additional Dok E geared motor	piece	✓		
0K906B	Emergency battery kit for control panel 906	piece	✓		
0K91B	Battery kit for OE91 Dok M	piece		✓	
0KDC	Kit of pair of carriages for 2nd leaf	piece	✓	✓	
5L050N	Dok transmission belts	m	✓	✓	
0NR374M	Nat. sliding guide-track section bar	m	✓	✓	
0KN1R374	Nat. sliding guide-track section bar L. 3.300	piece	✓	✓	
0KNR374	Nat. sliding guide-track section bar L. 6.620	piece	✓	✓	
0NR559M	Nat. brush support guide-track	m	✓	✓	
0KN1R559	Nat. brush support guide-track L. 3.300	piece	✓	✓	
0KNR559	Nat. brush support guide-track L. 6.620	piece	✓	✓	
0KR558	Kit of 10 fixing clips for brush support guide-track R559	piece	✓	✓	
YSPA214	Sealing brush L. 2.500	piece	✓	✓	
0KR399	Guide-track joint kit	piece	✓	✓	
0KR497B	Lightweight support kit for guide-track fixing	piece	✓	✓	
0KR499	Heavy support kit for guide-track fixing	piece	✓	✓	
0KR542	Protective casing L. 3.300	piece	✓	✓	
0KR546	Kit comprised of two sheet-metal casing heads L/R.	piece	✓		
0KZ14	Lock on board kit	piece	✓	✓	
0KZ14S	Manual release kit for Z14	piece	✓	✓	
0KZ17	Door leaf lock kit	piece	✓		
KMAG1	Fixed components kit for Magnum – 1 leaf				✓
KMAGGC	Carriages and components for Magnum 2nd leaf				✓
V1534F40	Guide-track section bar L. 4.000				✓
V1534F60	Guide-track section bar L. 6.000				✓
5T1016	Transmission belt				✓
5FA493	Steel transmission cord				✓

Technical specifications

Series	Dok E		Dok M		Magnum
Power supply	230 V AC		230 V AC		230 V AC
Geared motor	24 V DC reversible		24V DC reversible with option of installation parallel to or on the end of the guide-track		24V DC with encoder, reversible with electronically activated external lock
Intermittence	30% at maximum weight		30% at maximum weight		30% at maximum weight
Weather resistance	External installation possible (-15 + 50°C) as long as protection from strong rain is provided		Internal installation		External installation possible (-15 + 50°C) as long as protection from strong rain is provided
Maximum thrust	140 N 1 motor	280 N 2 motors	50 N	140 N	300 N
Speed	Fixed, between 0.1-0.15 m/s per leaf according to weight (average speed 0.13 m/s)		1 leaf adjustable between 0.3 and 0.7 m/s	1 leaf adjustable between 0.1 and 0.25 m/s	Adjustable: 0.1-0.3 m/s during opening 0.1-0.2 m/s during closure
Approach	Low speed		Low speed		Very low speed
Guide-track	Aluminium		Aluminium		Galvanized steel suitable for welding
Max. load of carriage	80 kg		80 kg		200 kg
Max. opening per leaf	6 m		6 m		6 m
Anti-panic device	With supplementary battery device (with control panel 906 only)		With supplementary battery device		With battery device incorporated in the control panel
Control panel	Separate from the geared motor unit		Built into the geared motor unit, with electronic microprocessor logic		Separate, with electronic microprocessor logic and batteries incorporated
Lock	Versions with lock on door leaf or on board of the guide-track		Version with lock on board of the guide-track		Version with lock on door leaf

Approximate performance figures

Dok

2 carriages per door leaf are used, with a max. weight of 150 kg per leaf. For heavier weights, and in any case not exceeding 250/300 kg per leaf, 4 carriages can be used, in pairs at the two ends of the leaf itself (see technical instructions). In this case, the relative adjustments must be very precise, in order to render all the carriages load-bearing.

Performance

Dok M 1/1 ratio – Force = 50 N. Suitable for pulling a fastening with a maximum weight of approx. 100 kg in optimum sliding conditions.

Dok M 1/3 ratio – Force 140 N. Suitable for pulling a fastening with a maximum weight of approx. 250/300 kg in optimum sliding conditions.

Dok E 1 motor – Force = 140 N. Suitable for pulling a fastening with a maximum weight of approx. 250/300kg in optimum sliding conditions.

Dok E 2 motors – Force = 280 N. Suitable for pulling a fastening with a maximum weight of approx. 300 kg in conditions of greater friction for a better performance.

N.B. It is also possible to use Dok E for non-load-bearing pulling. In this case the performance limits described above remain unvaried.

Magnum

2 carriages are used for a 1-leaf door, with a max. weight of up to 400 kg. If the weight of the door leaf is greater, but does not in any case exceed 500 kg, it is necessary to insert a third carriage. In the case in which the door has 2 leaves, their total weight must exceed 700 kg.

Performance

1 motor – Force 300 N - Suitable for pulling a fastening with 1 leaf with a maximum weight of 500 kg, or 2 leaves with a max. total weight of 700 kg.

Devices and accessories

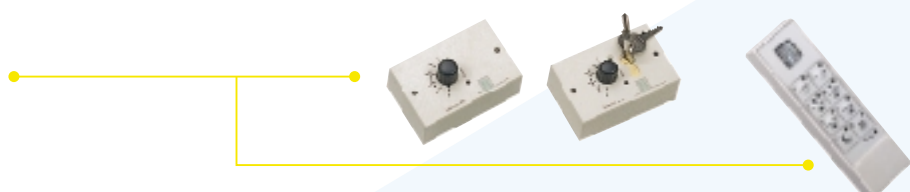
Infrared **photocells**.



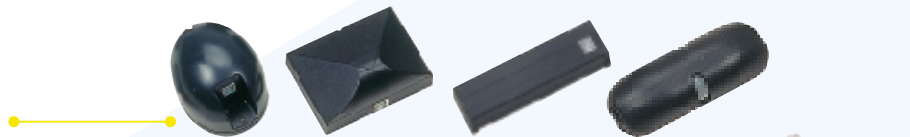
Key, pull, emergency, mechanical elbow and pneumatic **switches**.



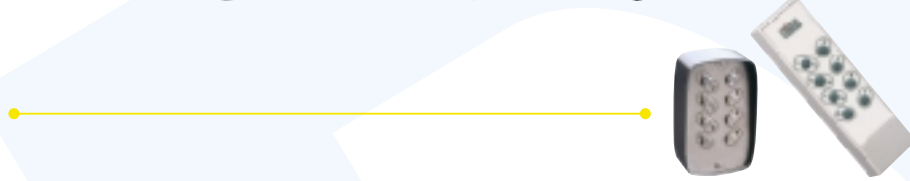
Mechanical function programmers with and without key lock and **electronic multifunction programmer** with additional security functions for access control.



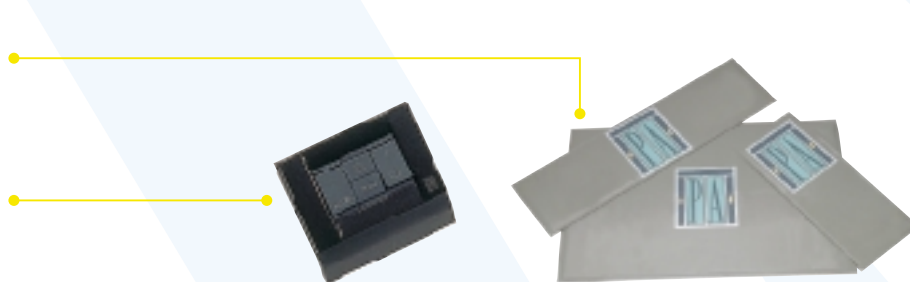
One-way and two-way microwave **detection device** and active and passive infrared **detection device**.



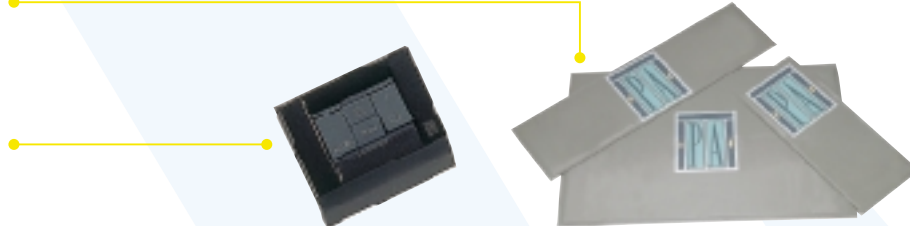
Digital **selectors**.



Floor **mats** of various dimensions.



Pushbutton control panel in tabletop and built-in versions.



Typical specifications

Motorized guide-track for straight sliding door/large door (Dok/Magnum Series) manufactured by DITEC S.p.A. The geared motor is powered by 24 V DC; is not visible, but perfectly housed inside the guide-track. The traction is provided by a belt, which is not visible, sliding inside the actual guide-track and suitably connected to sliding and suspension carriages.

Regulations

DITEC automatic systems possess the CE mark and are designed and manufactured in compliance with the safety requirements of the Machines Directive (89/392/EEC), the Electromagnetic Compatibility Directive (89/336/EEC) and the Low Voltage Directive (73/23/EEC).

DITEC S.p.A. reserves the right to make modifications aimed at improving the products.

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