

A010 Series Drives.

The 0A10 Series Rol-Trac is a complete integrated Automatic Door System, comprising Rol-Air-Mota Drive, Safety controller, End stops and buffers mounted on an aluminium frame.

The complete unit is factory tested and set up, making installation limited to fastening the assembly adjacent to the door track and linking the Rol-Air-Mota to the door leaf with a suitable bracket. The installation is then completed by simply connecting the compressed air supply and fitting the input signalling system. No specialist knowledge or tools are required and installation can usually be completed in a few hours.

Of course it is important that the door runs freely over its full travel when moved by hand and the Track (if not new) is not worn or damaged.

STROKE

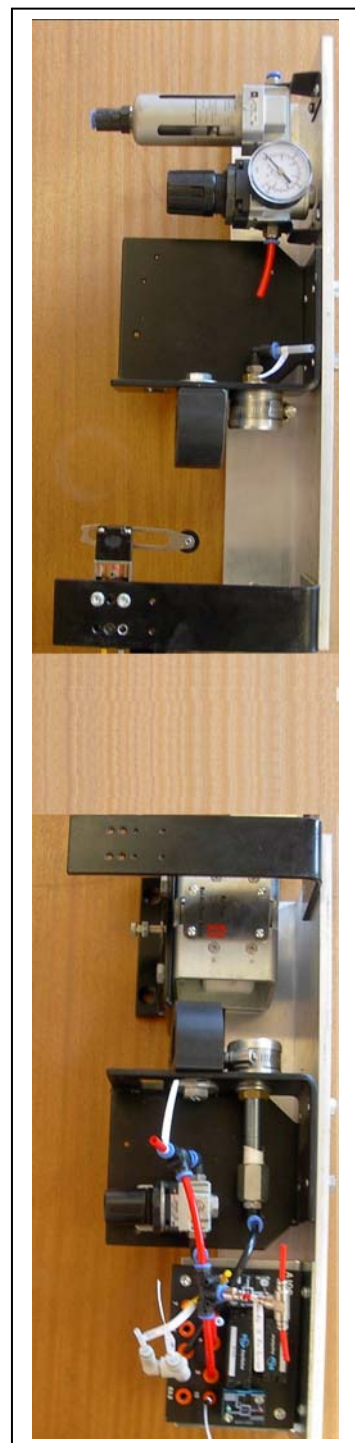
The overall length of the Drive is usually the required stroke + 1250mm. An extra length of A012 section is optional to fit the canopy along the full length of the door track.

CONTROLS & LATCHES

A full range of input signalling systems are available for the 0A10 series, however care must be taken when using an A820 Dead Latch. Many tracking systems allow the door freedom of movement, which may obstruct the latch engagement.

APPLICATIONS

The A010 series can be used on a variety of different types of movement, from straight sliding to folding, cantilever and even vertical rising (when suitably counterbalanced). A010 series is also suitable for doors, which drop onto compression seals.



Rol-Trac retains the right to make changes to design without notice.

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Handing ...

All drives are manufactured with the controller at the right hand end, the Rol-Air-Mota then either pulls or pushes the door open. In emergency, simple conversion from left to right hand closed or vice versa, can be made on site, however, the work required can become more complicated if a latch is fitted.

Bi-Parting

Bi-parting door arrangements require one drive per leaf.



Sequence

A 1 second impulse is sufficient to initiate the opening cycle. The door will then accelerate into its stroke before cushioning to a halt, against the hydraulic damper, at the end of the travel. Of course speed is very dependent upon the door weight and its running gear. The drive tube stays inflated whilst the door is open.

A separate impulse is required to close. During closing movement, the monitor valve constantly checks the system for obstruction. The switch, mounted between the indicators on the end panel, selects whether the door re-opens or stalls when the close cycle is obstructed.

Indicators

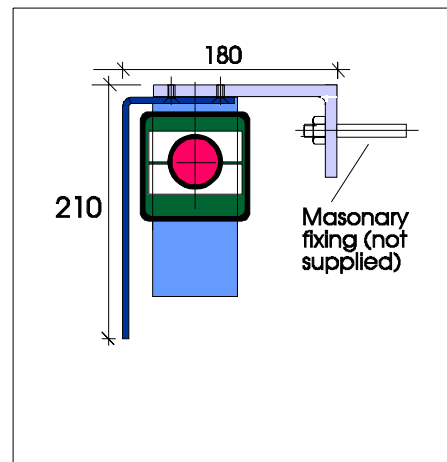
Fitted to the end panel show air supply (yellow) and signal to open (green) condition.

Air quality

Automatic draining air service is provided to remove excessive amounts of water or other contaminants from the air supply line. The system is designed to be unaffected by normal amounts of airborne water.

Canopy

A standard Rol-Trac, off white, pre-coated, aluminium canopy is optional. Also available are extra lengths of assembly in order to allow the canopy to run along the complete length of the door track.



.....technical data

Construction....	Aluminium alloy / steel
System weight..	
Max. thrust developed	1068N @ 7 Bar.
Max. door weight	500 kgs (suggested)
Max. opening speed	1 metre / sec.
Max. closing speed	0.5 mts / sec.
System dimensions	210x180x (1100+stroke)
Air consumption per cycle	25 litres / mtr.
Lubrication.	None required on system

Order table

A010 Retro-fit series drive for doors up to 500kgs.
A013 Retro-fit series drive for doors up to 1200kgs.
max thrust developed 1068N @ 7Bar
A014 Retro-fit series double Rol-Air-Mota drive for doors up to 4000 kgs. max thrust dev. 2136 @ 7Bar.
A015 Retro-fit series triple Rol-Air-Mota drive for doors of over 4000 kgs. max thrust dev. 3204 @ 7 Bar.

Optional extras

A092 White coated aluminium canopy.. 1 metre section.
A102 Electronic Controller & timer (adj) to automatically close the door.
A100 Pneumatic Controller
A105 Pneumatic adj. timer close.
A108 Stop sequence, to stop door at given point of travel.
A150 - A199 Range of signalling systems.
A220 - A239 Locks & Latches.
A250 -A265 Solenoids.

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Rol-Air-Mota covered by international patents.*



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