

WindowMaster CHAIN DRIVES

The WindowMaster is the most versatile chain drive we offer. They feature 24 Volt actuators that are made for comfort ventilation and/or smoke ventilation. With the increasing focus on energy consumption and sustainability, utilising chain drives helps to achieve improved indoor climates through Natural Ventilation as well as being used as part of a smoke ventilation system.

These units are Danish/German designed and manufactured, and used extensively throughout Europe and Australasia. They are robust, safe, and have been installed in many schools, libraries, and other environments, particularly where blinds or curtains are to be used.

The new patented MotorLink™ technology was developed by WindowMaster to create a new standard for interface between BMS systems and window actuators.

The functions of this new technology are;

- Digital data communication to every single window actuator.
- Precise control and actuator feedback
- Three speed actuator operated
- Genuine synchronisation between multiple actuators on the same windows
- Reducing risk of entrapment when closing via Pressure safety function
- Reversing function to protect weather seals
- Fault indication
- Online parameter set up

BENEFITS

- Very discreet, unobtrusive and don't interfere with any window treatments such as curtains or blinds
- Stainless Steel chain and lacquered zinc housing.
- Economical – single chain drives more economical than manual gearboxes for single sash windows.
- Four window master units can be synchronised without the need for an external synchronisation unit – making them an ideal solution to windows with sashes over 3m wide.



Operable Window Technologies

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WHEN INCORPORATED WITH MOTORLINK™

The units have:

- A genuine position feedback, three speed actuator operation and Manual keypad control.
- They can be programmed to suit specific needs including the pressure, traction force, stroke, speed and the sound level.
- In addition to this, these units feature a pressure safety function – the actuators are programmed to reverse if they encounter obstacles while closing.
- The window master chain drives are only available in 24V, and hence need a step down transformer.

These functions make window master the more suitable option to be implemented as smoke actuators.

DESIGN REQUIREMENTS Window Master 24 volt DC Chain Drives

- Sashes must be either top hung or on frictionless stays.
- Window Master 24 volt DC electric single push chain drive (Black, White or Grey finish) to be mounted on the sash at the sill on the jamb liner.
- A 2 core cable (open/close) is required from the switch to the actuator with a permanent connection unit or similar within 250mm to the right of the centre of the motor position, with a 2 way strip connector for final connection. The actuators must not be hard wired.
- 24 volt DC electric chain drives cannot be wired direct from the switch to the chain drive as they require a controller.
- **No allowance** has been made for electrical wiring or final connection, which must be completed by a registered electrician.
- Cabling to be concealed as much as possible.

REGISTERED SITE ELECTRICIAN TO PROVIDE:

1. All electric power cables.
2. Electric power **230 volt AC** to the switches and controllers, and **24 volt DC** from controllers to a termination connection point, such as a permanent connection unit, or ceiling rose, etc. adjacent to the proposed motor position, with a strip connector to take the chain drive cable.
3. All final connections to the chain drives.



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