

## **KATO CHAIN DRIVES**

These units are Italian 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.

Being 230 volt means the cabling is very simple, and eliminates the need for transformers and controllers, which makes them even more economical. They can be wired in parallel.

Also available in 24 volt, if required.

With all electric systems, we also offer rain, smoke and temperature sensors, and remote controls, or we can offer fully integrated systems.

## **BENEFITS**

- Very discreet and unobtrusive
- Take up little space
- Do not interfere with any window treatments such as curtains or blinds
- Also available with stainless steel chains for coastal areas
- Economical – single chain drives more economical than manual gearboxes for single sash windows.
- Available 230 volt, so can be wired directly from switch to chain drive without transformers or controllers, making cabling easy and economical. Electricians love them!

## **DESIGN PARAMETERS**

- Maximum sash width for single chain drive – 1300mm
- Sashes over 1300mm require tandem chain drives
- Sashes must be top hung or on frictionless stays
- Restrictor stays must not be fitted to the sashes
- Kato single push and Kato synchro twin push – 230 volt electric chain drives [Black, White or Grey finish] to be mounted on the sash at the transom or at the sill on the jamb liner.
- Units can be spray painted to match joinery at an additional cost



**Operable Window Technologies**

PO Box 12 888, Penrose, Auckland 1642  
T: +64 9 580 3100 • F: +64 9 580 3106  
[owtnz.com](http://owtnz.com)

- 230 volt electric chain drives can be wired direct from the switch to the chain drive without the need for controllers and transformers.
- 230 volt suitable for most situations, except low level or within close proximity to water source, such as a shower head.

## **DESIGN REQUIREMENTS**

230 volt cabling is the standard voltage of cabling, so no special wiring or controllers are required.

At installation we set up the motors and limit switches, and leave the cable hanging for final connect by the electricians. They are not to be permanently hard wired.

## **REGISTERED SITE ELECTRICIAN**

- Supplies all electric power [230 volt] to the switches and each chain drive, with 3 core cable between the switch and the chain drive [open, close and neutral – no earth required as motors are double insulated].
- Supplies and installs the switches, which must have a neutral position to the chain drives.
- Supplies and installs a permanent connection unit or ceiling rose, or similar, positioned approximately 250mm to the right hand side of the centre of the sash with a 2 way strip connector for final connection [additional information required for tandem units].
- The chain drives must not be hard wired.
- Makes all final connections to the chain drives.
- Conceals cables as much as possible.



**Operable Window Technologies**

PO Box 12 888, Penrose, Auckland 1642

T: +64 9 580 3100 • F: +64 9 580 3106

[owtnz.com](http://owtnz.com)