

## Window Actuation

**Chain actuators provide the most cost effective solution for window automation. We have partnered with SE Controls to deliver best in class actuation and control.**

### What to Consider When You Need to Automate a Window?

The following 12 criteria are an indication of the types of information you may need to consider when choosing the correct actuator for your application.

- Smoke or natural ventilation
- Chain or linear actuator
- Actuator size/aesthetics
- Locking points
- Vent position
- Free area requirement/ opening stroke
- Finish
- Voltage
- Force (N)
- Hinge type
- Speed
- Flex length and specification

SE Controls' chain actuators are available in a wide range of stroke lengths from 100mm -1000mm, with multi point locking abilities in order to meet security performance requirements and programmable seal relief for improved weather performance.

The range includes both 24V or 230V dc versions with bespoke body lengths and finishes available. Concealed solutions can also be offered.

The actuators are designed with noise reduction in mind and perform  $\leq 4\text{dB}$  and also feature programmable speed for accuracy of position.



### Integration with Breathing Buildings

Integration varies depending on the mode of operation and the size and scope of a particular project. The integration can range from provision of a 0-10V control signal to Breathing Buildings providing and installing the full system through our partners SE Controls.

### Installation

With a varied range of automation products, partnered with a vast array of window systems and materials available within the industry, the need for qualified and experienced engineers is more important now than ever. It is well documented that 90% of product failure can be attributed to incorrect installation and product selection. SE Controls have a national network of over forty engineers all of which have been trained via their in house installation academy. They are familiar with window system componentry and all hold CSCS certification.



### Manual Opening Windows

Manual winding gear solutions can be applied to single or multiple vents to provide smoke or natural ventilation. With opening strokes of 250mm or 380mm they are available in 3 standard finishes.

