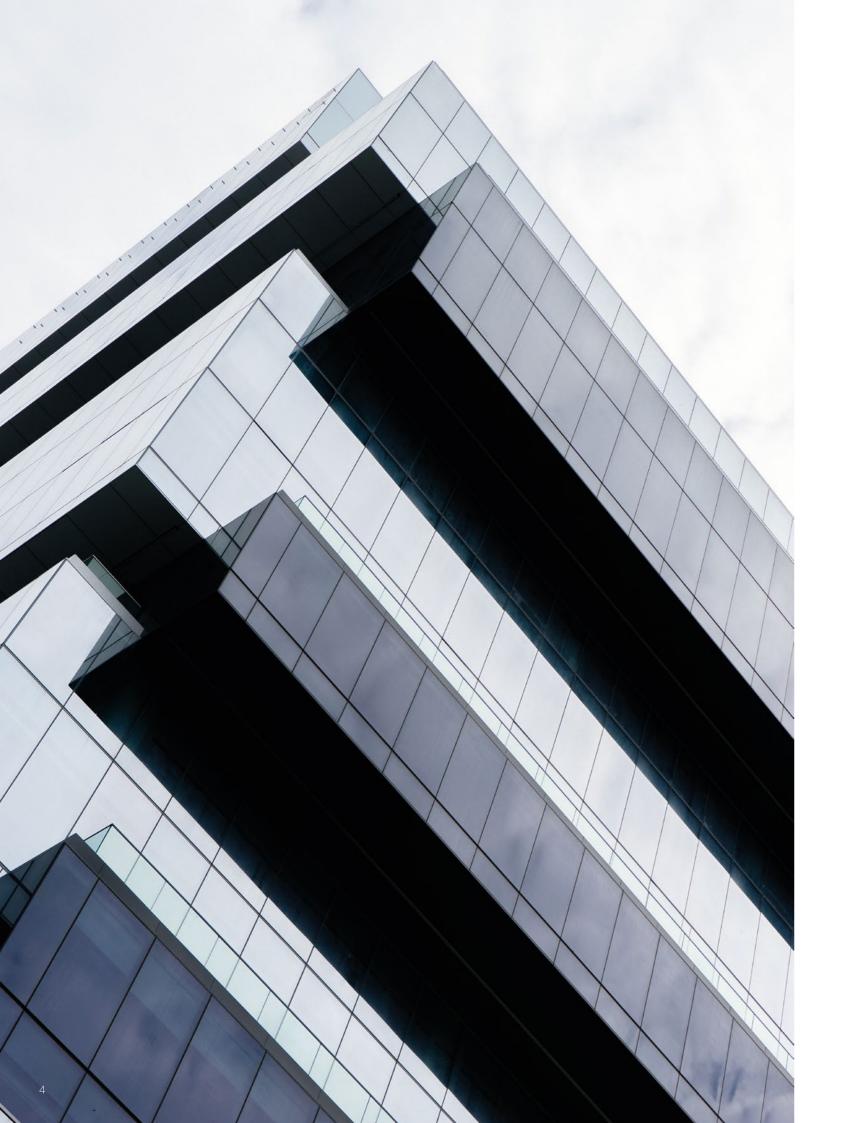


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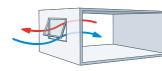


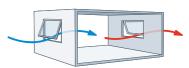
/ INTRODUCTION

ARE YOU LOOKING FOR WAYS TO REDUCE YOUR BUILDING'S ENERGY CONSUMPTION?

Using windows and/or rooflights to naturally ventilate your building can improve the indoor air quality, reduce carbon emissions and improve your learning or working environment.

HIGHLINE is a manual window control system designed to operate high level windows or rooflights from an easy to reach location. The system is modular allowing it to be used on almost any window size, style or material.





SINGLE VENTILATION

Opening vents to one side of the room will provide a basic ventilation system.

VENTILATION Opening vents on two or more sides to create

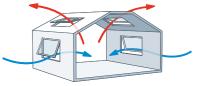
highline



COST EFFECTIVE ZERO ENERGY CARBON NEUTRAL LOW MAINTENANCE NATURAL

BUILDING TYPES

SCHOOLS GYMNASIUMS HOSPITALS OFFICES MUSEUMS ART GALLERIES



UPFLOW VENTILATION

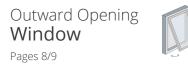
A mixture of vertical and flat/pitched roof vents to create upflow ventilation.

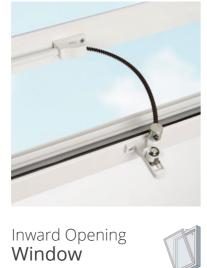


cross ventilation.

TYPES OF OPENING









Louvre **Window** Pages 12/13



1111

Centre-Pivot **Window** Pages 14/15





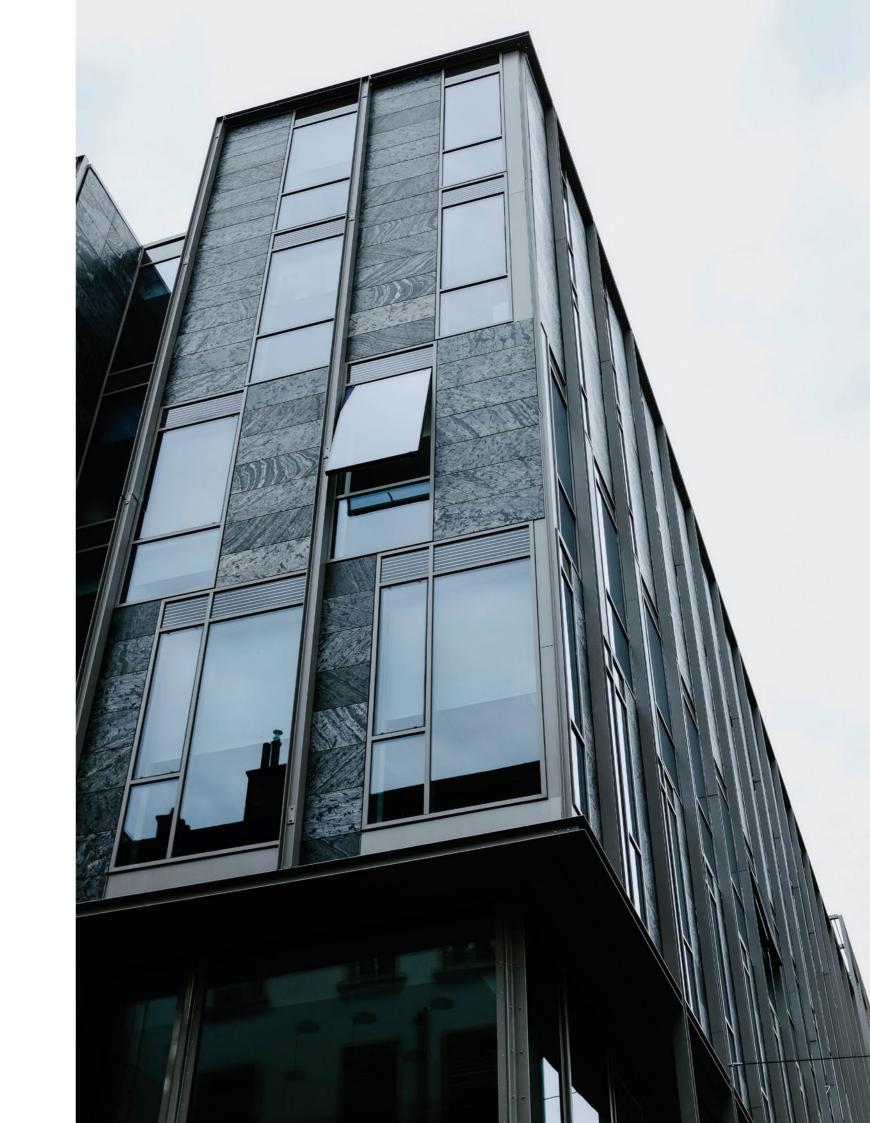
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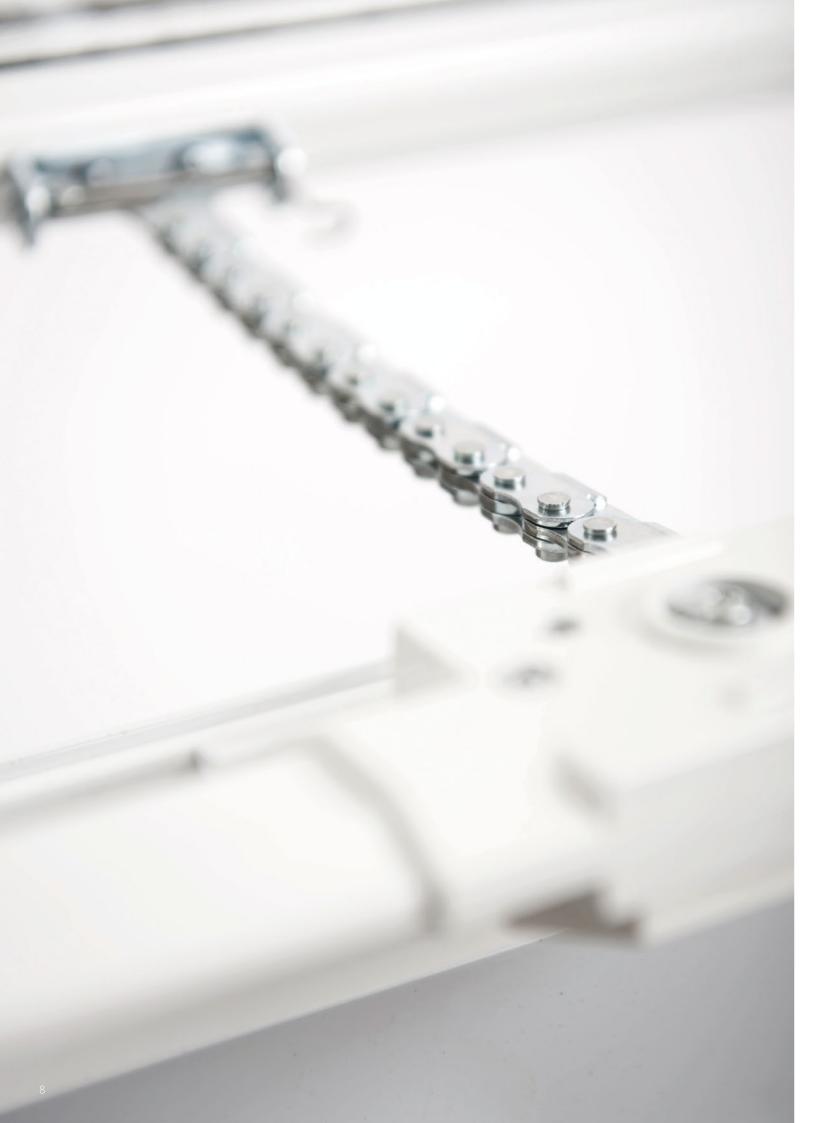


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Roof **Dome**





CHAIN OPENER

Manual Chain Opener used to drive open or close a high level or hard to reach window. Maximum opening stroke of 250 mm (T100) or 380 mm (T150) (adjustable). Can be fitted to most window types Aluminium, Timber or uPVC. Individual or multiple T100/T150 Chain Openers can be controlled from a single T200, T210, T250 or T300 Operator. Various fixing brackets available (each sold separately). Supplied complete with vent bracket.

CHAIN OPENER

Fixed to the outer frame of the opening vent. When cable is driven through the unit the opener will push to open or pull to close the opening vent.

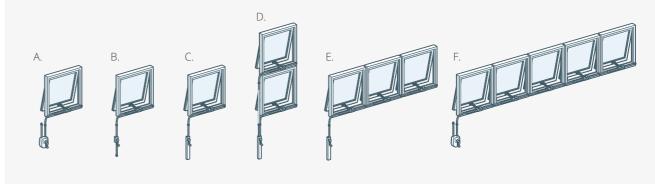
CONDUIT

Plastic covered metal tube with nylon inner liner. Used to house inner cable which is driven from Operator to Opener.

OPERATOR

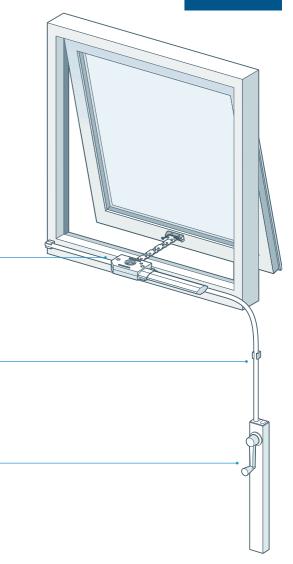
Used to wind inner cable through conduit. The handle can be turned one way to Open the window or turned the other way to Close.

EXAMPLES



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highline



LOCKING OPENER

Manual Locking Opener for bottom hung inward opening windows. Maximum opening of 250 mm (adjustable). Can be fitted to most window types Aluminium, Timber or uPVC. Individual or multiple T175 Locking Openers can be controlled from a single T200, T210, T250 or T300 Operator.

LOCKING OPENER

Fixed to the outer frame of the opening vent. When cable is driven through the unit the opener will push to open or pull to close the opening vent.

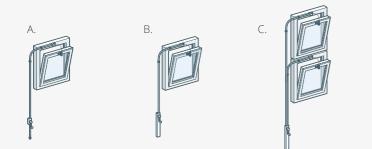
CONDUIT

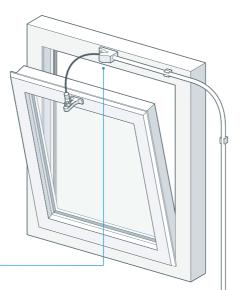
Plastic covered metal tube with nylon inner liner. Used to house inner cable which is driven from Operator to Opener.

OPERATOR

Used to wind inner cable through conduit. The handle can be turned one way to Open the window or turned the other way to Close.

EXAMPLES







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D



FORK & SWIVEL OPENER

Manual Fork & Swivel Opener for opening and closing Louvre Windows. Maximum opening of 250 mm (adjustable). Individual or multiple T190 Fork & Swivel Openers can be controlled from a single T200, T210, T250 or T300 Operator.

FORK & SWIVEL OPENER

FFixed to the outer frame of the louvre. When cable is driven through the unit the opener will push to open or pull to close the louvre blades.

CONDUIT

Plastic covered metal tube with nylon inner liner. Used to house inner cable which is driven from Operator to Opener.

OPERATOR

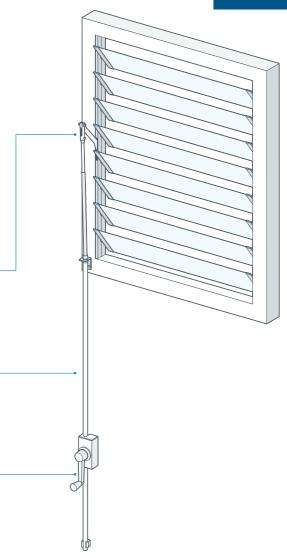
Used to wind inner cable through conduit. The handle can be turned one way to Open the window or turned the other way to Close.

EXAMPLES



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highline





SCREWJACK OPENER

Manual Screwjack Opener to operate high level rooflights. Maximum opening of 380 mm (adjustable). Can be fitted to most window types Aluminium, Timber or uPVC. Individual or multiple SJ138600 Screwjack Openers can be controlled from a single T200, T210 or T300 Operator. Supplied complete with fixing brackets.

SCREWJACK OPENER

Fixed to the outer frame of the opening vent. When cable is driven through it's inner cog the spindle inside the opener will push to open or pull to close the opening vent.

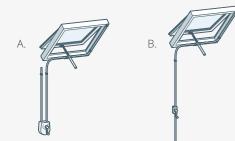
CONDUIT

Plastic covered metal tube with nylon inner liner. Used to house inner cable which is driven from Operator to Opener.

OPERATOR

Used to wind inner cable through conduit. The handle can be turned one way to Open the window or turned the other way to Close.

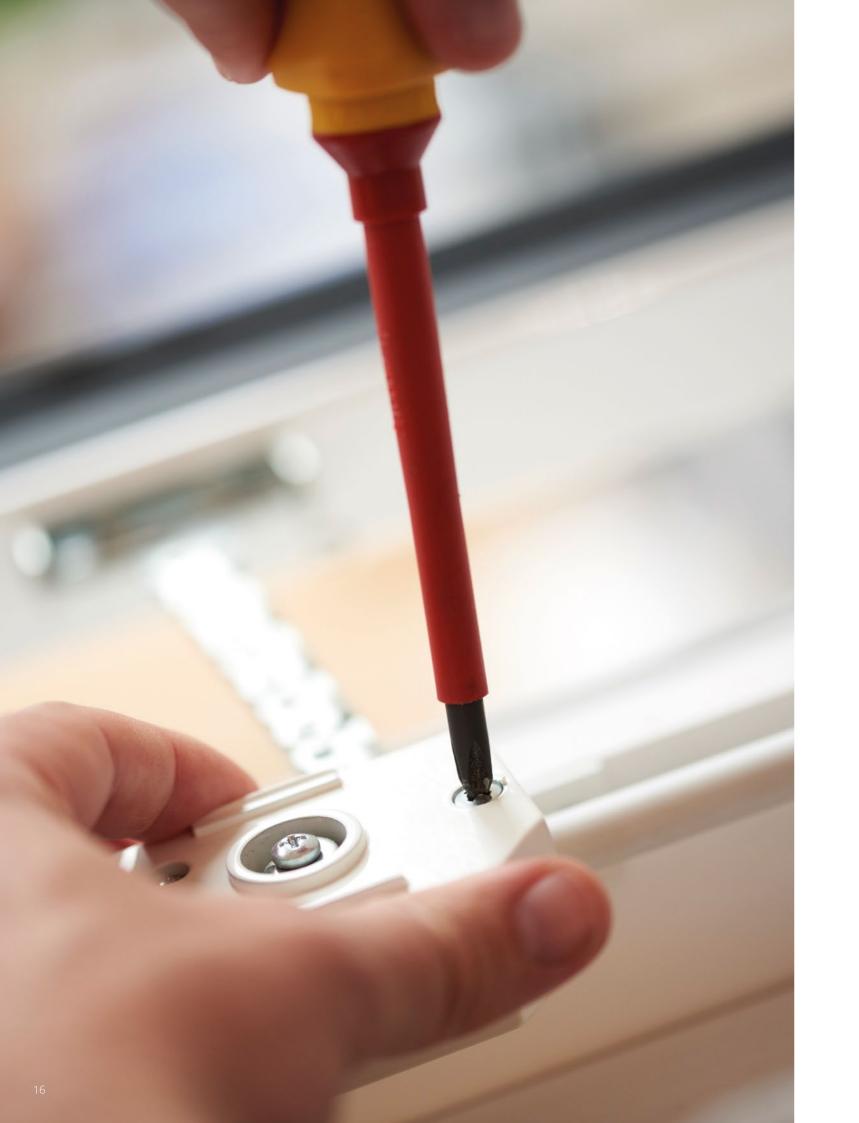
EXAMPLES





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OPERATORS





Maxi Operator . (250-380mm)

T260 Midi Operator (250mm) Midi Operator (380mm)

OPENERS





SJ138600 Screwjack Opener (380mm)

T100 T150

ACCESSORIES



Operator Handle

T275 Operator Handle



T420 End Cap

T450 Inner Cable

T600



Inward Opening

Bracket Kit



T740 Narrow Fixing Plate







T850 T900

Conduit Groove Tool

T950 Conduit Bending Tool





T300 Mini Operator . (250-380mm)







T175 Chain Opener (250mm) Chain Opener (380mm) Locking Opener (250mm) Fork & Swivel Opener (250mm)



T190



T400 Conduit



T410/T411 Square Conduit







T700 Spring Stop





Angled Fixing Plate



T800 Conduit Connector



TECHNICAL DATA

Minimum window height for full 250mm travel of T100 - 500mm

Minimum window height for full 380mm travel of T150 - 900mm

Chain openers fitted on windows less than recommended height must have opening restricted to 30% of the vent height using the T700 spring stop or T720 brass stop nuts to shorten the cable run. Use only T200, T210, T260 or T300 operator with the T150 (380mm) chain opener.

For safety reasons we recommend fitting side support stays to all bottom-hung, open-in windows. For bottom-hung applications you must fit the T850 fixing kit.

MAXIMUM CONTROL RUN

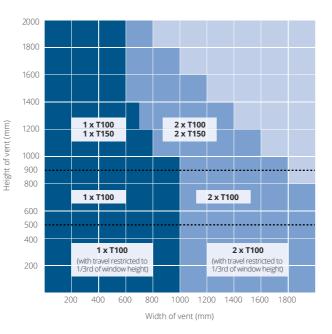
OPERATOR	MAXIMUM CONTROL RUN
T200	30 metres
T210	30 metres
T250/260	18 metres
T300	18 metres

SPENT TRAVEL CONDUIT

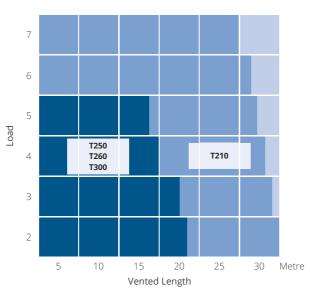
To allow for the forward/backward movement of the inner cable a length of "spent travel" conduit must be fitted at either end of the control path i.e. past the last chain/ screwjack and below the operator (except the T250 & T260 operators which have an integral "spent travel" tube).

TYPE OF OPERATOR	SPENT TRAVEL CONDUIT
SJ138600 Screwjack	2.5m (for full 380mm travel)
T100 Chain Opener	0.3m
T150 Chain Opener	0.45m

NUMBER OF OPENERS PER VENT



TYPE OF OPERATOR



LOAD = No. of chain openers + No. of bends in conduit

The above figures are based on a single bend in the conduit path. For each additional bend deduct 1 metre from the Vented Length total.

The figures used in these charts are based on windows with 4mm double glazed units fitted to butt hinges or free pivots, not friction stays. Please refer to our sales or technical department for advice if friction stays are fitted.







DUN AN RI SCHOOL Kingscourt



BIG DATA INSTITUTE University of Oxford



BATTERSEA POWER STATION London





NIFRS Belfast

COLÁISTE CHÚ CHULAINN SCHOOL Dundalk

QUALITY INSTALLATION

We believe HIGHLINE products are the best on the market. We also believe that our HIGHLINE Approved Installers are the best in the industry.

HIGHLINE Approved Installers must demonstrate the quality of their work meets the HIGHLINE standard. Their work in regularly assessed by our team ensuring the end product is always of the highest standard.

Using a HIGHLINE Approved Installer should give you peace of mind that you are getting the very best end product.





APPROVED INSTALLER

Fry Window Controls Office 4 Unit 32 Hobbs Industrial Estate Newchapel, Surrey RH7 6HN T: 0203 388 8400

M Levesley Window Control Systems Ltd 37 Lancaster Drive Hull, East Yorkshire HU8 OHJ T: 07813 148 558 E: info@m-levesley.co.uk

Five Star Maintenance 5b Forresters Business Park Estover, Plymouth PL6 7PL T: 01752 558131 E: office@fivestarmaintenance.co.uk

Tag Controls 21 Overlee Road Clarkston, Glasgow G76 8BY T: 07902422796

Ideal Window Automation 12 Tandragee Road Newry County Down, Northern Ireland

BT35 ÓQE T: 028 302 64884

Colin Armitage 488 Prince Avenue Westcliff On Sea, Essex

SS0 OEW T: 07971 226 934

Ventilation Gear 109 Burnham Road Great Barr, Birmingham B44 8HX

T: 0121 358 7592

MANUFACTURED IN ITALY



The HIGHLINE range of manual window control systems have been supplied and successfully installed throughout the UK and around the world since 2000.

Designed to operate high level or difficult access timber, aluminium or Upvc windows. Individual or banks of windows can be controlled from a wall mounted operator connected to window openers via length of conduit and cable.

Many thousands of sets have been successfully fitted in schools, hospitals and other commercial and domestic installations over the last 20 years.

HIGHLINE window control systems wide range of top quality products offers a perfect and reliable solution for almost every manual high level window control requirement.

Reliable, quality products that won't let you down.



www.highlinewindowcontrols.co.uk