



Product Focus - Manual 'Teleflex' Window Openers

Manual Window Openers

Manual window openers are a method of opening hard to reach windows from a remote handle located within reach. There are several brands of manual openers, but the most commonly used name is Teleflex.

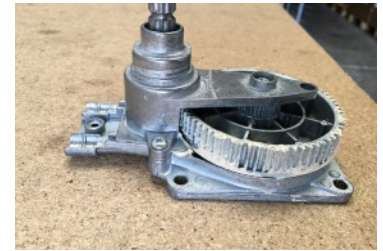
What are manual 'Teleflex' Window Openers?

A manual winding gear system consists of a chain opener you fit to the window or windows you want to operate, a low-level winding handle such as the midi or maxi operating handles located within reach

The chain and handle are connected by helical cable run from the handle up to each chain you want to operate, or though several chains to create a bank of windows that open as a group.

This winding cable is concealed in bendable conduit with a nylon inner lining fixed to the surface of a finished wall with saddle brackets

Turning the handle on the operator drives the cable forwards and backwards operating the chain or chains on the window, which will then open and close your window without needing to provide power to an electric actuator



Maxi Operator Gearbox



Chain Window Opener



Inner Cable



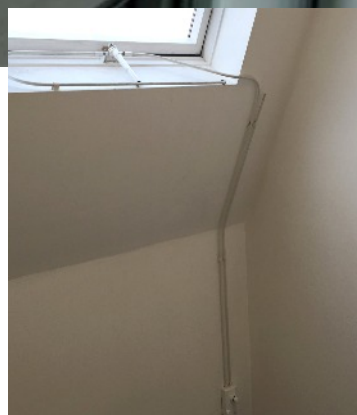
Midi Operating Handle



Grooving The Conduit



Manual Chains Fitted to a Bank of Centre Pivot Windows



Screwjack On Skylight



Natural Ventilation



Smoke Ventilation



Manual Openers



Window Controls



Electric Actuators

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Popular Applications

Manual Openers In Schools, Colleges and Universities

The most popular use for manual winding gear is in the education sector

Opening large banks of high level windows in school halls for example is the most popular use to provide a comfortable environment for the pupils and staff

Manual openers can also be used in the class rooms. It is important not to let CO2 levels build up so natural ventilation is important to provide fresh air



Manual Window Openers In The Home

Manual openers are sometimes used in the home, such as over a kitchen sink where a window is hard to reach

The Elderly and Less Able

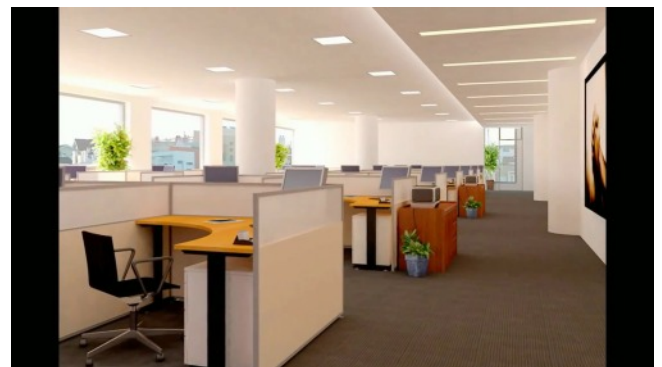
Manual openers are also often installed for the elderly or less able to make it easier to ventilate the home by placing the handles in convenient locations within reach

Commercial Buildings - Warehouses and Office Area's

Fitting manual openers in commercial buildings such as warehouses with high level windows or office spaces are a popular option

It is important to provide good ventilation in a workplace, but sometimes maximising the space available means desks or equipment can prevent easy access to the windows

Manual gear offers a good solution in these situations



No Electrical Supply

In some situations it is difficult or not possible to run an electrical power supply.

Manual openers can be fitted as an alternative to electric actuators in these cases which provides a good alternative to open high level and hard to reach windows

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Answering Some Basic Questions

What type of windows can I open with manual window openers?

Manual chain openers are suitable for most top hung windows in upvc, aluminium and timber. Plus, there is a bracket to allow them to operate bottom hung open in windows if there is the headroom to fit



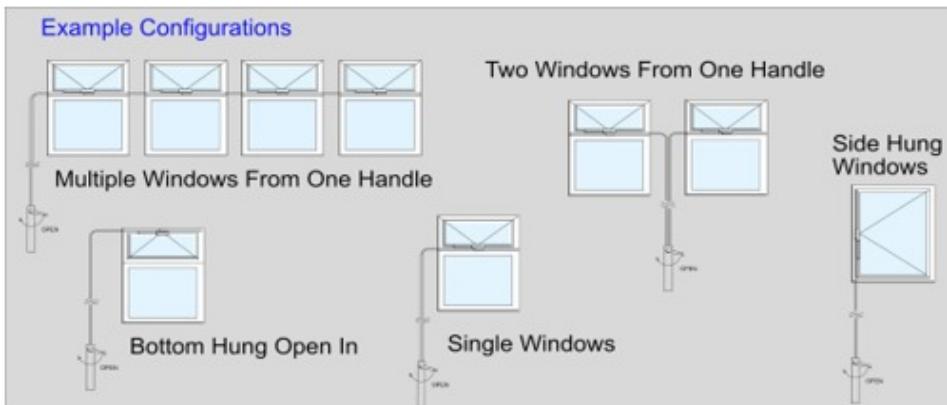
Manual Screwjack

Can I Open a Skylights or Pitched Roof Window Openers

Yes, but for a pitched roof window or skylight windows such as velux or fakro you need to use a screwjack style opener.

This is operated in the same way as the chain, but you are using a rod instead which stays rigid. The screwjack will push more weight than a manual chain and give better support to the window as a chain can sometimes collapse

Most Popular Window Opener Configurations



Can I use manual openers on a side hung window?

Yes you can use manual winding gear on side hung vents as well.

You can also operate stacked windows and windows to both sides of the handle

How far can a manual chains open windows?

Manual winders come in 2 opening distances 250mm travel and 380mm travel

The distance will depend on the height of your window,

500mm minimum height for 250mm opening distance
900mm minimum height for 380mm opening distance

How many windows can I open?

The number of windows you can open using manual winders will depend on the force required to push the vent.

The force increases with every bend you put in the conduit, the size and weight of the windows, the type of hinges which are on the window and the distance from the operating handle to the chains on the windows

We can work that out for you, a midi operating handle can generally push 4, but upgrading to a maxi handle will increase this as it has a more powerful pushing force

What colours are available?

Our manual winding gear is available in

- White
- Black
- Silver grey finish



Natural Ventilation



Smoke Ventilation



Manual Openers



Window Controls



Electric Actuators

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Answering Some Basic Questions

Can I restrict the opening distance on a manual window opener?

Yes. Sometimes when fitting manual openers on smaller windows you need to be restrict the opening distance to prevent damaging the window & control system

There are also instances, such as in schools wehre manual openers need to be restrited down to prevent people climbing out or falling out

You do this by cutting the cable short to less cable through the chain. This will reduce the distance you can drive the cogs which in turn will reduce the distance the chain pushes the window open.

When you restrict the opening distance it is important to make sure you use a spring stop and end stop as there is a risk the cable will pop out of the cog in either the chain or operator end, these prevent that from happening

How far can the handle go from the chain on the window?

The length of the run will depend on the load, how many window openers, how many bends in the conduit, how heavy the windows are etc.

Each length of conduit is 3mtrs long, but they can be joined with a conduit connector for longer runs.

Maximum Run Guidelines:

- T200 - Maxi Operator 30 Metres
- T250 / T260 - Midi Operator 18 Metres
- T300 - Mini Operator 18 Metres



We Give Full Technical Support and Advice For Your Installation

How to Get In Touch For Advice?

For help selecting the right products or Technical Support

Just give us a call on 01702 826 267
And talk to one of our team

Or drop us an email with any questions to
sales@rocburn.com



Spring Stop Preventing The Cable From Coming Out Of The Chain



End Stop Preventing Inner Cable Coming Out of The Operating Handle Gearbox

Spent Travel

You will need some excess conduit at the end of the run, this is know as 'spent travel' it hides the cable that has been pushed through the chain or screwjack.

The larger the opening or higher the gearing the more spent travel you need

T100 250mm Chain you need 300mm

T150 380mm Chain you need 450mm

380mm Push Screwjacks you need 2.5 Meters