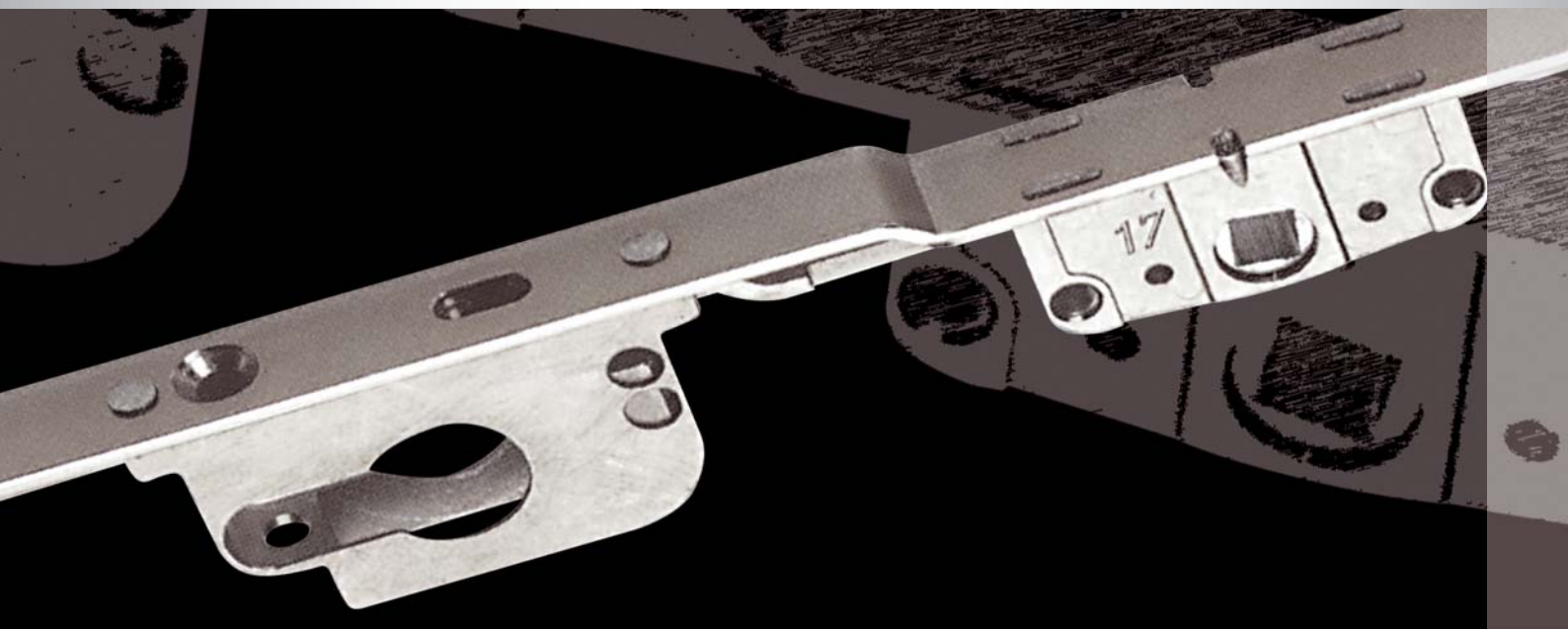


Roto In-line Sliding

Hardware catalogue



Liability exclusion

All specifications in this catalogue were compiled carefully and reviewed. Because of technical progress and legislation modifications, the data may have changed in the meantime. We therefore hope you shall understand that we cannot be held liable for the correctness, completeness, and topicality of the contents. All rights, in particular the right to copy and circulate, reserved.

Imprint

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Roto - In-line Sliding Espagnolettes

Product Liability Guidelines

1. Product information and appropriate use

According to this definition, fastening systems are fittings for windows/doors made of timber, PVC-u or aluminium, and corresponding combinations of materials, the principal function of which is to lock windows/doors.

Locking is understood to mean holding a window/door closed in such a way that it cannot be opened by being pulled or pushed, but can be opened in a straightforward manner, such as by the operation of a handle.

All locking elements engage into corresponding recesses in the window/door frame, or in locking plates, etc.

All locking elements are moved by the operation of the handle for locking and unlocking.

The fastening systems are not designed to tolerate variations in form and variations in the seal, arising from temperature differences or modifications to the construction.

The overall fitting (fastening system) in each case must be assembled from original ROTO components only. Using components which are not part of the system may result in damage which excludes liability.

In order to ensure appropriate use, correct combination with permissible fittings and means of locking (such as keys, cylinders) and accessories (such as locking plates) during assembly, fitting must be made in accordance with installation instructions or with accepted DIN standards, including those for maintenance.

Special fittings are required for windows/doors in humid rooms and for use in environments with aggressive, corrosive air content.

Binding legal provisions must be observed.

2. Misuse

The following cases in particular constitute misuse of fastening systems – i.e. inappropriate use of the product:

- if normal use is prevented by the introduction of other and/or unsuitable objects into the fastening system or into the locking plate.
- if obstructions are introduced into the opening area and thus prevent normal use.
- if the fastening system or locking plate are interfered or tampered with, with a resultant change to the construction, to the mode of operation or to the function.
- if the exposed locking elements are assembled or worked at a later stage, e.g. repainted, in a manner which has an adverse effect on their operation.
- if inappropriate loads, exceeding the normal force of a hand are brought to bear upon the handle linkage.
- if non-associated locking means, such as locking equipment with different dimensions or which is inserted incorrectly, are used.
- if tools or aids which have a leverage effect are used to operate the fastening system.
- if additional loads are imposed upon the window/door.

3. Product performance

Where product performance is not set down in concrete terms in our catalogues and promotional literature, the requirements to be imposed upon the individual fastening systems must be agreed with us.

The suitability of fastening systems for use is dependent upon, amongst other things, the frequency of operation, the mode of operation, environmental influences and maintenance.

Assembly of window/door fittings.

The manufacturer's specifications pertaining to the assembly of window/door fittings (such as the arrangement of handles or additional elements of the fitting) are binding.

4. Product maintenance

Security-relevant elements of fittings should be tested for stability and checked for wear on a regular basis. If required, the fixing screws should be tightened or components should be replaced.

Furthermore, the following maintenance should be carried out at least once a year – or more frequently, depending upon the demands imposed upon the equipment:

- all moving parts and all locking points of the fastening system should be greased and tested to ensure that they are functioning properly.
- only cleaning materials which do not have an adverse effect upon the anti-corrosion treatment on the components of the fitting should be used.

Work on the fastening systems and on the associated components of the fitting, or replacement of components, should be carried out by specialist enterprises only.

5. Obligations to provide information and instruction

The following documentation is available to designers, to specialist suppliers, to processing enterprises, to clients and to users for compliance with the obligations to provide information and instruction and for maintenance work in accordance with the "Product Liability Act":

- design documentation
- catalogues
- works drawings
- maintenance and servicing instructions

In order to ensure that fastening systems for windows/doors operate effectively:

- designers are obliged to request product information from the manufacturer and to observe that information.
- specialist suppliers are obliged to observe product information and, in particular, to request works drawings, maintenance and servicing instructions from the manufacturer and to supply these to the processing enterprises.
- processing enterprises are obliged to observe the product information and in particular to request maintenance and servicing instructions as well as operating instructions from the manufacturer and to pass these on to clients and users.

6. Use of related fittings

In terms of product information and proper use, misuse, performance, product maintenance and obligations to provide information and instruction, the variants possible within the individual fastening systems should be treated as appropriate, depending upon the features in question.

Roto's 1800, in-line sliding hardware programme, offers four point security, adjustable tandem rollers, various handle options and a buffer stop. As well as an anti-lift pin, the offers the option of adding an anti-mishandling device, which prevents the hooks from being thrown before the door has been closed.

Sliding Door Espagnolettes

- 17 mm backset
- Faceplate width 16 mm
- One piece lock assembly
- Four point security
- Anti lift pin incorporated on all designs
- Anti-mishandling device available
- One piece or individual striker options
- RotoSil (silver) coatings

Tandem Roller

The tandem roller is available in the following formats:

Standard 12mm wide carriage

Standard 14mm wide carriage

Slimline R (radiused track) 12mm wide carriage

Slimline V ("v" track) 12mm wide carriage

Characteristics of the standard tandem rollers:

- Adjustable between 19mm & 26mm.
- Sash weight capability, 122kg per pair of rollers.

Characteristics of the slimline rollers:

- Adjustment between 15mm & 19mm.
- Sash weight capability, 100kg per pair of rollers.

Common characteristics:

- No routing required -
outer carriage locates in the eurogroove.
- Plastic end blocks, making it easier to locate
height adjuster and fixing screws.

Handles

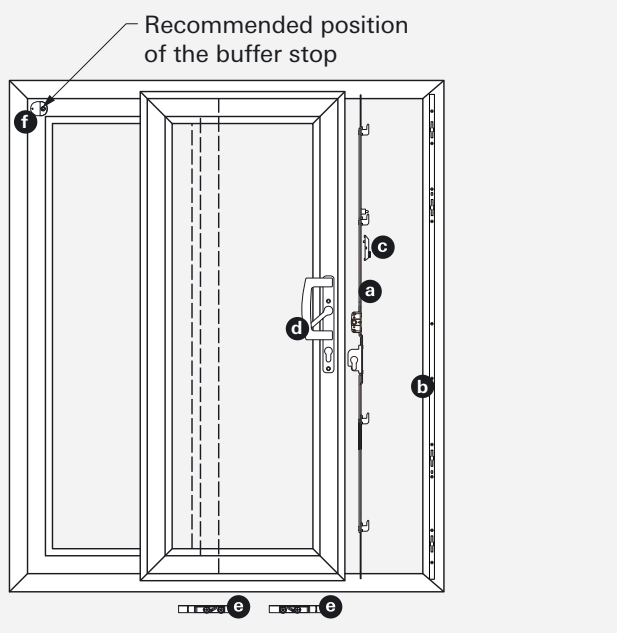
Handle sets have both internal and external locking ability. These sets are available in white, black, gold or chrome.

As with all Roto products, a brand synonymous with quality, you are guaranteed a virtually maintenance free, smooth operating sliding patio door.

Roto - In-line Sliding Espagnolettes

Overview

Roto's in-line sliding hardware programme incorporates an 1800mm espagnolette offering four point security, adjustable tandem rollers, various handle options and a buffer stop. The espagnolette has four, 14mm sliding hooks, incorporates an anti-lift pin and offers the option of adding an anti-mishandling device, which prevents the hooks from being thrown before the door has been closed.



1800 espagnolette locking system

a	1800 espagnolette	See page 8 for details
b	One piece striker	See page 8 for details
c	Anti-mishandling device	343733
d	White patio handle set	377642
	Black patio handle set	385030
	Gold patio handle set	377643
	Chrome patio handle set	377644
e	Tandem rollers	See page 11 for details
f	Buffer stop - white (RAL 9016)	317250
	Buffer stop - dark brown (RAL 8019)	317251
	Buffer stop - black (RAL 9005)	335555

RotoSil coating offers an optically superior matt-silver finish and is corrosion resistant to BS EN 1670:1998, Part 5.6, Class 4.



Handles

The picture shows a patio handle set with internal/external locking. These handle sets are available in white, black, gold or chrome.



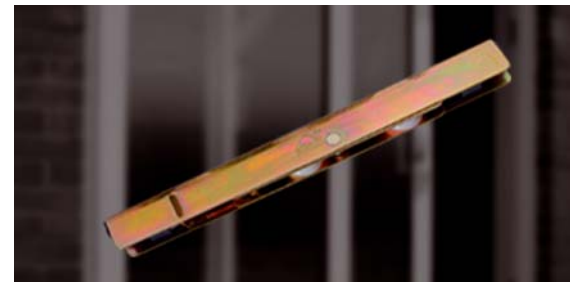
Adjustable, standard tandem rollers

The standard roller is available in two widths; 12mm for conventional eurogrooves and 14mm for wider eurogrooves. Both versions are height adjustable from 19mm to 26mm, and can carry a maximum sash weight of 120kg.



Adjustable, slimline tandem rollers

The slimline roller is 12mm wide to fit conventional eurogrooves. Its height can be adjusted from 15mm to 18.5mm, and it can carry a maximum sash weight of 100kg.



Roller height adjustment tool

Part number: 263088



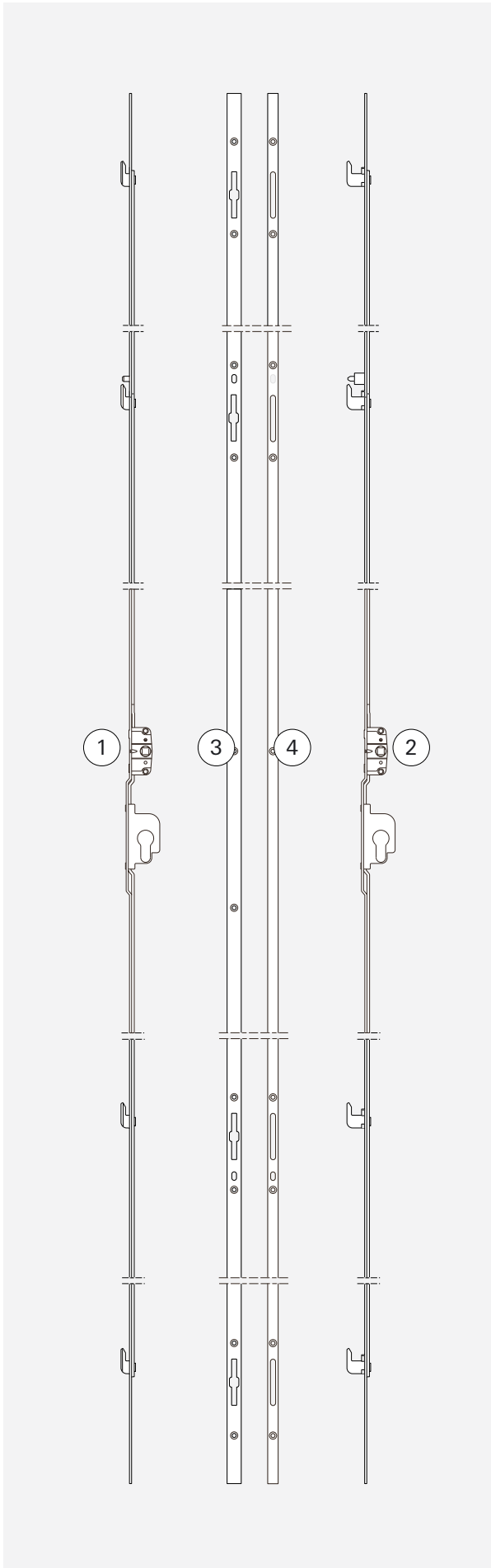
Anti-mishandling device

This device allows the hooks to be thrown only when the door has been closed, thus preventing damage to the mechanism.



Roto - In-line Sliding Espagnolettes

1800 locking system - order details

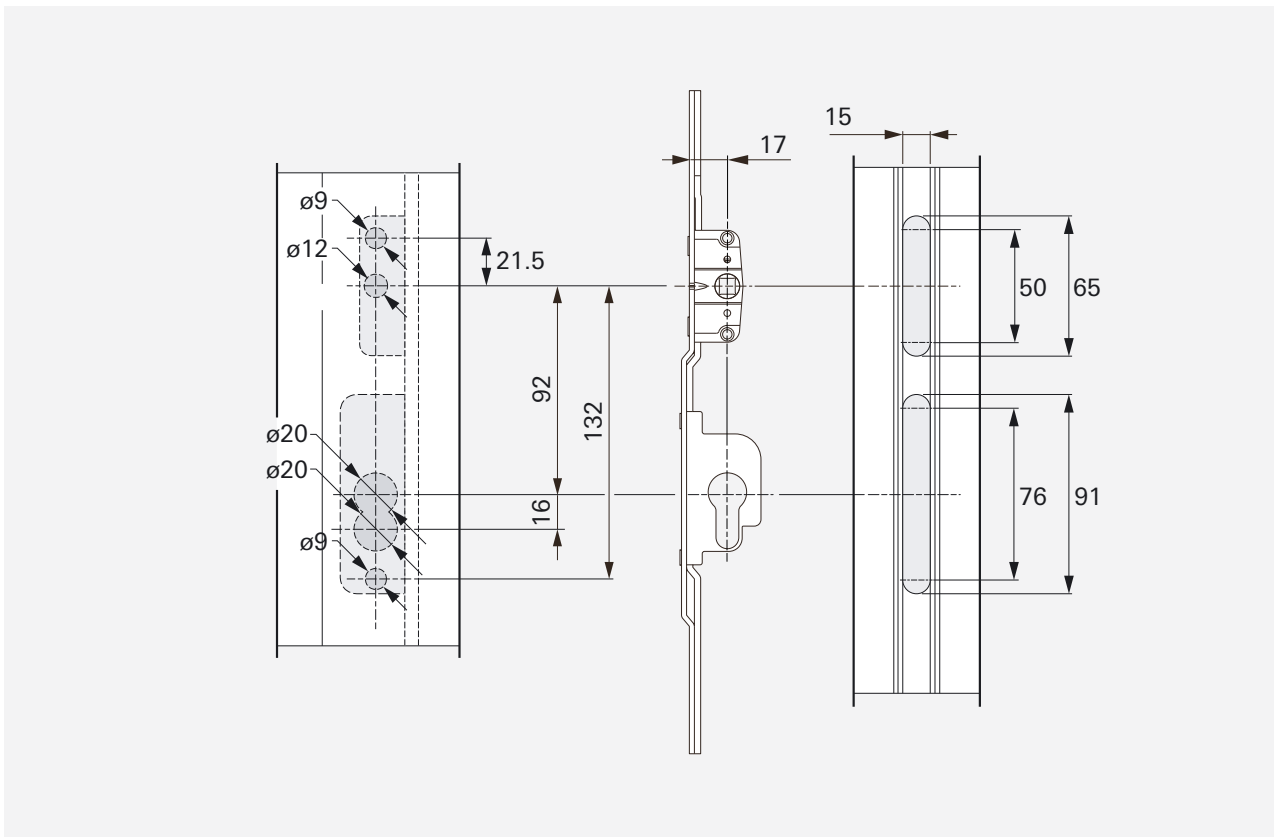


Pos.	Description	Part No.
1	Silver (RotoSil) 1800 espagnolette with four 5mm hooks & a pin.	328996
2	Silver (RotoSil) 1800 espagnolette with four 14mm hooks & a pin	329002
3	One piece striker, 15mm wide Silver (RotoSil)	329021
4	One piece striker, 10mm wide Silver (RotoSil)	334062

Individual strikes are available for position 1, contact ROTO offices for availability.

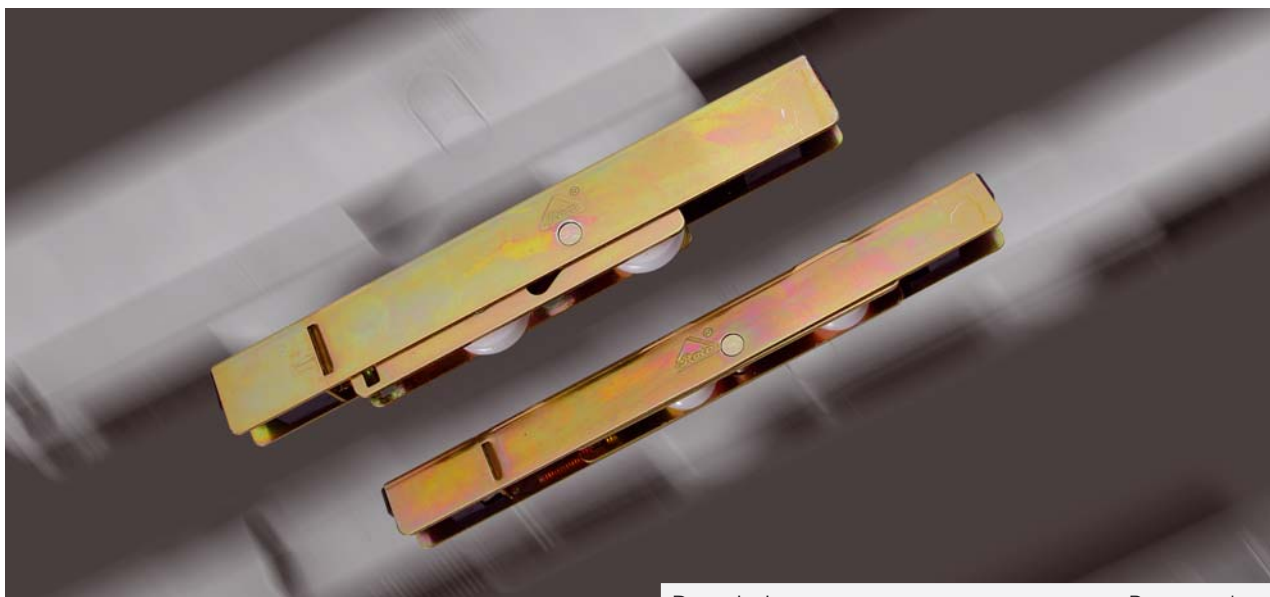
Roto - In-line Sliding Espagnolettes

1800 espagnolette - routing details



Roto - In-line Sliding Espagnolettes

Adjustable tandem rollers - order details



Adjustable, standard tandem rollers

The standard roller is available in two widths; 12mm for conventional eurogrooves and 14mm for wider eurogrooves.

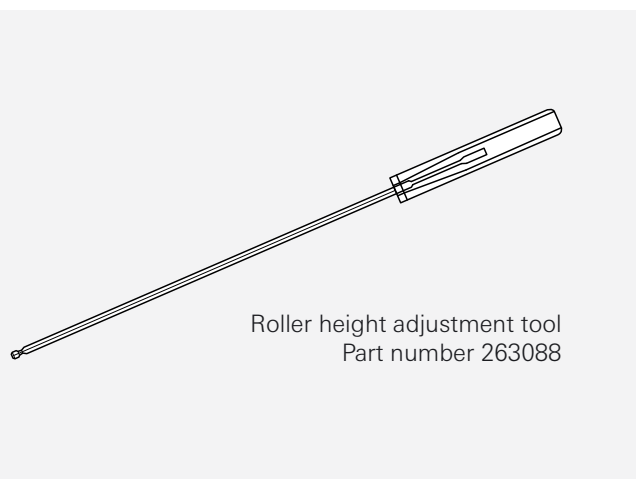
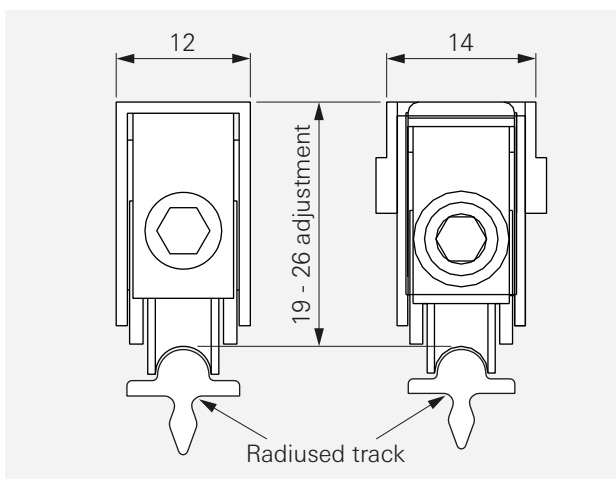
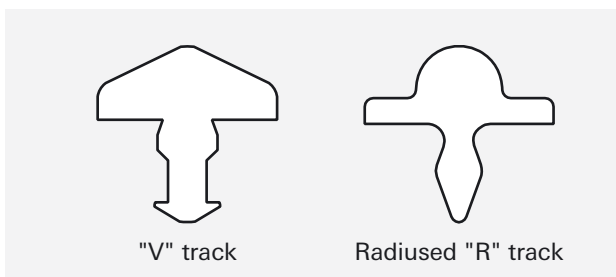
Both versions are adjustable from 19mm to 26mm and can carry a maximum sash weight of 120 kg.

Adjustable, slimline tandem rollers

The slimline roller is available in two formats; one for a radiused ("R") track, and one for a "V" track.

Both versions are adjustable from 15mm to 18.5mm and can carry a maximum sash weight of 100 kg.

Description	Part number
Adjustable, standard 12 mm roller	280445
Adjustable, standard 14 mm roller	312896
Adjustable slimline "R" 12 mm roller	312897
Adjustable slimline "V" 12 mm roller	297216



Roller height adjustment tool
Part number 263088



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