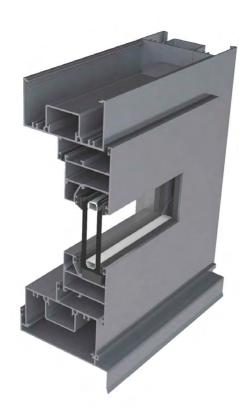


Max[™] MULTI LOCKING PROJECT OUT SASHES
Max Framing Systems: MULTILOCKING - 1

Multi Locking Project Out Sashes



FEATURES:

- Quality Roto European Hardware
- Sash Adaptor Mitre cut adaptable to Centre & Front Glaze
- Multi Locking as a turn handle sill mounted as an awning
- Multi Locking as a turn handle side mounted as a casement
- No screen option unless winder operated or retractable screens
- 180kg Sash weight
- Capable of awning sashes up to 2400mm high & 1200mm wide, subject to hardware limits
- Capable of casement sashes up to 2400mm high & 900mm wide, subject to hardware limits
- Glass: 24mm 38mm IGU's

FABRICATION:

- Mitre cut
- Corner staked & crimped to provide a rigid joint to lessen the instance of Sashes dropping.

PRODUCT APPLICATIONS:

- Very large Sashes
- High windload areas
- Improved Acoustics through wide range of glass types
- Operable blinds in IGUs

LIMITATION:

Ability to fit flyscreens on 100mm framing in particular

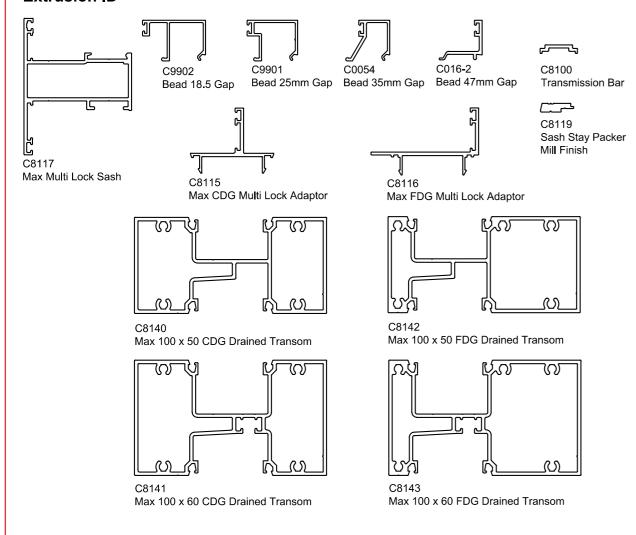
HARDWARE SELECTION:

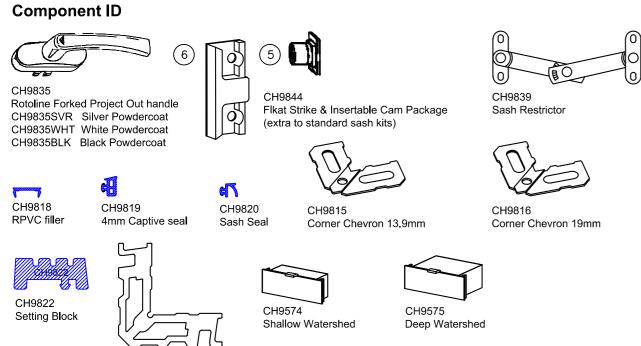
Selecting the correct hardware for application is determined by many factors that change on a project by project basis. Careful consideration needs to be given to opening type, size & weight, wind loads, location within the building, security, ease of operation, budget, serviceability & aesthetic requirements.

Typical hardware is shown throughout our catalogues to depict opening types & function. There are a range of sash types available to cover a variety of applications. Once the opening type has been selected, it is the responsibility of the fabricator to determine hardware suitability with the hardware manufacturer, ensuring their selection meets project requirements.

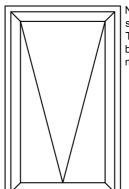


Max[™] MULTI LOCKING PROJECT OUT SASHES Max Framing Systems: MULTILOCKING - 2 Extrusion ID

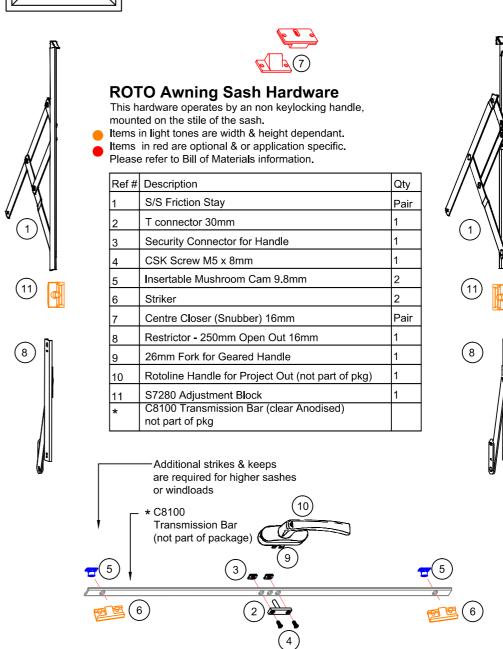




Multi Locking Awning Hardware ID



Note: Awning Sash hardware in the schematic is shown from Inside. The handle is fitted centrally off the back of the sash bottom rail & non-key locking as standard.

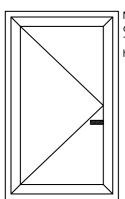


CH810252

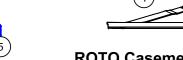
Cornerstake 17.3mm



Max[™]MULTI LOCKING PROJECT OUT SASHES Max Framing Systems: MULTILOCKING - 3 **Multi Locking Casement Hardware ID**



Note: Left Hand Casement Sash depicted as viewed from Outside. The hardware schematic view below however is viewed from Inside.



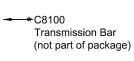
ROTO Casement Sash Hardware

This hardware operates by an non keylocking handle, mounted on the stile of the sash.

- Items in light tones are width & height dependant.
- Items in red are optional & or application specific.
- Please refer to Bill of Materials information.

		Ref#	Description	Qty
		1	S/S Friction Stay	Pair
6	(5) **	2	T connector 30mm	1
(A)		3	Security Connector for Handle	1
(hai		4	CSK Screw M5 x 8mm	1
		5	Insertable Mushroom Cam 9.8mm **	2
		6	Striker **	2
		7	Centre Closer (Snubber) 16mm	Pair
	(3)	9	26mm Fork for Geared Handle	1
(2)		10	Rotoline Handle for Project Out (not part of pkg)	1
	9 (10)	*	C8100 Transmission Bar (clear Anodised) not part of pkg	
4				
	→ *C8100			

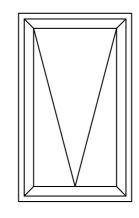








Multi Locking Awning Sash



Adapts to Max 100 Centre Glazed, 150 Offset, 100 & 150 Front Glazed

DOH - 128

DOW - 92

C8117

- Maximum Sash weights generally
- Refer Hardware specification handle Operated key locking & multi
- Not recommended for use with winders
- Max Sash Height: 2100mm
- Max Sash Width: 1200mm
- Glass: 24-28mm IGU

Sash

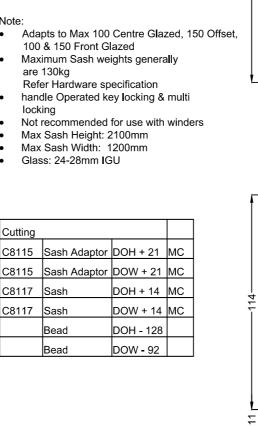
Bead

C9500

Cutting

C8117

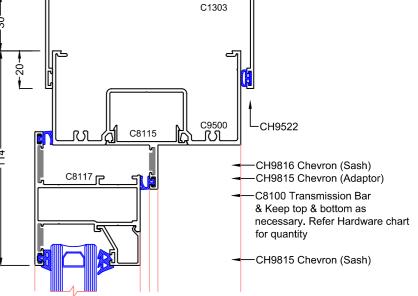
C8117 Sash



CH9819

_Co-ex backing seal

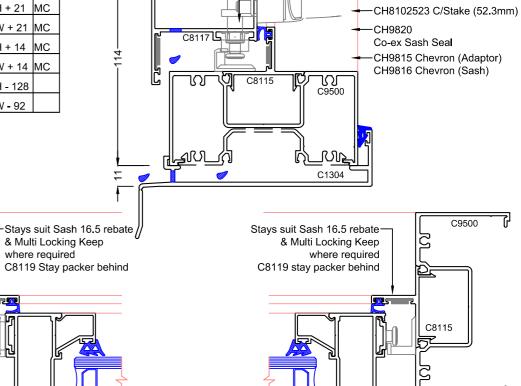
CH9503



-handle

-CH9815 Chevron (Sash)

-16.5 Sash Rebate, multilock keep

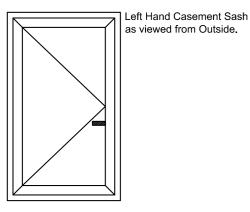


& Multi Locking Keep

where required

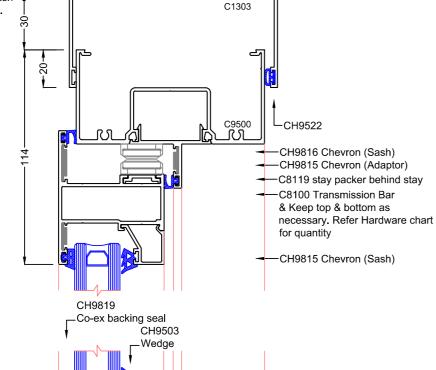


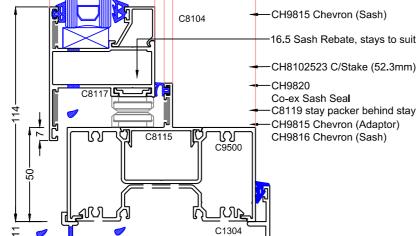
Max[™]MULTI LOCKING PROJECT OUT SASHES Max Framing Systems: MULTILOCKING - 4 Multi Locking Casement Sash

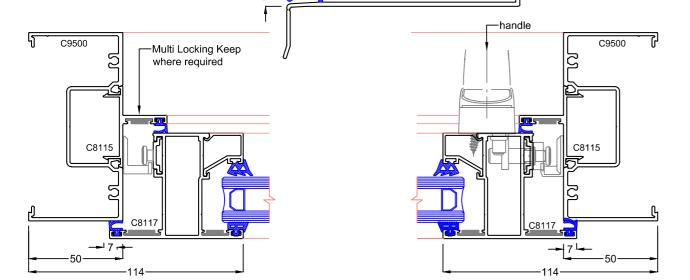


- Maximum Sash weights generally are 72kg with HD casement stays Refer Hardware specification
- handle Operated key locking Multi Locking points available for
- security & strength Max Height 2100mm
- Max width 900mm
- Glass: 24-28mm IGU

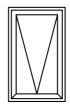
Cutting			
C8115	Sash Adaptor	DOH + 21	мс
C8115	Sash Adaptor	DOW + 21	мс
C8117	Sash	DOH + 14	мс
C8117	Sash	DOW + 14	мс
	Bead	DOH - 128	
	Bead	DOW - 92	
	-		







Awning Hardware Packages



Note: Hardware is variable dependant on Sash Height, Width, weight & handle finish.

Select: Kit + handle for a complete bill of materials

СНТН1	Project Out Sash Sash Height 300 - 500mm up to 40kg	
Ref#	Description	Qty
1	203mm Friction Stay	Pair
2	T Connector 30mm	1
3	Security Connector for handle	1
4	CSK Screw M5 x 8	2
5	Insertable Mushroom Cam 9.8mm	2
6	Strike for 767006	2
7	Centre Closers (Snubber) 16mm	2
8	26mm Fork for Geared handle	1

СНТН3	Project Out Sash Sash Height 701 - 1200mm up to 55kg	
Ref#	Description	Qty
1	406mm Friction Stay	Pair
2	T Connector 30mm	1
3	Security Connector for handle	1
4	CSK Screw M5 x 8	2
5	Insertable Mushroom Cam 9.8mm	3
6	Strike for 767006	3
7	Centre Closers (Snubber) 16mm	Pair
8	26mm Fork for Geared handle	1

СНТН5	Project Out Sash Sash Height 1201 - 1500mm up to 120kg	
Ref#	Description	Qty
1	660mm Friction Stay	Pair
2	T Connector 30mm	1
3	Security Connector for handle	2
4	CSK Screw M5 x 8	2
5	Insertable Mushroom Cam 9.8mm	3
6	Strike for 767006	3
7	Centre Closers (Snubber) 16mm	Pair
8	26mm Fork for Geared handle	1
10	Restrictor - 16mm Stack Height	1
11	S7280 Adjustment Block	1

CHTH2	Project Out Sash Sash Height 501 - 700mm up to 45kg	
Ref#	Description	Qty
1	203mm Friction Stay	Pair
2	T Connector 30mm	1
3	Security Connector for handle	1
4	CSK Screw M5 x 8	2
5	Insertable Mushroom Cam 9.8mm	2
6	Strike for 767006	3
7	Centre Closers (Snubber) 16mm	3
8	26mm Fork for Geared handle	1

CHTH4	Project Out Sash Sash Height 1201 - 1500mm up to 75kg	
Ref#	Description	Qty
1	559mm Friction Stay	Pair
2	T Connector 30mm	1
3	Security Connector for handle	1
4	CSK Screw M5 x 8	3
5	Insertable Mushroom Cam 9.8mm	2
6	Strike for 767006	2
7	Centre Closers (Snubber) 16mm	Pair
8	26mm Fork for Geared handle	1
10	Restrictor - 16mm Stack Height	1

СНТН6	Project Out Sash Sash Height 1501 - 2400mm up to 180kg	
Ref#	Description	Qty
1	660mm HD Friction Stay	Pair
2	T Connector 30mm	1
3	Security Connector for handle	2
4	CSK Screw M5 x 8	2
5	Insertable Mushroom Cam 9.8mm	3
6	Strike for 767006	3
7	Centre Closers (Snubber) 16mm	Pair
8	26mm Fork for Geared handle	1
10	Restrictor - 16mm Stack Height	1
11	S7280 Adjustment Block	1



Max[™]MULTI LOCKING PROJECT OUT SASHES Max Framing Systems: MULTILOCKING - 5 **Casement Hardware Packages**

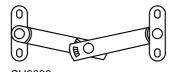


Note: Hardware is variable dependant on Sash Height, Width, hand, Weight & handle finish. Select: Kit + handle for a complete bill of materials

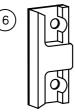
CHSH1	Casement Sash Sash Width 380 - 550mm up to 40kg	
Ref#	Description	Qty
1	305mm SS Friction Stay	Pair
2	Run Up Block - deleted from package	
3	T Connector 30mm	1
4	Security Connector for handle	1
5	CSK Screw M5 x 8	2
6	Insertable Mushroom Cam 9.8mm	2
7	Strike for 767006	2
8	Centre Closers (Snubber) 16mm	1
9	26mm Fork for Geared handle	1

CHSH2	Casement Sash Sash Width 551 - 700mm up to 45kg	
Ref#	Description	Qty
1	405mm SS Friction Stay	Pair
2	Run Up Block - deleted from package	
3	T Connector 30mm	1
4	Security Connector for handle	1
5	CSK Screw M5 x 8	2
6	Insertable Mushroom Cam 9.8mm	3
7	Strike for 767006	3
8	Centre Closers (Snubber) 16mm	1
9	26mm Fork for Geared handle	1

CHSH3	Casement Sash Sash Width 701 - 900mm up to 72kg	
Ref#	Description	Qty
1	405mm SS 4 Bar Csmnt Egress Stay	Pair
2	Run Up Block - deleted from package	
3	T Connector 30mm	1
4	Security Connector for handle	1
5	CSK Screw M5 x 8	2
6	Insertable Mushroom Cam 9.8mm	3
7	Strike for 767006	3
8	Centre Closers (Snubber) 16mm	1
9	26mm Fork for Geared handle	1



CH9839 Sash Restrictor used to limit sash opening when required





CH9844 Flat Strike & Insertable Cam Package (extra to standard sash kits)



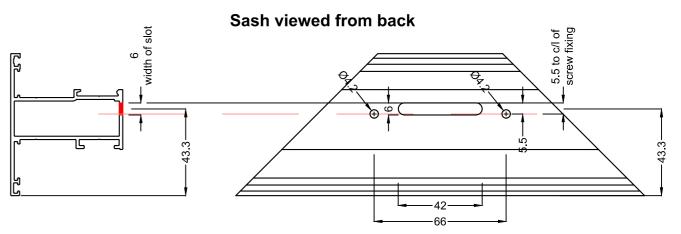
CH9835 Forked handle non key locking suits awning & casement

Rotoline handle (suits fork)				
Ref#	Code	Finish		
10	CH9835SVR	Silver Powdercoat		
10	CH9835WHT	White Powdercoat		
10	CH9835BLK	Black Powdercoat		

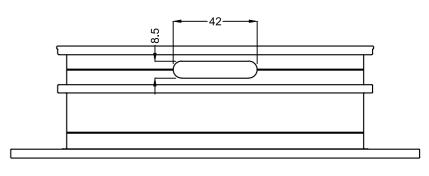
Example for Ordering

1800 x 1200 awning, White handle CHTH4 Kit + CH9835WHT handle

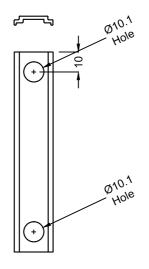
Multi Locking Sash Machining



Sash viewed from underneath



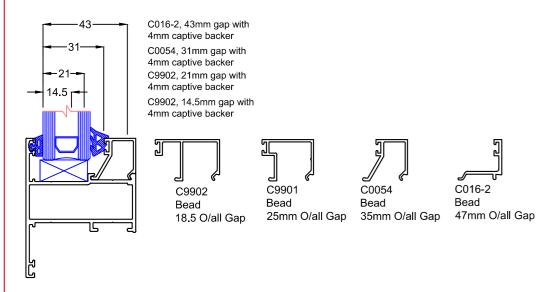
Transmission Bar Machining





Max[™]MULTI LOCKING PROJECT OUT SASHES Max Framing Systems: MULTILOCKING - 6 Sash Glazing Details

Principally designed for double glazed as an unbroken system, C9902 bead allows scope for single glazing.



	Glass thickness	Gap (less backer)	Bead	CH9819 backer Thickness	Glazing wedge	Gap
	6mm	14.5mm	C9902	4mm	silicone	8.5mm
_	8mm	14.5mm	C9902	4mm	CH9503	7mm
Sash	10mm	14.5mm	C9902	4mm	CH9502	5mm
	13.52mm	21mm	C9901	4mm	CH9502	5.5mm
Awning	18mm	21mm	C9901	4mm	CH9500	3mm
N I	24mm	31mm	C0054	4mm	CH9503	7mm
₹	26mm	31mm	C0054	4mm	CH9502	5mm
Max	28mm	31mm	C0054	4mm	CH9500	3mm
Σ	34mm	43mm	C016-2	4mm	silicone	9mm
	36mm	43mm	C016-2	4mm	CH9503	7mm
	38mm	43mm	C016-2	4mm	CH9502	5mm
	40mm	43mm	C016-2	4mm	CH9500	3mm

Glazing Wedges





3mm wedge PVC





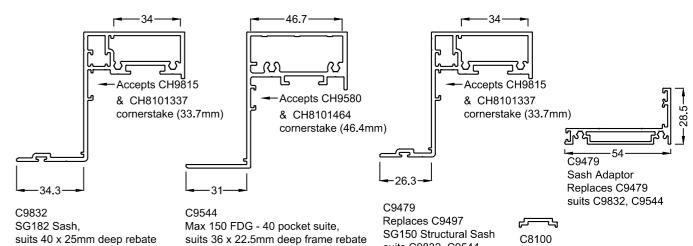
4mm wedge PVC



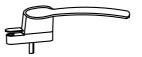
5mm wedge PVC



Structural Sash Extrusion ID



Component ID





CH9840 RH Handle & Cover				
Ref#	Code	Finish		
6 & 7	CH9840SVR	Silver Powdercoat		
6 & 7	CH9840WHT	White Powdercoa		
6 & 7	CH9840BLK	Black Powdercoat		



CH9841 LH Top Mounted Project Out handle

RH Handle & Cover			CH9841 LH Handle & Cover		
ode	Finish		Ref#	Code	Finish
H9840SVR	Silver Powdercoat		6 & 7	CH9841SVR	Silver Powdercoat
H9840WHT	White Powdercoat		6 & 7	CH9841WHT	White Powdercoat
H9840BLK	Black Powdercoat		6 & 7	CH9841BLK	Black Powdercoat



suits C9832, C9544

Transmission Bar

Sash Stay Packer

ححت C8119

CH9844 Flat Strike & Insertable Cam Package (extra to standard sash kits)



CH8101337 Cornerstake 33.7mm suit C9478, C9832 Sashes



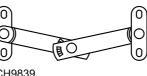
Suit C9544



CH9815 Corner Chevron 13,9mm Suit C9832 Sash



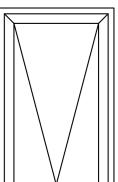
CH13NEW Sash Bulb Seal suit C9241



CH9839 Sash Restrictor



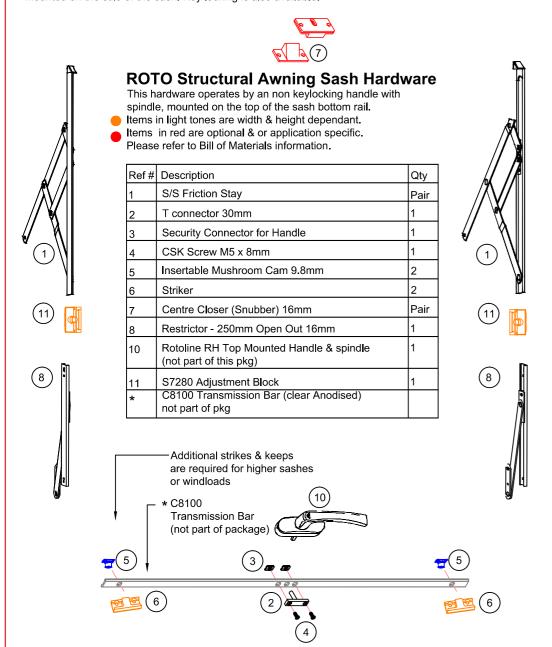
Max[™]MULTI LOCKING PROJECT OUT SASHES Max Framing Systems: MULTILOCKING - 7 Multi Locking Top Mounted Awning Hardware ID



Note: Awning Sash hardware in the schematic is shown from Inside.
The handle is non-key locking as standard but can be supplied keyed.
The handle is fitted centrally off the back of the sash bottom rail.

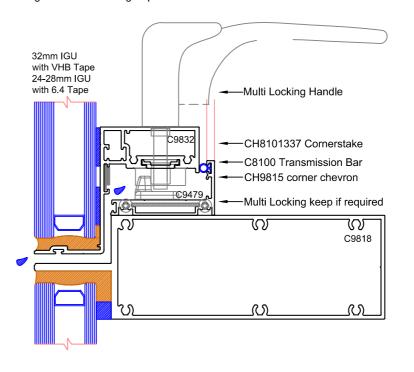
ROTO Top Mounted Awning Sash Hardware

This hardware operates by a non keylocking handle, mounted on the stile of the sash. Key locking is also available.



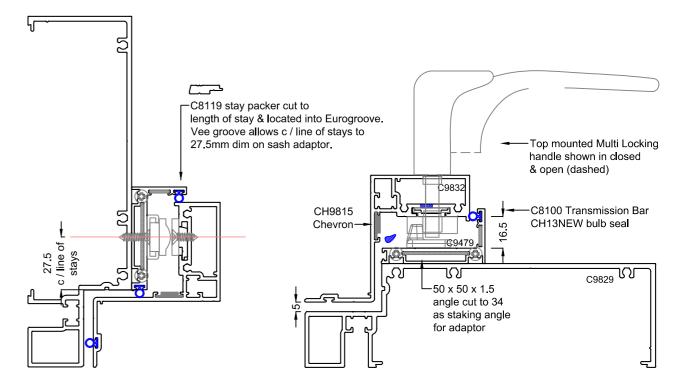
Structural Sashes

The detail below is applicable with all structural glazed sashes using "top mounted handles".



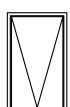
C9478 & C9832 Structural Sashes

Stays are supported by a packer located into the sash and through fixed into vee groove on the packer to allow a location point.





Max[™]MULTI LOCKING PROJECT OUT SASHES Max Framing Systems: MULTILOCKING - 8 **Structural Sash Hardware Packages**



Note: Hardware is variable dependant on Sash Height,

Width, Weight & handle finish. Select: Kit + handle for a complete bill of materials

CHTHC1	Project Out Sash Rebate Height 300 - 500mm up to 40kg	
Ref#	Description	Qty
1	203mm SS Friction Stay	Pair
2	Top Hung Centre Gear	1
3	Insertable Mushroom Cam 9.8mm	2
4	Strike for 767006	2
5	Centre Closers (Snubber) 16mm	1

CHTHC2	Project Out Sash Rebate Height 501 - 700mm up to 45kg	
Ref#	Description	Qty
1	305mm SS Friction Stay	Pair
2	Top Hung Centre Gear	1
3	Insertable Mushroom Cam 9.8mm	3
4	Strike for 767006	3
5	Centre Closers (Snubber) 16mm	1

снтнсз	Project Out Sash Rebate Height 701 - 1200mm up to 55kg	
Ref#	Description	Qty
1	406mm SS Friction Stay	Pair
2	Top Hung Centre Gear	1
3	Insertable Mushroom Cam 9.8mm	3
4	Strike for 767006	3
5	Centre Closers (Snubber) 16mm	1

Project Out Sash Rebate Height 1201 - 1500mm up to 75kg	
Description	Qty
559mm SS Friction Stay	Pair
Top Hung Centre Gear	1
Insertable Mushroom Cam 9.8mm	2
Strike for 767006	2
Centre Closers (Snubber) 16mm	1
Restrictor - 250mm 16mm Stack Height	1
	Rebate Height 1201 - 1500mm up to 75kg Description 559mm SS Friction Stay Top Hung Centre Gear Insertable Mushroom Cam 9.8mm Strike for 767006 Centre Closers (Snubber) 16mm

СНТНС5	THC5 Project Out Sash Rebate Height 1201 - 1500mm up to 120kg		
Ref#	Description	Qty	
1	660mm SS Friction Stay	Pair	
2	Top Hung Centre Gear 1		
3	Insertable Mushroom Cam 9.8mm 3		
4	Strike for 767006 3		
5	Centre Closers (Snubber) 16mm	1	
8	Restrictor - 250mm 16mm Stack Height	1	
9	S7280 Adjustment Block	1	

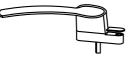
Project Out Sash Rebate Height 1201 - 2500mm up to 180k	9
Description	Qty
660mm SS HD Friction Stay	Pair
Top Hung Centre Gear	1
Insertable Mushroom Cam 9.8mm	3
Strike for 767006	3
Centre Closers (Snubber) 16mm	1
Restrictor - 250mm 16mm Stack Height	1
S7280 Adjustment Block	1
	Rebate Height 1201 - 2500mm up to 180k Description 660mm SS HD Friction Stay Top Hung Centre Gear Insertable Mushroom Cam 9.8mm Strike for 767006 Centre Closers (Snubber) 16mm Restrictor - 250mm 16mm Stack Height

CH9840 Handle & Cover				
Ref#		Finish		
		Silver Powdercoat		
6 & 7	CH9840WHT	White Powdercoat		
6 & 7	CH9840BLK	Black Powdercoat		



RH Handle Package (Standard Hand for awnings) Top Mounted Project Out

Handle & Cover with spindle



CH9840 LH Handle Package Top Mounted Project Out Handle & Cover with spindle

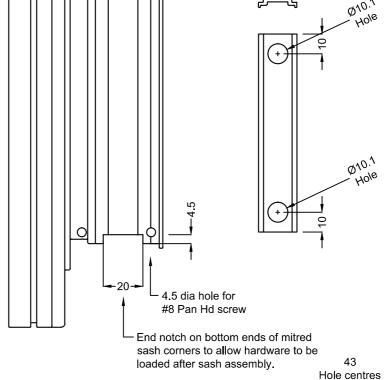
Example for Ordering

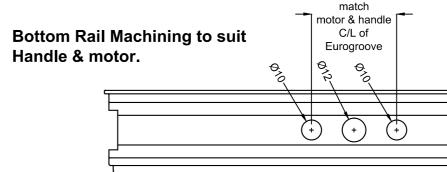
1800 x 1200 Sash, 50kg CHTHC6 Kit + CH9840SVR handle

CAPRAL 277

Sash Machining

Transmission Bar Machining







Max[™]MULTI LOCKING PROJECT OUT SASHES Max Framing Systems: MULTILOCKING - 9 **Hardware Assembly Procedure**

1. Machine sash & transmission bars in readiness for assembly

- Shorten Square spindle to correct length
- Mark C/L for handle & drill from Eurogroove side for handle assembly
- 4. Engage chevrons & cornerstake in bottom rail
- Insert cornerdrive into sash stiles
- If the cornerdrive connects to transmission bars insert cam & transmission bar with cam
- 7. Feed gearbox with assembled transmission bars onto sash rail
- 8. Bring sash corners together and engage corner drive with transmission bars and check they work correctly
- 9. Fit handle to gearbox
- 10. Assemble sash corners and screw assemble
- 11. When sash stile assembled, lock off corner drive with horseshoe corner key
- 12. Glue in chevron if required
- 13. Irrespective of sash assembly screws at corners ensure an additional screw fixing is fitted to secure sash through sash stile into corner stake.

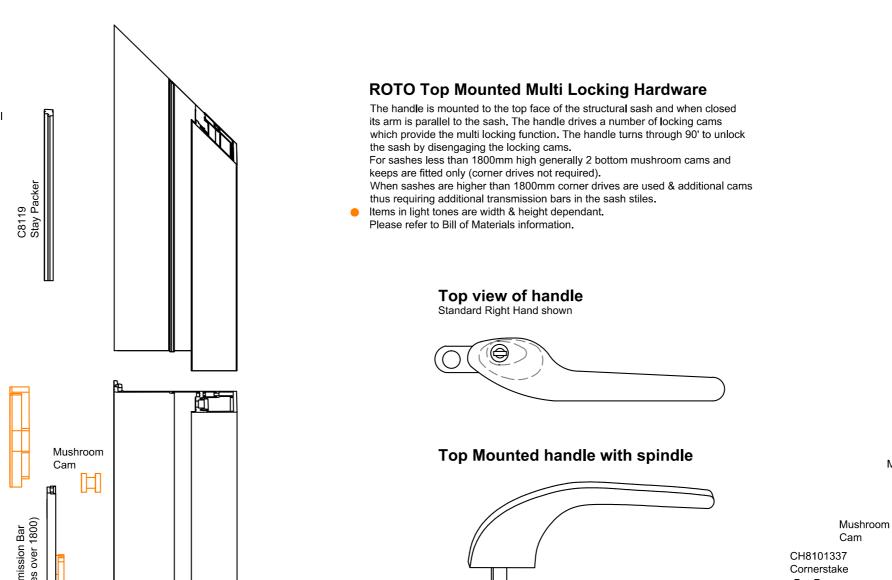
CH9844

Multi Lock keep

Corner drive (pair)

when required

part of CHALCDK package



Mushroom Cam

Transmission bar

CH9844

Multi Lock keep

`�

Gearbox,

part of handle package

CH9844

Multi Lock keep

CH9815

CH9844

Multi Lock keep

Transmission bar

Mushroom Cam