



Venice Handle



CMECH

Window & Door Hardware

Established for over 30 years, Cmech is an American-based company specialized in the design and manufacture of door and window hardware.

Cmech's manufacturing plant is located in Guangdong province, southern China and spans 80,000 m² with over 1,000 employees. Cmech's stringent quality control and management system has achieved ISO9001 certification and most importantly long term customer satisfaction.

Our primary goal is to understand your needs and provide the ultimate in quality and satisfaction. A flexible, experienced management team and tightly integrated operational structure allows us to anticipate and respond rapidly to customer needs. We deliver innovative products of outstanding quality.

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- 22 Outswing Casement Window Hardware
- 31 Outswing French Casement Window Hardware
- 38 Outswing Awning Window Hardware
- 43 Outswing Awning Window (Curtain Wall) Hardware
- 48 Inswing Casement Window Hardware
- 55 Inswing French Casement Window Hardware
- 58 Hopper Window Hardware

Tilt & Turn Window Series **114**

- 114 Tilt & Turn Window Hardware

Lift & Slide Series **146**

- 146 Lift & Slide Door Hardware

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- 215 Gliding Window Hardware

Bi-Folding Door Series **224**

- 224 Bi-Folding Door Hardware

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- 236 Hinged Door Hardware

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UNCOMPROMISING QUALITY

All our products begin with in-depth research and prototyping. Before approved for sale, every Cmech product must survive a brutal testing regime that surpasses the toughest real world conditions.

Cmech quality also means environmental responsibility — our manufacturing facilities operate to strict green protocols and standards.

A HIGH PERFORMING WINDOW & DOOR NEEDS HIGH QUALITY HARDWARE

Produced to European and American standards, Cmech products are found throughout luxury residences, prime commercial space, five-star hotels and premium developments.

Cmech door and window hardware adds real value to quality real estate.

CMECH HANDLES

MILAN SERIES

KOLN SERIES

BERLIN SERIES

VENICE SERIES

HUAYUN SERIES

Spindle and Fork Drive Handle (Type W)

- Outswing Casement Window
- Inswing Casement Window
- Outswing Awning Window
- Sliding Door

Spindle Drive Handle (Type W)

- Outswing Casement Window
- Inswing Casement Window
- Tilt & Turn Window
- Hopper Window
- Outswing Awning Window

Handle (Type TT)

- Tilt & Turn Window
- Inswing Casement Window
- Hopper Window
- Outswing Awning Window (Curtain Wall)

Spindle Drive Handle (Type LS)

- Lift & Slide Door

Spindle Drive Handle (Type D)

- Hinged Door
- Bi-Folding Door

OTHER SERIES(Type W)

FLY SCREEN HANDLE

FLAT HANDLE

TURN HANDLE

SLIM TURN HANDLE

Specialized Gliding Handle

MILAN HANDLE

LONDON HANDLE

METRO HANDLE

KOLN HANDLE

RECESSED HANDLE (HEAVY-DUTY)

RECESSED HANDLE

SLIM RECESSED HANDLE

STANDARD COLORS FOR HANDLES

Two types of surface treatments and seven colors are available.

M Treatment

Silver 01

Champagne 02

Gold 11

Bronze 12

Powder Coating

White 09

Black 17

Silver C11A

Champagne C11B

Gold C11C

Bronze C11D

E Treatment

Antique Brass 14

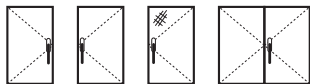
Note: Color is representative only.



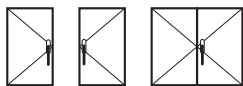
USER'S MANUAL FOR THE CATALOGUE
Opening Methods Diagrams

The solid line refers to inswing door
The dotted line refers to outswing door

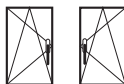
Outswing Window/Door



Inswing Window/Door



Tilt & Turn Window



Hopper Window



Outswing Awning Window



Lift & Slide Door



Tightly Sealed Sliding Window



Gliding Window/Door



Bi-Folding Door



Explanation of Part Numbers (P/N)

Our P/Ns consist of letters (A, B, C, D...) and numbers (0, 1, 2, 3...) For example, A010102 and 010101.

The first letter denotes which hardware series the product belongs to:
A: Outswing Casement Window Hardware Series for C-Groove Profile
B: Inswing Casement Window Hardware Series for C-Groove Profile
C: Tilt & Turn Window Hardware Series for C-Groove Profile
D: Hinged Door Hardware Series for C-Groove Profile
E: Gliding Door Hardware Series
F: Lift & Slide Door Hardware Series
G: Bi-Folding Door Hardware Series
H: Outswing Awning Window for C-Groove Profile
J: Outswing Casement Window for U-Groove Profile
N: Tightly Sealed Sliding Window Hardware Series
P: Gliding Window

For example, A010102 refers to New York Series Fork Drive Handle (Type W) for Outswing Casement Window.

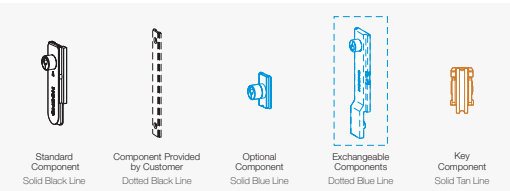
Note: Some parts may appear to be the same hardware components used for both doors and windows.
See the configuration tables for specific information.

Color Selection

Seven standard colors are available.
Each one has a corresponding serial number.
A "-" refers to an available color.
For example, A010102-01 means the color for the Fork Drive Handle (Type W) New York Series outswing casement window is silver.

- 01 Silver
- 02 Champagne
- 09 White
- 11 Gold
- 12 Bronze
- 14 Antique Brass (Only for CHINESE TRADITIONAL HUAYUN handle)
- 17 Black
- C11A Silver
- C11B Champagne
- C11C Gold
- C11D Bronze

Description of Features Graphics



Unit: Measurements are in millimeters (mm) unless otherwise indicated.

Window with Fly Screen Hardware

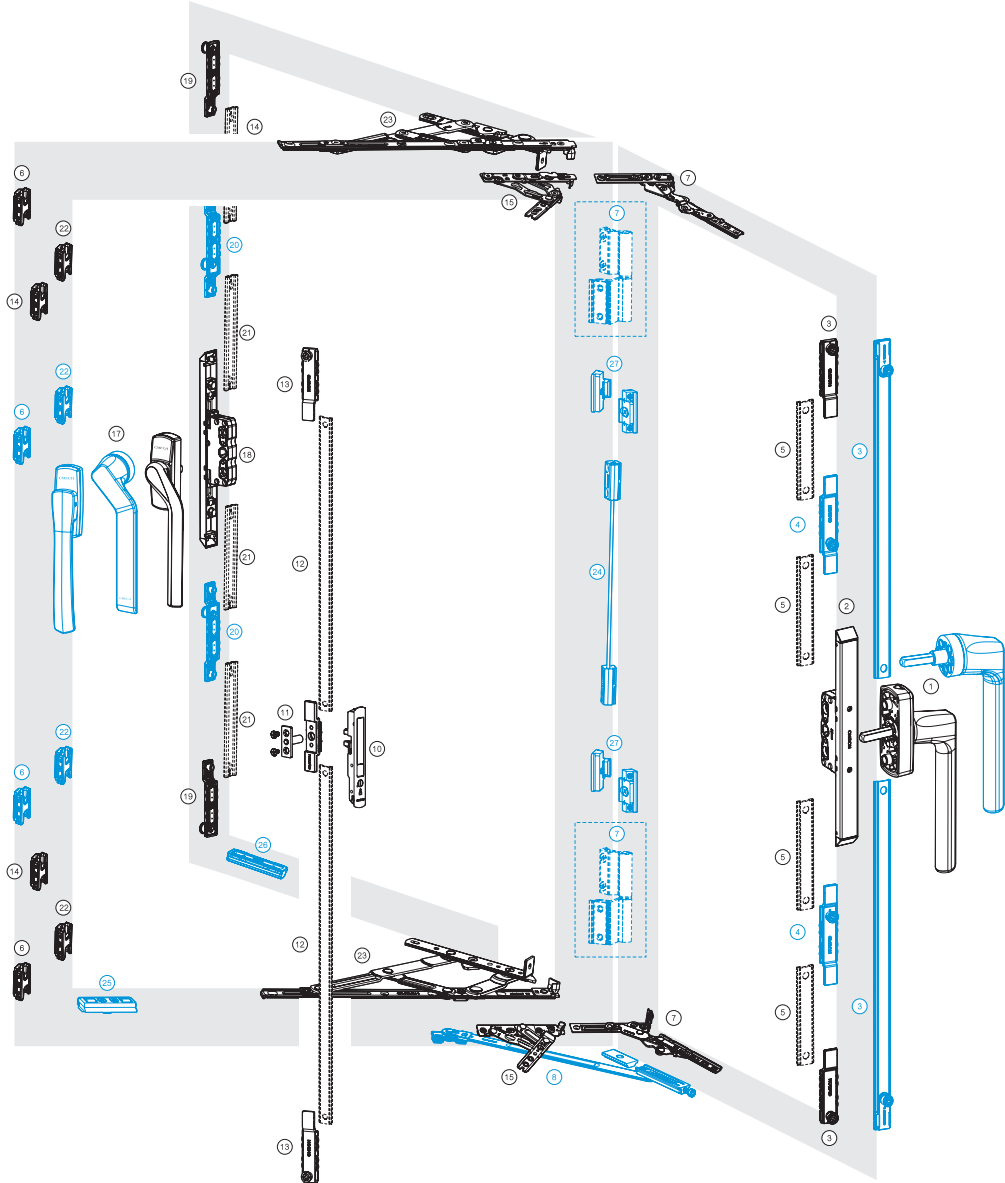


- The handles are available in many styles and colors
- Additional guide wheel support block provides a smoother operation
- Multi-point locks can be specified to enhance water and air tightness and wind pressure resistance

Casement Window with Fly Screen		Applicable Range
Sash Width	(mm)	300-800
Sash Height	(mm)	300-1,800
Glass Panel Load Bearing	(kg)	≤70
Screen Panel Load Bearing	(kg)	25, 45
Length of T-Drive	(mm)	17, 20, 24, 28, 32, 36, 40
Center Distance of Spindle Drive Gearbox	(mm)	11, 13, 22, 25, 30, 35



WINDOW WITH FLY SCREEN HARDWARE SERIES
Flynet and Glass Panel Integrated Window Configuration (Spindle Drive)



WINDOW WITH FLY SCREEN HARDWARE SERIES
Configuration Table - Flynet and Glass Panel Integrated Window - Inner Flynet Outer Glass Panel Configuration (Flynet)

No.	Description	P/N	Qty	Notes	Ref. Page
1	Spindle Drive Handle (Type W)	A010701	1	L Series Venice Handle	P65, P67, P70, P71, P79, P81
		A010707		L Series Venice Handle (40mm Height)	
		A010704		P Series Venice Handle	
		A010611		Outswing Casement Window Milan Handle (Without Spindle)	
		A010624		Outswing Casement Window Milan Handle (With 21 mm Spindle)	
		A010633		Outswing Casement Window Milan Handle (With 21 mm Spindle)	
		A010636		P Series Milan Handle	
		A010471		P Series Berlin Handle	
		A010223		P Series Koln Handle	
		A010609		S Series Milan Handle	
2	Drive Gearbox	A020119	1	11 mm Fly Screen Drive Gearbox (Not suitable for Baseless Handle)	P97
		A020134		Hole Center to Attachment Surface: 13 mm	
		A020130		Hole Center to Attachment Surface: 22 mm	
3	Lock Point	A090032	2	Pry-Resistant End Lock Point with Bearing	P90, P91, P92, P93
		A090048		Pry-Resistant End Lock Point (L Series)	
		A090001		Lock Point Ø9.5x6.0 mm	
		A090005		Lock Point Ø9.5x7.0 mm	
		A090007		End Lock Point Ø9.5x6.0 mm	
		A090008		End Lock Point Ø9.5x7.0 mm	
	Pry-Resistant Connecting Rod with Bearing	A090035	1	Pry-Resistant End Lock Point with Bearing Ø8.5x9.3 mm	
				Multiple Types Available	
4	Central Lock Point	A090033 A090009 A090010 A090034	0-2	Pry-Resistant Central Point with Bearing Ø9.5x6.0 mm Ø9.5x7.0 mm Ø9.5x8.0 mm	P90, P91
5	Connecting Strip			Provided by Customer or Cmech	
6	Keeper	A100122 A100127	2-4	Pry-Resistant Keeper with Bearing Keeper	P94
7	Hinge	B040037	1	165° Screen Window Hinge	P105, P106
		B040083		165° Screen Window Hinge, Applicable with Removable and Washable Screw Pack	
		B040087		S Series 180° Concealed Hinge	
		B040086 B040036		P Series 180° Concealed Hinge 45 kg Hinge	
8	Limiting Stay	B040041	1	10"	P110
		B040042		14"	
9	Handle Screw Pack		1		P64

Configuration Table – Window with Fly Screen and Guard Grills

No.	Description	P/N	Qty	Notes	Ref. Page
10	Anti-misoperation Recessed Handle	A010005 A010006	1	Fork Drive Length 21.7mm Fork Drive Length 15.7mm	P86
11	T-Drive	A020129	1		P99
12	Connecting Strip			Provided by Customer or Cmech	
13	Lock Point	A090032	2	Pry-Resistant End Lock Point with Bearing	P90, P91, P92, P93
		A090048		Pry-Resistant End Lock Point (L Series)	
		A090001		Lock Point Ø9.5x6.0 mm	
		A090005		Lock Point Ø9.5x7.0 mm	
		A090007		End Lock Point Ø9.5x6.0 mm	
14	Keeper	A100122	2	Pry-Resistant Keeper with Bearing Keeper	P94
		A100127			
15	Hinge	B040076	1	90° Fly Screen Hinge	P106
16	Screw Pack	B110012	2	Removable And Washable Screw Pack	



WINDOW WITH FLY SCREEN HARDWARE SERIES

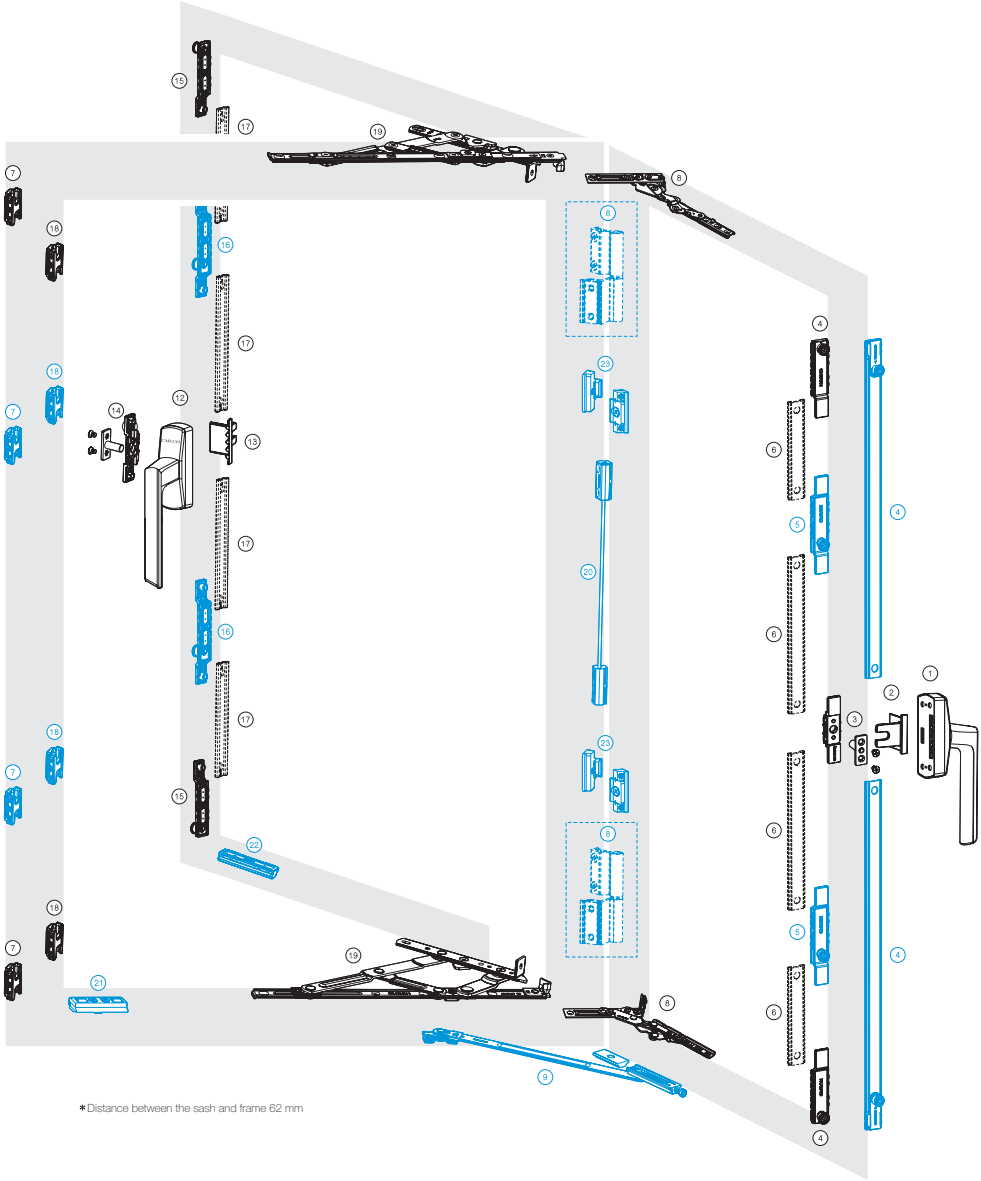
Configuration Table - Flynet and Glass Panel Integrated Window - Inner Flynet Outer Glass Panel Configuration (Glass Panel)

No.	Description	P/N	Qty	Notes	Ref. Page
17	Spindle Drive Handle	A010702	1	L Series Venice Left Turn Handle	P66, P67, P68, P71, P72, P80, P82
		A010703		L Series Venice Right Turn Handle	
		A010705		P Series Venice Left Turn Handle	
		A010706		P Series Venice Right Turn Handle	
		A010612		L Series Milan Left Turn Handle	
		A010613		L Series Milan Right Turn Handle	
		A010472		P Series Left Turn Handle With Base	
		A010473		P Series Right Turn Handle With Base	
		A010630		S Series Milan Handle (40 mm Height)	
		A010461		S Series Left Turn Handle	
		A010462		S Series Right Turn Handle	
		A010408-A010418		Left Turn Handle	
		A010419-A010429		Right Turn Handle	
		A010004		Fly Screen Handle	
18	Drive Gearbox	A020135	1	Hole Center to Attachment Surface: 25 mm	P97
		A020131		Hole Center to Attachment Surface: 30 mm	
		A020133		Hole Center to Attachment Surface: 35 mm	
19	Lock Point	A090032	2	Pry-Resistant End Lock Point with Bearing	P90, P91, P92, P93
		A090048		Pry-Resistant End Lock Point (L Series)	
		A090001		Lock Point Ø9.5x6.0 mm	
		A090005		Lock Point Ø9.5x7.0 mm	
		A090007		End Lock Point Ø9.5x6.0 mm	
	Pry-Resistant Connecting Rod with Bearing	A090008	1	End Lock Point Ø9.5x7.0 mm	
				Multiple Types Available	
20	Central Lock Point	A090033 A090039 A090010 A090034	0-2	Pry-Resistant Central Point with Bearing Ø9.5x6.0 mm Ø9.5x7.0 mm Ø9.3x6.0 mm	P90, P91
21	Connecting Strip			Provided by Customer or Cmech	
22	Keeper	A100122 A100127	2-4	Pry-Resistant Keeper with Bearing Keeper	P94
23	Friction Hinge		1	Multiple Types Available	P102, P103, P104, P105
24	Anti-fall Hardware	A120003	1		P110
25	Frame Support Block	A120005	1	Frame Support Block with Guide Wheel; Height: 12.6 mm	P109, P110
		A080003		Frame Support Block; Height: 12.8 mm	
		A080004		Frame Support Block; Height: 8.3 mm	
26	Sash Support Block	A080012	1	Height: 7.5 mm	P109
27	Hidden Lock	A100121 A100104	2	For a Double-Sided C-Groove For a Single-Sided C-Groove	P109
28	Handle Screw Pack		1		P64
29	Friction Hinge Screw Pack		2	Determined by Friction Hinge	P112



WINDOW WITH FLY SCREEN HARDWARE SERIES

Flynet and Glass Panel Integrated Window Configuration (Fork Drive)



*Distance between the sash and frame 62 mm



WINDOW WITH FLY SCREEN HARDWARE SERIES

Configuration Table - Flynet and Glass Panel Integrated Window - Inner Flynet Outer Glass Panel Configuration (Flynet)

No.	Description	P/N	Qty	Notes	Ref. Page
1	Spindle and Fork Drive Handle (Type W)	A010601 A010406 A010210 A010407 A010211 A010447 A010213 A010448 A010214 A010003	1	Milan Series, Suitable for Offset Fork Drive, Aluminum Alloy Berlin Series, Suitable for Offset Fork Drive, Aluminum Alloy Kohn Series, Suitable for Offset Fork Drive, Aluminum Alloy Berlin Series, Suitable for Central Fork Drive, Aluminum Alloy Kohn Series, Suitable for Central Fork Drive, Aluminum Alloy Berlin Series, Suitable for Central Fork Drive, Zinc Alloy Kohn Series, Suitable for Offset Fork Drive, Zinc Alloy Berlin Series, Suitable for Central Fork Drive, Zinc Alloy Kohn Series, Suitable for Central Fork Drive, Zinc Alloy Chinese Traditional Huayun Series, Suitable for New York	P83, P84, P85, P86, P88
2	Fork Drive		1	Offset Fork Drive, Multiple Types Available Central Fork Drive, Multiple Types Available	P89
3	T-Drive		1		P99
4	Lock Point	A090032 A090048 A090001 A090005 A090007 A090008	2	Pry-Resistant End Lock Point with Bearing Pry-Resistant End Lock Point (L Series) Lock Point Ø9.5x6.0 mm Lock Point Ø9.5x7.0 mm End Lock Point Ø9.5x6.0 mm End Lock Point Ø9.5x7.0 mm	P90, P91, P92, P93
	Pry-Resistant Connecting Rod with Bearing		1	Multiple Types Available	
5	Central Lock Point	A090033 A090009 A090010 A090034	0~2	Pry-Resistant Central Point with Bearing Ø9.5x6.0 mm Ø9.5x7.0 mm Ø9.3x6.0 mm	P90, P91
6	Connecting Strip			Provided by Customer or Cmech	
7	Keeper	A100122 A100127	2~4	Pry-Resistant Keeper with Bearing Keeper	
8	Hinge	B040083 B040087 B040086 B040036	1	165° Screen Window Hinge S Series 180° Concealed Hinge P Series 180° Concealed Hinge 45 kg Hinge	P94
9	Limiting Stay	B040041 B040042	1	10° 14°	P105, P106
10	Handle Screw Pack	A110078	1		
11	Screw Pack	B110012	2	90° Fly Screen Hinge Screw Pack	P110



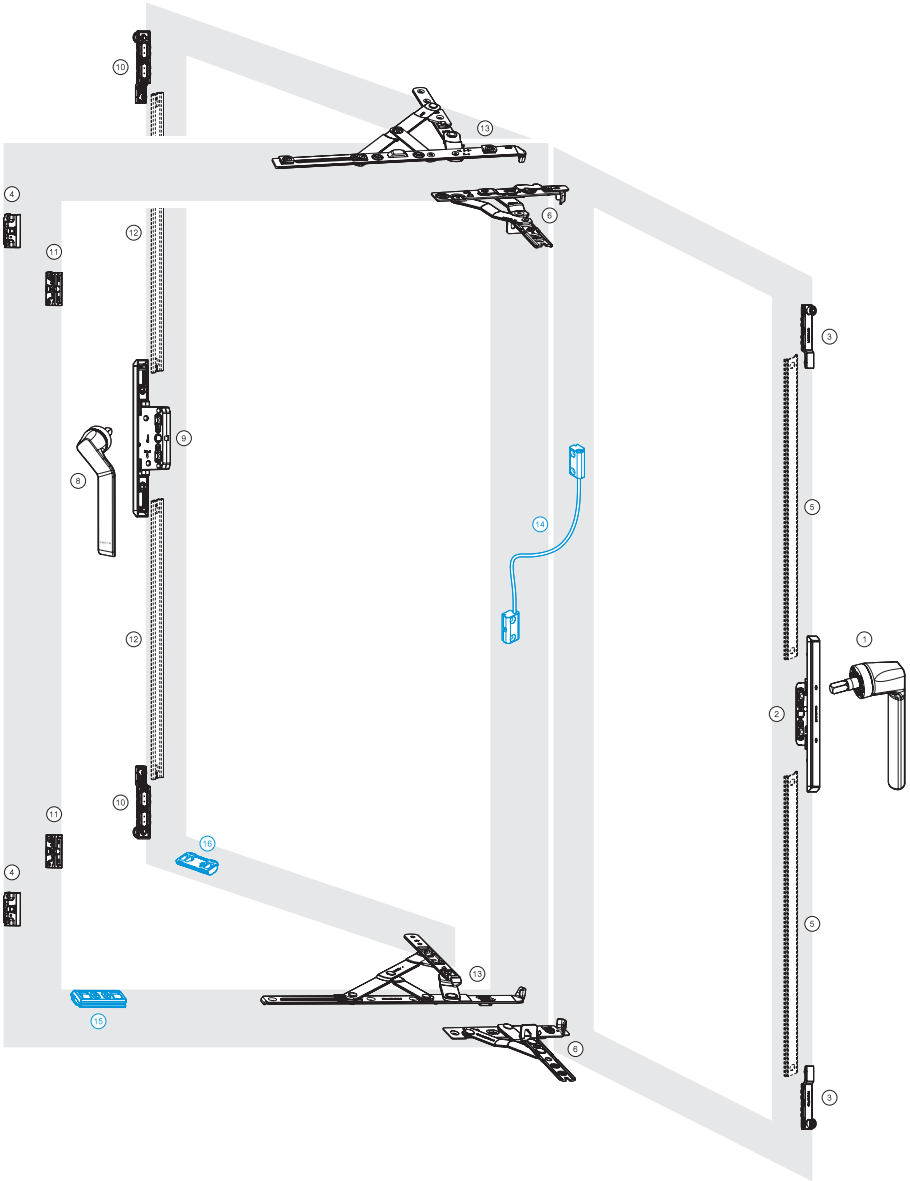
WINDOW WITH FLY SCREEN HARDWARE SERIES

Configuration Table - Flynet and Glass Panel Integrated Window - Inner Flynet Outer Glass Panel Configuration (Glass Panel)

No.	Description	P/N	Qty	Notes	Ref. Page
12	Spindle and Fork Drive Handle (Type W)	A010406 A010210 A010407 A010211 A010447 A010213 A010448 A010214 A010003	1	Berlin Series, Suitable for Offset Fork Drive, Aluminum Alloy Kohn Series, Suitable for Offset Fork Drive, Aluminum Alloy Berlin Series, Suitable for Central Fork Drive, Aluminum Alloy Kohn Series, Suitable for Central Fork Drive, Aluminum Alloy Berlin Series, Suitable for Offset Fork Drive, Zinc Alloy Kohn Series, Suitable for Offset Fork Drive, Zinc Alloy Berlin Series, Suitable for Central Fork Drive, Zinc Alloy Kohn Series, Suitable for Central Fork Drive, Zinc Alloy Chinese Traditional Huayun Series, Suitable for New York	P83, P84, P85, P86, P88
13	Fork Drive		1	Offset Fork Drive, Multiple Types Available Central Fork Drive, Multiple Types Available	P89
14	T-Drive		1		P99
15	Lock Point	A090032 A090048 A090001 A090005 A090007 A090008	2	Pry-Resistant End Lock Point with Bearing Pry-Resistant End Lock Point (L Series) Lock Point Ø9.5x6.0 mm Lock Point Ø9.5x7.0 mm End Lock Point Ø9.5x6.0 mm End Lock Point Ø9.5x7.0 mm	P90, P91, P92, P93
	Pry-Resistant Connecting Rod with Bearing		1	Multiple Types Available	
16	Central Lock Point	A090033 A090009 A090010 A090034	0~2	Pry-Resistant Central Point with Bearing Ø9.5x6.0 mm Ø9.5x7.0 mm Ø9.3x6.0 mm	P90, P91
17	Connecting Strip			Provided by Customer or Cmech	
18	Keeper	A100122 A100127	2~4	Pry-Resistant Keeper with Bearing Keeper	P94
19	Friction Hinge		1	Multiple Types Available	P102, P103, P104, P105
20	Anti-fall Hardware	A120003	1		P110
21	Frame Support Block	A120005 A080003 A080004	1	Frame Support Block with Guide Wheel; Height: 12.6 mm Frame Support Block; Height: 12.8 mm Frame Support Block; Height: 8.3 mm	P109, P110
22	Sash Support Block	A080012	1	Height: 7.5 mm	P109
23	Hidden Lock	A100121 A100104	2	For a Double-Sided C-Groove For a Single-Sided C-Groove	P109
24	Handle Screw Pack		1		P64
25	Friction Hinge Screw Pack		2	Determined by Friction Hinge	P112



WINDOW WITH FLY SCREEN HARDWARE SERIES
L Series Flynet and Glass Panel Integrated Window Configuration (Spindle Drive)



WINDOW WITH FLY SCREEN HARDWARE SERIES
Configuration Table - L Series Flynet and Glass Panel Integrated Window-Inner Flynet Outer Glass Panel Configuration (Flynet)

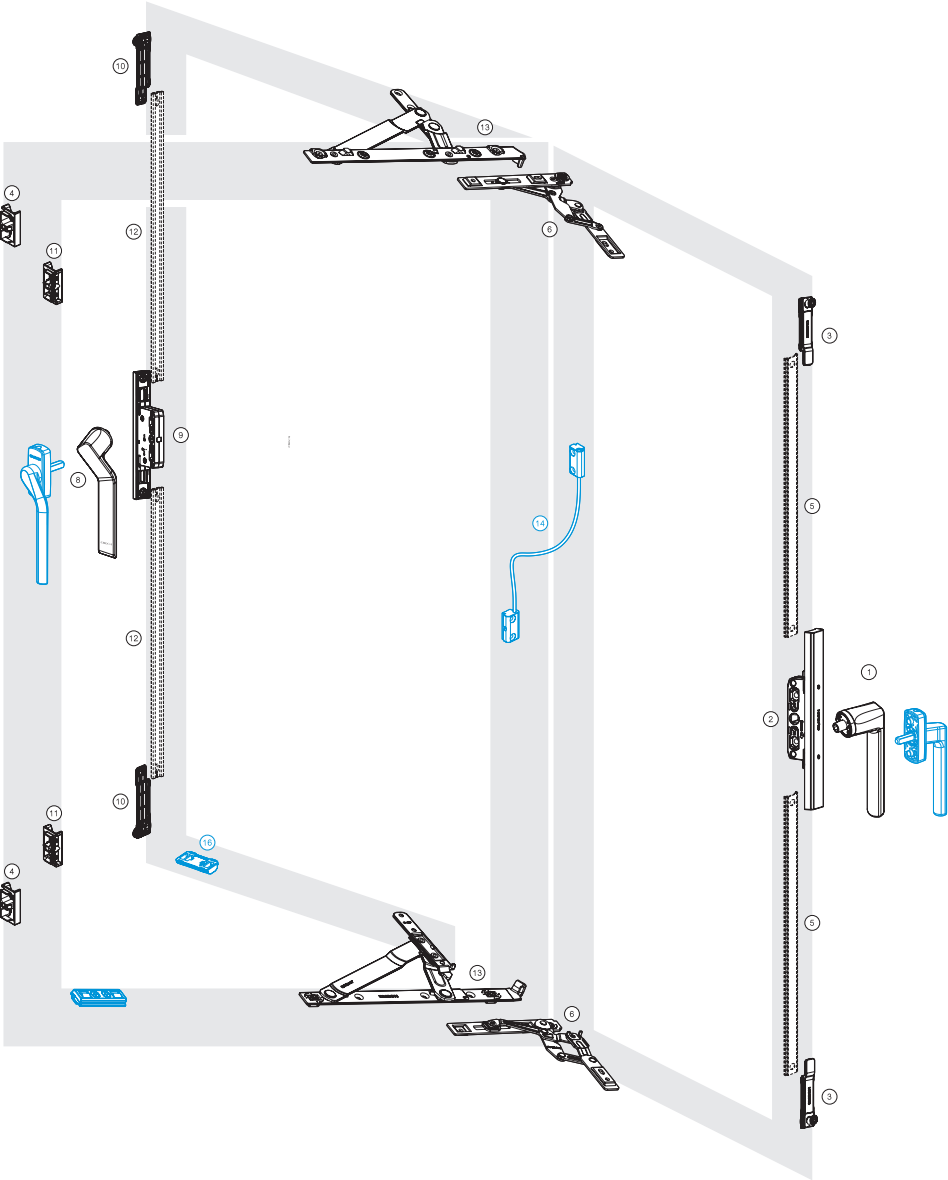
No.	Description	P/N	Qty	Notes	Ref. Page
1	Spindle Drive Handle	A010701	1	L Series Venice Handle, Aluminum Alloy	P65, P67, P70, P71
		A010707		L Series Venice Handle, Aluminum Alloy, 40mm Height	
		A010603		L Series Milan Handle, Aluminum Alloy	
		A010606		L Series Milan Handle, Aluminum Alloy (With Spindle)	
		A010633		L Series Milan Handle, Aluminum Alloy (With Spindle)	
2	Drive Gearbox	A020142	1	Spindle Drive Gearbox 11mm (L Series)	P95
3	Lock Point	A090032 A090048	2	Pry-Resistant End Lock Point with Bearing Pry-Resistant End Lock Point (L Series)	P90, P91, P92, P93
4	Keeper	A100125	2	Pry-Resistant Keeper with Bearing	P94
5	Connecting Strip		3~5	Provided by Customer or Cmech	
6	Hinge	B040083	1	165° Fly Screen Hinge, Applicable with Removable and Washable Screw Pack	P106
		B040037 B040076		165° Fly Screen Hinge 90° Fly Screen Hinge	
	Hinge Screw Pack	B110013	1	Provided by Customer or Cmech	
7	Handle Screw Pack		1		P64

Configuration Table - L Series Flynet and Glass Panel Integrated Window-Inner Flynet Outer Glass Panel Configuration (Glass Panel)

No.	Description	P/N	Qty	Notes	Ref. Page
8	Spindle Drive Handle	A010702	1	L Series Venice Left Turn Handle, Aluminum Alloy	P66, P67, P68, P71, P72, P74, P75
		A010703		L Series Venice Right Turn Handle, Aluminum Alloy	
		A010604		L Series Milan Left Turn Handle, Aluminum Alloy	
		A010605		L Series Milan Right Turn Handle, Aluminum Alloy	
		A010607		L Series Milan Left Turn Handle, Aluminum Alloy (With Spindle)	
		A010608		L Series Milan Right Turn Handle, Aluminum Alloy (With Spindle)	
		A010634		L Series Milan Left Turn Handle, Aluminum Alloy (With Spindle)	
		A010635		L Series Milan Right Turn Handle, Aluminum Alloy (With Spindle)	
9	Drive Gearbox	A020144	1	Hole Center to Attachment Surface: 13 mm	P95
		A020146		Hole Center to Attachment Surface: 22 mm	
		A020148		Hole Center to Attachment Surface: 25 mm	
		A020150 A020152		Hole Center to Attachment Surface: 30 mm Hole Center to Attachment Surface: 35 mm	
10	Lock Point	A090032 A090048	2	Pry-Resistant End Lock Point with Bearing Pry-Resistant End Lock Point (L Series)	P90, P91, P92, P93
11	Keeper	A100125	2	Pry-Resistant Keeper with Bearing	P94
12	Connecting Strip		3~5	Provided by Customer or Cmech	
13	Hinge	A040201	1	14° Free-Mill Friction Hinge (Left) (L Series)	P103
		A040202		14° Free-Mill Friction Hinge (Right) (L Series)	
14	Anti-fall Hardware	A120003	1		P110
15	Frame Support Block	A120005	1	Frame Support Block with Guide Wheel, Height: 12.6 mm	P109, P110
		A080003		Frame Support Block, Height: 12.6 mm	
		A080004		Frame Support Block, Height: 6.3 mm	
16	Sash Support Block	A080012	1	Height: 7.5 mm	P109
17	Handle Screw Pack		1	Reference P64	



WINDOW WITH FLY SCREEN HARDWARE SERIES
P Series Flynet and Glass Panel Integrated Window Configuration (Spindle Drive)



WINDOW WITH FLY SCREEN HARDWARE SERIES
Configuration Table - P Series Flynet and Glass Panel Integrated Window-Inner Flynet Outer Glass Panel Configuration (Flynet)

No.	Description	P/N	Qty	Notes	Ref. Page
1	Spindle Drive Handle	A010704 A010636 A010471 A010223 A010623 A010460 A010219 A010617	1	P Series Venice Handle P Series Milan Baseless Handle P Series Milan Handle P Series Berlin Handle P Series Kohn Handle S Series Milan Handle S Series Berlin Handle S Series Kohn Handle	P67, P69, P76, P77, P79, P81
2	Drive Gearbox	A020141	1	Spindle Drive Gearbox 11mm (P Series)	P96
3	Lock Point	A090049	2	Pry-Resistant End Lock Point (P Series)	P90, P91, P92, P93
4	Keeper	A100126	2	Pry-Resistant Keeper with Bearing	P94
5	Connecting Strip		3-5	Provided by Customer or Cmech	
6	Hinge	B040087 B040086	1	P series 180°Fly Screen Hinge S series 180°Fly Screen Hinge	P106
7	Handle Screw Pack		1		P64

Configuration Table - P Series Flynet and Glass Panel Integrated Window-Inner Flynet Outer Glass Panel Configuration (Glass Panel)

No.	Description	P/N	Qty	Notes	Ref. Page
8	Spindle Drive Handle	A010705 A010706 A010618 A010619 A010472 A010473 A010461 A010462	1	P Series Venice Baseless Turn Handle (Left) P Series Venice Baseless Turn Handle (Right) P Series Milan Baseless Turn Handle (Left) P Series Milan Baseless Turn Handle (Right) P Series Left Turn Handle P Series Right Turn Handle S Series Left Turn Handle S Series Right Turn Handle	P67, P68, P76, P77, P72, P80, P82
9	Drive Gearbox	A020143 A020145 A020147 A020149 A020151	1	Hole Center to Attachment Surface: 13 mm Hole Center to Attachment Surface: 22 mm Hole Center to Attachment Surface: 25 mm Hole Center to Attachment Surface: 30 mm Hole Center to Attachment Surface: 35 mm	P95
10	Lock Point	A090049	1	Pry-Resistant End Lock Point (S Series)	P90, P91, P92, P93
11	Keeper	A100126	1	Pry-Resistant Keeper with Bearing	P94
12	Connecting Strip		3-5	Provided by Customer or Cmech	
13	Hinge	A040193	1	14" 50kg Free-Mill Friction Hinge (P Series)	P104
14	Anti-fall Hardware	A120003	1		P110
15	Frame Support Block	A120005 A080003 A080004	1	Frame Support Block with Guide Wheel; Height: 12.6 mm Frame Support Block; Height: 12.8 mm Frame Support Block; Height: 8.3 mm	P109, P110
16	Sash Support Block	A080012	1	Height: 7.5 mm	P110
17	Handle Screw Pack		1		

Outswing Casement Window Hardware



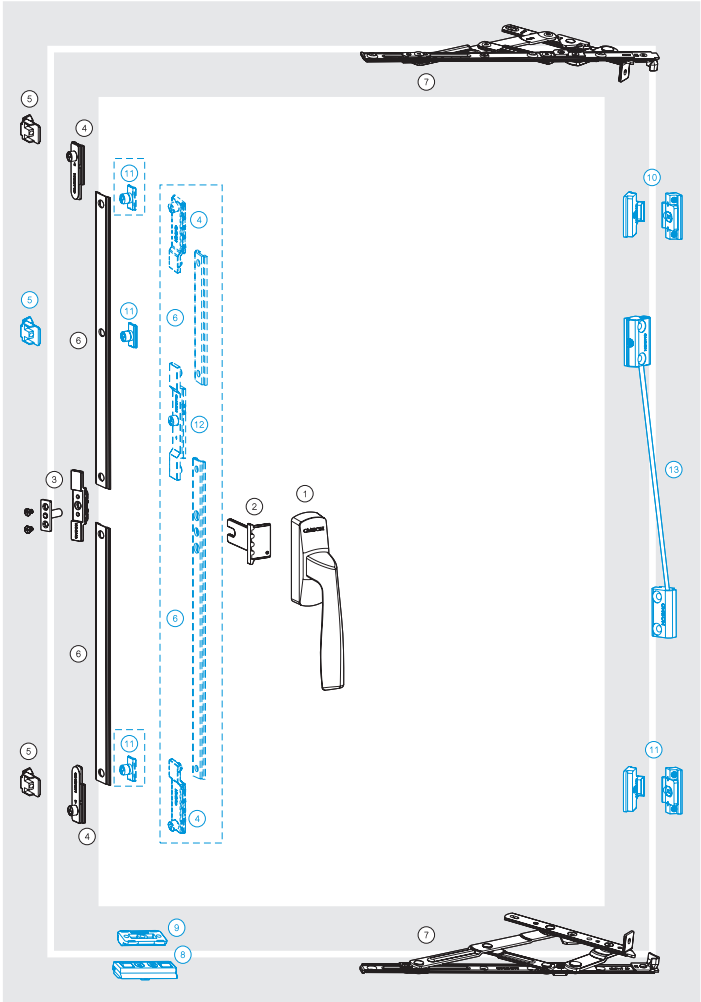
- The handles are available in many styles and colors
- Additional guide wheel support block provides a smoother operation
- Unique friction hinge block provides for easier opening of the window
- Multi-point locks can be specified to enhance water and air tightness and wind pressure resistance

Outswing Casement Window		Applicable Range
Sash Width	(mm)	300-800
Sash Height	(mm)	300-1,800
Load-bearing	(kg)	≤ 70
Length of T-Drive	(mm)	17, 20, 24, 28, 32, 36, 40
Center Distance of Spindle Drive Gearbox	(mm)	22, 25, 30, 35



OUTSWING CASEMENT WINDOW HARDWARE SERIES

Fork Drive Handle (Type W) Configuration: C-Groove



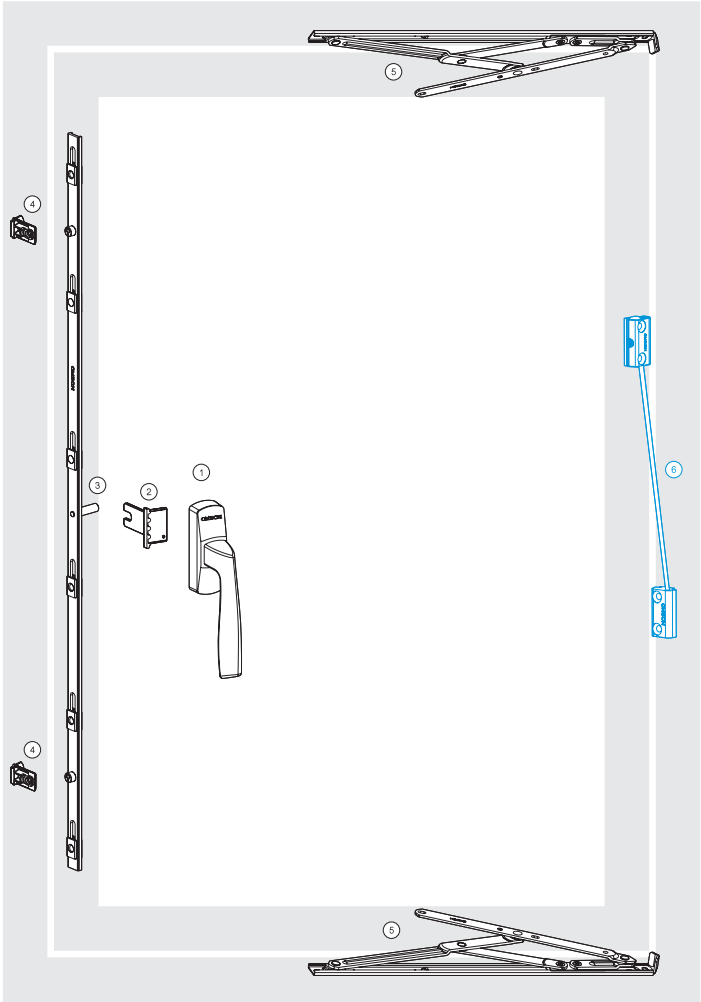
OUTSWING CASEMENT WINDOW HARDWARE SERIES

Configuration Table - Fork Drive Handle (Type W)

No.	Description	P/N	Qty	Notes	Ref. Page
1	Spindle and Fork Drive Handle (Type W)	A010601 A010403 A010406 A010407 A010211 A010447 A010213 A010448 A010214 A010003	1	Milan Series, Suitable for Offset Fork Drive, Aluminum Alloy Berlin Series, Suitable for Offset Fork Drive, Aluminum Alloy Kohn Series, Suitable for Offset Fork Drive, Aluminum Alloy Berlin Series, Suitable for Central Fork Drive, Aluminum Alloy Kohn Series, Suitable for Central Fork Drive, Aluminum Alloy Berlin Series, Suitable for Offset Fork Drive, Zinc Alloy Berlin Series, Suitable for Central Fork Drive, Zinc Alloy Kohn Series, Suitable for Central Fork Drive, Zinc Alloy Chinese Traditional Huayun Series, Suitable for New York	P83, P84, P85, P86, P88
2	Fork Drive		1	Offset Fork Drive, Multiple Types Available Central Fork Drive, Multiple Types Available	P89
3	T-Drive		1		P99
4	Lock Point	A060032 A060048 A090001 A090005 A090007 A090008 A090049	2	Pry-Resistant End Lock Point with Bearing Pry-Resistant End Lock Point (L Series) Lock Point Ø9.5x6.0 mm Lock Point Ø9.5x7.0 mm End Lock Point Ø9.5x6.0 mm End Lock Point Ø9.5x7.0 mm Pry-Resistant End Lock Point (S Series)	P90, P91, P92, P93
5	Keeper		2~4	Multiple Types Available	P94
6	Connecting Strip			Provided by Customer or Cmech	
7	Friction Hinge		1	Multiple Types Available	P102, P103, P104, P105
8	Frame Support Block	A120005 A080003 A080004	1	Frame Support Block with Guide Wheel; Height: 12.6 mm Frame Support Block; Height: 12.8 mm Frame Support Block; Height: 8.3 mm	P109, P110
9	Sash Support Block	A080012	1	Height: 7.5 mm	P109
10	Hidden Lock	A100121 A100104	2	For a Double-Sided C-Groove For a Single-Sided C-Groove	P109
11	Active Lock Point	A090002 A090003 A090011 A090012	0~4	Dual-Stage Active Lock Point Ø9.5x8.75 mm Dual-Stage Active Lock Point Ø9.5x8.1 mm Single-Stage Active Lock Point Ø9.5x8.7 mm Single-Stage Active Lock Point Ø9.5x9.7 mm	P92
12	Central Lock Point	A090009 A090010 A090033 A090034	0~2	Ø9.5x6.0 mm Ø9.5x7.0 mm Pry-Resistant Central Point with Bearing Ø9.3x6.0 mm	P90, P91, P92, P93
13	Safety Catch System Hardware	A120003	1		P110
14	Handle Screw Pack	A110078	1		P64
15	Friction Hinge Screw Pack		2	Determined by Friction Hinge	P112



OUTSWING CASEMENT WINDOW HARDWARE SERIES
Fork Drive Handle (Type W) Configuration: Non-Groove



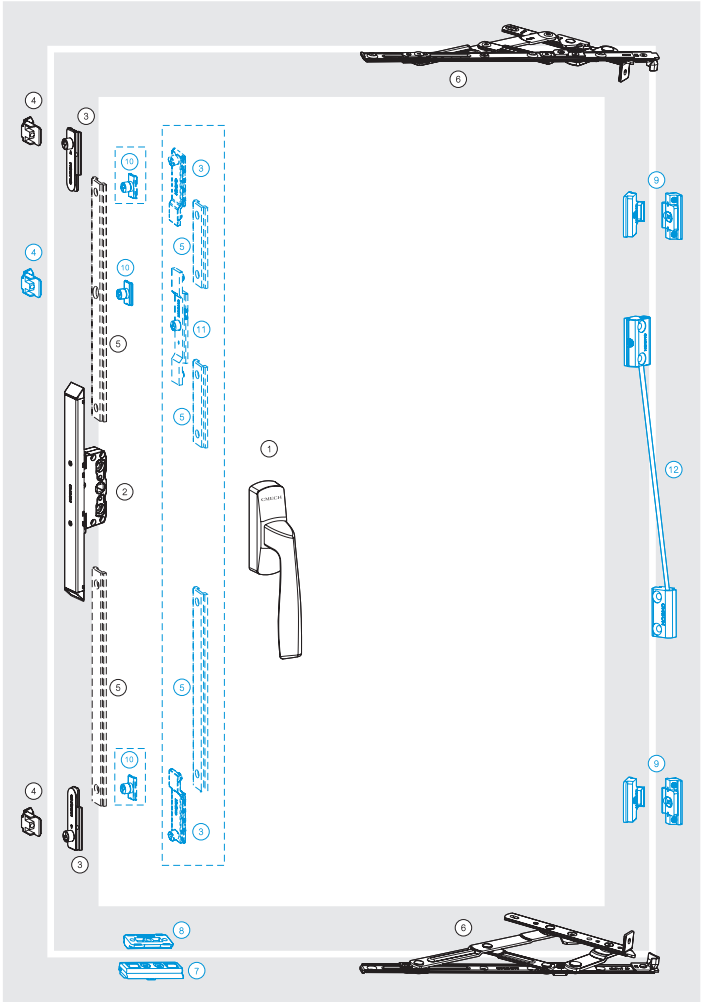
OUTSWING CASEMENT WINDOW HARDWARE SERIES
Configuration Table - Fork Drive Handle (Type W)

No.	Description	P/N	Qty	Notes	Ref. Page
1	Spindle and Fork Drive Handle (Type W)	A010601	1	Milan Series, Suitable for Offset Fork Drive, Aluminum Alloy	P73, P74, P75, P76, P81
		A010406		Berlin Series, Suitable for Offset Fork Drive, Aluminum Alloy	
		A010210		Koln Series, Suitable for Offset Fork Drive, Aluminum Alloy	
		A010407		Berlin Series, Suitable for Central Fork Drive, Aluminum Alloy	
		A010211		Koln Series, Suitable for Central Fork Drive, Aluminum Alloy	
		A010447		Berlin Series, Suitable for Offset Fork Drive, Zinc Alloy	
		A010213		Koln Series, Suitable for Offset Fork Drive, Zinc Alloy	
		A010448		Berlin Series, Suitable for Central Fork Drive, Zinc Alloy	
2	Fork Drive	A010214	1	Koln Series, Suitable for Central Fork Drive, Zinc Alloy	P87
		A010003		Chinese Traditional Huayun Series, Suitable for New York	
				Offset Fork Drive, Multiple Types Available	
				Central Fork Drive, Multiple Types Available	
3	Surface Mount Drive Gear	A020050	1	410 mm	P94
		A020051		600 mm	
		A020052		800 mm	
		A020053		1000 mm	
		A020061		1300 mm	
4	Keeper		2	Multiple Types Available	P92
5	Friction Hinge		1	Multiple Types Available	P97, P98, P112
6	Safety Catch System Hardware	A120003	1		P107
7	Handle Screw Pack	A110078	1		
8	Friction Hinge Screw Pack		2	Determined by Friction Hinge	P112



OUTSWING CASEMENT WINDOW HARDWARE SERIES

Spindle Drive Handle (Type W) Configuration:C-Groove



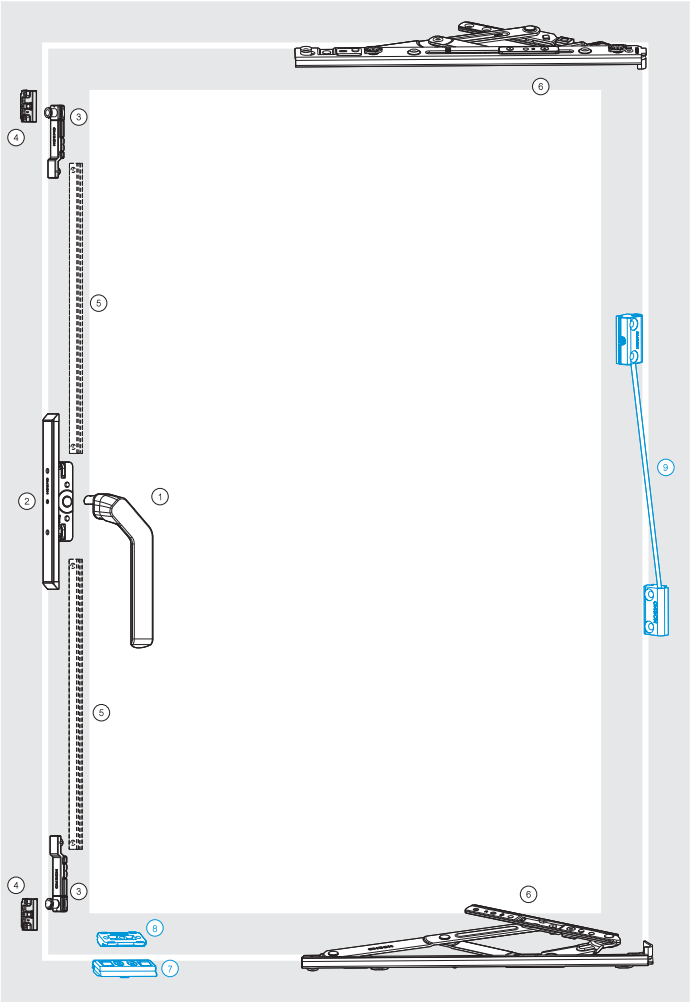
OUTSWING CASEMENT WINDOW HARDWARE SERIES

Configuration Table - Spindle Drive Handle (Type W)

No.	Description	P/N	Qty	Notes	Ref. Page
1	Spindle Drive Handle (Type W)	A010601	1	Milan Series, Aluminum Alloy	P66, P67, P68, P71, P72, P80, P82
		A010406		Berlin Series, Aluminum Alloy	
		A010210		Kohn Series, Aluminum Alloy	
		A010407		Berlin Series, Aluminum Alloy	
		A010211		Kohn Series, Aluminum Alloy	
		A010447		Berlin Series, Zinc Alloy	
		A010213		Kohn Series, Zinc Alloy	
		A010448		Berlin Series, Zinc Alloy	
		A010214		Kohn Series, Zinc Alloy	
		A010470		Berlin Handle Keyed	
		A010222		Kohn Handle Keyed	
		A010004		Pry Screen Handle	
		A010408~A010419		Left Turn Handle	
		A010419~A010429		Right Turn Handle	
2	Bi-directional Spindle Drive Gearbox	A020146	1	Hole Center to Attachment Surface: 22 mm	P97
		A020148		Hole Center to Attachment Surface: 25 mm	
		A020150		Hole Center to Attachment Surface: 30 mm	
		A020152		Hole Center to Attachment Surface: 35 mm	
3	Lock Point	A090001	2	Lock Point Ø9.5x5.0 mm	P90, P91, P92, P93
		A090005		Lock Point Ø9.5x7.0 mm	
		A090007		End Lock Point Ø9.5x6.0 mm	
		A090008		End Lock Point Ø9.5x7.0 mm	
		A090032		Pry-Resistant End Lock Point with Bearing	
		A090035		Pry-Resistant End Lock Point with Bearing Ø8.5x9.3 mm	
		A090048		Pry-Resistant End Lock Point (L Series)	
4	Keeper		2~4		P94
5	Connecting Strip			Provided by Customer or Cmech	
6	Friction Hinge		1	Multiple Types Available	P102, P103, P104, P105
7	Frame Support Block	A120005	1	Frame Support Block with Guide Wheel; Height: 12.6 mm	P109, P110
		A080003		Frame Support Block Height: 12.8 mm	
		A080004		Frame Support Block Height: 8.3 mm	
8	Sash Support Block	A080012	1	Height: 7.5 mm	P109
9	Hidden Lock	A100121	2	For a Double-Sided C-Groove	P109
		A100104		For a Single-Sided C-Groove	
10	Active Lock Point	A090002	0~4	Dual-Stage Active Lock Point Ø9.5x8.75 mm	P92
		A090003		Dual-Stage Active Lock Point Ø9.5x8.1 mm	
		A090011		Single-Stage Active Lock Point Ø9.5x8.7 mm	
		A090012		Single-Stage Active Lock Point Ø9.5x9.7 mm	
11	Central Lock Point	A090009	0~2	Ø9.5x6.0 mm	P90, P91, P92, P93
		A090010		Ø9.5x7.0 mm	
		A090033		Pry-Resistant Central Point with Bearing	
		A090034		Ø9.3x8.0 mm	
12	Safety Catch System Hardware	A120003	1		P110
13	Friction Hinge Screw Pack		2	Determined by Friction Hinge	P112
14	Handle Screw Pack		1		P64



OUTSWING CASEMENT WINDOW HARDWARE SERIES
Slimline Internal Configuration

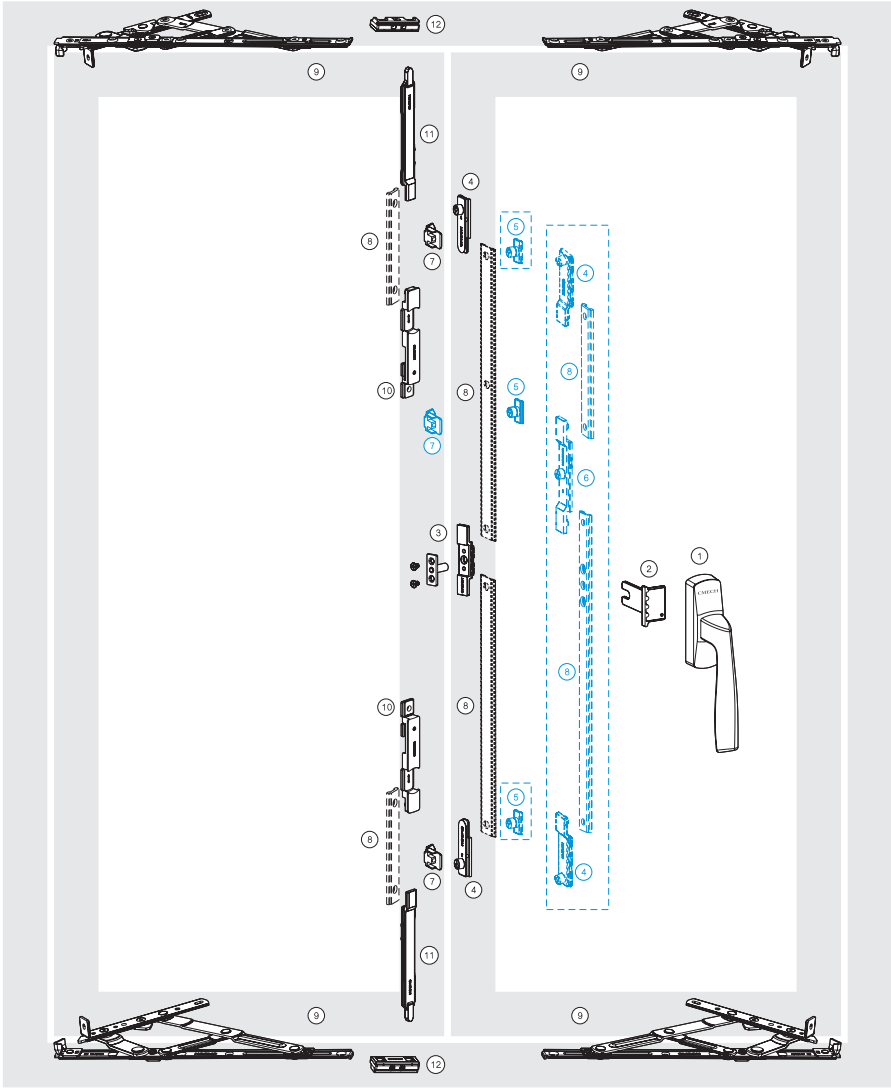


OUTSWING CASEMENT WINDOW HARDWARE SERIES
Configuration Table - Slimline Internal Configuration

No.	Description	P/N	Qty	Notes	Ref. Page
1	Slim Handle	A010637 A010638	1	Milan Series Slim Left Turn Handle Milan Series Slim Right Turn Handle	P78
2	Drive Gearbox	A020177	1	Hole Center to Attachment Surface: 14 mm	P96
3	Lock Point	A090032 A090048 A090049	2	Pry-Resistant End Lock Point with Bearing Pry-Resistant End Lock Point (L Series) Pry-Resistant End Lock Point (S Series)	P90, P91, P92, P93
4	Keeper	A100125 A100126	2	Pry-Resistant Keeper (L Series) Pry-Resistant Keeper (S Series)	P94
5	Connecting Strip			Provided by Customer or Cmech	
6	Hinge	A040190	1	14" Internal Friction Hinge	P105
7	Frame Support Block	A120005 A080003 A080004	1	Frame Support Block with Guide Wheel; Height: 12.6 mm Frame Support Block; Height: 12.8 mm Frame Support Block; Height: 8.3 mm	P109, P110
8	Sash Support Block	A080012	1	Height: 7.5 mm	P110
9	Safety Catch System Hardware	A120003	1		P110



OUTSWING FRENCH CASEMENT WINDOW HARDWARE SERIES
Fork Drive Handle (Type W) Configuration

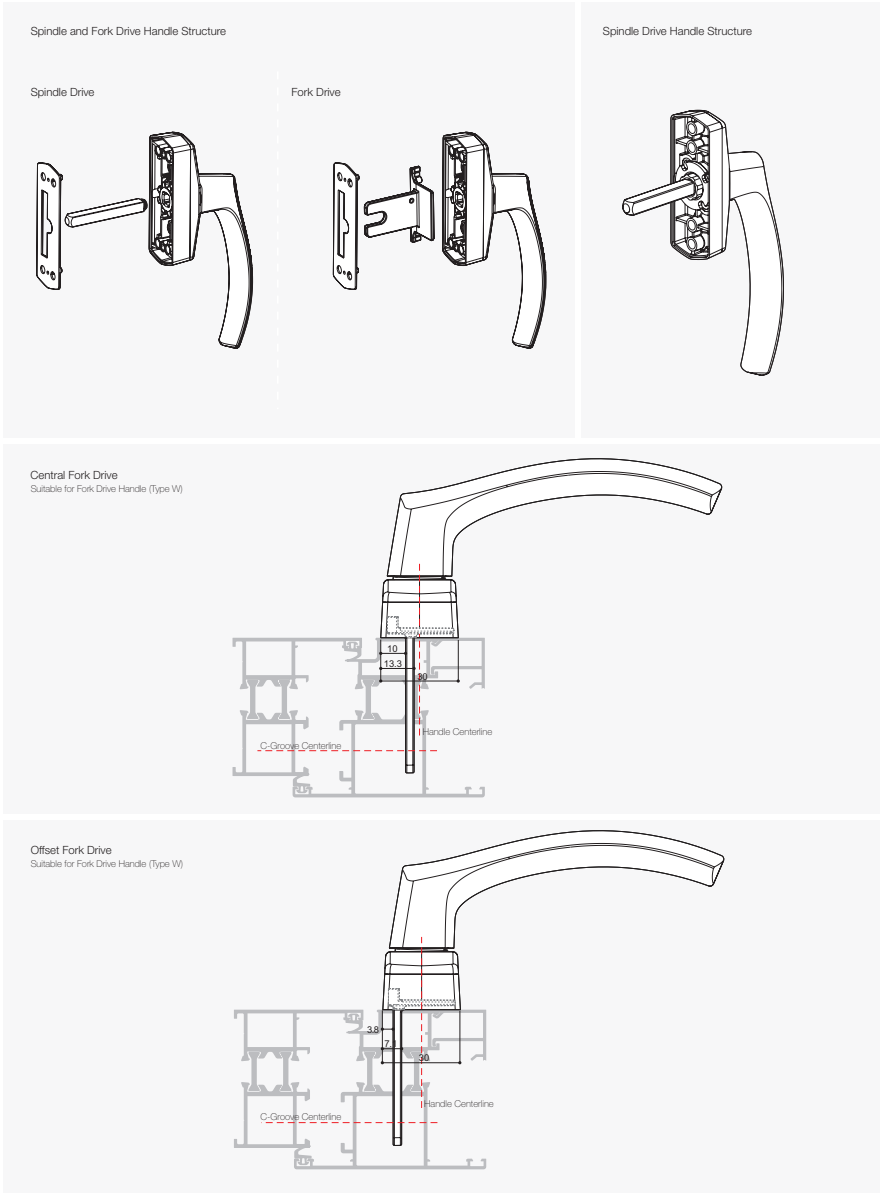


OUTSWING FRENCH CASEMENT WINDOW HARDWARE SERIES
Configuration Table - Fork Drive Handle (Type W)

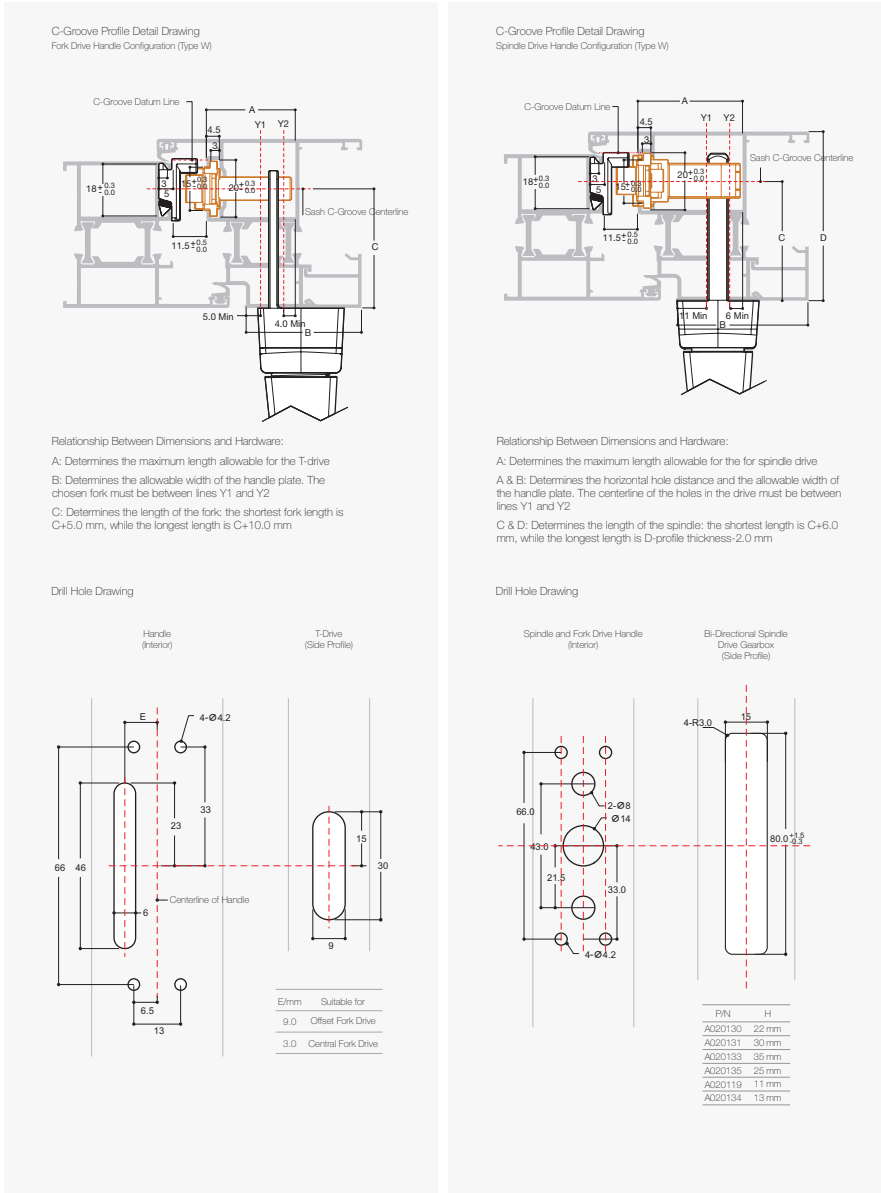
No.	Description	P/N	Qty	Notes	Ref. Page
1	Spindle and Fork Drive Handle (Type W)	A010601	1	Milan Series, Suitable for Offset Fork Drive, Aluminum Alloy	P66, P67, P68, P71, P72, P80, P82
		A010406		Berlin Series, Suitable for Offset Fork Drive, Aluminum Alloy	
		A010210		Kohn Series, Suitable for Offset Fork Drive, Aluminum Alloy	
		A010407		Berlin Series, Suitable for Central Fork Drive, Aluminum Alloy	
		A010211		Kohn Series, Suitable for Central Fork Drive, Aluminum Alloy	
		A010447		Berlin Series, Suitable for Offset Fork Drive, Zinc Alloy	
		A010213		Kohn Series, Suitable for Offset Fork Drive, Zinc Alloy	
2	Fork Drive	A010448	1	Berlin Series, Suitable for Central Fork Drive, Zinc Alloy	P89, P90
		A010214		Kohn Series, Suitable for Central Fork Drive, Zinc Alloy	
3	T-Drive	A010003	1	Chinese Traditional Huayun Series, Suitable for New York	P99
4	Lock Point	A090001	2	Lock Point Ø9.5x6.0 mm	P90, P91, P92, P93
		A090005		Lock Point Ø9.5x7.0 mm	
		A090007		End Lock Point Ø9.5x6.0 mm	
		A090008		End Lock Point Ø9.5x7.0 mm	
		A090032		Pry-Resistant End Lock Point with Bearing	
		A090035		Pry-Resistant End Lock Point with Bearing Ø8.5x9.3 mm	
5	Active Lock Point	A090048	0~4	Pry-Resistant End Lock Point (L Series)	P92
		A090002		Dual-Stage Active Lock Point Ø9.5x8.75 mm	
		A090003		Dual-Stage Active Lock Point Ø9.5x8.1 mm	
		A090011		Single-Stage Active Lock Point Ø9.5x8.7 mm	
6	Central Lock Point	A090012	0~2	Single-Stage Active Lock Point Ø9.5x9.7 mm	P90, P91, P92, P93
		A090009		Ø9.5x6.0 mm	
		A090010		Ø9.5x7.0 mm	
		A090033		Pry-Resistant Central Point with Bearing	
7	Keeper	A100127	2~4	Ø9.3x8.0 mm	Pg4
		A100126		Pry-Resistant Keeper (S Series)	
8	Connecting Strip	A100125		Pry-Resistant Keeper (L Series)	
9	Friction Hinge		2	Provided by Customer or Cmech	P102, P103, P104, P105
10	Operating Lever	A020055	2	Multiple Types Available	P108
11	Shootbolt	A070001	2	19.6mmx156mm	P108
		A070002		17.6mmx156mm	
		A070003		19.6mmx90mm	
		A070004		17.6mmx90mm	
12	Shootbolt Bracket	A100112	2		P108
13	Handle Screw Pack	A110078	1		P64
14	Friction Hinge Screw Pack		4	Determined by Friction Hinge	P112

FORK DRIVE HANDLE AND SPINDLE DRIVE HANDLE INSTRUCTIONS

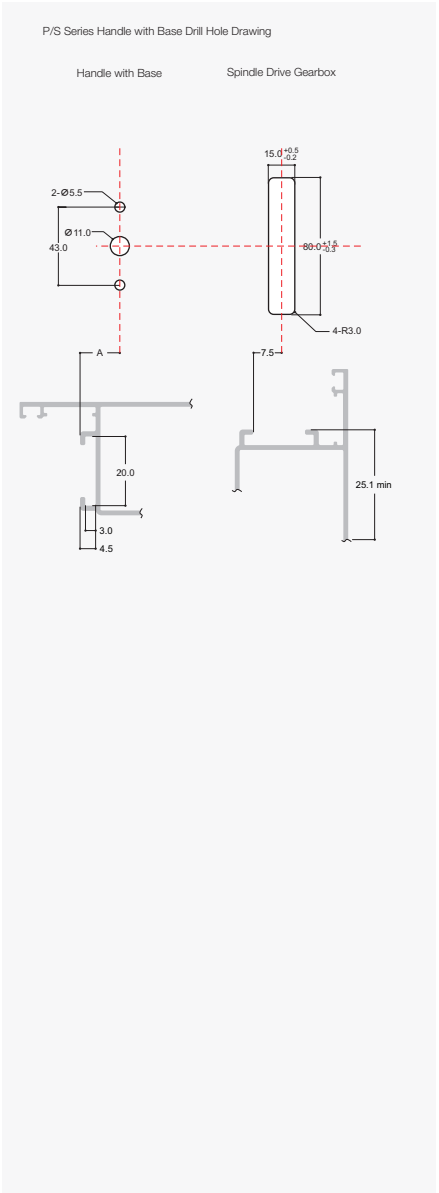
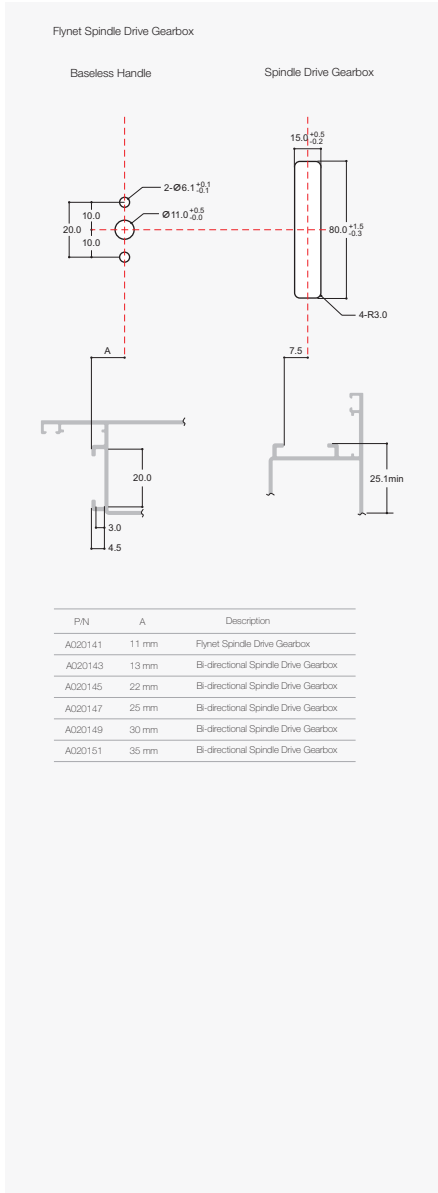
(See P64 for Spindle Length, See P69 for Fork Length)



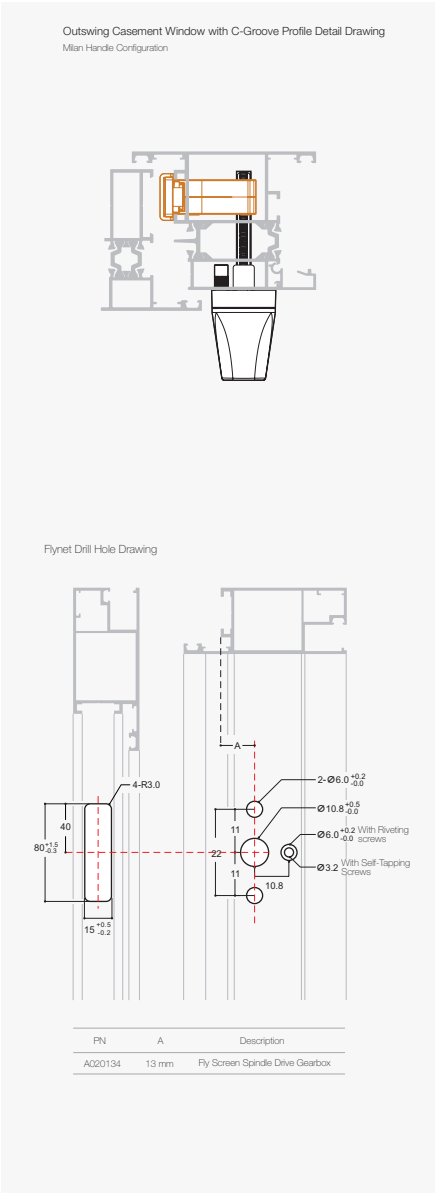
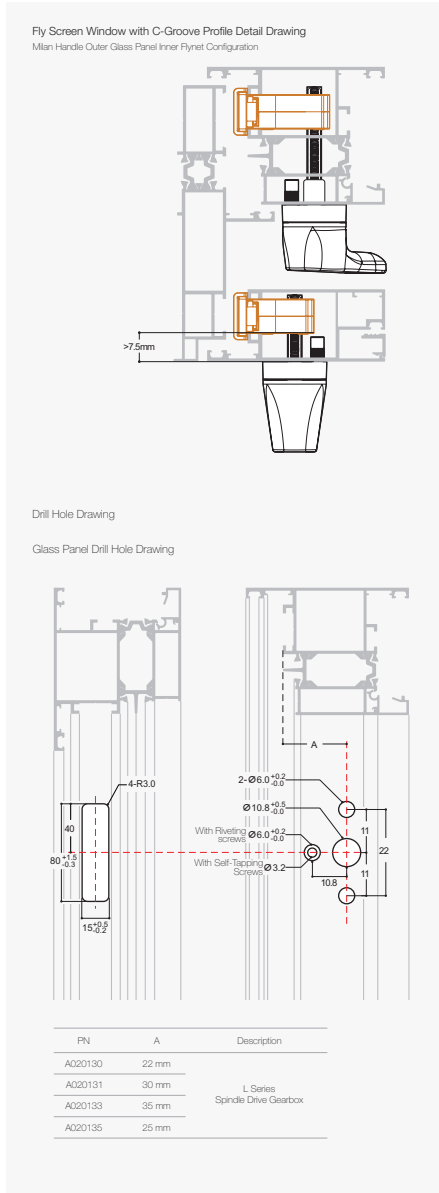
MILAN SERIES FORK DRIVE HANDLE SPINDLE DRIVE HANDLE PROFILE AND DRILLING REQUIREMENTS



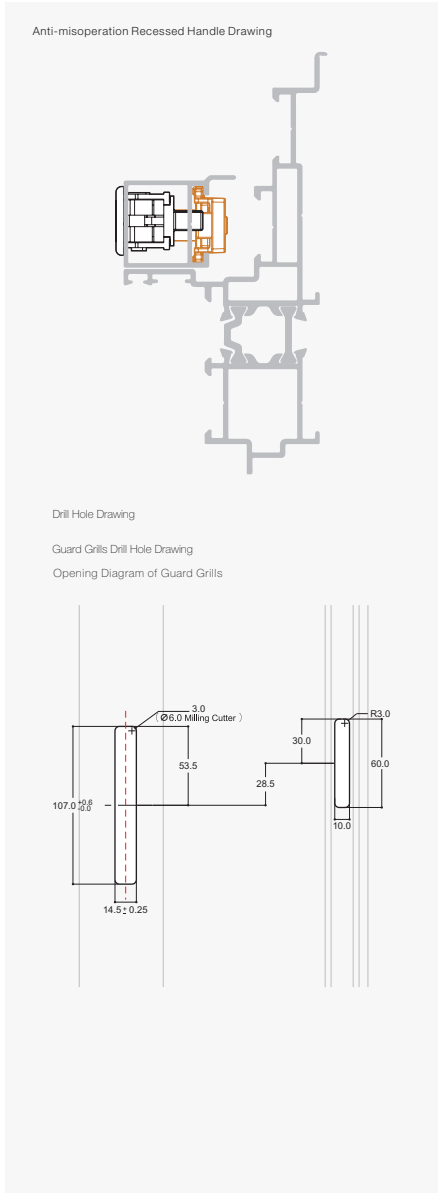
HANDLE PROFILE AND DRILLING REQUIREMENTS



HANDLE PROFILE AND DRILLING REQUIREMENTS



ANTI-MISOPERATION RECESSED HANDLE PROFILE AND DRILLING REQUIREMENTS



Outswing Awning Window Hardware

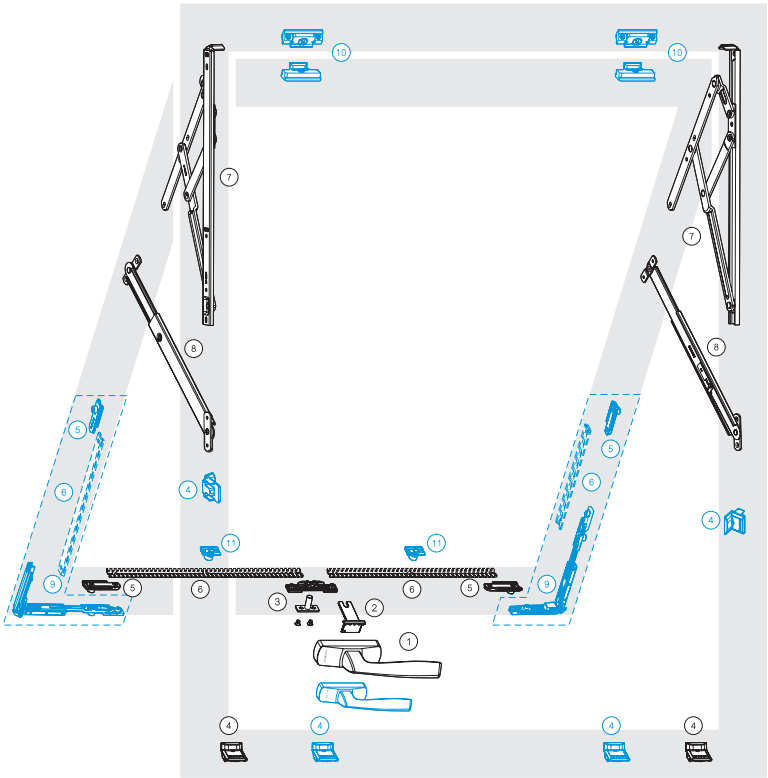


- The handles are available in many styles and colors
- Multiple types of limiting stays are available and suitable for various profiles
- Unique friction hinge block provides for easier opening of the window
- Multi-point locks can be specified to enhance water and air tightness and wind pressure resistance

Outswing Awning Window		Applicable Range
Sash Width	(mm)	400-2,000
Sash Height	(mm)	400-2,000
Load-bearing	(kg)	≤ 130
Length of T-Drive	(mm)	17, 20, 24, 28, 32, 36, 40
Center Distance of Spindle Drive Gearbox	(mm)	22, 25, 30, 35



OUTSWING AWNING WINDOW HARDWARE SERIES
Fork Drive Handle (Type W) Configuration



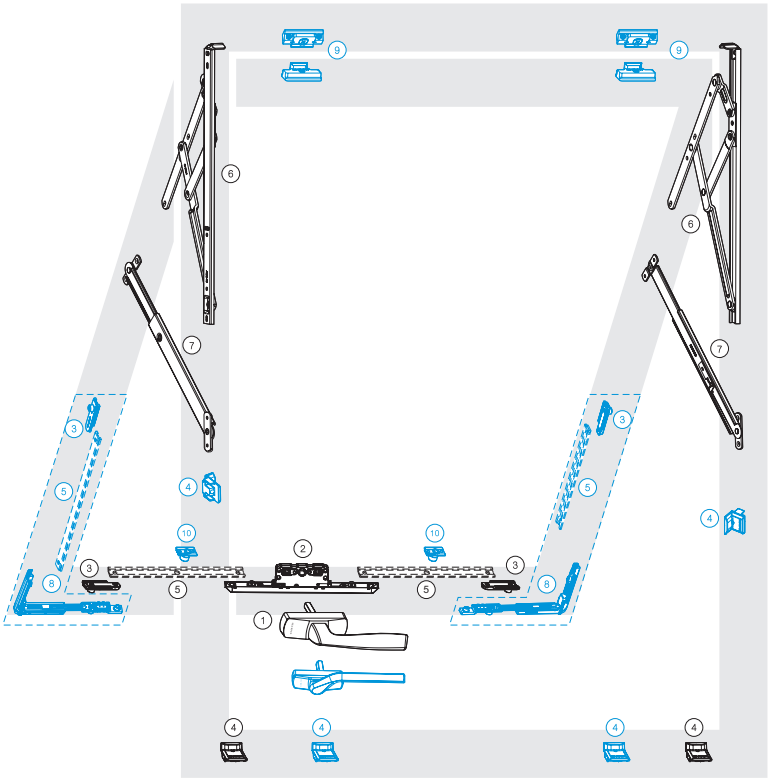
OUTSWING AWNING WINDOW HARDWARE SERIES
Configuration Table - Fork Drive Handle (Type W)

No.	Description	P/N	Qty	Notes	Ref. Page
1	Spindle and Fork Drive Handle (Type W)	A010601 A010406 A010210 A010407 A010211 A010447 A010213 A010448 A010214 A010003	1	Milan Series, Suitable for Offset Fork Drive, Aluminum Alloy Berlin Series, Suitable for Offset Fork Drive, Aluminum Alloy Koln Series, Suitable for Offset Fork Drive, Aluminum Alloy Berlin Series, Suitable for Central Fork Drive, Aluminum Alloy Koln Series, Suitable for Central Fork Drive, Aluminum Alloy Berlin Series, Suitable for Offset Fork Drive, Zinc Alloy Koln Series, Suitable for Offset Fork Drive, Zinc Alloy Berlin Series, Suitable for Central Fork Drive, Zinc Alloy Koln Series, Suitable for Central Fork Drive, Zinc Alloy Chinese Traditional Huayun Series, Suitable for New York	P83, P84, P85, P86, P88
2	Fork Drive		1	Offset Fork Drive, Multiple Types Available Central Fork Drive, Multiple Types Available	P89
3	T-Drive		1		P99
4	Keeper		2~6	Multiple Types Available	P94
5	Lock Point	A090001 A090005 A090007 A090008 A090032 A090049 A090048	2	Lock Point Ø9.5x6.0 mm Lock Point Ø9.5x7.0 mm End Lock Point Ø9.5x6.0 mm End Lock Point Ø9.5x7.0 mm Pry-Resistant End Lock Point with Bearing Pry-Resistant End Lock Point (S Series) Pry-Resistant End Lock Point (L Series)	P90, P91, P92, P93
6	Connecting Strip			Provided by Customer or Cmech	
7	Friction Hinge		1	Multiple Types Available	P102, P103, P104, P105
8	Limiting Stay		1	Multiple Types Available	P109, P110
9	Corner Drive	C060009	2		P139
10	Hidden Lock	A100121 A100104	1~2	For a Double-Sided C-Groove For a Single-Sided C-Groove	P109
11	Active Lock Point	A090002 A090003 A090011 A090012	2	Dual-Stage Active Lock Point Ø9.5x6.75 mm Dual-Stage Active Lock Point Ø9.5x8.1 mm Single-Stage Active Lock Point Ø9.5x6.7 mm Single-Stage Active Lock Point Ø9.5x9.7 mm	P92
12	Handle Screw Pack	A110078	1		P64
13	Limiting Stay Screw Pack	H110003	2		
14	Friction Hinge Screw Pack		2	Determined by Friction Hinge	P113



OUTSWING AWNING WINDOW HARDWARE SERIES

Spindle Drive Handle (Type W) Configuration



OUTSWING AWNING WINDOW HARDWARE SERIES

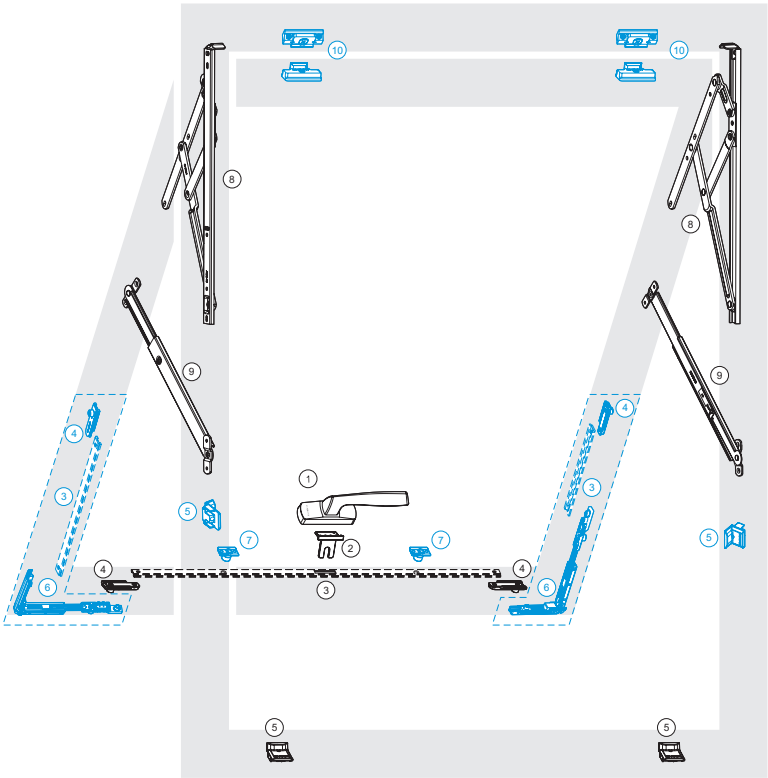
Configuration Table - Spindle Drive Handle (Type W)

No.	Description	P/N	Qty	Notes	Ref. Page
1	Spindle Drive Handle (Type W)	A010601 A010406 A010210 A010407 A010211 A010447 A010213 A010448 A010214 A010470 A010222 A010004 A010419~A010429 J010401~J010408 J010209~J010216 A010003	1	Milan Series, Aluminum Alloy Berlin Series, Aluminum Alloy Kohn Series, Aluminum Alloy Berlin Series, Aluminum Alloy Kohn Series, Aluminum Alloy Berlin Series, Zinc Alloy Kohn Series, Zinc Alloy Berlin Series, Zinc Alloy Kohn Series, Zinc Alloy Berlin Series Keyed Kohn Handle Keyed Fly Screen Handle Right Turn Handle Berlin Series Kohn Series Chinese Traditional Huayun Series, Aluminum Alloy	P66, P67, P68, P71, P72, P80, P82
2	Bi-directional Spindle Drive Gearbox	A020146 A020148 A020150 A020152	1	Hole Center to Attachment Surface: 22 mm Hole Center to Attachment Surface: 25 mm Hole Center to Attachment Surface: 30 mm Hole Center to Attachment Surface: 35 mm	P97
3	Lock Point	A090001 A090005 A090007 A090008 A090032 A090049 A090048	2	Lock Point Ø9.5x6.0 mm Lock Point Ø9.5x7.0 mm End Lock Point Ø9.5x6.0 mm End Lock Point Ø9.5x7.0 mm Pry-Resistant End Lock Point with Bearing Pry-Resistant End Lock Point (S Series) Pry-Resistant End Lock Point (L Series)	P90, P91, P92, P93
4	Keeper		2~4	Multiple Types Available	P94
5	Connecting Strip			Provided by Customer or Cmech	
6	Friction Hinge		1	Multiple Types Available	P102, P103, P104, P105
7	Limiting Stay		1	Multiple Types Available	P111
8	Corner Drive	C060009	2		P139
9	Hidden Lock	A100121 A100104	1~2	For a Double-Sided C-Groove For a Single-Sided C-Groove	P109
10	Active Lock Point	A090002 A090003 A090011 A090012	2	Dual-Stage Active Lock Point Ø9.5x8.75 mm Dual-Stage Active Lock Point Ø9.5x8.1 mm Single-Stage Active Lock Point Ø9.5x8.7 mm Single-Stage Active Lock Point Ø9.5x9.7 mm	P92
11	Handle Screw Pack		1		P64
12	Limiting Stay Screw Pack	H110003	2		P113
13	Friction Hinge Screw Pack		2	Determined by Friction Hinge	



OUTSWING AWNING WINDOW (CURTAIN WALL) HARDWARE SERIES

Fork Drive Handle (Type W) Configuration



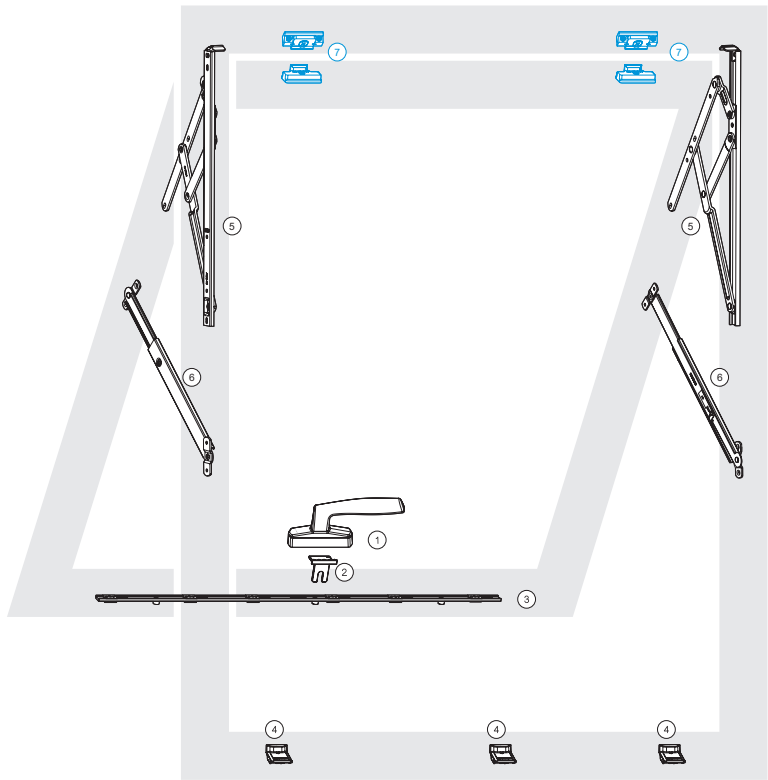
OUTSWING AWNING WINDOW (CURTAIN WALL) HARDWARE SERIES

Configuration Table - Fork Drive Handle (Type W)

No.	Description	P/N	Qty	Notes	Ref. Page
1	Spindle and Fork Drive Handle (Type W)	A010406 A010210 A010407 A010211 A010447 A010213 A010448 A010214	1	Berlin Series, Suitable for Offset Fork Drive, Aluminum Alloy Kohn Series, Suitable for Offset Fork Drive, Aluminum Alloy Berlin Series, Suitable for Offset Fork Drive, Zinc Alloy Kohn Series, Suitable for Offset Fork Drive, Zinc Alloy Berlin Series, Suitable for Central Fork Drive, Aluminum Alloy Kohn Series, Suitable for Central Fork Drive, Aluminum Alloy Berlin Series, Suitable for Central Fork Drive, Zinc Alloy Kohn Series, Suitable for Central Fork Drive, Zinc Alloy	P83, P84
2	Fork Drive		1	Offset Fork Drive Central Fork Drive	P89
3	Connecting Strip			Provided by Customer or Cmech	
4	Lock Point	A090001 A090005 A090007 A090008 A090032 A090035 A090048	2	Lock Point Ø9.5x6.0 mm Lock Point Ø9.5x7.0 mm End Lock Point Ø9.5x6.0 mm End Lock Point Ø9.5x7.0 mm Pry-Resistant End Lock Point with Bearing Pry-Resistant End Lock Point with Bearing Ø8.5x9.3 mm Pry-Resistant End Lock Point (L Series)	P90, P91, P92, P93
5	Keeper	A100127 A100122	2~6	Keeper Pry-Resistant Keepers with Bearing	P94
6	Corner Drive	C060009	2		P139
7	Active Lock Point	A090002 A090003 A090011 A090012	2	Dual-Stage Active Lock Point Ø9.5x6.75 mm Dual-Stage Active Lock Point Ø9.5x8.1 mm Single-Stage Active Lock Point Ø9.5x8.7 mm Single-Stage Active Lock Point Ø9.5x9.7 mm	P92
8	Friction Hinge		1	Multiple Types Available	P102, P103, P104, P105
9	Limiting Stay		1	Multiple Types Available	P111
10	Hidden Lock	A100121 A100104	1~2	For a Double-Sided C-Groove For a Single-Sided C-Groove	P109
11	Limiting Stay Screw Pack	H110003	2		
12	Friction Hinge Screw Pack		2	Determined by Friction Hinge	P113
13	Handle Screw Pack	A110078	1		

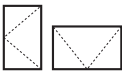


OUTSWING AWNING WINDOW (CURTAIN WALL) HARDWARE SERIES
Fork Drive Handle (Type W) Configuration

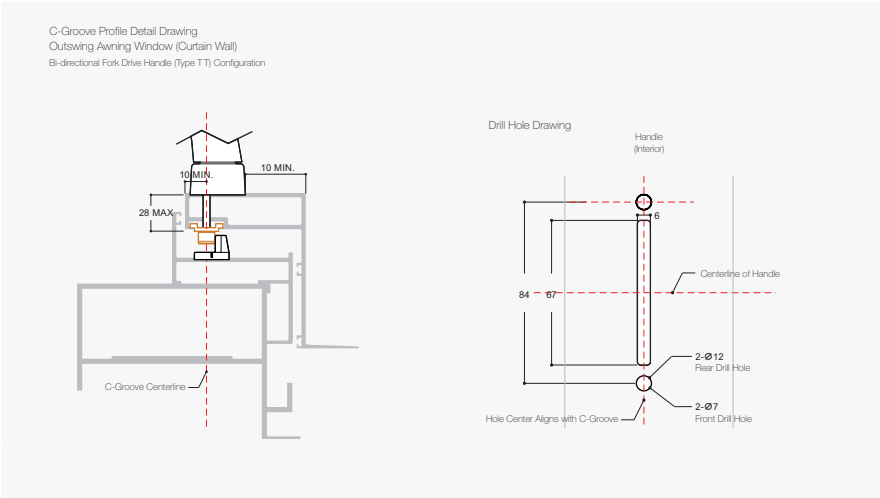


OUTSWING AWNING WINDOW (CURTAIN WALL) HARDWARE SERIES
Configuration Table - Fork Drive Handle (Type W)

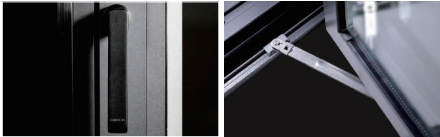
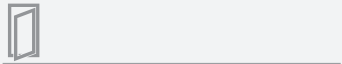
No.	Description	P/N	Qty	Notes	Ref. Page
1	Spindle and Fork Drive Handle (Type W)	A010601 A010406 A010210 A010407 A010211 A010447 A010213 A010448 A010214	1	Milan Series, Suitable for Offset Fork Drive, Aluminum Alloy Berlin Series, Suitable for Offset Fork Drive, Aluminum Alloy Kohn Series, Suitable for Offset Fork Drive, Aluminum Alloy Berlin Series, Suitable for Offset Fork Drive, Zinc Alloy Kohn Series, Suitable for Offset Fork Drive, Zinc Alloy Berlin Series, Suitable for Central Fork Drive, Aluminum Alloy Kohn Series, Suitable for Central Fork Drive, Aluminum Alloy Berlin Series, Suitable for Central Fork Drive, Zinc Alloy Kohn Series, Suitable for Central Fork Drive, Zinc Alloy	P83, P84, P85, P86, P88
2	Fork Drive		1	Offset Fork Drive Central Fork Drive	P89
3	Surface Mount Drive Gear	A020062 A020063 A020064 A020065	1	410 mm 600 mm 800 mm 1000 mm	P98
4	Keeper		3	Multiple Types Available	P94
5	Friction Hinge		1	Multiple Types Available	P90, P91, P92, P93
6	Limiting Stay		1	Multiple Types Available	P111
7	Hidden Lock	A100121 A100104	1~2	For a Double-Sided C-Groove For a Single-Sided C-Groove	P109
8	Handle Screw Pack	A110078	1		
9	Limiting Stay Screw Pack	H110003	2		
10	Friction Hinge Screw Pack		2	Determined by Friction Hinge	P113



OUTSWING AWNING WINDOW PROFILE AND DRILLING REQUIREMENTS



Inswing Casement
Window Hardware



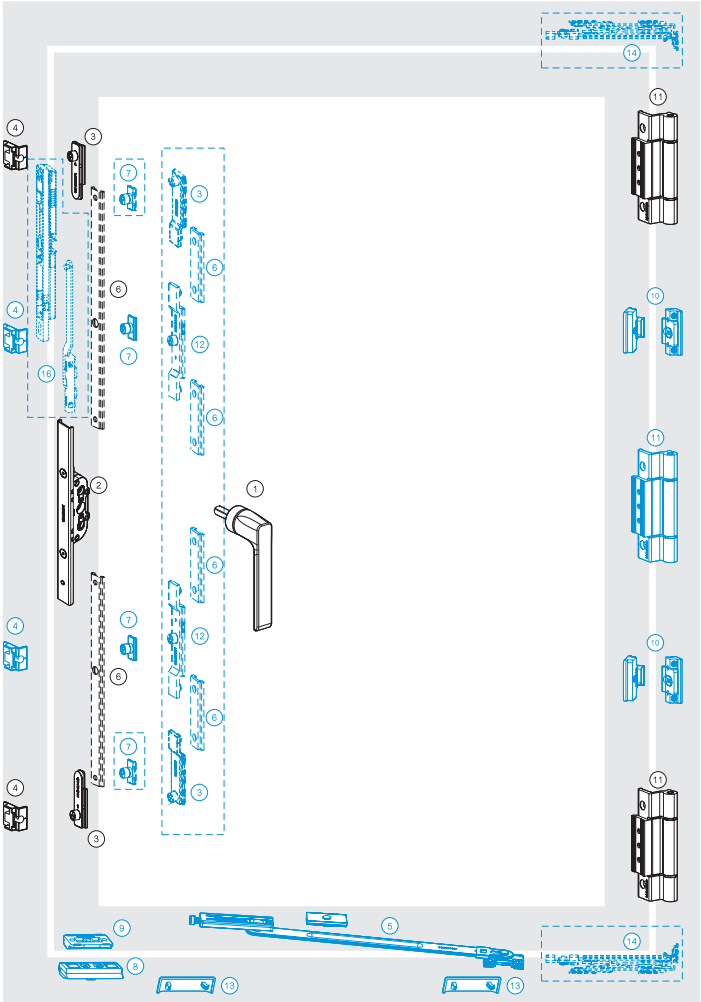
- The handles are available in many styles and colors
- Hinges are easy to install
- Unique support block with guide wheel provides for extra support for sash and smoother opening of the window
- Multi-point locks can be specified to enhance water and air tightness and wind pressure resistance

Inswing Casement Window		Applicable Range
Sash Width	(mm)	300-1,600
Sash Height	(mm)	400-2,400
Load-bearing	(kg)	≤ 100
Length of T-Drive	(mm)	17, 20, 24, 28, 32, 36, 40
Center Distance of Spindle Drive Gearbox	(mm)	11, 13, 22, 25, 30, 35



INSWING CASEMENT WINDOW HARDWARE SERIES

Spindle Handle & Drive Gearbox Configuration (90°)



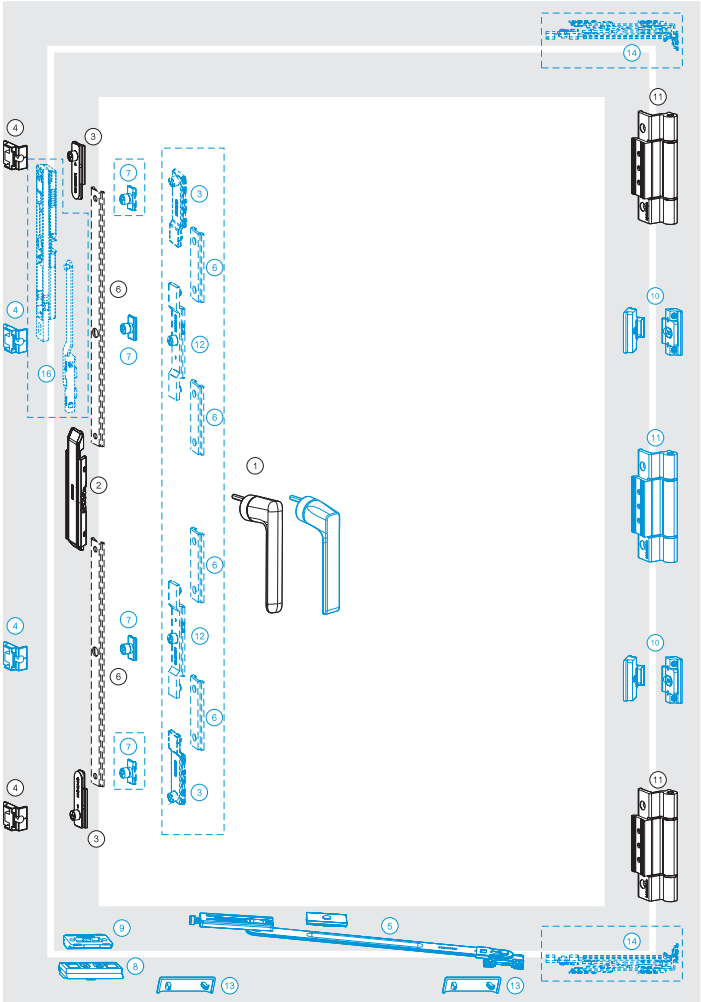
INSWING CASEMENT WINDOW HARDWARE SERIES

Configuration Table - Spindle Handle & Drive Gearbox (90°)

No.	Description	P/N	Qty	Notes	Ref. Page
1	Handle	A010606 A010607 A010608 A010701 A010702 A010703 A010707	1	Milan Series Round-Base Handle Milan Series Round-Base Left Turn Handle Milan Series Round-Base Right Turn Handle Venice Series Round-Base Handle Venice Series Round-Base Left Turn Handle Venice Series Round-Base Right Turn Handle Venice Series Round-Base Handle (40mm Height)	P65, P67, P67 P71, P72
2	Spindle Drive Gearbox	C020020	1		P136
3	Lock Point	A090001 A090005 A090007 A090008 A090032 A090035 A090048 A090049	2	Lock Point Ø9.5x6.0 mm Lock Point Ø9.5x7.0 mm End Lock Point Ø9.5x6.0 mm End Lock Point Ø9.5x7.0 mm Pry-Resistant End Lock Point with Bearing Pry-Resistant End Lock Point with Bearing Ø8.5x9.3 mm Pry-Resistant End Lock Point (L Series) Pry-Resistant End Lock Point (S Series)	P90, P91, P92, P93
4	Keeper		2~4	Multiple Types Available	P94
5	Limiting Stay	B040041 B040042	1	10' 14'	P111
6	Connecting Strip			Provided by Customer or Cmech	
7	Active Lock Point	A090002 A090003 A090011 A090012	2~4	Dual-Stage Active Lock Point Ø9.5x6.75 mm Dual-Stage Active Lock Point Ø9.5x6.1 mm Single-Stage Active Lock Point Ø9.5x8.7 mm Single-Stage Active Lock Point Ø9.5x9.7 mm	P92
8	Frame Support Block	A120005 A080003 A080004	1	Frame Support Block with Guide Wheel; Height: 12.6 mm Frame Support Block; Height: 12.8 mm Frame Support Block; Height: 8.3 mm	P109, P110
9	Sash Support Block	A080012	1	Height: 7.5 mm	P110
10	Hidden Lock	A100184	0~2	For a Single-Sided C-Groove For a Double-Sided C-Groove	P109
11	Hinge	B040059	2~3	80 kg Clamping Hinge	P107
12	Central Lock Point	A090009 A090010 A090033 A090034	0~2	Ø9.5x6.0 mm Ø9.5x7.0 mm Pry-Resistant Central Point with Bearing Ø9.3x8.0 mm	P92
13	Drain Cover	C120002	2		P102
14	Concealed Hinge	B040054 B040081 B040082	1	60 kg Concealed Hinge 25 kg Slimline Plyscen Hinge 80 kg Concealed Hinge	P105, P106
15	Ventilation Assist	B040072	1		P98
16	Tapping Screws Pack	C110013	1		
17	Ram Screws Pack	C110014	1		



INSWING CASEMENT WINDOW HARDWARE SERIES
Hexagon Spindle Handle & Drive Gearbox Configuration (90°)



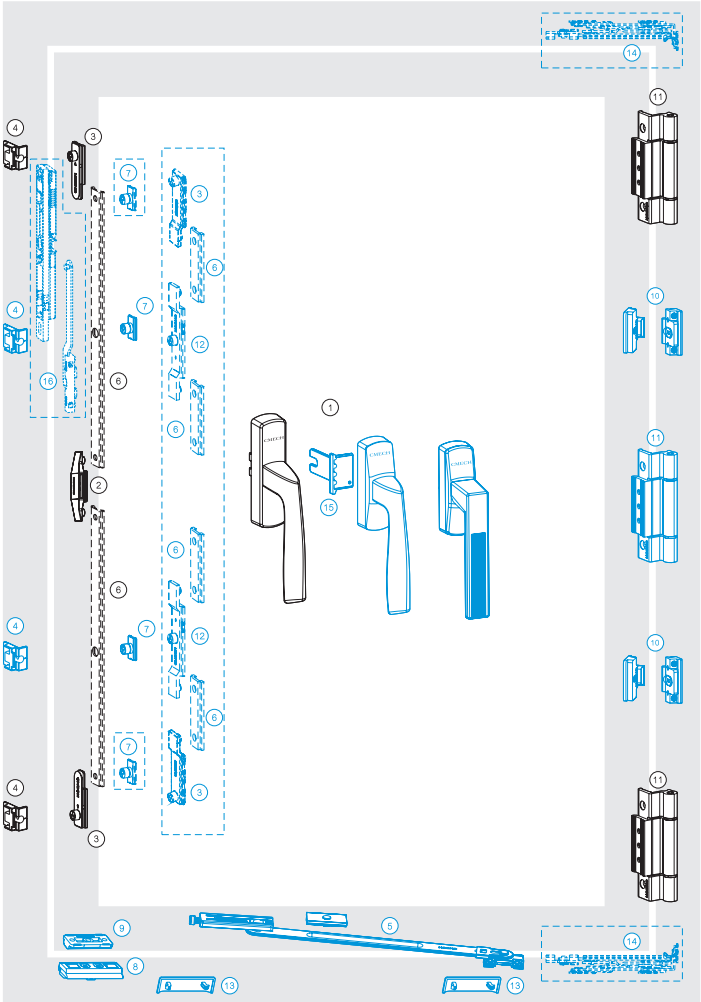
INSWING CASEMENT WINDOW HARDWARE SERIES
Configuration Table - Hexagon Spindle Handle & Drive Gearbox (90°)

No.	Description	P/N	Qty	Notes	Ref. Page
1	Milan Handle	C010601 C010701	1	Milan Series Hexagon Spindle Drive Handle Venice Series Hexagon Spindle Drive Handle	P67
2	Hexagon Spindle Drive Gearbox	B020003	1		P97
3	Lock Point	A090001 A090005 A090007 A090008 A090032 A090035 A090048 A090049	2	Lock Point Ø9.5x6.0 mm Lock Point Ø9.5x7.0 mm End Lock Point Ø9.5x6.0 mm End Lock Point Ø9.5x7.0 mm Pry-Resistant End Lock Point with Bearing Pry-Resistant End Lock Point with Bearing Ø8.5x9.3 mm Pry-Resistant End Lock Point (L Series) Pry-Resistant End Lock Point (S Series)	P90, P91, P92, P93
4	Keeper		2-4	Multiple Types Available	P94
5	Limiting Stay	B040041 B040042	1	10" 14"	P111
6	Connecting Strip			Provided by Customer or Cmech	
7	Active Lock Point	A090002 A090003 A090011 A090012	2-4	Dual-Stage Active Lock Point Ø9.5x6.75 mm Dual-Stage Active Lock Point Ø9.5x6.1 mm Single-Stage Active Lock Point Ø9.5x6.7 mm Single-Stage Active Lock Point Ø9.5x9.7 mm	P92
8	Frame Support Block	A120005 A080003 A080004	1	Frame Support Block with Guide Wheel, Height: 12.6 mm Frame Support Block, Height: 12.8 mm Frame Support Block, Height: 8.3 mm	P109, P110
9	Sash Support Block	A080012	1	Height: 7.5 mm	P110
10	Hidden Lock	A100104	0-2	For a Single-Sided C-Groove For a Double-Sided C-Groove	P109
11	Hinge	B040059	2-3	80 kg Clamping Hinge	P107
12	Central Lock Point	A090009 A090010 A090033 A090034	0-2	Ø9.5x6.0 mm Ø9.5x7.0 mm Pry-Resistant Central Point with Bearing Ø9.3x6.0 mm	P92
13	Drain Cover	C120002	2		P102
14	Concealed Hinge	B040054 B040081 B040082	1	60 kg Concealed Hinge 25 kg Slimline Pivoted Hinge 80 kg Concealed Hinge	P105, P106
15	Ventilation Assist	B040072	1		P98
16	Tapping Screws Pack	C110013	1		
17	Ram Screws Pack	C110014	1		



INSWING CASEMENT WINDOW HARDWARE SERIES

Fork Drive Handle (Type TT) Configuration



INSWING CASEMENT WINDOW HARDWARE SERIES

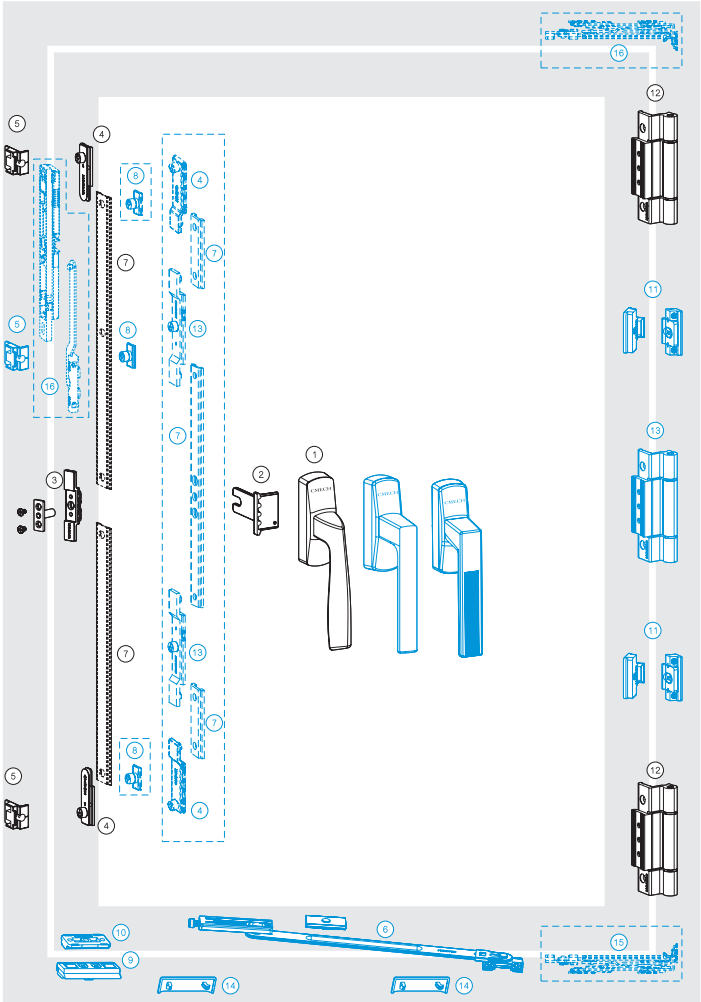
Configuration Table - Fork Drive Handle (Type TT)

No.	Description	P/N	Qty	Notes	Ref. Page
1	Fork Drive Handle (Type T.T.) / Spindle and Fork Drive Handle (Type W)	C010402 C010202 C010401 C010201 A010406 A010210 A010407 A010211 A010447 A010213 A010448 A010214 A010003	1	Berlin Series, Aluminum Alloy Koh Series, Aluminum Alloy Berlin Series, Zinc Alloy Koh Series, Zinc Alloy Berlin Series, Suitable for Offset Fork Drive, Aluminum Alloy Koh Series, Suitable for Offset Fork Drive, Aluminum Alloy Berlin Series, Suitable for Central Fork Drive, Aluminum Alloy Koh Series, Suitable for Central Fork Drive, Aluminum Alloy Berlin Series, Suitable for Offset Fork Drive, Zinc Alloy Koh Series, Suitable for Offset Fork Drive, Zinc Alloy Berlin Series, Suitable for Central Fork Drive, Zinc Alloy Koh Series, Suitable for Central Fork Drive, Zinc Alloy Chinese Traditional Huayun Series, Suitable	P73, P74, P75, P76, P85, P86
2	Fork Drive Connector	B020004	1		P95
3	Lock Point	A090001 A090005 A090007 A090008 A090032 A090035 A090048 A090049	2	Lock Point Ø9.5x6.0 mm Lock Point Ø9.5x7.0 mm End Lock Point Ø9.5x6.0 mm End Lock Point Ø9.5x7.0 mm Pry-Resistant End Lock Point with Bearing Pry-Resistant End Lock Point with Bearing Ø8.5x9.3 mm Pry-Resistant End Lock Point (L Series) Pry-Resistant End Lock Point (S Series)	P88, P89, P92, P90, P91
4	Keeper		2~4	Multiple Types Available	P94
5	Limiting Stay	B040041 B040042	1	10" 14"	P110
6	Connecting Strip			Provided by Customer or Cmech	
7	Active Lock Point	A090002 A090003 A090011 A090012	2~4	Dual-Stage Active Lock Point Ø9.5x8.75 mm Dual-Stage Active Lock Point Ø9.5x8.1 mm Single-Stage Active Lock Point Ø9.5x8.7 mm Single-Stage Active Lock Point Ø9.5x9.7 mm	P90
8	Frame Support Block	A120005 A080003 A080004	1	Frame Support Block with Guide Wheel; Height: 12.6 mm Frame Support Block; Height: 12.6 mm Frame Support Block; Height: 8.3 mm	P106, P107
9	Sash Support Block	A080012	1	Height: 7.5 mm	P106
10	Hidden Lock	A100121 A100104	0~2	For a Single-Sided C-Groove For a Double-Sided C-Groove	P106
11	Hinge	B040059	2~3	80 kg Clamping Hinge 45 kg Clamping Hinge	P108
12	Central Lock Point	A090009 A090010 A090033 A090034	0~2	Ø9.5x6.0 mm Ø9.5x7.0 mm Pry-Resistant Central Point with Bearing Ø9.3x8.0 mm	P88, P89
13	Drain Cover	C120002	2		P102
14	Concealed Hinge	B040054 B040081 B040082	1	60 kg Concealed Hinge 25 kg Slimline Flyscreen Hinge 80 kg Concealed Hinge	P109
15	Fork Drive		1	Offset Fork Drive Central Fork Drive	P87
16	Ventilation Assist	B040072	1		P98
17	Handle Screw Pack	B110010	1	Suitable for Inswing Casement Window Handle	
18	Handle Screw Pack	A110078	1	Suitable for Outswing Casement Window Handle	
19	Handle Screw Pack	C110004 C110005	1		



INSWING CASEMENT WINDOW HARDWARE SERIES

Fork Drive Handle (Type W) Configuration



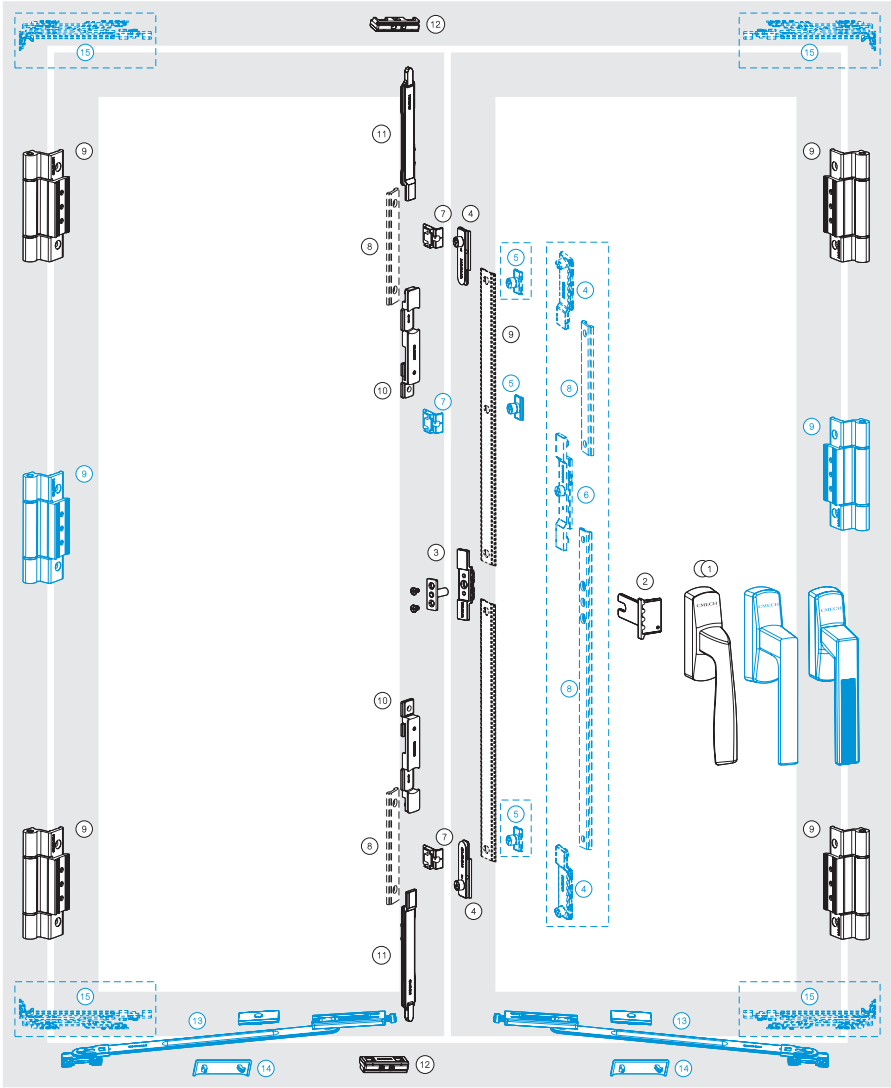
INSWING CASEMENT WINDOW HARDWARE SERIES

Configuration Table - Fork Drive Handle (Type W)

No.	Description	P/N	Qty	Notes	Ref. Page
1	Spindle and Fork Drive Handle (Type W)	A010406 A010210 A010407 A010211 A010447 A010213 A010448 A010214 A010003	1	Berlin Series, Suitable for Offset Fork Drive, Aluminum Alloy Kohn Series, Suitable for Offset Fork Drive, Aluminum Alloy Berlin Series, Suitable for Central Fork Drive, Aluminum Alloy Kohn Series, Suitable for Central Fork Drive, Aluminum Alloy Berlin Series, Suitable for Offset Fork Drive, Zinc Alloy Kohn Series, Suitable for Offset Fork Drive, Zinc Alloy Berlin Series, Suitable for Central Fork Drive, Zinc Alloy Kohn Series, Suitable for Central Fork Drive, Zinc Alloy Chinese Traditional Huayun Series, Suitable for New York	P73, P74, P75, P76
2	Fork Drive		1	Offset Fork Drive Central Fork Drive	P87
3	T-Drive		1		P95, P86
4	Lock Point	A090001 A090005 A090007 A090008 A090032 A090035 A090048 A090049	2	Lock Point Ø9.5x6.0 mm Lock Point Ø9.5x7.0 mm End Lock Point Ø9.5x6.0 mm End Lock Point Ø9.5x7.0 mm Pry-Resistant End Lock Point with Bearing Pry-Resistant End Lock Point with Bearing Ø8.5x9.3 mm Pry-Resistant End Lock Point (L Series) Pry-Resistant End Lock Point (S Series)	P88, P89, P90, P91
5	Keeper		2-4	Multiple Types Available	P92
6	Limiting Stay	B040041 B040042	1	10" 14"	P110
7	Connecting Strip			Provided by Customer or Cmech	
8	Active Lock Point	A090002 A090003 A090011 A090012	2-4	Dual-Stage Active Lock Point Ø9.5x8.75 mm Dual-Stage Active Lock Point Ø9.5x8.1 mm Single-Stage Active Lock Point Ø9.5x8.7 mm Single-Stage Active Lock Point Ø9.5x9.7 mm	P90
9	Frame Support Block	A120005 A080003 A080004	1	Frame Support Block with Guide Wheel; Height: 12.6 mm Frame Support Block; Height: 12.6 mm Frame Support Block; Height: 8.3 mm	P106, P107
10	Sash Support Block	A080012	1	Height: 7.5 mm	P106
11	Hidden Lock	A100121 A100104	0-2	For a Single-Sided C-Groove For a Double-Sided C-Groove	P108
12	Hinge	B040059	2-3	80 kg Clamping Hinge	P108
13	Central Lock Point	A090009 A090010 A090033 A090034	0-2	Ø9.5x6.0 mm Ø9.5x7.0 mm Pry-Resistant Central Point with Bearing Ø9.3x6.0 mm	P88, P89
14	Drain Cover	C120002	2		P102
15	Concealed Hinge	B040054	1	60 kg	P109
16	Ventilation Assist	B040072	1		P98
17	Handle Screw Pack	A110078	1		



INSWING FRENCH CASEMENT WINDOW HARDWARE SERIES
Fork Drive Handle (Type W) Configuration

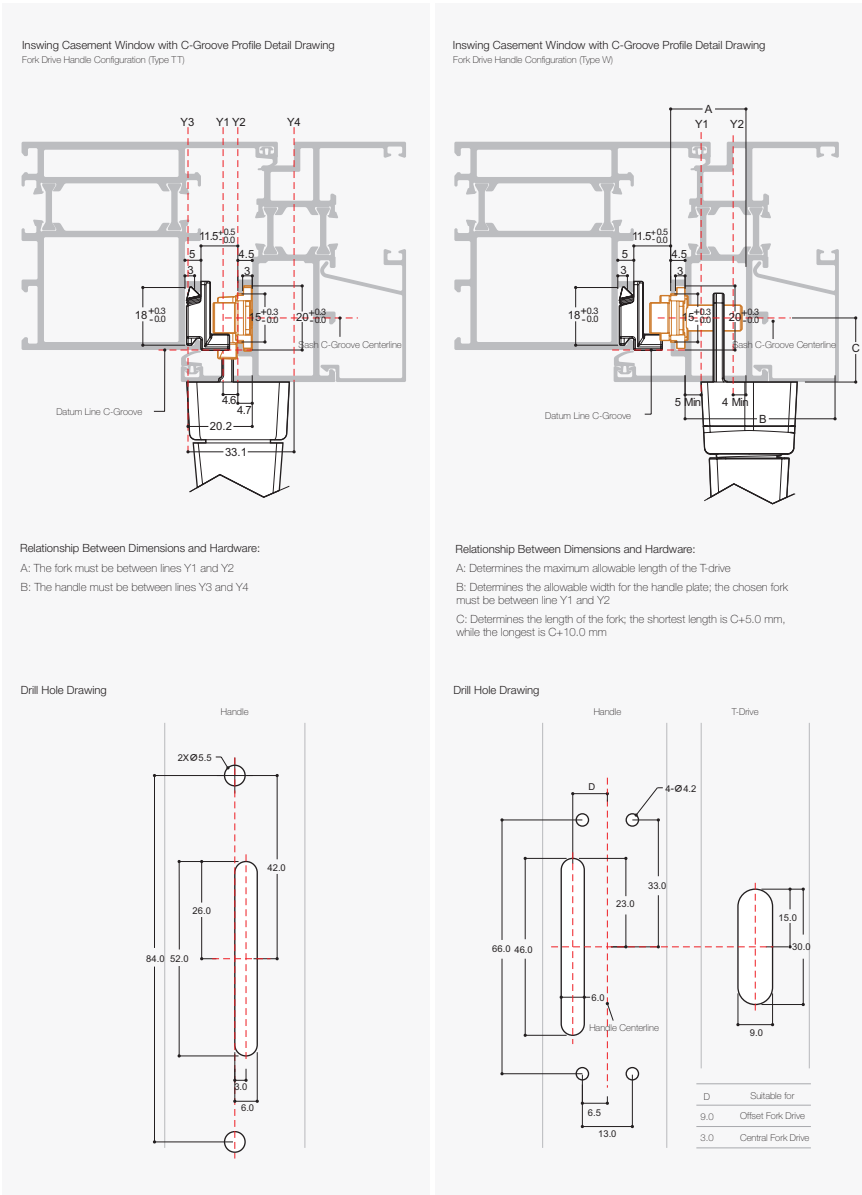


INSWING FRENCH CASEMENT WINDOW HARDWARE SERIES
Configuration Table - Fork Drive Handle (Type W)

No.	Description	P/N	Qty	Notes	Ref. Page
1	Spindle and Fork Drive Handle (Type W)	A010406 A010210 A010407 A010211 A010447 A010213 A010448 A010214 A010003	1	Berlin Series, Suitable for Offset Fork Drive, Aluminum Alloy Kohn Series, Suitable for Offset Fork Drive, Aluminum Alloy Berlin Series, Suitable for Central Fork Drive, Aluminum Alloy Kohn Series, Suitable for Central Fork Drive, Aluminum Alloy Berlin Series, Suitable for Offset Fork Drive, Zinc Alloy Kohn Series, Suitable for Offset Fork Drive, Zinc Alloy Berlin Series, Suitable for Central Fork Drive, Zinc Alloy Kohn Series, Suitable for Central Fork Drive, Zinc Alloy Chinese Traditional Huayun Series, Suitable for New York	P73, P74, P75, P76
2	Fork Drive		1	Offset Fork Drive Central Fork Drive	P87
3	T-Drive		1		P95, P86
4	Lock Point	A090001 A090005 A090007 A090008 A090032 A090035 A090048 A090049	2	Lock Point Ø9.5x6.0 mm Lock Point Ø9.5x7.0 mm End Lock Point Ø9.5x6.0 mm End Lock Point Ø9.5x7.0 mm Pry-Resistant End Lock Point with Bearing Pry-Resistant End Lock Point with Bearing Ø8.5x9.3 mm Pry-Resistant End Lock Point (L Series) Pry-Resistant End Lock Point (S Series)	P88, P89, P90, P91
5	Active Lock Point	A090002 A090003 A090011 A090012	0-2	Dual-Stage Active Lock Point Ø9.5x8.75 mm Dual-Stage Active Lock Point Ø9.5x8.1 mm Single-Stage Active Lock Point Ø9.5x8.7 mm Single-Stage Active Lock Point Ø9.5x9.7 mm	P90
6	Central Lock Point	A090009 A090010 A090033 A090034	0-2	Ø9.5x6.0 mm Ø9.5x7.0 mm Pry-Resistant Central Point with Bearing Ø9.5x8.0 mm	P88, P89
7	Keeper	A100127 A100122	2-4	Multiple Types Available	
8	Connecting Strip			Provided by Customer or Cmech	P92
9	Hinge	B040059	2-3	80 kg Clamping Hinge	
10	Operating Lever	A020055	2		P108
11	Shootbolt	A070001 A070002 A070003 A070004	2	19.6 mmx156 mm 17.6 mmx156 mm 19.6 mmx90 mm 17.6 mmx90 mm	P99
12	Shootbolt Bracket	A100112	2		P99
13	Limiting Stay	B040041 B040042	2	10° 14°	P99
14	Drain Cover	C120002	2		P110
15	Concealed Hinge	B040054 B040081 B040082	2	60 kg Concealed Hinge 25 kg Slimline Plyscen Hinge 80 kg Concealed Hinge	P102
16	Handle Screw Pack	A110078	1		P109



INSWING CASEMENT WINDOW PROFILE AND DRILLING REQUIREMENTS



Hopper Window Hardware

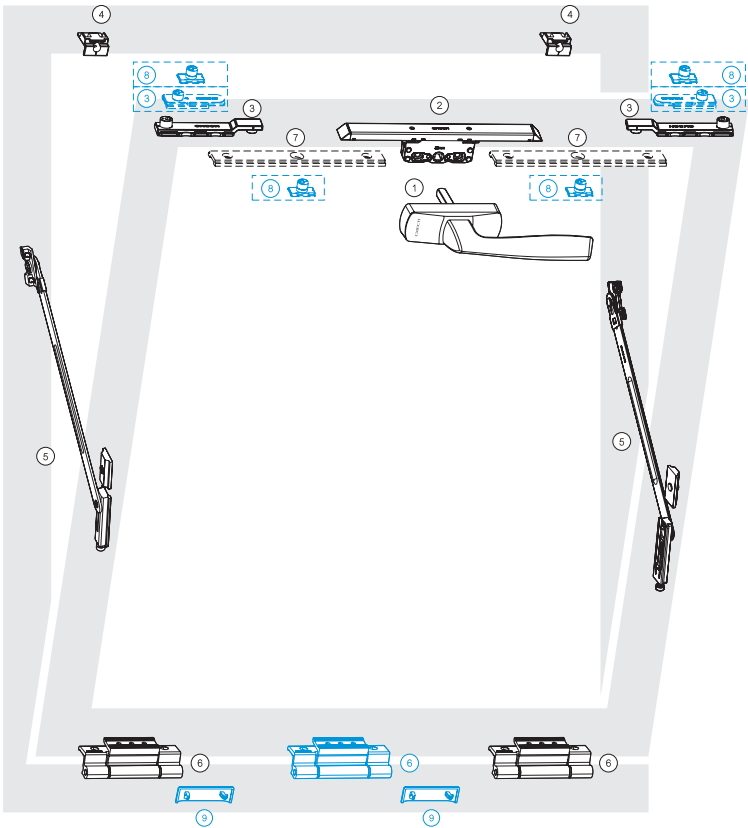


- The handles are available in many styles and colors
- Hinges are easy to install
- Multi-point locks can be specified to enhance water and air tightness and wind pressure resistance

Hopper Window		Applicable Range
Sash Width	(mm)	500-1,600
Sash Height	(mm)	500-1,300
Load-bearing	(kg)	≤ 80
Length of T-Drive	(mm)	17, 20, 24, 28, 32, 36, 40
Center Distance of Spindle Drive Gearbox	(mm)	22, 25, 30, 35



HOPPER WINDOW HARDWARE SERIES
Spindle Drive Handle (Type W) Configuration

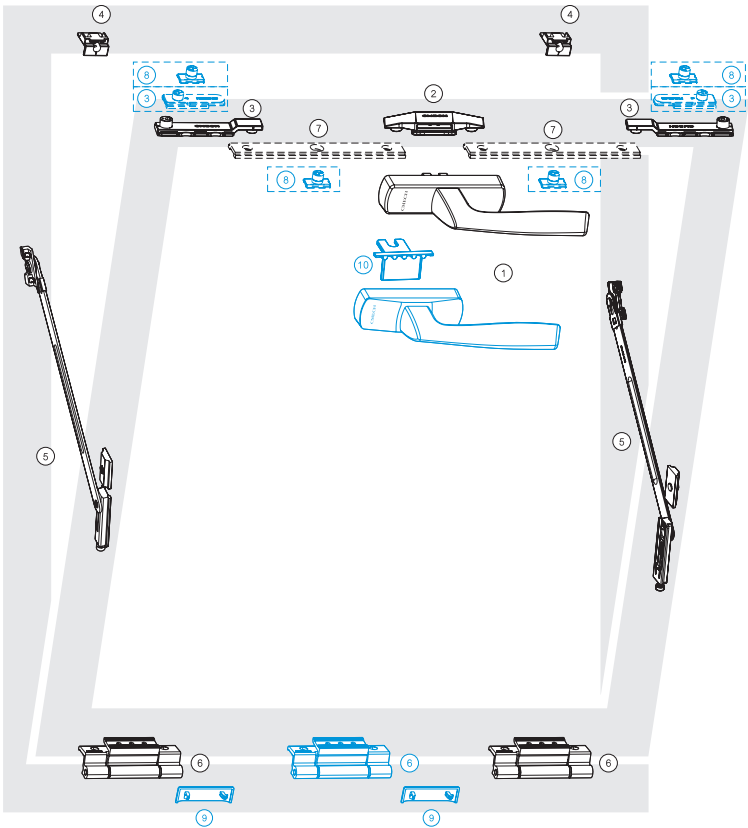


HOPPER WINDOW HARDWARE SERIES
Configuration Table - Spindle Drive Handle (Type W)

No.	Description	P/N	Qty	Notes	Ref. Page
1	Spindle Drive Handle (Type W)	A010406 A010210 A010407 A010211 A010447 A010213 A010448 A010214 A010470 A010222 A010004 A010408~A010418 A010419~A010429 J010401~J010408 J010209~J010216 A010003	1	Berlin Series, Aluminum Alloy Kohn Series, Aluminum Alloy Berlin Series, Aluminum Alloy Kohn Series, Aluminum Alloy Berlin Series, Zinc Alloy Kohn Series, Zinc Alloy Berlin Series, Zinc Alloy Kohn Series, Zinc Alloy Berlin Handle Keyed Kohn Handle Keyed Fly Screen Handle Left Turn Handle Right Turn Handle Berlin Series Kohn Series Chinese Traditional Huayun Series, Aluminum Alloy	P73, P74, P75, P76, P77, P78
2	Bi-Directional Spindle Drive Gearbox	A020130 A020131 A020133 A020135	1	Hole Center to Attachment Surface: 22 mm Hole Center to Attachment Surface: 30 mm Hole Center to Attachment Surface: 35 mm Hole Center to Attachment Surface: 25 mm	P93
3	Lock Point	A090001 A090005 A090007 A090008	2	Lock Point Ø9.5x6.0 mm Lock Point Ø9.5x7.0 mm End Lock Point Ø9.5x6.0 mm End Lock Point Ø9.5x7.0 mm	P88, P89, P90, P91
4	Keeper	A100127 A100122	2	Pry-Resistant Keeper	P92
5	Limiting Stay	B040041 B040042	2	10" 14"	P110
6	Hinge	B040059	2~3	80 kg Clamping Hinge	P108
7	Connecting Strip			Provided by Customer or Cmech	
8	Active Lock Point	A090002 A090003 A090011 A090012	0~4	Dual-Stage Active Lock Point Ø9.5x8.75 mm Dual-Stage Active Lock Point Ø9.5x8.1 mm Single-Stage Active Lock Point Ø9.5x8.7 mm Single-Stage Active Lock Point Ø9.5x9.7 mm	P90
9	Drain Cover	C120002	2		P102
10	Handle Screw Pack				P72



HOPPER WINDOW HARDWARE SERIES
Fork Drive Handle (Type TT) Configuration

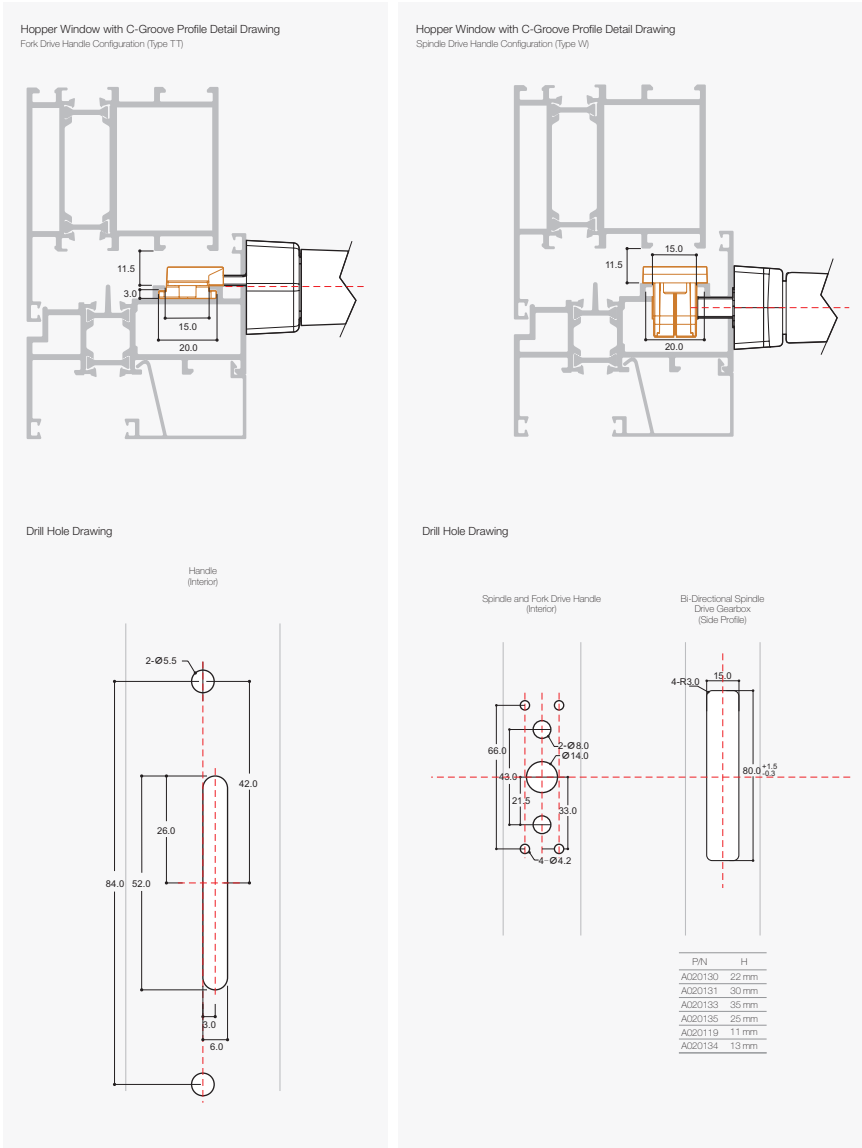


HOPPER WINDOW HARDWARE SERIES
Configuration Table - Fork Drive Handle (Type W/ TT)

No.	Description	P/N	Qty	Notes	Ref. Page
1	Fork Drive Handle (Type T T) / Spindle and Fork Drive Handle (Type W)	C010402 C010202 C010401 C010201 A010406 A010210 A010407 A010211 A010447 A010213 A010448 A010214 A010003	1	Berlin Series, Aluminum Alloy Kolh Series, Aluminum Alloy Berlin Series, Zinc Alloy Kolh Series, Zinc Alloy Berlin Series, Suitable for Offset Fork Drive, Aluminum Alloy Kolh Series, Suitable for Offset Fork Drive, Aluminum Alloy Berlin Series, Suitable for Central Fork Drive, Aluminum Alloy Kolh Series, Suitable for Central Fork Drive, Aluminum Alloy Berlin Series, Suitable for Offset Fork Drive, Zinc Alloy Kolh Series, Suitable for Offset Fork Drive, Zinc Alloy Berlin Series, Suitable for Central Fork Drive, Zinc Alloy Kolh Series, Suitable for Central Fork Drive, Zinc Alloy Chinese Traditional Huayun Series, Suitable	P73, P74, P75, P76, P65, P66
2	Fork Drive Connector	B020004	1		P95
3	Lock Point	A090001 A090005 A090007 A090008	2	Lock Point Ø9.5x6.0 mm Lock Point Ø9.5x7.0 mm End Lock Point Ø9.5x6.0 mm End Lock Point Ø9.5x7.0 mm	P88, P89, P90, P91
4	Keeper	A100127 A100122	2	Pty-Resistant Keeper	P92
5	Limiting Stay	B040041 B040042	2	10" 14"	P110
6	Hinge	B040059	2-3	80 kg Clamping Hinge	P108
7	Connecting Strip			Provided by Customer or Cmech	
8	Active Lock Point	A090002 A090003 A090011 A090012	0-4	Dual-Stage Active Lock Point Ø9.5x8.75 mm Dual-Stage Active Lock Point Ø9.5x8.1 mm Single-Stage Active Lock Point Ø9.5x8.7 mm Single-Stage Active Lock Point Ø9.5x9.7 mm	P90
9	Drain Cover	C120002	2		P102
10	Fork Drive		1	Offset Fork Drive Central Fork Drive	P87
11	Handle Screw Pack	B110010	1	Suitable for Inswing Casement Window Handle	
12	Handle Screw Pack	C110004	1	Suitable for Fork Drive Handle (Type TT)	



HOPPER WINDOW PROFILE AND DRILLING REQUIREMENTS

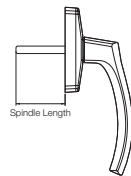


SCREW PACK SELECTIONS

S Series/Fly Screen Handle			Handle Screw Pack		
P/N	Notes	Qty	P/N	Notes	Qty
A110179	Steel, Suitable for 26.7 mm Spindle	1	J110001	Stainless Steel, M5x0.8x25 mm Cross Screws	2
A110180	Steel, Suitable for 32.7 mm Spindle	1	J110002	Stainless Steel, M5x0.8x35 mm Cross Screws	2
A110181	Steel, Suitable for 37.7 mm Spindle	1	J110003	Stainless Steel, M5x0.8x45 mm Cross Screws	2
A110182	Steel, Suitable for 42.7 mm Spindle	1	J110004	Stainless Steel, M5x0.8x55 mm Cross Screws	2
A110183	Steel, Suitable for 52.7 mm Spindle	1	J110005	Stainless Steel, M5x0.8x60 mm Cross Screws	2
A110184	Steel, Suitable for 62.7 mm Spindle	1	J110006	Stainless Steel, M5x0.8x65 mm Cross Screws	2
A110185	Steel, Suitable for 72.7 mm Spindle	1	J110007	Stainless Steel, M5x0.8x70 mm Cross Screws	2
A110186	Steel, Suitable for 87.7 mm Spindle	1	J110008	Stainless Steel, M5x0.8x80 mm Cross Screws	2
A110187	Steel, Suitable for 102.7 mm Spindle	1	J110009	Steel, M5x0.8x25 mm Cross Screws	2
A110188	Steel, Suitable for 117.7 mm Spindle	1	J110010	Steel, M5x0.8x35 mm Cross Screws	2
A110292	Spindle, Steel, Suitable for 22.5 mm Spindle	1	J110011	Steel, M5x0.8x45 mm Cross Screws	2
A110293	Spindle, Steel, Suitable for 26.5 mm Spindle	1	J110012	Steel, M5x0.8x55 mm Cross Screws	2
A110294	Spindle, Steel, Suitable for 32.5 mm Spindle	1	J110013	Steel, M5x0.8x60 mm Cross Screws	2
A110295	Spindle, Steel, Suitable for 37.5 mm Spindle	1	J110014	Steel, M5x0.8x65 mm Cross Screws	2
A110296	Spindle, Steel, Suitable for 42.5 mm Spindle	1	J110015	Steel, M5x0.8x70 mm Cross Screws	2
A110297	Spindle, Steel, Suitable for 47.5 mm Spindle	1	J110016	Steel, M5x0.8x80 mm Cross Screws	2
A110298	Spindle, Steel, Suitable for 52.5 mm Spindle	1	J110019	Steel, M5x0.8x95 mm Cross Screws	2
A110299	Spindle, Steel, Suitable for 57.5 mm Spindle	1			
A110300	Spindle, Steel, Suitable for 62.5 mm Spindle	1			
A110301	Spindle, Steel, Suitable for 67.5 mm Spindle	1			
A110302	Spindle, Steel, Suitable for 72.5 mm Spindle	1			

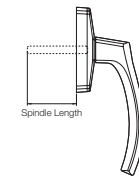
Spindle and Fork Drive Handle			Handle with Cylinder		
P/N	Notes	Qty	P/N	Notes	Qty
A110159	Steel, Suitable for 20 mm Spindle	1	A110169	Steel, Suitable for 18 mm Spindle	1
A110160	Steel, Suitable for 25 mm Spindle	1	A110170	Steel, Suitable for 23 mm Spindle	1
A110161	Steel, Suitable for 30 mm Spindle	1	A110171	Steel, Suitable for 28 mm Spindle	1
A110162	Steel, Suitable for 40 mm Spindle	1	A110172	Steel, Suitable for 38 mm Spindle	1
A110163	Steel, Suitable for 50 mm Spindle	1	A110173	Steel, Suitable for 48 mm Spindle	1
A110164	Steel, Suitable for 60 mm Spindle	1	A110174	Steel, Suitable for 58 mm Spindle	1
A110165	Steel, Suitable for 75 mm Spindle	1	A110175	Steel, Suitable for 73 mm Spindle	1
A110166	Steel, Suitable for 90 mm Spindle	1	A110176	Steel, Suitable for 88 mm Spindle	1
A110167	Steel, Suitable for 105 mm Spindle	1	A110177	Steel, Suitable for 103 mm Spindle	1
A110168	Steel, Suitable for 120 mm Spindle	1	A110178	Steel, Suitable for 118 mm Spindle	1
A110213	Steel, Suitable for 35 mm Spindle	1			
A110214	Steel, Suitable for 45 mm Spindle	1			
A110215	Steel, Suitable for 55 mm Spindle	1			

Fixed Spindle



- 28 Spindle Drive Handle
- Turn Handle

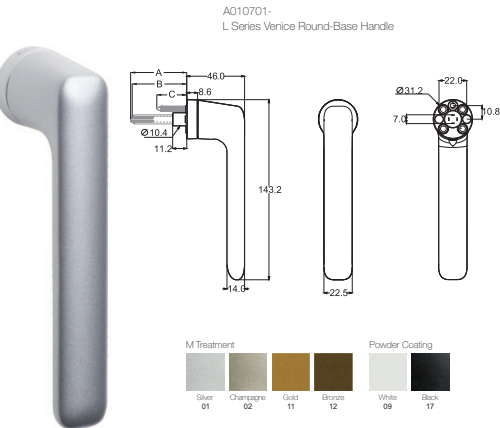
Moveable Spindle



- Keyed Handle
- Spindle and Fork Drive Handle
- Fly Screen Handle
- S Series

HANDLE SELECTIONS

VENICE SERIES



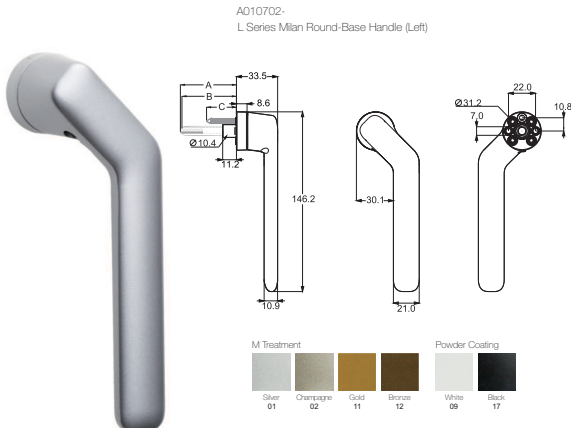
Screw Pack			
P/N	A	B	C
A110239	20-5=15	20	ST4.2x14 Self-Tapping Screws
A110219	25-5=20	20	ST4.2x14 Self-Tapping Screws
A110220	30-5=25	25	ST4.2x14 Self-Tapping Screws
A110221	35-5=30	30	ST4.2x14 Self-Tapping Screws
A110222	45-5=40	40	ST4.2x14 Self-Tapping Screws
A110223	55-5=50	50	ST4.2x14 Self-Tapping Screws
A110224	65-5=60	60	ST4.2x14 Self-Tapping Screws
A110225	75-5=70	70	ST4.2x14 Self-Tapping Screws
A110226	85-5=80	80	ST4.2x14 Self-Tapping Screws
A110227	95-5=90	90	ST4.2x14 Self-Tapping Screws
A110240	20-5=15	20	M4x20 Ram Screws
A110228	25-5=20	20	M4x20 Ram Screws
A110229	30-5=25	25	M4x20 Ram Screws
A110230	35-5=30	30	M4x20 Ram Screws
A110231	45-5=40	40	M4x20 Ram Screws
A110232	55-5=50	50	M4x20 Ram Screws
A110233	65-5=60	60	M4x20 Ram Screws
A110234	75-5=70	70	M4x20 Ram Screws
A110235	85-5=80	80	M4x20 Ram Screws
A110236	95-5=90	90	M4x20 Ram Screws
A110249	50-5=45	45	M4x20 Ram Screws
A110258	/	25	/
A110259	/	30	/
A110260	/	50	/
A110261	/	60	/



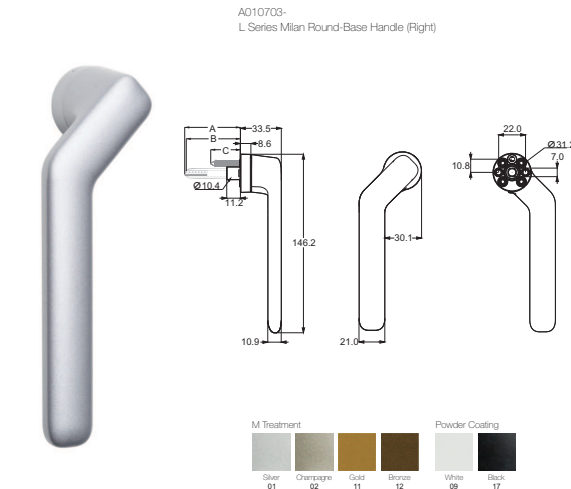
Screw Pack			
P/N	A	B	C
A110239	20-5=15	20	ST4.2x14 Self-Tapping Screws
A110219	25-5=20	20	ST4.2x14 Self-Tapping Screws
A110220	30-5=25	25	ST4.2x14 Self-Tapping Screws
A110221	35-5=30	30	ST4.2x14 Self-Tapping Screws
A110222	45-5=40	40	ST4.2x14 Self-Tapping Screws
A110223	55-5=50	50	ST4.2x14 Self-Tapping Screws
A110224	65-5=60	60	ST4.2x14 Self-Tapping Screws
A110225	75-5=70	70	ST4.2x14 Self-Tapping Screws
A110226	85-5=80	80	ST4.2x14 Self-Tapping Screws
A110227	95-5=90	90	ST4.2x14 Self-Tapping Screws
A110240	20-5=15	20	M4x20 Ram Screws
A110228	25-5=20	20	M4x20 Ram Screws
A110229	30-5=25	25	M4x20 Ram Screws
A110230	35-5=30	30	M4x20 Ram Screws
A110231	45-5=40	40	M4x20 Ram Screws
A110232	55-5=50	50	M4x20 Ram Screws
A110233	65-5=60	60	M4x20 Ram Screws
A110234	75-5=70	70	M4x20 Ram Screws
A110235	85-5=80	80	M4x20 Ram Screws
A110236	95-5=90	90	M4x20 Ram Screws
A110249	50-5=45	45	M4x20 Ram Screws
A110258	/	25	/
A110259	/	30	/
A110260	/	50	/
A110261	/	60	/

HANDLE SELECTIONS

VENICE SERIES



Screw Pack			
P/N	A	B	C
A110239	20-5=15	20	ST4.2x14 Self-Tapping Screws
A110219	25-5=20	20	ST4.2x14 Self-Tapping Screws
A110220	30-5=25	25	ST4.2x14 Self-Tapping Screws
A110221	35-5=30	30	ST4.2x14 Self-Tapping Screws
A110222	45-5=40	40	ST4.2x14 Self-Tapping Screws
A110223	55-5=50	50	ST4.2x14 Self-Tapping Screws
A110224	65-5=60	60	ST4.2x14 Self-Tapping Screws
A110225	75-5=70	70	ST4.2x14 Self-Tapping Screws
A110226	85-5=80	80	ST4.2x14 Self-Tapping Screws
A110227	95-5=90	90	ST4.2x14 Self-Tapping Screws
A110240	20-5=15	20	M4x20 Ram Screws
A110228	25-5=20	20	M4x20 Ram Screws
A110229	30-5=25	25	M4x20 Ram Screws
A110230	35-5=30	30	M4x20 Ram Screws
A110231	45-5=40	40	M4x20 Ram Screws
A110232	55-5=50	50	M4x20 Ram Screws
A110233	65-5=60	60	M4x20 Ram Screws
A110234	75-5=70	70	M4x20 Ram Screws
A110235	85-5=80	80	M4x20 Ram Screws
A110236	95-5=90	90	M4x20 Ram Screws
A110249	50-5=45	45	M4x20 Ram Screws
A110258	/	25	/
A110259	/	30	/
A110260	/	50	/
A110261	/	60	/

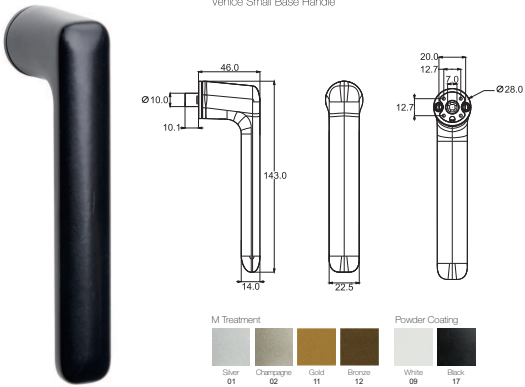


Screw Pack			
P/N	A	B	C
A110239	20-5=15	20	ST4.2x14 Self-Tapping Screws
A110219	25-5=20	20	ST4.2x14 Self-Tapping Screws
A110220	30-5=25	25	ST4.2x14 Self-Tapping Screws
A110221	35-5=30	30	ST4.2x14 Self-Tapping Screws
A110222	45-5=40	40	ST4.2x14 Self-Tapping Screws
A110223	55-5=50	50	ST4.2x14 Self-Tapping Screws
A110224	65-5=60	60	ST4.2x14 Self-Tapping Screws
A110225	75-5=70	70	ST4.2x14 Self-Tapping Screws
A110226	85-5=80	80	ST4.2x14 Self-Tapping Screws
A110227	95-5=90	90	ST4.2x14 Self-Tapping Screws
A110240	20-5=15	20	M4x20 Ram Screws
A110228	25-5=20	20	M4x20 Ram Screws
A110229	30-5=25	25	M4x20 Ram Screws
A110230	35-5=30	30	M4x20 Ram Screws
A110231	45-5=40	40	M4x20 Ram Screws
A110232	55-5=50	50	M4x20 Ram Screws
A110233	65-5=60	60	M4x20 Ram Screws
A110234	75-5=70	70	M4x20 Ram Screws
A110235	85-5=80	80	M4x20 Ram Screws
A110236	95-5=90	90	M4x20 Ram Screws
A110249	50-5=45	45	M4x20 Ram Screws
A110258	/	25	/
A110259	/	30	/
A110260	/	50	/
A110261	/	60	/

HANDLE SELECTIONS

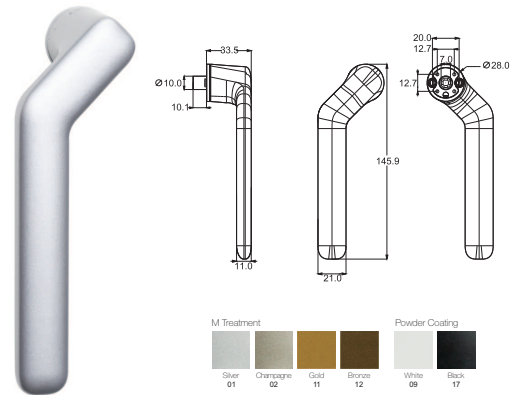
VENICE SERIES

A010704-
Venice Small Base Handle



Screw Pack		
P/N	A	B
A110305	M4 × 20 5.3 Cross Recessed Pan Head Screws	20mm
A110306	M4 × 25 5.3 Cross Recessed Pan Head Screws	20mm
A110307	M4 × 30 5.3 Cross Recessed Pan Head Screws	25mm
A110308	M4 × 35 5.3 Cross Recessed Pan Head Screws	30mm
A110309	M4 × 45 5.3 Cross Recessed Pan Head Screws	40mm
A110310	M4 × 50 5.3 Cross Recessed Pan Head Screws	45mm
A110311	M4 × 55 5.3 Cross Recessed Pan Head Screws	50mm
A110312	M4 × 65 5.3 Cross Recessed Pan Head Screws	60mm
A110313	M4 × 75 5.3 Cross Recessed Pan Head Screws	70mm
A110314	M4 × 85 5.3 Cross Recessed Pan Head Screws	80mm
A110315	M4 × 95 5.3 Cross Recessed Pan Head Screws	90mm

A010705-
Venice Small Base Left Turn Handle

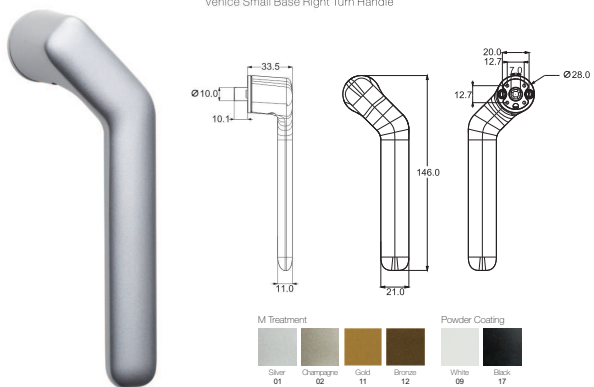


Screw Pack		
P/N	A	B
A110305	M4 × 20 5.3 Cross Recessed Pan Head Screws	20mm
A110306	M4 × 25 5.3 Cross Recessed Pan Head Screws	20mm
A110307	M4 × 30 5.3 Cross Recessed Pan Head Screws	25mm
A110308	M4 × 35 5.3 Cross Recessed Pan Head Screws	30mm
A110309	M4 × 45 5.3 Cross Recessed Pan Head Screws	40mm
A110310	M4 × 50 5.3 Cross Recessed Pan Head Screws	45mm
A110311	M4 × 55 5.3 Cross Recessed Pan Head Screws	50mm
A110312	M4 × 65 5.3 Cross Recessed Pan Head Screws	60mm
A110313	M4 × 75 5.3 Cross Recessed Pan Head Screws	70mm
A110314	M4 × 85 5.3 Cross Recessed Pan Head Screws	80mm
A110315	M4 × 95 5.3 Cross Recessed Pan Head Screws	90mm

HANDLE SELECTIONS

VENICE SERIES

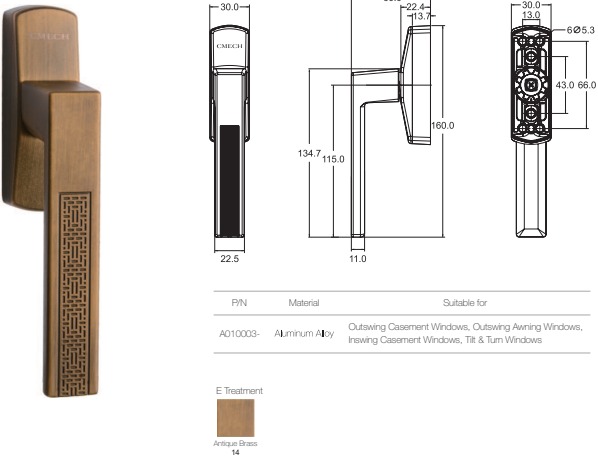
A010706-
Venice Small Base Right Turn Handle



Screw Pack		
P/N	A	B
A110305	M4 × 20 5.3 Cross Recessed Pan Head Screws	20mm
A110306	M4 × 25 5.3 Cross Recessed Pan Head Screws	20mm
A110307	M4 × 30 5.3 Cross Recessed Pan Head Screws	25mm
A110308	M4 × 35 5.3 Cross Recessed Pan Head Screws	30mm
A110309	M4 × 45 5.3 Cross Recessed Pan Head Screws	40mm
A110310	M4 × 50 5.3 Cross Recessed Pan Head Screws	45mm
A110311	M4 × 55 5.3 Cross Recessed Pan Head Screws	50mm
A110312	M4 × 65 5.3 Cross Recessed Pan Head Screws	60mm
A110313	M4 × 75 5.3 Cross Recessed Pan Head Screws	70mm
A110314	M4 × 85 5.3 Cross Recessed Pan Head Screws	80mm
A110315	M4 × 95 5.3 Cross Recessed Pan Head Screws	90mm

CHINESE TRADITIONAL HUAYUN SERIES

Spindle and Fork Drive Handle

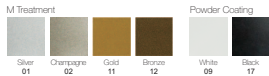
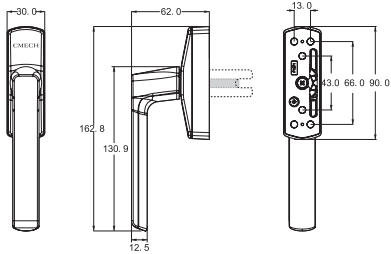


HANDLE SELECTIONS

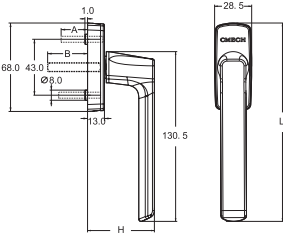
MILAN SERIES



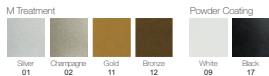
A010601-
Spindle and Fork Drive Handle (Offset Gasket)
(Outswing Casement Windows, Inswing Casement Windows)



S Series Milan Handle



P/N 货号	Material 材质	H 规格	L 规格	Suitable for 适用于
A010623-	铝合金	51.4	152.5	外平开窗、内平开窗
A010630-	铝合金	39.9	165.3	



Screw Pack

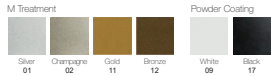
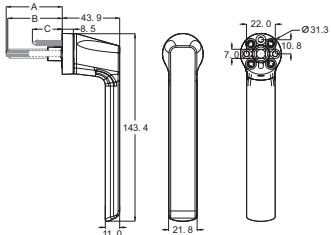
P/N	A	B
A110179	35-10=25	36-9.3=26.7
A110180	40-10=30	42-9.3=32.7
A110181	45-10=35	47-9.3=37.7
A110182	50-10=40	52-9.3=42.7
A110183	60-10=50	62-9.3=52.7
A110184	70-10=60	72-9.3=62.7
A110185	80-10=70	82-9.3=72.7
A110186	95-10=85	97-9.3=87.7
A110187	110-10=100	112-9.3=102.7
A110188	125-10=115	127-9.3=117.7

HANDLE SELECTIONS

MILAN SERIES



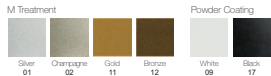
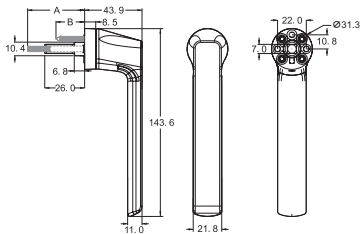
A010611-
L Series Milan Round-Base Handle without Spindle



Screw Pack

P/N	A	B	C
A110239	20-5=15	20	ST4.2x14 Self-Tapping Screws
A110219	25-5=20	20	ST4.2x14 Self-Tapping Screws
A110220	30-5=25	25	ST4.2x14 Self-Tapping Screws
A110221	35-5=30	30	ST4.2x14 Self-Tapping Screws
A110222	45-5=40	40	ST4.2x14 Self-Tapping Screws
A110223	55-5=50	50	ST4.2x14 Self-Tapping Screws
A110224	65-5=60	60	ST4.2x14 Self-Tapping Screws
A110225	75-5=70	70	ST4.2x14 Self-Tapping Screws
A110226	85-5=80	80	ST4.2x14 Self-Tapping Screws
A110227	95-5=90	90	ST4.2x14 Self-Tapping Screws
A110240	20-5=15	20	M4x20 Ram Screws
A110228	25-5=20	20	M4x20 Ram Screws
A110229	30-5=25	25	M4x20 Ram Screws
A110230	35-5=30	30	M4x20 Ram Screws
A110231	45-5=40	40	M4x20 Ram Screws
A110232	55-5=50	50	M4x20 Ram Screws
A110233	65-5=60	60	M4x20 Ram Screws
A110234	75-5=70	70	M4x20 Ram Screws
A110235	85-5=80	80	M4x20 Ram Screws
A110236	95-5=90	90	M4x20 Ram Screws
A110249	50-5=45	45	M4x20 Ram Screws
A110258	/	25	/
A110259	/	30	/
A110260	/	50	/
A110261	/	60	/

A010614-
L Series Milan Round-Base Handle with 26 mm-Spindle

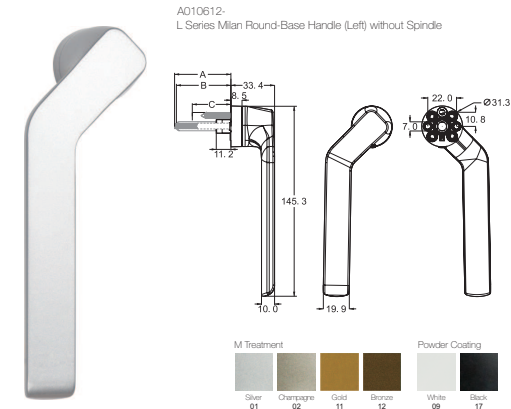


Screw Pack

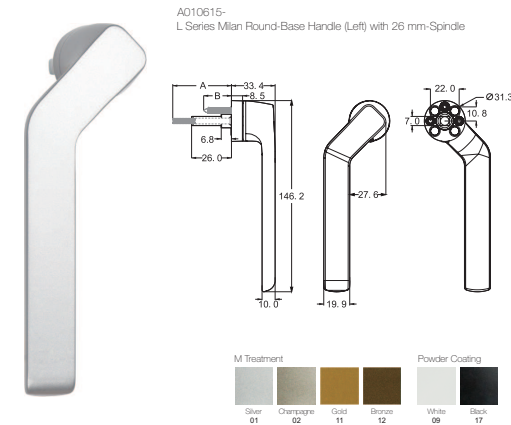
P/N	A	B
A110237	30-5=25	M4x30 Ram Screws
A110238	30-5=25	ST4.2x14 Self-Tapping Screws
A110252	25-5=20	M4x25 Ram Screws
A110253	22-5=17	M4x22.5 Ram Screws
A110254	20-5=15	M4x20 Ram Screws
A110255	25-5=20	ST4.2x14 Self-Tapping Screws
A110256	22-5=17	ST4.2x14 Self-Tapping Screws
A110257	20-5=15	ST4.2x14 Self-Tapping Screws

HANDLE SELECTIONS

MILAN SERIES



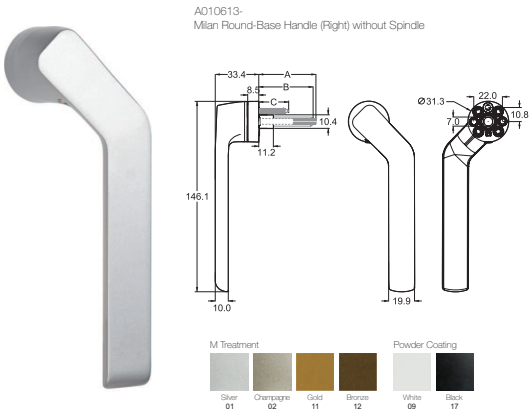
Screw Pack			
P/N	A	B	C
A110239	20-5=15	20	ST4.2x14 Self-Tapping Screws
A110219	25-5=20	20	ST4.2x14 Self-Tapping Screws
A110220	30-5=25	25	ST4.2x14 Self-Tapping Screws
A110221	35-5=30	30	ST4.2x14 Self-Tapping Screws
A110222	45-5=40	40	ST4.2x14 Self-Tapping Screws
A110223	55-5=50	50	ST4.2x14 Self-Tapping Screws
A110224	65-5=60	60	ST4.2x14 Self-Tapping Screws
A110225	75-5=70	70	ST4.2x14 Self-Tapping Screws
A110226	85-5=80	80	ST4.2x14 Self-Tapping Screws
A110227	95-5=90	90	ST4.2x14 Self-Tapping Screws
A110240	20-5=15	20	M4x20 Ram Screws
A110228	25-5=20	20	M4x20 Ram Screws
A110229	30-5=25	25	M4x20 Ram Screws
A110230	35-5=30	30	M4x20 Ram Screws
A110231	45-5=40	40	M4x20 Ram Screws
A110232	55-5=50	50	M4x20 Ram Screws
A110233	65-5=60	60	M4x20 Ram Screws
A110234	75-5=70	70	M4x20 Ram Screws
A110235	85-5=80	80	M4x20 Ram Screws
A110236	95-5=90	90	M4x20 Ram Screws
A110249	50-5=45	45	M4x20 Ram Screws
A110258	/	25	/
A110259	/	30	/
A110260	/	50	/
A110261	/	60	/



Screw Pack		
P/N	A	B
A110237	30-5=25	M4x30 Ram Screws
A110238	30-5=25	ST4.2x14 Self-Tapping Screws
A110262	25-5=20	M4x25 Ram Screws
A110253	22-5=17	M4x22.5 Ram Screws
A110254	20-5=15	M4x20 Ram Screws
A110255	25-5=20	ST4.2x14 Self-Tapping Screws
A110256	22-5=17	ST4.2x14 Self-Tapping Screws
A110257	20-5=15	ST4.2x14 Self-Tapping Screws

HANDLE SELECTIONS

MILAN SERIES



Screw Pack			
P/N	A	B	C
A110239	20-5=15	20	ST4.2x14 Self-Tapping Screws
A110219	25-5=20	20	ST4.2x14 Self-Tapping Screws
A110220	30-5=25	25	ST4.2x14 Self-Tapping Screws
A110221	35-5=30	30	ST4.2x14 Self-Tapping Screws
A110222	45-5=40	40	ST4.2x14 Self-Tapping Screws
A110223	55-5=50	50	ST4.2x14 Self-Tapping Screws
A110224	65-5=60	60	ST4.2x14 Self-Tapping Screws
A110225	75-5=70	70	ST4.2x14 Self-Tapping Screws
A110226	85-5=80	80	ST4.2x14 Self-Tapping Screws
A110227	95-5=90	90	ST4.2x14 Self-Tapping Screws
A110240	20-5=15	20	M4x20 Ram Screws
A110228	25-5=20	20	M4x20 Ram Screws
A110229	30-5=25	25	M4x20 Ram Screws
A110230	35-5=30	30	M4x20 Ram Screws
A110231	45-5=40	40	M4x20 Ram Screws
A110232	55-5=50	50	M4x20 Ram Screws
A110233	65-5=60	60	M4x20 Ram Screws
A110234	75-5=70	70	M4x20 Ram Screws
A110235	85-5=80	80	M4x20 Ram Screws
A110236	95-5=90	90	M4x20 Ram Screws
A110249	50-5=45	45	M4x20 Ram Screws
A110258	/	25	/
A110259	/	30	/
A110260	/	50	/
A110261	/	60	/
A110253	22-5=17	17	/
A110254	20-5=15	15	/
A110255	25-5=20	20	/
A110256	22-5=17	17	/
A110257	20-5=15	15	/



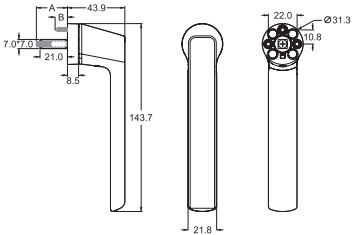
Screw Pack		
P/N	A	B
A110237	30-5=25	M4x30 Ram Screws
A110238	30-5=25	ST4.2x14 Self-Tapping Screws
A110262	25-5=20	M4x25 Ram Screws
A110253	22-5=17	M4x22.5 Ram Screws
A110254	20-5=15	M4x20 Ram Screws
A110255	25-5=20	ST4.2x14 Self-Tapping Screws
A110256	22-5=17	ST4.2x14 Self-Tapping Screws
A110257	20-5=15	ST4.2x14 Self-Tapping Screws

HANDLE SELECTIONS

MILAN SERIES



A010624-
L series Milan Round-Base Handle with 21 mm-Spindle



M Treatment

Silver 01	Champagne 02	Gold 11	Bronze 12
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Powder Coating

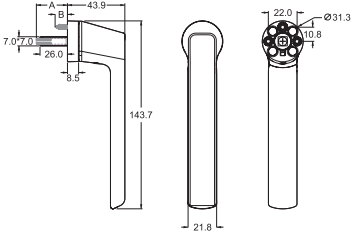
White 09	Black 17
----------	----------

Screw Pack

P/N	A	B
A110237	30-5=25	M4x30 Ram Screws
A110238	30-5=25	ST4.2x14 Self-Tapping Screws
A110252	25-5=20	M4x25 Ram Screws
A110253	22-5=17	M4x22.5 Ram Screws
A110254	20-5=15	M4x20 Ram Screws
A110255	25-5=20	ST4.2x14 Self-Tapping Screws
A110256	22-5=17	ST4.2x14 Self-Tapping Screws
A110257	20-5=15	ST4.2x14 Self-Tapping Screws



A010633-
L series Milan Round-Base Handle with 26 mm-Spindle



M Treatment

Silver 01	Champagne 02	Gold 11	Bronze 12
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Powder Coating

White 09	Black 17
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Screw Pack

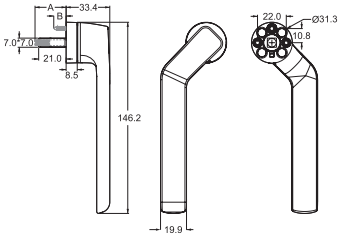
P/N	A	B
A110237	30-5=25	M4x30 Ram Screws
A110238	30-5=25	ST4.2x14 Self-Tapping Screws
A110252	25-5=20	M4x25 Ram Screws
A110253	22-5=17	M4x22.5 Ram Screws
A110254	20-5=15	M4x20 Ram Screws
A110255	25-5=20	ST4.2x14 Self-Tapping Screws
A110256	22-5=17	ST4.2x14 Self-Tapping Screws
A110257	20-5=15	ST4.2x14 Self-Tapping Screws

HANDLE SELECTIONS

MILAN SERIES



A010625-
L Series Milan Round-Base Handle (Left) with 21 mm-Spindle



M Treatment

Silver 01	Champagne 02	Gold 11	Bronze 12
-----------	--------------	---------	-----------

Powder Coating

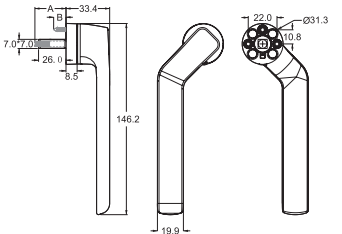
White 09	Black 17
----------	----------

Screw Pack

P/N	A	B
A110237	30-5=25	M4x30 Ram Screws
A110238	30-5=25	ST4.2x14 Self-Tapping Screws
A110252	25-5=20	M4x25 Ram Screws
A110253	22-5=17	M4x22.5 Ram Screws
A110254	20-5=15	M4x20 Ram Screws
A110255	25-5=20	ST4.2x14 Self-Tapping Screws
A110256	22-5=17	ST4.2x14 Self-Tapping Screws
A110257	20-5=15	ST4.2x14 Self-Tapping Screws



A010634-
L Series Milan Round-Base Handle (Left) with 26 mm-Spindle



M Treatment

Silver 01	Champagne 02	Gold 11	Bronze 12
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Powder Coating

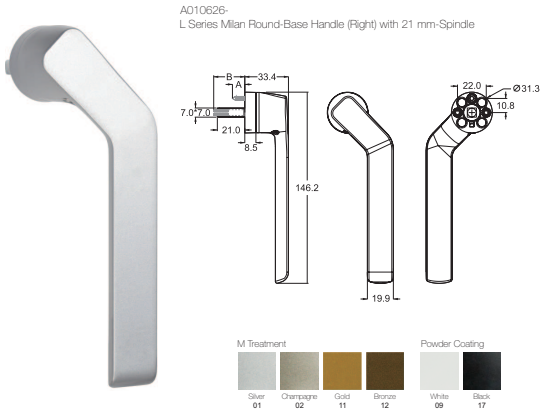
White 09	Black 17
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Screw Pack

P/N	A	B
A110237	30-5=25	M4x30 Ram Screws
A110238	30-5=25	ST4.2x14 Self-Tapping Screws
A110252	25-5=20	M4x25 Ram Screws
A110253	22-5=17	M4x22.5 Ram Screws
A110254	20-5=15	M4x20 Ram Screws
A110255	25-5=20	ST4.2x14 Self-Tapping Screws
A110256	22-5=17	ST4.2x14 Self-Tapping Screws
A110257	20-5=15	ST4.2x14 Self-Tapping Screws

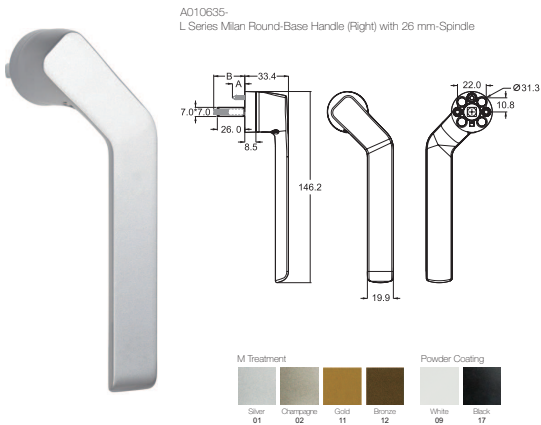
HANDLE SELECTIONS

MILAN SERIES



Screw Pack

P/N	A	B
A110237	30-5=25	M4x30 Ram Screws
A110238	30-5=25	ST4.2x14 Self-Tapping Screws
A110252	25-5=20	M4x25 Ram Screws
A110253	22-5=17	M4x22.5 Ram Screws
A110254	20-5=15	M4x20 Ram Screws
A110255	25-5=20	ST4.2x14 Self-Tapping Screws
A110256	22-5=17	ST4.2x14 Self-Tapping Screws
A110257	20-5=15	ST4.2x14 Self-Tapping Screws



Screw Pack

P/N	A	B
A110237	30-5=25	M4x30 Ram Screws
A110238	30-5=25	ST4.2x14 Self-Tapping Screws
A110252	25-5=20	M4x25 Ram Screws
A110253	22-5=17	M4x22.5 Ram Screws
A110254	20-5=15	M4x20 Ram Screws
A110255	25-5=20	ST4.2x14 Self-Tapping Screws
A110256	22-5=17	ST4.2x14 Self-Tapping Screws
A110257	20-5=15	ST4.2x14 Self-Tapping Screws

HANDLE SELECTIONS

MILAN SERIES



Screw Pack

P/N	A	B
A110266	M4x20 5.3 Cross Recessed Pan Head Screws	19.4mm
A110267	M4x25 5.3 Cross Recessed Pan Head Screws	19.4mm
A110268	M4x30 5.3 Cross Recessed Pan Head Screws	24.4mm
A110269	M4x35 5.3 Cross Recessed Pan Head Screws	29.4mm
A110270	M4x45 5.3 Cross Recessed Pan Head Screws	39.4mm
A110271	M4x50 5.3 Cross Recessed Pan Head Screws	44.4mm
A110272	M4x55 5.3 Cross Recessed Pan Head Screws	49.4mm
A110273	M4x65 5.3 Cross Recessed Pan Head Screws	59.4mm
A110274	M4x75 5.3 Cross Recessed Pan Head Screws	69.4mm
A110275	M4x85 5.3 Cross Recessed Pan Head Screws	79.4mm
A110276	M4x95 5.3 Cross Recessed Pan Head Screws	89.4mm



Screw Pack

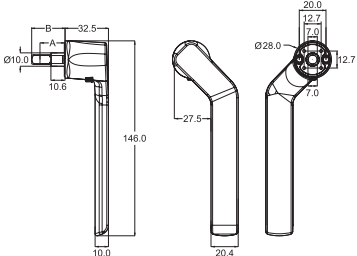
P/N	A	B
A110266	M4x20 5.3 Cross Recessed Pan Head Screws	19.4mm
A110267	M4x25 5.3 Cross Recessed Pan Head Screws	19.4mm
A110268	M4x30 5.3 Cross Recessed Pan Head Screws	24.4mm
A110269	M4x35 5.3 Cross Recessed Pan Head Screws	29.4mm
A110270	M4x45 5.3 Cross Recessed Pan Head Screws	39.4mm
A110271	M4x50 5.3 Cross Recessed Pan Head Screws	44.4mm
A110272	M4x55 5.3 Cross Recessed Pan Head Screws	49.4mm
A110273	M4x65 5.3 Cross Recessed Pan Head Screws	59.4mm
A110274	M4x75 5.3 Cross Recessed Pan Head Screws	69.4mm
A110275	M4x85 5.3 Cross Recessed Pan Head Screws	79.4mm
A110276	M4x95 5.3 Cross Recessed Pan Head Screws	89.4mm

HANDLE SELECTIONS

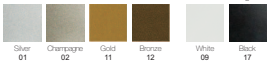
MILAN SERIES



A010619-
P Series Milan Baseless Handle (Right) with 25 mm-Spindle



M Treatment



Powder Coating

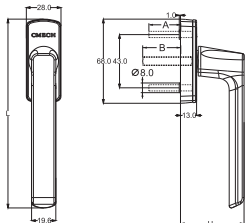


Screw Pack

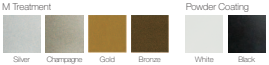
P/N	A	B
A110266	M4x20 5.3 Cross Recessed Pan Head Screws	19.4mm
A110267	M4x25 5.3 Cross Recessed Pan Head Screws	19.4mm
A110268	M4x30 5.3 Cross Recessed Pan Head Screws	24.4mm
A110269	M4x35 5.3 Cross Recessed Pan Head Screws	29.4mm
A110270	M4x45 5.3 Cross Recessed Pan Head Screws	39.4mm
A110271	M4x50 5.3 Cross Recessed Pan Head Screws	44.4mm
A110272	M4x55 5.3 Cross Recessed Pan Head Screws	49.4mm
A110273	M4x65 5.3 Cross Recessed Pan Head Screws	59.4mm
A110274	M4x75 5.3 Cross Recessed Pan Head Screws	69.4mm
A110275	M4x85 5.3 Cross Recessed Pan Head Screws	79.4mm
A110276	M4x95 5.3 Cross Recessed Pan Head Screws	89.4mm



P Series Milan Baseless Handle



M Treatment



Powder Coating



P/N	Material	H	L	Subtle for
A010636-	Aluminum Alloy	51.4	152.5	Outswing Casement Windows,
A010642-	Aluminum Alloy	39.9	165.3	Inswing Casement Windows

螺丝包选用表

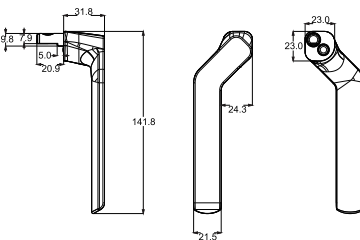
P/N 货号	A 螺丝规格	B 方轴规格
A110179	35-10=25	36-9.3=26.7
A110180	40-10=30	42-9.3=32.7
A110181	45-10=35	47-9.3=37.7
A110182	50-10=40	52-9.3=42.7
A110183	60-10=50	62-9.3=52.7
A110184	70-10=60	72-9.3=62.7
A110185	80-10=70	82-9.3=72.7
A110186	95-10=85	97-9.3=87.7
A110187	110-10=100	112-9.3=102.7
A110188	125-10=115	127-9.3=117.7

HANDLE SELECTIONS

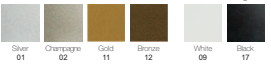
MILAN SERIES



A010637-
Milan Series Slim Left Turn Handle



M Treatment

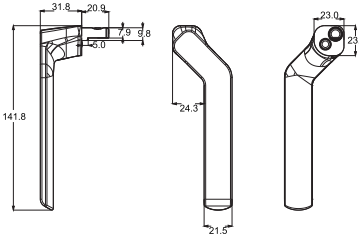


Powder Coating

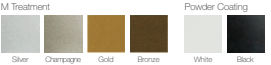




A010638-
Milan Series Slim Left Turn Handle



M Treatment



Powder Coating

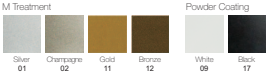
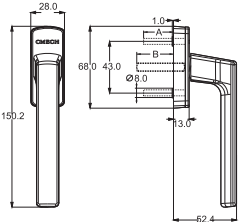


HANDLE SELECTIONS

P SERIES



A010223-
Koln Series
(Outswing Casement Windows, Inswing Casement Windows)

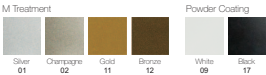
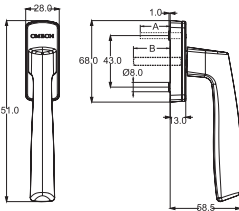


Screw Pack

P/N	A	B
A110179	35-10=25	36-9.3=26.7
A110180	40-10=30	42-9.3=32.7
A110181	45-10=35	47-9.3=37.7
A110182	50-10=40	52-9.3=42.7
A110183	60-10=50	62-9.3=52.7
A110184	70-10=60	72-9.3=62.7
A110185	80-10=70	82-9.3=72.7
A110186	95-10=85	97-9.3=87.7
A110187	110-10=100	112-9.3=102.7
A110188	125-10=115	127-9.3=117.7



A010471-
Berlin Handle
(Outswing Casement Windows, Inswing Casement Windows)



Screw Pack

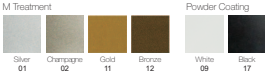
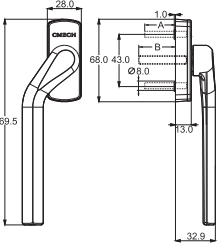
P/N	A	B
A110179	35-10=25	36-9.3=26.7
A110180	40-10=30	42-9.3=32.7
A110181	45-10=35	47-9.3=37.7
A110182	50-10=40	52-9.3=42.7
A110183	60-10=50	62-9.3=52.7
A110184	70-10=60	72-9.3=62.7
A110185	80-10=70	82-9.3=72.7
A110186	95-10=85	97-9.3=87.7
A110187	110-10=100	112-9.3=102.7
A110188	125-10=115	127-9.3=117.7

HANDLE SELECTIONS

P SERIES



A010472-
Turn Handle (Left)
(Outswing Casement Windows,
Inswing Casement Windows)

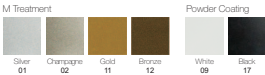
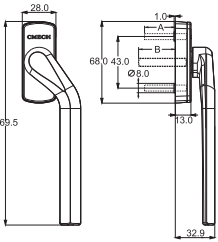


Screw Pack

P/N	A	B
A110179	35-10=25	36-9.3=26.7
A110180	40-10=30	42-9.3=32.7
A110181	45-10=35	47-9.3=37.7
A110182	50-10=40	52-9.3=42.7
A110183	60-10=50	62-9.3=52.7
A110184	70-10=60	72-9.3=62.7
A110185	80-10=70	82-9.3=72.7
A110186	95-10=85	97-9.3=87.7
A110187	110-10=100	112-9.3=102.7
A110188	125-10=115	127-9.3=117.7



A010473-
Turn Handle (Right)
(Outswing Casement Windows,
Inswing Casement Windows)

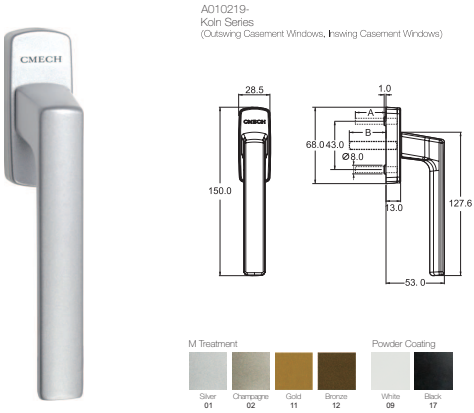


Screw Pack

P/N	A	B
A110179	35-10=25	36-9.3=26.7
A110180	40-10=30	42-9.3=32.7
A110181	45-10=35	47-9.3=37.7
A110182	50-10=40	52-9.3=42.7
A110183	60-10=50	62-9.3=52.7
A110184	70-10=60	72-9.3=62.7
A110185	80-10=70	82-9.3=72.7
A110186	95-10=85	97-9.3=87.7
A110187	110-10=100	112-9.3=102.7
A110188	125-10=115	127-9.3=117.7

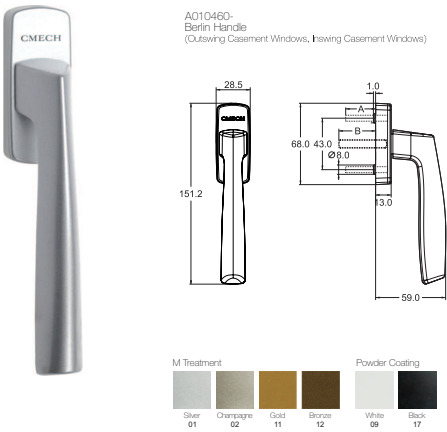
HANDLE SELECTIONS

S SERIES



Screw Pack

P/N	A	B
A110179	35-10=25	36-9.3=26.7
A110180	40-10=30	42-9.3=32.7
A110181	45-10=35	47-9.3=37.7
A110182	50-10=40	52-9.3=42.7
A110183	60-10=50	62-9.3=52.7
A110184	70-10=60	72-9.3=62.7
A110185	80-10=70	82-9.3=72.7
A110186	95-10=85	97-9.3=87.7
A110187	110-10=100	112-9.3=102.7
A110188	125-10=115	127-9.3=117.7

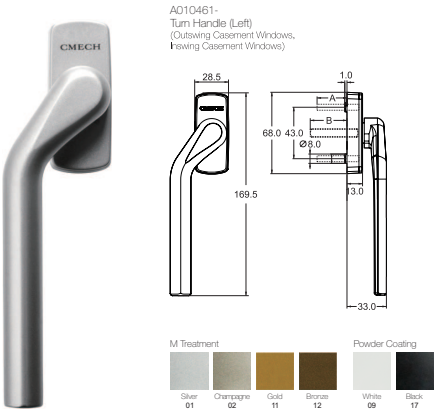


Screw Pack

P/N	A	B
A110179	35-10=25	36-9.3=26.7
A110180	40-10=30	42-9.3=32.7
A110181	45-10=35	47-9.3=37.7
A110182	50-10=40	52-9.3=42.7
A110183	60-10=50	62-9.3=52.7
A110184	70-10=60	72-9.3=62.7
A110185	80-10=70	82-9.3=72.7
A110186	95-10=85	97-9.3=87.7
A110187	110-10=100	112-9.3=102.7
A110188	125-10=115	127-9.3=117.7

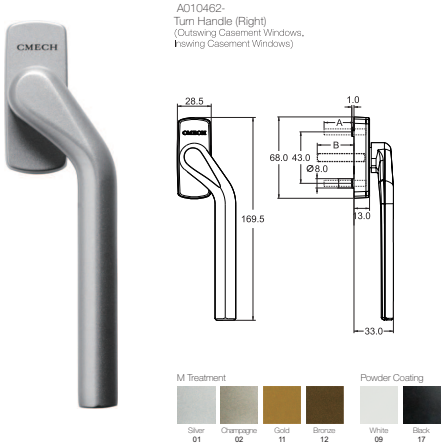
HANDLE SELECTIONS

S SERIES



Screw Pack

P/N	A	B
A110179	35-10=25	36-9.3=26.7
A110180	40-10=30	42-9.3=32.7
A110181	45-10=35	47-9.3=37.7
A110182	50-10=40	52-9.3=42.7
A110183	60-10=50	62-9.3=52.7
A110184	70-10=60	72-9.3=62.7
A110185	80-10=70	82-9.3=72.7
A110186	95-10=85	97-9.3=87.7
A110187	110-10=100	112-9.3=102.7
A110188	125-10=115	127-9.3=117.7



Screw Pack

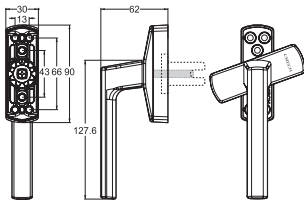
P/N	A	B
A110179	35-10=25	36-9.3=26.7
A110180	40-10=30	42-9.3=32.7
A110181	45-10=35	47-9.3=37.7
A110182	50-10=40	52-9.3=42.7
A110183	60-10=50	62-9.3=52.7
A110184	70-10=60	72-9.3=62.7
A110185	80-10=70	82-9.3=72.7
A110186	95-10=85	97-9.3=87.7
A110187	110-10=100	112-9.3=102.7
A110188	125-10=115	127-9.3=117.7

HANDLE SELECTIONS

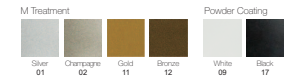
KOLN SERIES



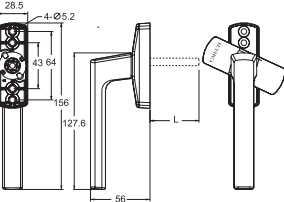
Spindle and Fork Drive Handle



P/N	Material	Suitable for	Suitable for
A010213-	Zinc Alloy	Offset Fork Drive, Spindle Drive	Outswing Casement Windows
A010210-	Aluminum Alloy		Inswing Casement Windows
A010214-	Zinc Alloy	Central Fork Drive, Spindle Drive	Outswing Awning Windows
A010211-	Aluminum Alloy		Tilt & Turn Windows, Gliding Doors



Spindle Drive Handle (Type W)

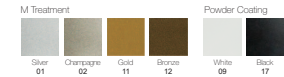
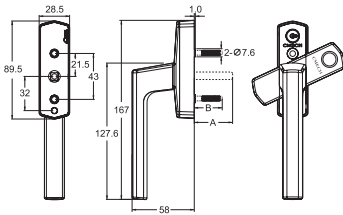


P/N	L	Material	Suitable for
J010209-	15	Zinc Alloy	
J010210-	25		
J010211-	35		
J010212-	45		Outswing Casement Windows
J010213-	50		Inswing Casement Windows
J010214-	55		Outswing Awning Windows
J010215-	60		Hopper Windows
J010216-	70		

Note: Screw Pack J110001~J110019



A010222-
Spindle Drive Handle Keyed
(Outswing Casement Windows, Inswing Casement Windows, Outswing Awning Windows, Hopper Windows, Tilt & Turn Windows)



Spindle Screw Pack Selection List

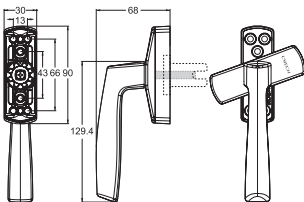
P/N	A	B
A110169	18	16.2
A110170	23	21.2
A110171	28	26.2
A110172	38	36.2
A110173	48	46.2
A110174	58	56.2
A110175	73	71.2
A110176	88	86.2
A110177	103	101.2
A110178	118	116.2

HANDLE SELECTIONS

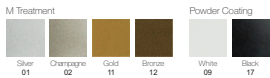
BERLIN SERIES



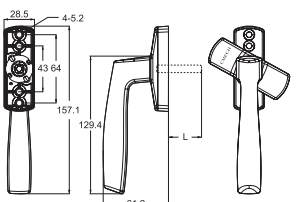
Spindle and Fork Drive Handle



P/N	Material	Suitable for	Suitable for
A010447-	Zinc Alloy	Offset Fork Drive, Spindle Drive	Outswing Casement Windows
A010406-	Aluminum Alloy		Inswing Casement Windows
A010448-	Zinc Alloy	Central Fork Drive, Spindle Drive	Outswing Awning Windows
A010407-	Aluminum Alloy		Tilt & Turn Windows, Gliding Doors



Spindle Drive Handle (Type W)

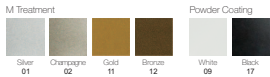
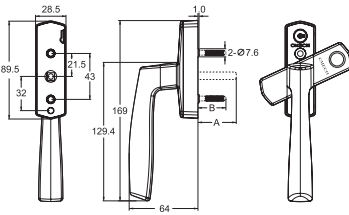


P/N	L	Material	Suitable for
J010401-	15	Zinc Alloy	
J010402-	25		
J010403-	35		
J010404-	45		Outswing Casement Windows
J010405-	50		Inswing Casement Windows
J010406-	55		Outswing Awning Windows
J010407-	60		Hopper Windows
J010408-	70		

Note: Screw Pack J110001~J110019



A010470-
Spindle Drive Handle Keyed
(Outswing Casement Windows, Inswing Casement Windows, Outswing Awning Windows, Hopper Windows, Tilt & Turn Windows)



Spindle Screw Pack Selection List

P/N	A	B
A110169	18	16.2
A110170	23	21.2
A110171	28	26.2
A110172	38	36.2
A110173	48	46.2
A110174	58	56.2
A110175	73	71.2
A110176	88	86.2
A110177	103	101.2
A110178	118	116.2

HANDLE SELECTIONS

TURN HANDLE

Turn Handle (Left)

28.5
80
176
147.5
43 64 80
33
L

P/N	L	Material	Suitable for
A010408-	20		
A010409-	30		
A010410-	40		
A010411-	50		
A010412-	55		
A010413-	60	Zinc Alloy	Outswing Casement Windows
A010414-	65		Inswing Casement Windows
A010415-	75		Outswing Awning Windows
A010416-	90		
A010417-	105		
A010418-	120		
A010432-	135		

Note: Screw Pack J110001~J110019

M Treatment

Silver 01 Champagne 02 Gold 11 Bronze 12

Powder Coating

White 09 Black 17

Turn Handle (Right)

28.5
80
176
147.5
43 64 80
33
L

P/N	L	Material	Suitable for
A010419-	20		
A010420-	30		
A010421-	40		
A010422-	50		
A010423-	55	Zinc Alloy	Outswing Casement Windows
A010424-	60		Inswing Casement Windows
A010425-	65		Outswing Awning Windows
A010426-	75		
A010427-	90		
A010428-	105		
A010429-	120		
A010433-	135		

Note: Screw Pack J110001~J110019

M Treatment

Silver 01 Champagne 02 Gold 11 Bronze 12

Powder Coating

White 09 Black 17

HANDLE SELECTIONS

FLY SCREEN HANDLE
A010004

Suitable for: Outswing Casement Windows

26.4
19.3 7.5
70.0 43.0
1.0
139.4
161.0

P/N	A	B
A110179	28.8	26.5
A110180	33.8	32.5
A110181	38.8	37.5
A110182	43.8	42.5
A110183	53.8	52.5
A110184	63.8	62.5
A110185	73.8	72.5
A110186	88.8	87.5
A110187	103.8	102.5
A110188	118.8	117.5

M Treatment

Silver 01 Champagne 02 Gold 11 Bronze 12

Powder Coating

White 09 Black 17

ANTI-MISOPERATION RECESSED HANDLE

Suitable for Casement Windows
(Applicable for Window Screens and Guard Grills; Not for Glass Panels)

116.5
17.6
13.2
14.0
A

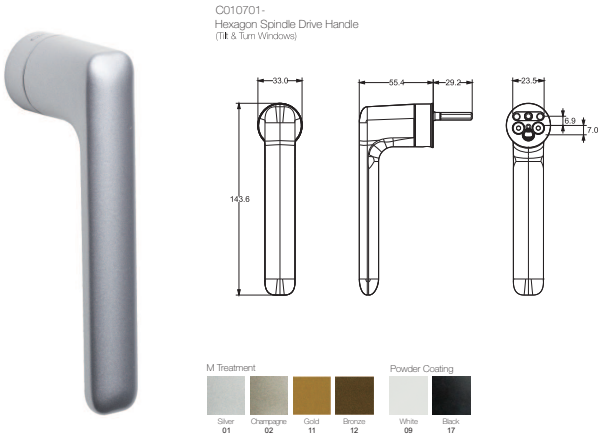
P/N	A
A010005-	21.7 mm
A010006-	15.7 mm

Powder Coating

Silver C11A Champagne C11B Gold C11C Bronze C11D White 09 Black 17

HANDLE SELECTIONS

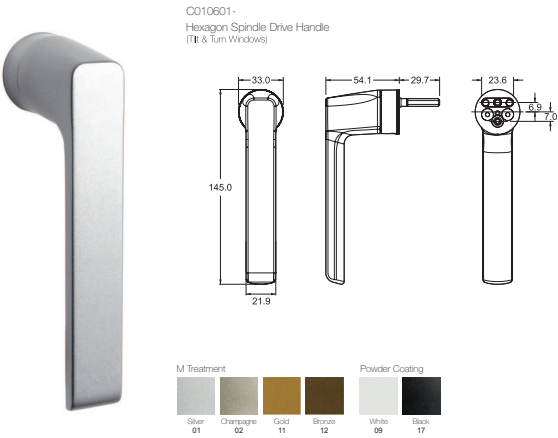
VENICE SERIES



Screw Pack

P/N	Instruction
C110013	Self-Tapping Screws
C110014	Ram Screws

MILAN SERIES

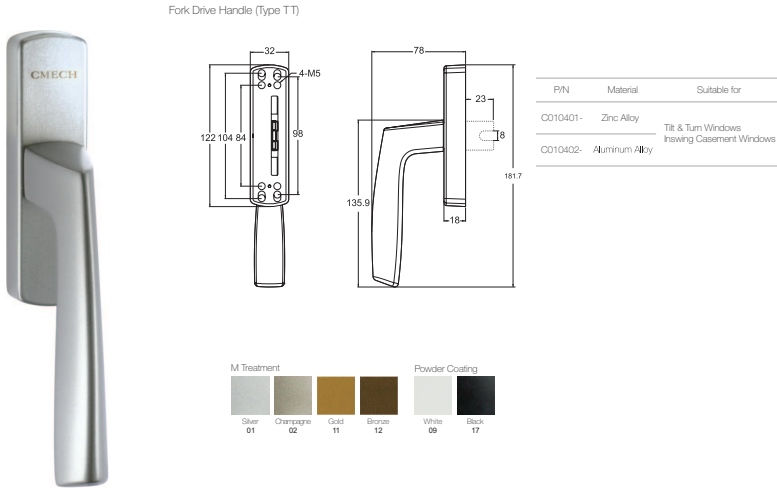


Screw Pack

P/N	Instruction
C110013	Self-Tapping Screws
C110014	Ram Screws

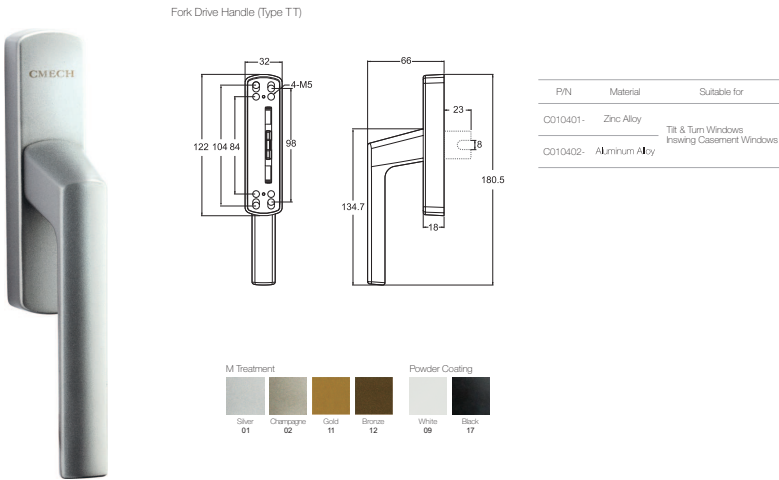
HANDLE SELECTIONS

BERLIN SERIES



P/N	Material	Suitable for
C010401-	Zinc Alloy	Tilt & Turn Windows Inswing Casement Windows
C010402-	Aluminum Alloy	

KOLN SERIES

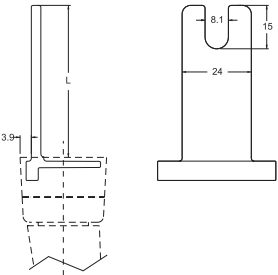


P/N	Material	Suitable for
C010401-	Zinc Alloy	Tilt & Turn Windows Inswing Casement Windows
C010402-	Aluminum Alloy	

FORK DRIVES

FORK DRIVES

Offset Fork Drive Dimensions and Selections

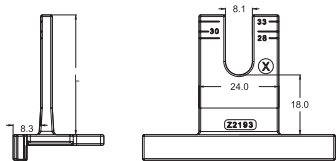


P/N	L	Specifications
A110097	21	21x3.9
A110098	27	27x3.9
A110099	31	31x3.9
A110100	33	33x3.9
A110101	41	41x3.9
A110102	45	45x3.9
A110103	37	37x3.9
A110104	49	49x3.9
A110105	53	53x3.9
A110106	63	63x3.9

Note: The Offset Fork Drive must be specified with a Type W handle with an offset gasket (included with handle screw pack).



Offset Fork Drive Dimensions and Selections
Suitable for Tilt & Turn Window

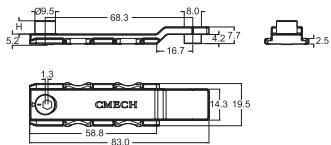


P/N	L	Specifications
C110016	28	28x8.3
C110017	30	30x8.3
C110018	33	33x8.3
C110019	35	35x8.3



LOCK POINTS

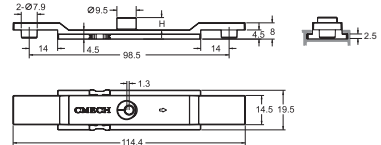
End Lock Point



P/N	H
A090007	6.2 mm
A090008	7.2 mm



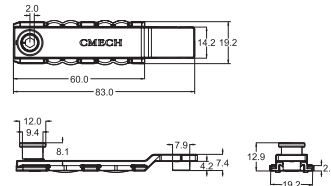
Central Lock Point



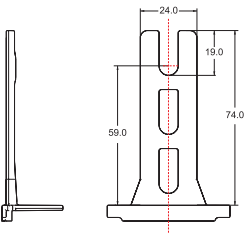
P/N	H
A090009	6.0 mm
A090010	7.0 mm



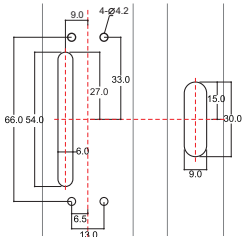
A090032
Pry-Resistant End Lock Point with Bearing



A110194
Offset Fork Drive-73mm



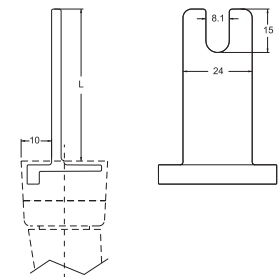
Handle Drill Hole Drawing (Interior) T-Drive Drill Hole Drawing (Side Profile)



Centerline of Handle



Central Fork Drive Dimensions and Selections



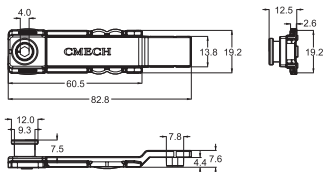
P/N	L	Specifications
A110107	21	21x10
A110108	27	27x10
A110109	31	31x10
A110110	33	33x10
A110111	41	41x10
A110112	45	45x10
A110113	37	37x10
A110114	49	49x10
A110115	53	53x10
A110116	63	63x10

Note: The Central Fork Drive must be specified with a Type W handle with a central gasket (included with handle screw pack).

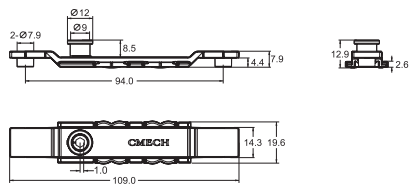


LOCK POINTS

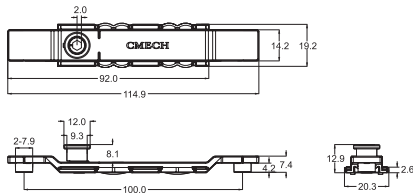
A090048
Pry-Resistant End Lock Point (L Series)



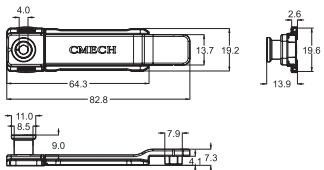
A090033
Pry-Resistant Central Lock Point with Bearing



A090034
Pry-Resistant Central Lock Point with Bearing

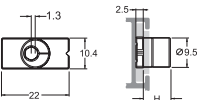


A090049
Pry-Resistant End Lock Point (S Series)



LOCK POINTS

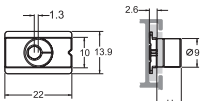
Single-Stage Active Lock Point



P/N	H
A090011	8.7 mm
A090012	9.7 mm



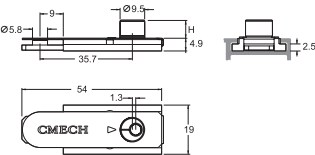
Dual-Stage Active Lock Point



P/N	H
A090002	8.75 mm
A090003	8.1 mm



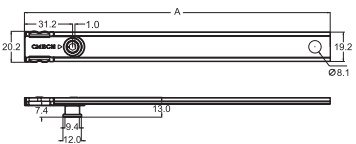
Lock Point



P/N	H
A090001	6.0 mm
A090005	7.0 mm



Pry-Resistant Connecting Rod with Bearing



P/N	A
A090022	150
A090023	200
A090024	300
A090025	400
A090026	500
A090027	600
A090028	700
A090029	800
A090030	900
A090031	1000

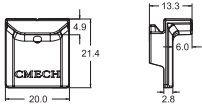


LOCK POINT SELECTION TABLE

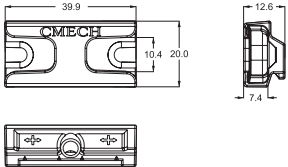
Lock Point Selections			Suitable Sash Profile and Connecting Strip Combinations								Unit: mm
P/N	Description	Product	Sash Profile	Connecting Strip	Sash Profile	Connecting Strip	Sash Profile	Connecting Strip	Sash Profile	Connecting Strip	
											
A090001	Lock Point (29.5x6.0 mm)		✓		✓		×		×		
A090005	Lock Point (29.5x7.0 mm)		✓		✓		×		×		
A090007	End Lock Point (29.5x6.0 mm)		✓		✓		✓		✓		
A090008	End Lock Point (29.5x7.0 mm)		✓		✓		✓		✓		
A090009	Central Lock Point (29.5x6.0 mm)		✓		✓		✓		✓		
A090010	Central Lock Point (29.5x7.0 mm)		✓		✓		✓		✓		
A090011	Single Stage Active Lock Point (Lock Point Height 8.7 mm)		✓		✓		×		×		
A090012	Single Stage Active Lock Point (Lock Point Height 9.7 mm)		✓		✓		×		×		
A090002	Dual Stage Active Lock Point (Lock Point Height 8.75 mm)		×		✓		×		×		
A090003	Dual Stage Active Lock Point (Lock Point Height 8.1 mm)		×		✓		×		×		
A090002	Pry-Resistant End Lock Point with Bearing		✓		✓		✓		✓		
A090004	Pry-Resistant Central Point with Bearing		✓		✓		✓		✓		
A090048	Pry-Resistant End Lock Point (L Series)		✓		✓		✓		✓		
A090049	Pry-Resistant End Lock Point (S Series)		✓		✓		✓		✓		
A090003	Pry-Resistant Central Point with Bearing		✓		✓		✓		✓		

KEEPERS

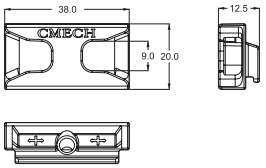
A100127
Keepers



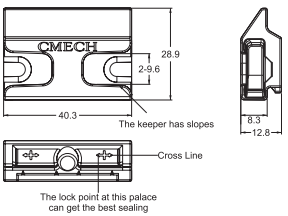
A100125
Pry-Resistant Keepers with Bearing
(L Series)



A100126
Pry-Resistant Keepers with Bearing
(S Series)

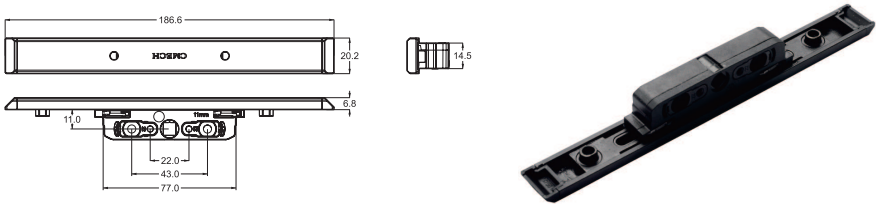


A100123
Pry-Resistant Keepers with Bearing
(K-Groove)

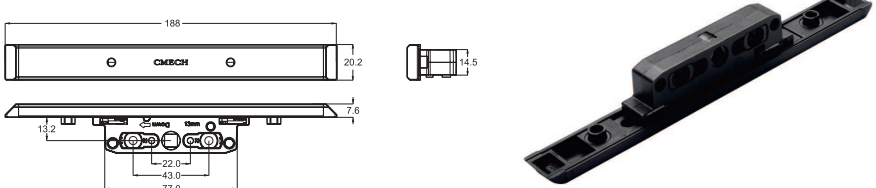


TRANSMISSION MACHANISM

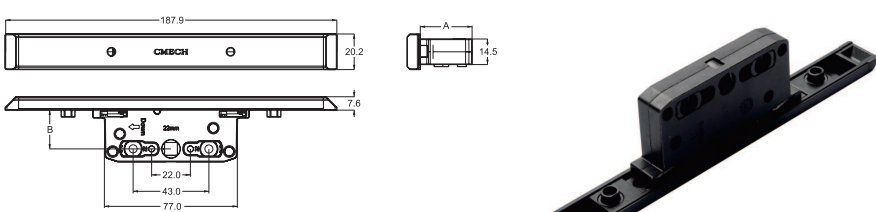
A020142
11mm Fly Screen Drive Gearbox (L Series)



A020144
13 mm Bi-Directional Spindle Drive Gearbox (L Series)



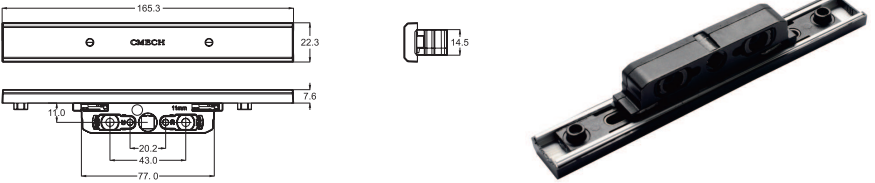
Bi-Directional Spindle Drive Gearbox (L Series)



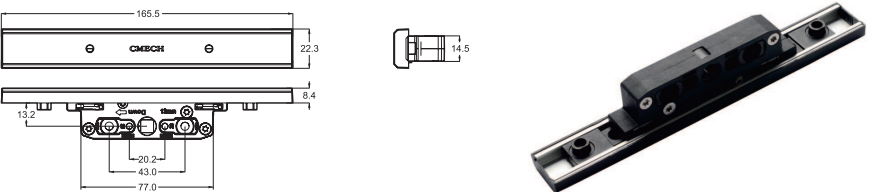
P/N	A	B
A020146	24.7 mm	22 mm
A020148	27.7 mm	25 mm
A020150	32.7 mm	30 mm
A020152	37.7 mm	35 mm

TRANSMISSION MACHANISM

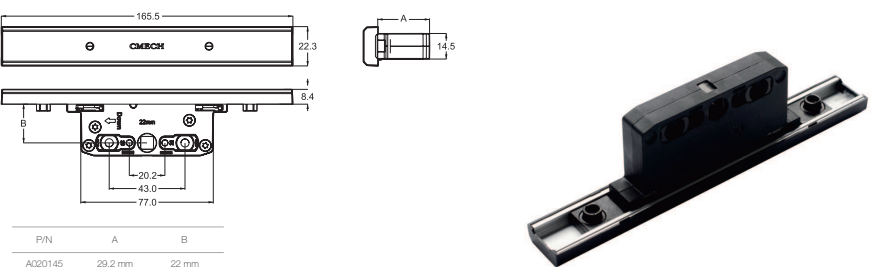
A020141
11mm Fly Screen Drive Gearbox (P Series)



A020143
13 mm Bi-Directional Spindle Drive Gearbox (P Series)

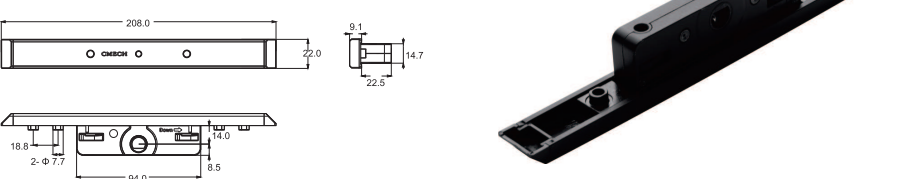


Bi-Directional Spindle Drive Gearbox (P Series)



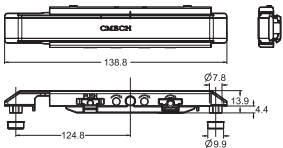
P/N	A	B
A020145	29.2 mm	22 mm
A020147	32.2 mm	25 mm
A020149	37.2 mm	30 mm
A020151	42.2 mm	35 mm

A020177
Slim Drive Gearbox

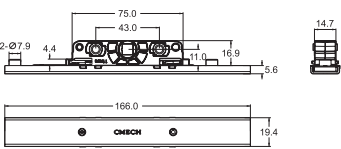


TRANSMISSION MACHANISM

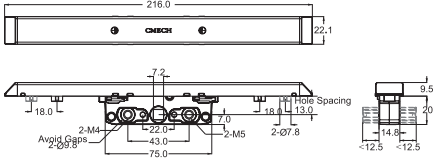
B020003
Hexagon Spindle Drive Gearbox



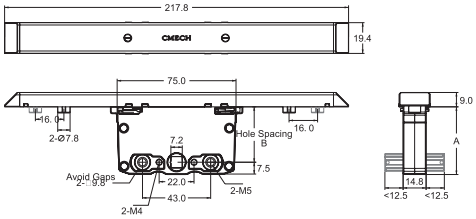
A020119
11mm Fly Screen Drive Gearbox



A020134
13 mm Bi-Directional Spindle Drive Gearbox



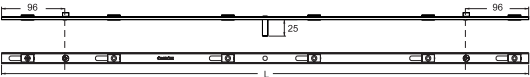
Bi-Directional Spindle Drive Gearbox



P/N	A	B
A020130	29.4 mm	22 mm
A020135	32.4 mm	25 mm
A020131	37.4 mm	30 mm
A020133	42.4 mm	35 mm

TRANSMISSION MACHANISM

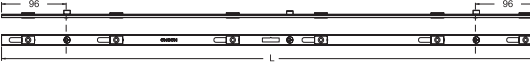
Surface Mount Drive Gear



P/N	L
A020050	410 mm
A020051	600 mm
A020052	800 mm
A020053	1000 mm
A020051	1300 mm



Surface Mount Drive Gear

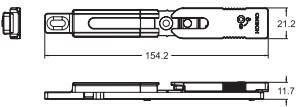


P/N	L
A020062	410 mm
A020063	600 mm
A020064	800 mm
A020065	1000 mm

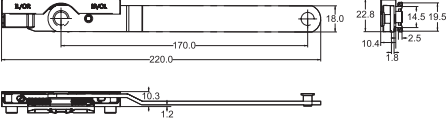


B040072
Ventilation Assist

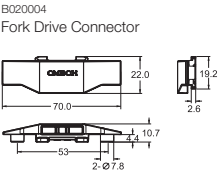
Glide Components



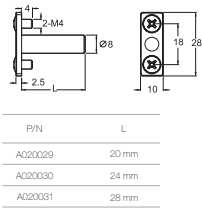
Glide Components



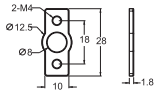
T-DRIVES AND ACCESSORIES



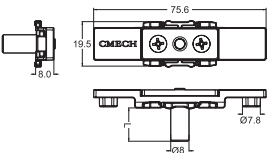
Standard T-Drive



A110120
Threaded Screw Plate



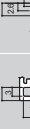
Reinforced T-Drive



P/N	L
A020115	14.5 mm
A020116	18.5 mm
A020117	22.5 mm
A020126	26.5 mm
A020127	30.5 mm
A020128	34.5 mm
A020129	11.5 mm
A020180	20.5 mm

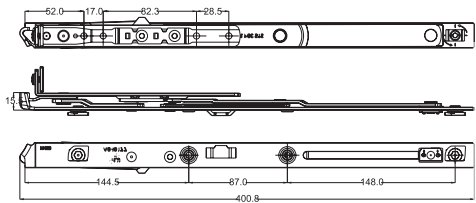
T-DRIVE SELECTION TABLE

Unit: mm

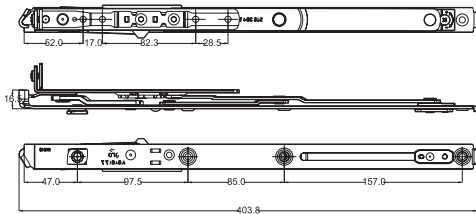
Suitable Sash Profile and Connecting Strip Combinations									
T-Drive Selections	P/N	Description	Product	Sash Profile	Connecting Strip	Sash Profile	Connecting Strip	Sash Profile	Connecting Strip
	A020029 A020031	Standard T-Drive (Connected Directly to the Aluminum Connecting Strip)							
	A020029 A020031	Standard T-Drive							
	A110120	Threaded Screw Plate							

FRICION HINGES

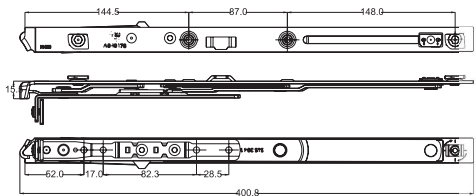
A040177
16" Free-Mill Friction Up Hinge Left
Suitable for Sash Width: 500-800 mm



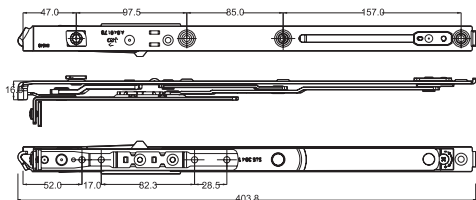
16" Free-Mill Friction Lower Hinge Left
Suitable for Sash Width: 500-800 mm



A040178
16" Free-Mill Friction Up Hinge Right
Suitable for Sash Width: 500-800 mm

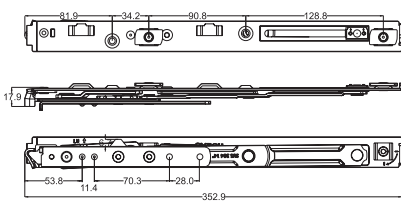


16" Free-Mill Friction Lower Hinge Right
Suitable for Sash Width: 500-800 mm

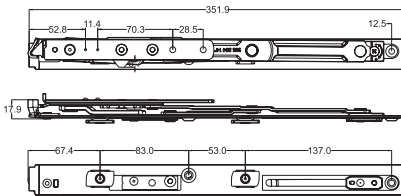


FRICION HINGES

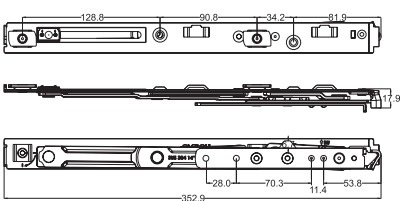
A040165
14" Upper Left Friction Hinge-K-Groove
Suitable for Sash Width: 400-750 mm



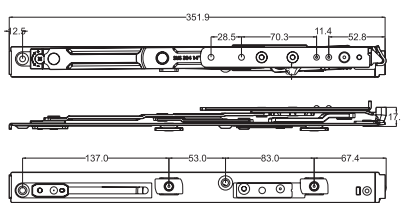
14" Bottom Left Friction Hinge-K-Groove
Suitable for Sash Width: 400-750 mm



A040166
14" Upper Right Friction Hinge-K-Groove
Suitable for Sash Width: 400-750 mm

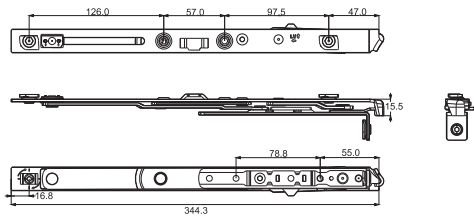


14" Bottom Right Friction Hinge-K-Groove
Suitable for Sash Width: 400-750 mm

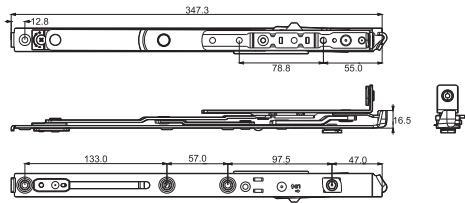


FRICION HINGES

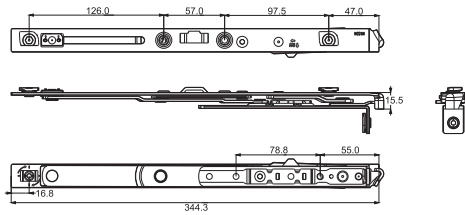
A040201
14" Free-Mill Friction Up Hinge Left (L Series) (C-Groove)
Suitable for Sash Width: 400-750 mm



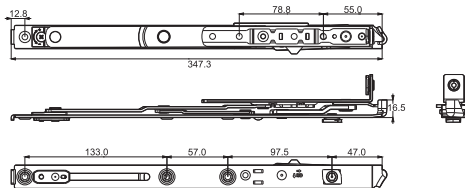
14" Free-Mill Friction Lower Hinge Left (L Series) (C-Groove)
Suitable for Sash Width: 400-750 mm



A040202
14" Free-Mill Friction Up Hinge Right (L Series) (C-Groove)
Suitable for Sash Width: 400-750 mm

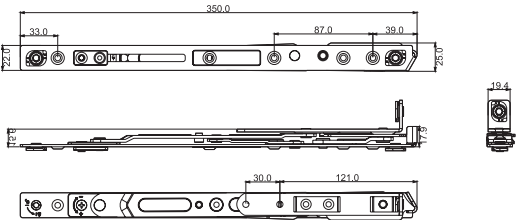
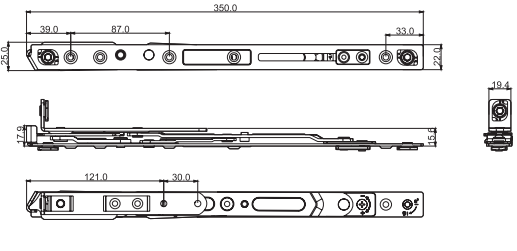


14" Free-Mill Friction Lower Hinge Right (L Series) (C-Groove)
Suitable for Sash Width: 400-750 mm

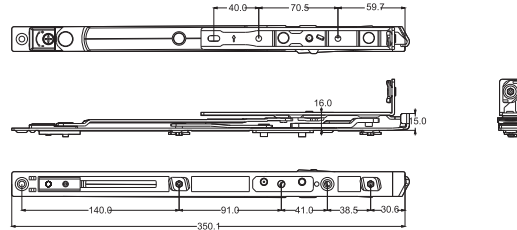
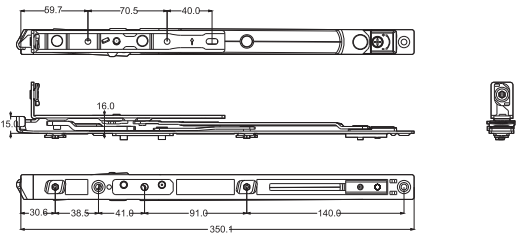


FRICION HINGES

A040193
14" Free-Mill Friction Up Hinge Left (P Series) (C-Groove)
Suitable for Sash Width: 400-750 mm



A040198
14" Free-Mill Friction Up Hinge Left (S Series) (C-Groove)
Suitable for Sash Width: 400-750 mm

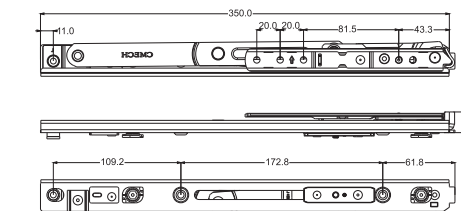
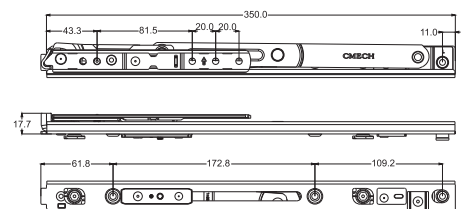


FRICTION HINGES

A040190

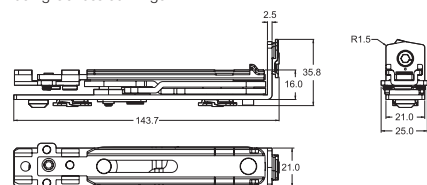
14" Internal Friction Hinge (C-Groove)

Suitable for Sash Width: 400-750 mm



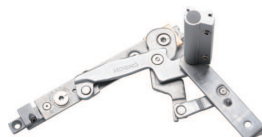
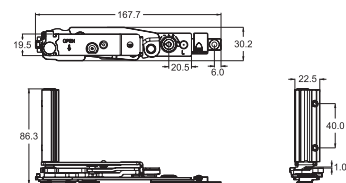
B040054

60 kg Concealed Hinge



B040073

100 kg铰链

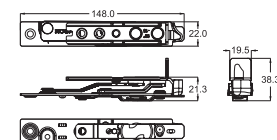


FRICTION HINGES

B040076

90° Fly Screen Friction Hinge (L Series) (C-Groove)

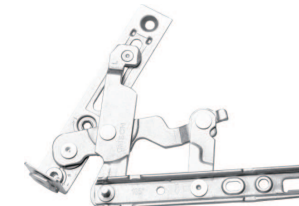
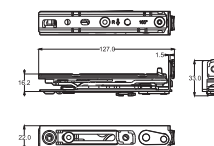
Suitable for Sash Width: 400-750 mm



B040083

165° Fly Screen Friction Hinge (L Series) (C-Groove)

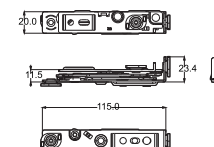
Suitable for Sash Width: 400-750 mm



B040086/B040087

165° Fly Screen Friction Hinge (S/P Series) (C-Groove)

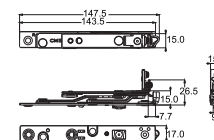
Suitable for Sash Width: 400-750 mm.



B040081

25kg Slimline Flyscreen Hinge (C-Groove)(Inswing Casement Window)

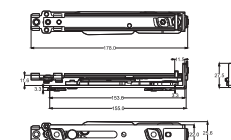
Suitable for Sash Width: 400-750 mm



B040082

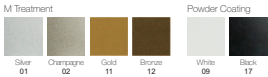
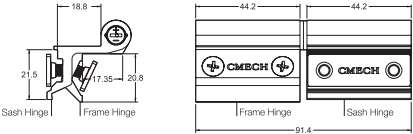
80Kg Concealed Hinge (C-Groove)(Inswing Casement Window)

Suitable for Sash Width: 400-750 mm.

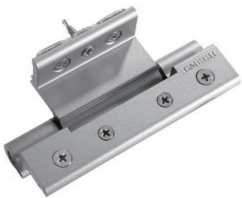
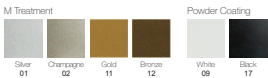
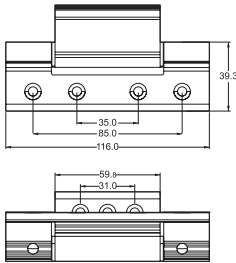


HINGES

B040036
45 kg Hinge

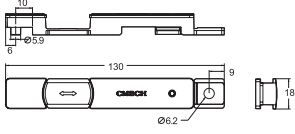


B040059
80 kg Hinge

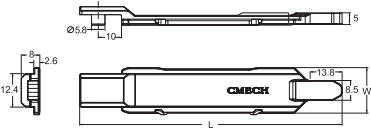


FRENCH CASEMENT WINDOW ACCESSORIES

A020055
Operating Lever

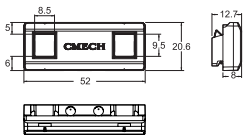


Shootbolt

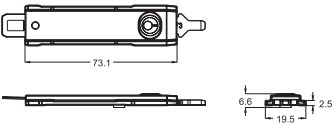


P/N	Size	
	L (mm)	W (mm)
A070001	156	19.6
A070002	156	17.6
A070003	90	19.6
A070004	90	17.6

A100112
Shootbolt Bracket

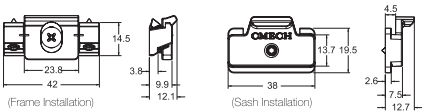


O070007
Shootbolt Pack

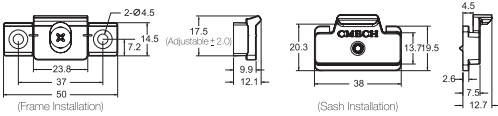


OTHER ACCESSORIES

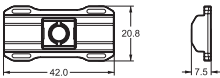
A100121
Hidden Lock
Suitable for Double-Sided C-Groove



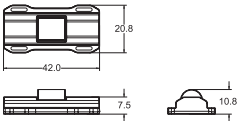
A100104
Hidden Lock
Suitable for Single-Sided C-Groove



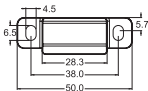
A080012
Sash Support Block



A080011
Sash Support Block (With Bearing)



Frame Support Block

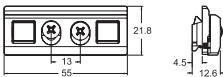


P/N	H
A080003	12.8
A080004	8.3

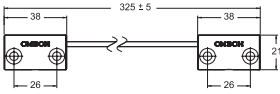


OTHER ACCESSORIES

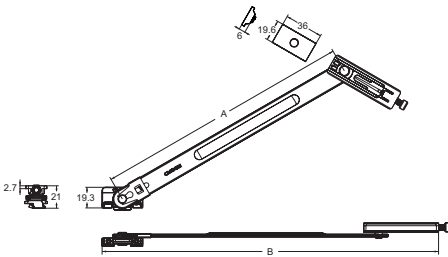
A120005
Frame Support Block with Guide Wheels



A120003
Safety Catch System Hardware



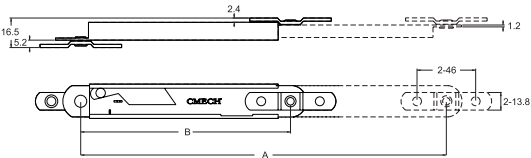
Limiting Stay



Specifications			
P/N	Size/in.	A	B
B040041	10	240 mm	315 mm
B040042	14	347 mm	422 mm

LIMITING STAYS

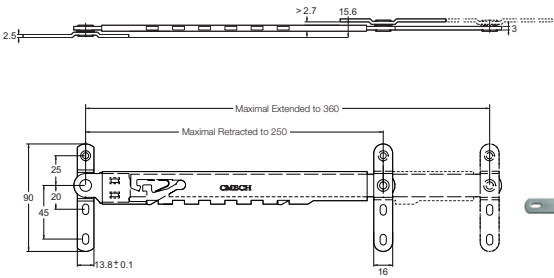
Limiting Stay



P/N	Direction	Size/in.	A	B
H040066	Left & Right	8	205	155
H040067	Left & Right	10	255	180
H040068	Left & Right	12	305	205
H040069	Left & Right	14	355	230
H040070	Left & Right	16	409	257
H040071	Left & Right	18	461	289
H040072	Left & Right	20	515	310



Limiting Stay



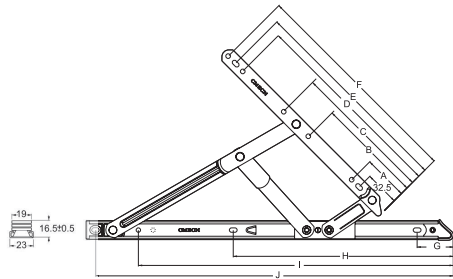
P/N	Directions	Size/in.
H040098	Left & Right	14



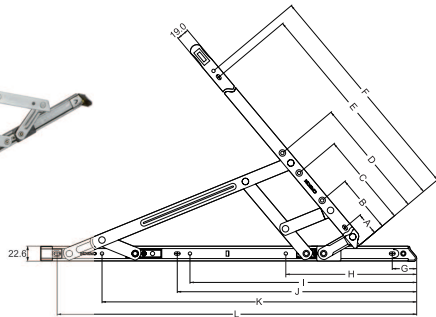
FRICTION HINGES

Suitable for Outswing Casement Windows

Four-Bar Linkage



Six-Bar Linkage



Technical Parameters

P/N	Direction	Size (in.)	# of Bars	Max. Sash Height (mm)	Max. Sash Width (mm)	Max. Sash Weight (kg)	Opening Angle (±2°)	Screw Pack P/N
A040131	Left & Right	10	4	1,600	500	32	80	A110123
A040132	Left & Right	12	4	1,600	600	38	84	A110124
A040133	Left & Right	14	4	1,600	660	40	87	A110124
A040134	Left & Right	16	4	1,800	750	42	79	A110124
A040135	Left & Right	18	4	1,800	800	45	79	H110004
A040136	Left & Right	20	4	1,800	800	48	80	A110130
A040139	Left & Right	22	6	1,800	900	48	80	A110135
A040142	Left & Right	24	6	1,800	1,000	50	25/45/88	A110147

Installation Sizes

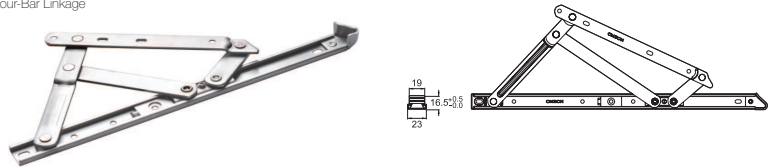
P/N	Direction	Size (in.)	Stack Height (mm)	A	Specifications (mm)											
					B	C	D	E	F	G	H	I	J	K	L	
A040131	Left & Right	10	16.5	46	66.5	106.5	-	198	210.5	35.5	213.5	-	255.5	-	-	
A040132	Left & Right	12	16.5	46	66.5	126.5	-	223	235	35.5	226.5	252.5	304.5	-	-	
A040133	Left & Right	14	16.5	46	97.5	147.5	-	253.5	266	35.5	248.5	302	357	-	-	
A040134	Left & Right	16	16.5	46	97.5	137.5	-	274.5	287	35.5	240.5	339.5	406.5	-	-	
A040135	Left & Right	18	16.5	46	87.5	127.5	-	287.5	300	35.5	218.5	395	455.5	-	-	
A040136	Left & Right	20	16.5	46.5	176.5	218.5	284.5	322	334.5	35.5	392	460	509	-	-	
A040139	Left & Right	22	16.5	35	89.5	144.5	184.5	506	518.5	37.5	-	348	367.5	483	552.5	
A040142	Left & Right	24	16.5	33.5	111.5	173.5	213.5	578.5	-	32	See Notes	-	405	535	600.5	
A040181	Left & Right	12	16.3	-	-	-	88	102.5	117	70	134.5	227	-	-	-	
A040182	Left & Right	12	16.3	-	-	-	88	102.5	117	70	134.5	227	-	-	-	

Notes: The H dimension of A040142 limits the maximum opening angle of the friction hinge using different hole locations: 25° When H=164.5, 45° when H=216.2, and 88° when H=364.5

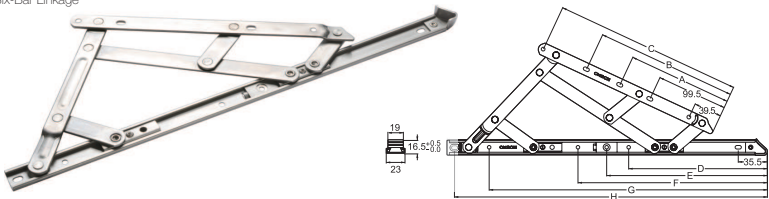
FRICTION HINGES

Suitable for Outswing Awning Windows

Four-Bar Linkage



Six-Bar Linkage



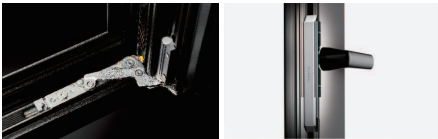
Technical Parameters

P/N	Direction	Size (in.)	# of Bars	Max. Sash Height (mm)	Max. Sash Width (mm)	Max. Sash Weight (kg)	Opening Angle (±2°)	Screw Pack P/N
H040057	Left & Right	12	4	800	1,200	50	30/35	H110004
H040058	Left & Right	14	4	1,000	1,200	65	30/35	H110004
H040059	Left & Right	16	4	1,200	1,200	82	25/30	H110004
H040060	Left & Right	18	6	1,400	1,500	100	25/30	H110004
H040061	Left & Right	20	6	1,600	1,600	108	20/25	A110129
H040062	Left & Right	22	6	1,800	1,800	110	20/25	A110129
H040063	Left & Right	24	6	1,800	1,800	120	15/20	H110004
H040064	Left & Right	26	6	1,900	2,000	125	15/20	A110129
H040065	Left & Right	28	6	2,000	2,000	130	15/20	A110129

Installation Sizes

P/N	Direction	Size (in.)	Stack Height (mm)	Specifications (mm)						
				A	B	C	D	E	F	G
H040057	Left & Right	12	16.5	-	132.5	174.5	167	188	225	259
H040058	Left & Right	14	16.5	-	158.5	200.5	182	206	247.5	303.5
H040059	Left & Right	16	16.5	-	200.5	242.5	174.5	207.5	249	365.5
H040060	Left & Right	18	16.5	-	226.5	268.5	181.5	214.5	256	410.5
H040061	Left & Right	20	16.5	-	259.5	301.5	163	193	234.5	463.5
H040062	Left & Right	22	16.5	-	290.5	332.5	166	196.5	238	509.5
H040063	Left & Right	24	16.5	-	322.5	364.5	170.5	199.5	406	553.5
H040064	Left & Right	26	16.5	232.5	365.5	407.5	175.5	205.5	455	602.5
H040065	Left & Right	28	16.5	247.5	396.5	438.5	178.5	210.5	504	651.5

Tilt & Turn Window Hardware



- The handles are available in many styles and colors
- Hinges are easy to adjust and corner drives are quick to install
- Multi-point locks can be specified to enhance water and air tightness and wind pressure resistance

Tilt & Turn Window with Exposed Hinge		Applicable Range
Sash Width	(mm)	390-1,300
Sash Height	(mm)	600-2,400
Load-bearing	(kg)	≤80

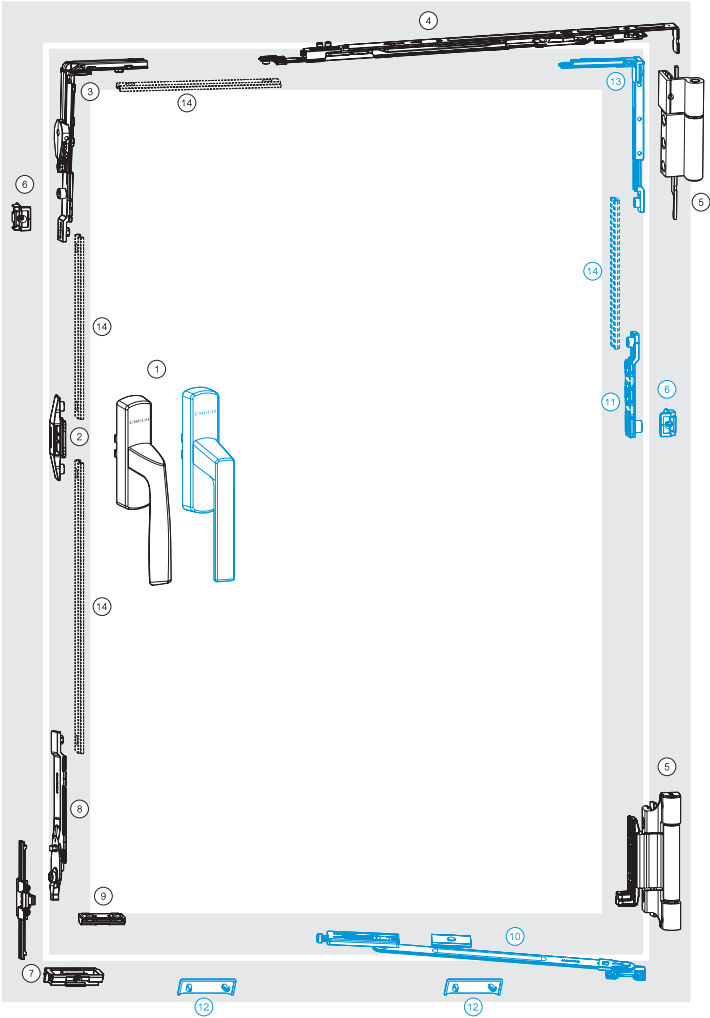
Tilt & Turn Window with Concealed Hinge		Applicable Range
Sash Width	(mm)	490-1,200
Sash Height	(mm)	600-2,400
Load-bearing	(kg)	≤90

Heavy Duty Tilt & Turn Window with Concealed Hinge		Applicable Range
Sash Width	(mm)	500-1,200
Sash Height	(mm)	800-2,800
Load-bearing	(kg)	≤130



TILT & TURN WINDOW HARDWARE SERIES

Fork Drive Handle with Exposed Hinge (80 kg) Configuration



TILT & TURN WINDOW HARDWARE SERIES

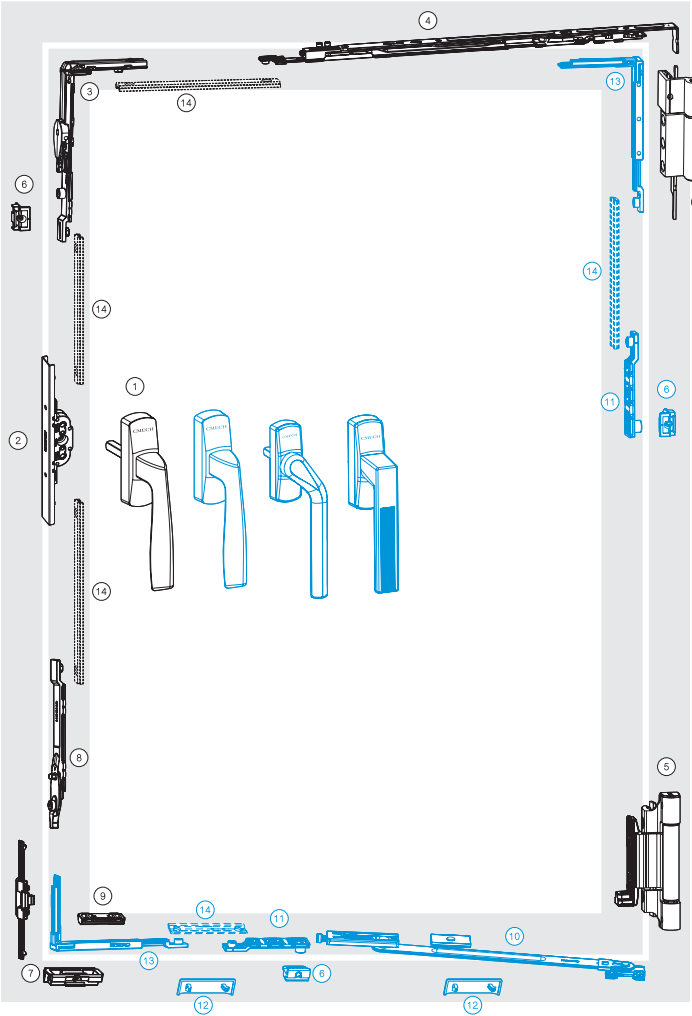
Configuration Table - Fork Drive Handle with Exposed Hinge (80 kg)

No.	Description	P/N	Qty	Notes	Ref. Page
1	Fork Drive Handle (Type TT)	C010402 C010202 C010401 C010201	1	Berlin Series, Aluminum Alloy Koln Series, Aluminum Alloy Berlin Series, Zinc Alloy Koln Series, Zinc Alloy	P88
2	Fork Drive Connector	B020004	1		P99
3	Fail-Safe Corner Drive	C060010	1	Regular Lock Point	P137
4	Stay	C020008 C020009	1	Sash Width: 450-750 mm Sash Width: 600-1,200 mm	P140
5	Upper and Lower Hinges	C040005	1	80 kg	P145
6	Keeper	A100127	1~2		P94
7	Tilt Strike Pack	C070003	1		P139
8	Tilt Bolt	C070006	1		P139
9	Sash Support Block	A080012 A080011	1	Without Bearing With Bearing	P109
10	Limiting Stay	B040041 B040042	1	10" 14"	P110
11	End lock Point	A090007	1	Ø9.5x6.0 mm	P90
12	Drain Cover	C120002	2		P102
13	Small Corner Drive	C060013	1		P138
14	Connecting Strip		3~4	Provided by Customer or Cmech	
15	Handle Screw Pack	C110004	1		



TILT & TURN WINDOW HARDWARE SERIES

Spindle Drive Handle with Exposed Hinge (80 kg) Configuration



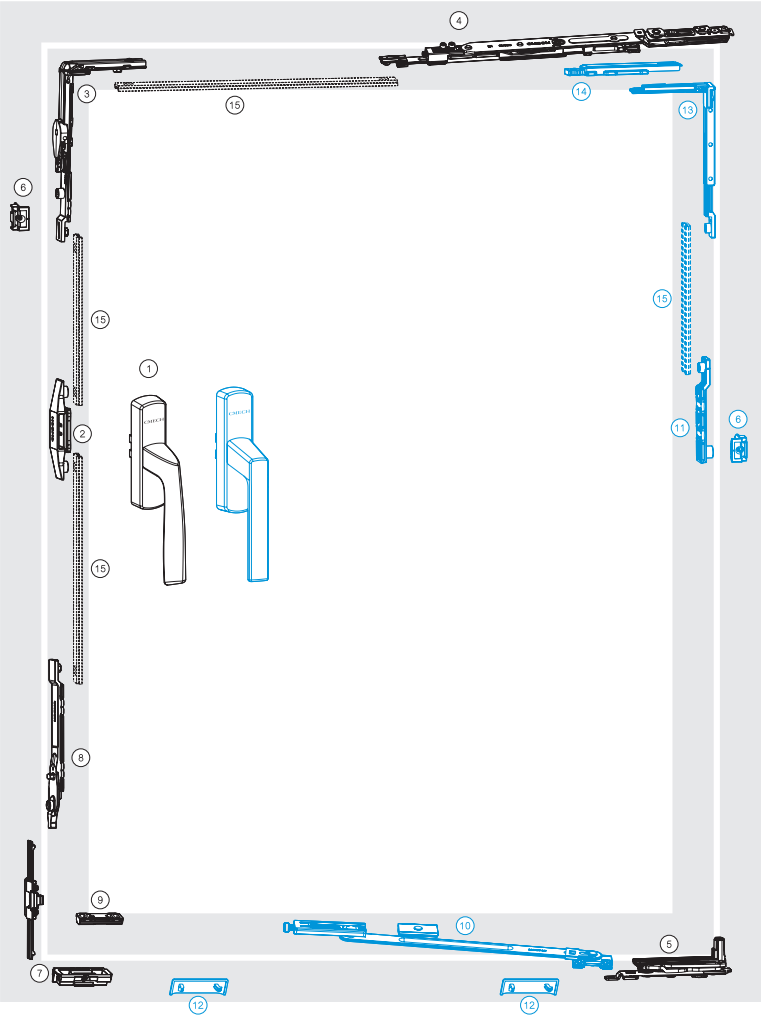
TILT & TURN WINDOW HARDWARE SERIES

Configuration Table - Spindle Drive Handle with Exposed Hinge (80 kg)

No.	Description	P/N	Qty	Notes	Ref. Page
1	Spindle Drive Handle	A010601	1	Milan Series, Aluminum Alloy, Screw Pack C110005 A110161	P63, P64
		A010406		Berlin Series, Aluminum Alloy, Screw Pack C110005 A110161	
		A010210		Koln Series, Aluminum Alloy, Screw Pack C110005 A110161	
		A010407		Berlin Series, Aluminum Alloy, Screw Pack C110005 A110161	
		A010211		Koln Series, Aluminum Alloy, Screw Pack C110005 A110161	
		A010447		Berlin Series, Zinc Alloy, Screw Pack C110005 A110161	
		A010213		Koln Series, Zinc Alloy, Screw Pack C110005 A110161	
		A010448		Berlin Series, Zinc Alloy, Screw Pack C110005 A110161	
		A010214		Koln Series, Zinc Alloy, Screw Pack C110005 A110161	
		A010470		Berlin Series, Zinc Alloy, Screw Pack C110005 A110161	
		A010222		Koln Handle Keyed, Screw Pack A110171	
		A010409		Koln Handle Keyed, Screw Pack A110171	
		A010420		Left Turn Handle, Exposed Spindle Length 30 mm, Screw Pack J110010	
		J010402		Right Turn Handle, Exposed Spindle Length 30 mm, Screw Pack J110010	
2	Spindle Drive Gearbox	C020020	1	Hole Center to Attachment Surface: 11.5 mm	P136
		C020017		Hole Center to Attachment Surface: 15 mm	
		C060010		Regular Lock Point	
		C020008		Sash Width: 450-750 mm	
		C020009		Sash Width: 600-1,200 mm	
		C040005		80 kg	
		A100127		1~3	
		C070003		1	
		C070006		1	
		A080012		Without Bearing	
		A080011		With Bearing	
		B040041		10"	
		B040042		14"	
		A090007		1	
		C120002		2	
		C060013		2	
		C110005		3~5	
		J110010		1	
		A110160		1	
		A110161		1	
		A110171		1	



TILT & TURN WINDOW HARDWARE SERIES
Fork Drive Handle with Concealed Hinge (90 kg) Configuration

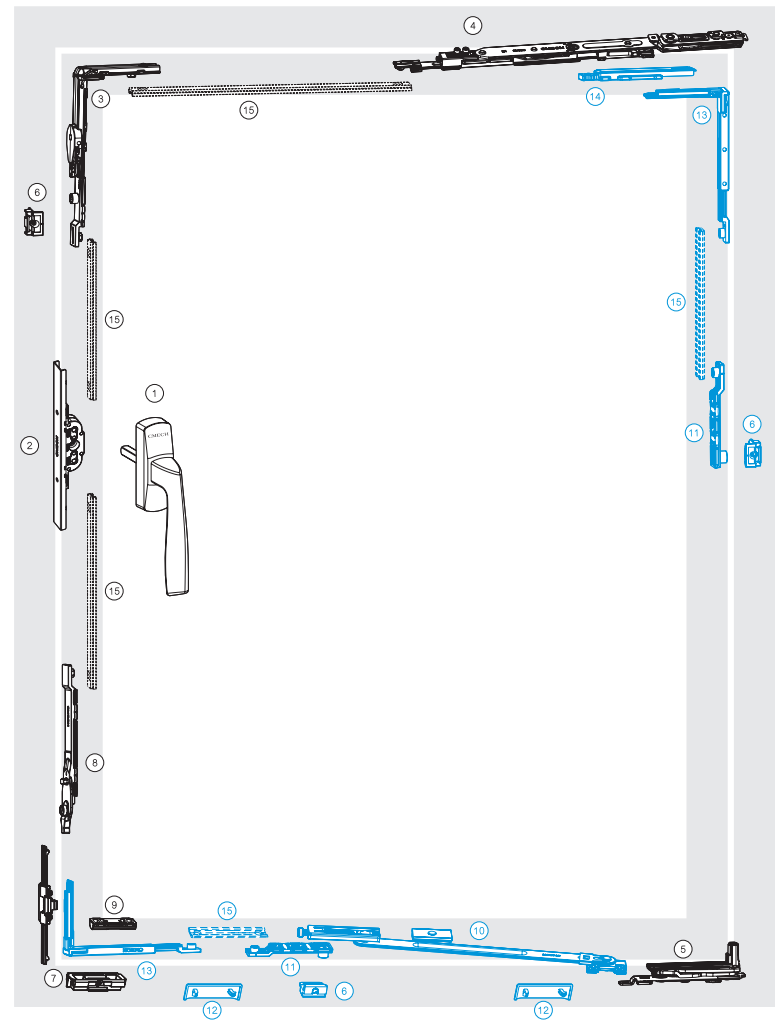


TILT & TURN WINDOW HARDWARE SERIES
Configuration Table - Fork Drive Handle with Concealed Hinge (90 kg)

No.	Description	P/N	Qty	Notes	Ref. Page
1	Fork Drive Handle (Type T.T.)	C010402 C010202 C010401 C010201	1	Berlin Series, Aluminum Alloy Koln Series, Aluminum Alloy Berlin Series, Zinc Alloy Koln Series, Zinc Alloy	P88
2	Fork Drive Connector	B020004	1		P99
3	Fail-Safe Corner Drive	C060010 C060011 C060014	1	Regular Lock Point Adjustable Pry-Resistant End Lock Point with Bearing High Fault Tolerance Corner Drive	P137
4	490 Upper Hinge Left 490 Upper Hinge Right 650 Upper Hinge Left 650 Upper Hinge Right 400 Upper Hinge Left 400 Upper Hinge Right	C040049 C040050 C040051 C040052 C040047 C040048	1	Sash Width 490-750 mm, Left-Opening Sash Sash Width 490-750 mm, Right-Opening Sash Sash Width 600-1200mm, Left-Opening Sash Sash Width 600-1200mm, Right-Opening Sash Sash Width 400-500 mm, Left-Opening Sash Sash Width 400-500 mm, Right-Opening Sash	P143 P144
5	Concealed Lower Hinge Left Concealed Lower Hinge Right	C040045 C040046	1	Suitable for Left-Opening Sash Suitable for Right-Opening Sash	P141
6	Keeper	A100127 C010005	1~2	Keeper Pry-Resistant Keeper	P94
7	Tilt Strike Pack	C070003	1		P139
8	Tilt Bolt	C070006 C070005	1	Regular Lock Point Adjustable Pry-Resistant End Lock Point with Bearing	P139
9	Sash Support Block	A080012 A080011	1	Without Bearing With Bearing	P109
10	Limiting Stay	B040041 B040042	1	10" 14"	P110
11	End lock Point	A090007	1	Ø9.5x6.0 mm	P90
12	Drain Cover	C120002	2		P102
13	Small Corner Drive	C060013	1~2		P138
14	Corner Fitting Piece	C060012	1~2	For Use with Small Corner Drive	P138
15	Connecting Strip		3~4	Provided by Customer or Cmech	
16	Handle Screw Pack	C110004	1		



TILT & TURN WINDOW HARDWARE SERIES
Spindle Drive Handle with Concealed Hinge (90 kg) Configuration



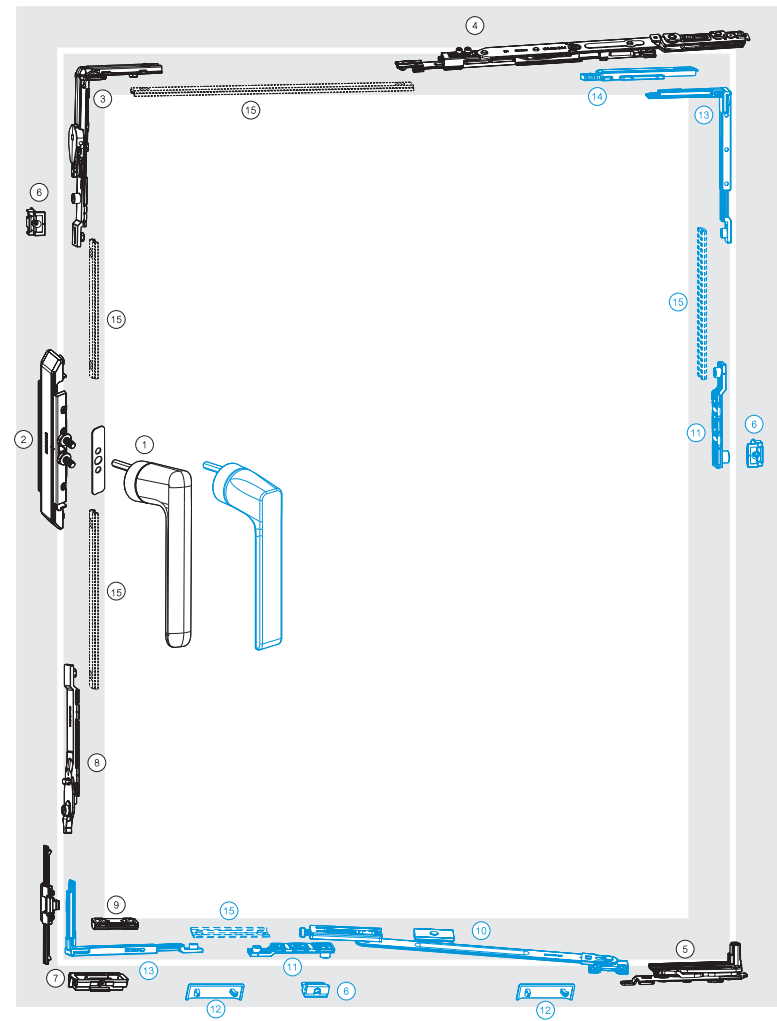
TILT & TURN WINDOW HARDWARE SERIES
Configuration Table - Spindle Drive Handle with Concealed Hinge (90 kg)

No.	Description	P/N	Qty	Notes	Ref. Page
1	Spindle Drive Handle	A010408	1	Berlin Series, Aluminum Alloy, Screw Pack C110005 A110161	P84, P83
		A010210		Koln Series, Aluminum Alloy, Screw Pack C110005 A110161	
		A010407		Berlin Series, Aluminum Alloy, Screw Pack C110005 A110161	
		A010211		Koln Series, Aluminum Alloy, Screw Pack C110005 A110161	
		A010447		Berlin Series, Zinc Alloy, Screw Pack C110005 A110161	
		A010213		Koln Series, Zinc Alloy, Screw Pack C110005 A110161	
		A010448		Berlin Series, Zinc Alloy, Screw Pack C110005 A110161	
		A010214		Koln Series, Zinc Alloy, Screw Pack C110005 A110161	
		A010470		Berlin Handle Keyed, Screw Pack A110171	
		A010222		Koln Handle Keyed, Screw Pack A110171	
		A010409		Left Turn Handle, Exposed Spindle Length 30 mm, Screw Pack J110010	
		A010420		Right Turn Handle, Exposed Spindle Length 30 mm, Screw Pack J110010	
		J010402		Berlin Series, Exposed Spindle Length 25 mm, Screw Pack J110010	
2	Spindle Drive Gearbox	C020020 C020017	1	Hole Center to Attachment Surface: 11.5 mm Hole Center to Attachment Surface: 15 mm	P136
3	Fail-Safe Corner Drive	C060010	1	Regular Lock Point	P137
		C060011		Adjustable Pry-Resistant End Lock Point with Bearing	
		C060014		High Fault Tolerance Corner Drive	
4	490 Upper Hinge Left	C040049	1	Sash Width 490-750 mm, Left-Opening Sash	P144, P143
	490 Upper Hinge Right	C040050		Sash Width 490-750 mm, Right-Opening Sash	
	650 Upper Hinge Left	C040051		Sash Width 600-1200mm, Left-Opening Sash	
	650 Upper Hinge Right	C040052		Sash Width 600-1200mm, Right-Opening Sash	
	400 Upper Hinge Left	C040047		Sash Width 400-500 mm, Left-Opening Sash	
5	Concealed Lower Hinge Left	C040045	1	Suitable for Left-Opening Sash	P141
	Concealed Lower Hinge Right	C040046		Suitable for Right-Opening Sash	
6	Keeper	A100127 C010005	1~3	Keeper Pry-Resistant Keeper	P94
7	Tilt Strike Pack	C070003	1		P139
8	Tilt Bolt	C070006 C070005	1	Regular Lock Point Adjustable Pry-Resistant End Lock Point with Bearing	P139
9	Sash Support Block	A060012 A060011	1	Without Bearing With Bearing	P109
10	Limiting Stay	B040041 B040042	1	10" 14"	P110
11	End lock Point	A090007	2	Ø9.5x6.0 mm	P90
12	Drain Cover	C120002	2		P102
13	Small Corner Drive	C060013	1~2		P100
14	Corner Fitting Piece	C060012	1~2	For Use with Small Corner Drive	P138
15	Connecting Strip		3~5	Provided by Customer or Cmech	P138
16	Handle Screw Pack	C110005	1		
17	Handle Screw Pack	J110010	1	Suitable for 28 Spindle Drive Handle and Turn Handle	
18	Handle Screw Pack	A110180 A110161	1	Suitable for Spindle and Fork Drive Handle	
19	Handle Screw Pack	A110171	1	Suitable for Spindle Drive Handle Keyed	



TILT & TURN WINDOW HARDWARE SERIES

Hexagon Spindle Handle & Hexagon Spindle Drive Gearbox with Concealed Hinge (90 kg) Configuration



TILT & TURN WINDOW HARDWARE SERIES

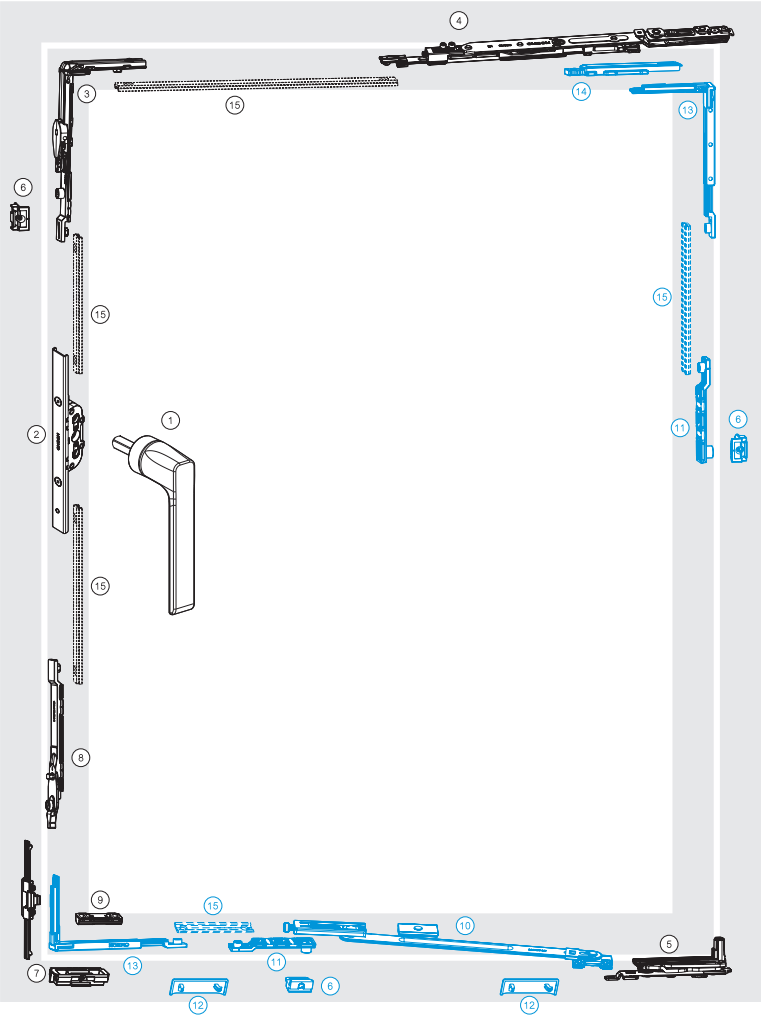
Configuration Table - Hexagon Spindle Handle & Hexagon Spindle Drive Gearbox with Concealed Hinge (90 kg)

N.o.	Description	P/N	Qty	Notes	Ref. Page
1	Hexagon Spindle Handle	C010601 C010701	1	Milan Series Handle Venice Series Handle	P67
2	Hexagon Spindle Drive Gearbox	C020016	1		P136
3	Fail-Safe Corner Drive	C060010 C060011 C060014	1	Regular Lock Point Adjustable Pry-Resistant End Lock Point with Bearing High Fault Tolerance Corner Drive	P137
4	490 Upper Hinge Left 490 Upper Hinge Right 650 Upper Hinge Left 650 Upper Hinge Right 400 Upper Hinge Left 400 Upper Hinge Right	C040049 C040050 C040051 C040052 C040047 C040048	1	Sash Width 490-750 mm, Left-Opening Sash Sash Width 490-750 mm, Right-Opening Sash Sash Width 600-1200mm, Left-Opening Sash Sash Width 600-1200mm, Right-Opening Sash Sash Width 400-500 mm, Left-Opening Sash Sash Width 400-500 mm, Right-Opening Sash	P143, P144
5	Concealed Lower Hinge Left Concealed Lower Hinge Right	C040045 C040046	1	Suitable for Left-Opening Sash Suitable for Right-Opening Sash	P141
6	Keeper	A100127 C010005	1-4	Keeper Regular Keeper	P92
7	Tilt Strike Pack	C070003	1		P139
8	Tilt Bolt	C070006 C070005	1	Regular Lock Point Adjustable Pry-Resistant End Lock Point with Bearing	P139
9	Sash Support Block	A080012 A080011	1	Without Bearing With Bearing	P109
10	Limiting Stay	B040041 B040042	1	10" 14"	P110
11	End lock Point	A090007	1-2	9.5x6.0 mm	P90
12	Drain Cover	C120002	2		P102
13	Small Corner Drive	C060013	1-2		P138
14	Corner Fitting Piece	C060012	1-2	For Use with Small Corner Drive	P138
15	Connecting Strip		3-5	Provided by Customer or Cmech	
16	Handle Screw Pack	C110013 C110014	1	Tapping Screws Pack Ram Screws Pack	



TILT & TURN WINDOW HARDWARE SERIES

Round Base Spindle Handle & Spindle Drive with Concealed Hinge (90 kg) Configuration



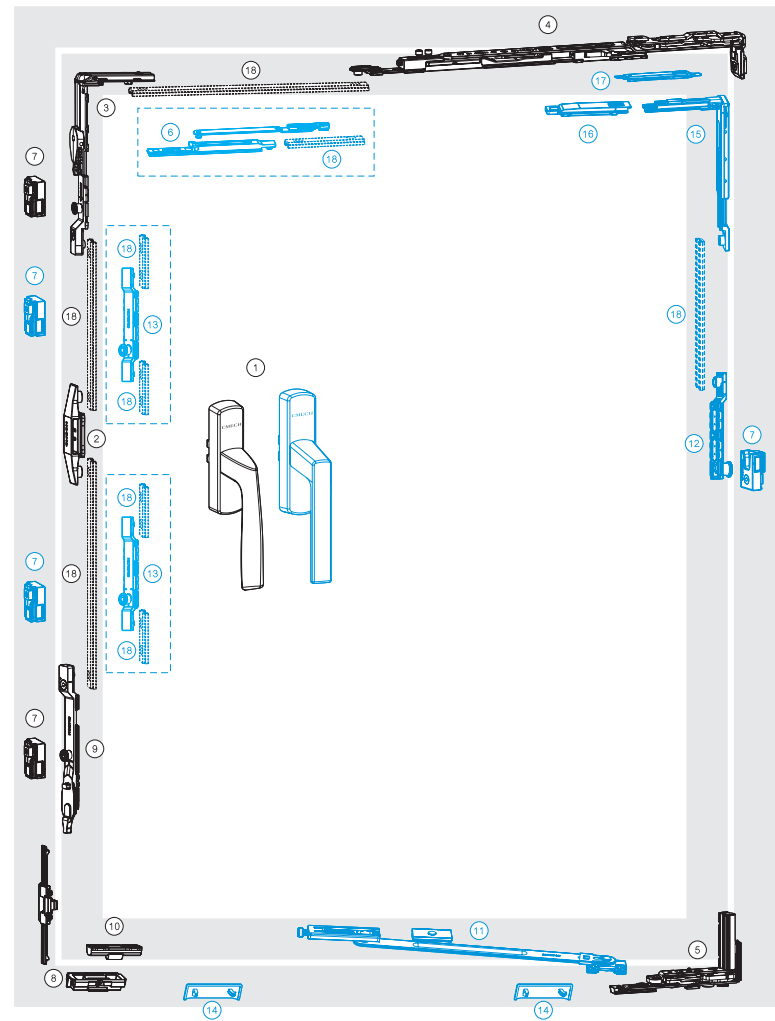
TILT & TURN WINDOW HARDWARE SERIES

Configuration Table - Round Base Spindle Handle & Spindle Drive with Concealed Hinge (90 kg)

No.	Description	P/N	Qty	Notes	Ref. Page
1	Handle	A010606	1	Milan Series Round-Base Handle (Includes 26 mm Spindle)	P66
		A010607		Milan Series Round-Base Left Turn Handle (Includes 26 mm Spindle)	
		A010608		Milan Series Round-Base Right Turn Handle (Includes 26 mm Spindle)	
		A010701		Venice Series Round-Base Handle	
		A010702		Venice Series Round-Base Left Turn Handle	
		A010703		Venice Series Round-Base Right Turn Handle	
2	Spindle Drive Gearbox	A010707	1	Venice Series Round-Base Handle (40mm Height)	P136
		C020020		Hole Center to Attachment Surface: 11.5 mm	
3	Fail-Safe Corner Drive	C020017	1	Hole Center to Attachment Surface: 15 mm	P137
		C060010		Regular Lock Point	
4	490 Upper Hinge Left 490 Upper Hinge Right 650 Upper Hinge Left 650 Upper Hinge Right 400 Upper Hinge Left 400 Upper Hinge Right	C060011	1	Adjustable Pry-Resistant End Lock Point with Bearing	P143, P144
		C060014		High Fault Tolerance Corner Drive	
		C040049		Sash Width 490-750 mm, Left-Opening Sash	
		C040050		Sash Width 490-750 mm, Right-Opening Sash	
		C040051		Sash Width 600-1200mm, Left-Opening Sash	
		C040052		Sash Width 600-1200mm, Right-Opening Sash	
5	Concealed Lower Hinge Left Concealed Lower Hinge Right	C040047	1	Sash Width 400-500 mm, Left-Opening Sash	P141
		C040048		Sash Width 400-500 mm, Right-Opening Sash	
6	Keeper	C040045	1~4	Suitable for Left-Opening Sash	P94
		C040046		Suitable for Right-Opening Sash	
7	Tilt Strike Pack	A100127	1	Keeper	P139
		C010005		Regular Keeper	
8	Tilt Bolt	C070003	1	Regular Lock Point	P106
		C070006		Without Bearing	
9	Sash Support Block	C070005	1	With Bearing	P110
		A080012		10"	
10	Limiting Stay	A080011	1	14"	P110
		B040041		Ø9.5x6.0 mm	
11	End Lock Point	B040042	1~2		P90
		A090007			
12	Drain Cover	C120002	2		P102
		C060013			
13	Small Corner Drive	C060012	1~2		P138
		C060012		For Use with Small Corner Drive	
14	Corner Fitting Piece		3~5		
				Provided by Customer or Cmech	
15	Connecting Strip		1		
				Ram Screws Pack	
16	Handle Screw Pack	A110237	1		
		A110238		Tapping Screws Pack	
17	Handle Screw Pack		1		



TILT & TURN WINDOW HARDWARE SERIES
Heavy Duty Fork Drive Handle with Concealed Hinge (100-130 kg) Configuration



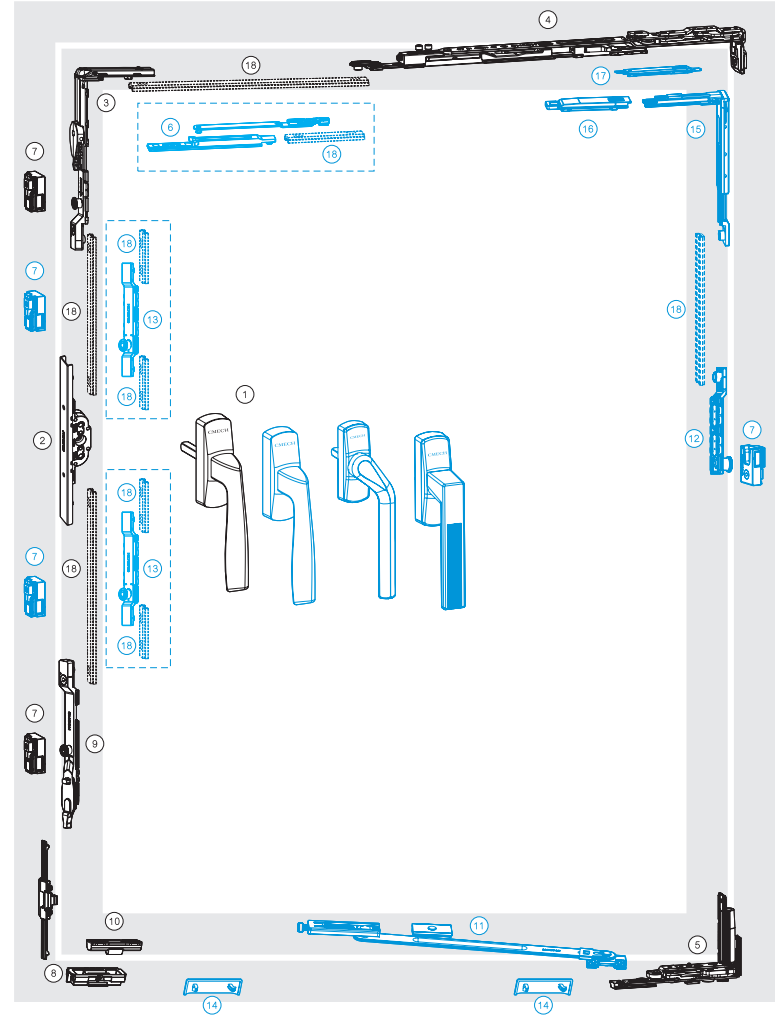
TILT & TURN WINDOW HARDWARE SERIES
Configuration Table - Heavy Duty Fork Drive Handle with Concealed Hinge (100-130 kg)

No.	Description	P/N	Qty	Notes	Ref. Page
1	Fork Drive Handle (Type T.T)	C010402 C010202 C010401 C010201	1	Berlin Series, Aluminum Alloy Koln Series, Aluminum Alloy Berlin Series, Zinc Alloy Koln Series, Zinc Alloy	P85, P86
2	Fork Drive Connector	B020004	1		P99
3	Fall-Safe Corner Drive	C060011	1	Adjustable Pry-Resistant End Lock Point with Bearing	P137
4	500 Upper Hinge Left 500 Upper Hinge Right H650 Upper Hinge Left H650 Upper Hinge Right	C040031 C040032 C040033 C040034	1	Sash Width 500-700 mm, Left-Opening Sash Sash Width 500-700 mm, Right-Opening Sash Sash Width 620-1200mm, Left-Opening Sash Sash Width 620-1200mm, Right-Opening Sash	P145, P144
5	130 kg Concealed Lower Hinge Left 130 kg Concealed Lower Hinge Right 100 kg Concealed Lower Hinge Left 100 kg Concealed Lower Hinge Right 100 kg Concealed Lower Hinge Left 100 kg Concealed Lower Hinge Right	C040035 C040036 C040037 C040038 C040053 C040054	1	Suitable for Left-Opening Sash Suitable for Right-Opening Sash Suitable for Left-Opening Sash Suitable for Right-Opening Sash Suitable for Left-Opening Sash ,With Seal Adjustment Suitable for Right-Opening Sash ,With Seal Adjustment	P142, P141
6	Additional Limiting Stay	C020019	1		
7	Keeper	C100005	2-4	Regular Keeper	P139
8	Tilt Strike Pack	C070003	1		P139
9	Heavy Duty Tilt Bolt	C070009	1	Adjustable Pry-Resistant End Lock Point with Bearing	P139
10	Sash Support Block	A080011 A080012	1	With Bearing Without Bearing	P109
11	Limiting Stay	B040041 B040042	1	10" 14"	P110
12	End lock Point	A090032	1	Adjustable Pry-Resistant End Lock Point with Bearing	P90
13	Central Lock Point	A090034	1-2	Ø9.5x6.0 mm	P91
14	Drain Cover	C120002	2		P102
15	Small Corner Drive	C060013	1-2		P138
16	Corner Fitting Piece	C060012	1-2	For Use with Small Corner Drive	P138
17	Shootbolt Pack	C070007	1	Option	P100
18	Connecting Strip		3-4	Provided by Customer or Cmech	
19	Handle Screw Pack	C110004	1		



TILT & TURN WINDOW HARDWARE SERIES

Heavy Duty Spindle Drive Handle with Concealed Hinge (130 kg) Configuration



TILT & TURN WINDOW HARDWARE SERIES

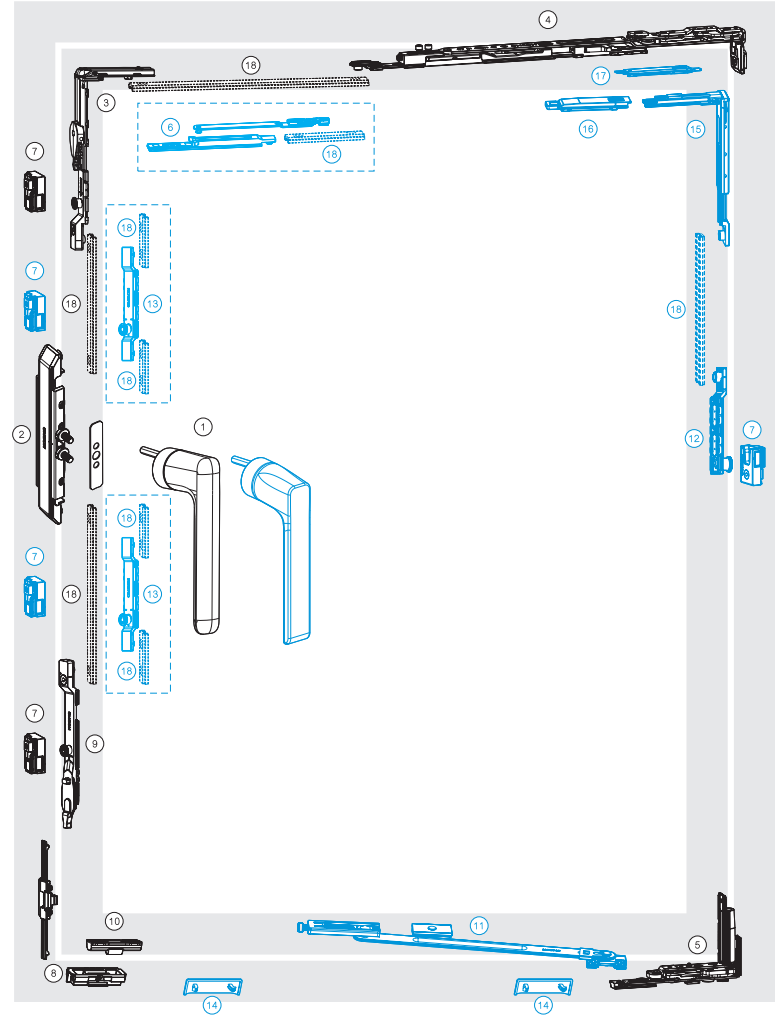
Configuration Table - Heavy Duty Spindle Drive Handle with Concealed Hinge (130 kg)

No.	Description	P/N	Qty	Notes	Ref. Page
1	Spindle Drive Handle	A010408 A010210 A010407 A010211 A010447 A010213 A010448 A010214 A010446 A010215 A010409 A010420 J010402 J010210 A010003	1	Berlin Series, Aluminum Alloy, Screw Pack C110005 A110161 Kolin Series, Aluminum Alloy, Screw Pack C110005 A110161 Berlin Series, Aluminum Alloy, Screw Pack C110005 A110161 Kolin Series, Aluminum Alloy, Screw Pack C110005 A110161 Berlin Series, Zinc Alloy, Screw Pack C110005 A110161 Kolin Series, Zinc Alloy, Screw Pack C110005 A110161 Berlin Series, Zinc Alloy, Screw Pack C110005 A110161 Kolin Series, Zinc Alloy, Screw Pack C110005 A110161 Berlin Handle Keyed, Screw Pack A110171 Kolin Handle Keyed, Screw Pack A110171 Left Turn Handle, Exposed Spindle Length 30 mm, Screw Pack J110010 Right Turn Handle, Exposed Spindle Length 30 mm, Screw Pack J110010 Berlin Series, Exposed Spindle Length 25 mm, Screw Pack J110010 Kolin Series, Exposed Spindle Length 25 mm, Screw Pack J110010 Chinese Traditional Huayun Series, Aluminum Alloy	P63, P64
2	Spindle Drive Gearbox	C020020 C020017	1	Hole Center to Attachment Surface: 11.5 mm Hole Center to Attachment Surface: 15 mm	P136
3	Fail-Safe Corner Drive	C060011	1	Adjustable Pry-Resistant End Lock Point with Bearing	P137
4	500 Upper Hinge Left 500 Upper Hinge Right H660 Upper Hinge Left H660 Upper Hinge Right	C040031 C040032 C040033 C040034	1	Sash Width 500-700 mm, Left-Opening Sash Sash Width 500-700 mm, Right-Opening Sash Sash Width 620-1200mm, Left-Opening Sash Sash Width 620-1200mm, Right-Opening Sash	P144, P145
5	130 kg Concealed Lower Hinge Left 130 kg Concealed Lower Hinge Right 100 kg Concealed Lower Hinge Left 100 kg Concealed Lower Hinge Right 100 kg Concealed Lower Hinge Left 100 kg Concealed Lower Hinge Right	C040035 C040036 C040037 C040038 C040053 C040054	1	Suitable for Left-Opening Sash Suitable for Right-Opening Sash Suitable for Left-Opening Sash Suitable for Right-Opening Sash Suitable for Left-Opening Sash, With Seal Adjustment Suitable for Right-Opening Sash, With Seal Adjustment	P141, P142
6	Additional Limiting Stay	C020019	1		P140
7	Keeper	C100005	2~4	Regular Keeper	P139
8	Tilt Strike Pack	C070003	1		P139
9	Heavy Duty Tilt Bolt	C070009	1	Adjustable Pry-Resistant End Lock Point with Bearing	P139
10	Sash Support Block	A060011 A060012	1	With Bearing Without Bearing	P109
11	Limiting Stay	B040041 B040042	1	10" 14"	P110
12	End lock Point	A090032	1	Adjustable Pry-Resistant End Lock Point with Bearing	P90
13	Central Lock Point	A090034	1~2	Ø9.5x6.0 mm	P91
14	Drain Cover	C120002	2		P102
15	Small Corner Drive	C060013	1~2		P138
16	Corner Fitting Piece	C060012	1~2	For Use with Small Corner Drive	P138
17	Shootbolt Pack	C070007	1	Option	P138
18	Connecting Strip		3~6	Provided by Customer or Cmech	
19	Handle Screw Pack	C110005	1		
20	Handle Screw Pack	J110010	1	Suitable for 28 Spindle Drive Handle and Turn Handle	
21	Handle Screw Pack	A110160 A110161	1	Suitable for Spindle and Fork Drive Handle	
22	Handle Screw Pack	A110171	1	Suitable for Spindle Drive Handle Keyed	



TILT & TURN WINDOW HARDWARE SERIES

Heavy Duty Hexagon Spindle Handle & Hexagon Spindle Drive Gearbox with Concealed Hinge (130 kg) Configuration



TILT & TURN WINDOW HARDWARE SERIES

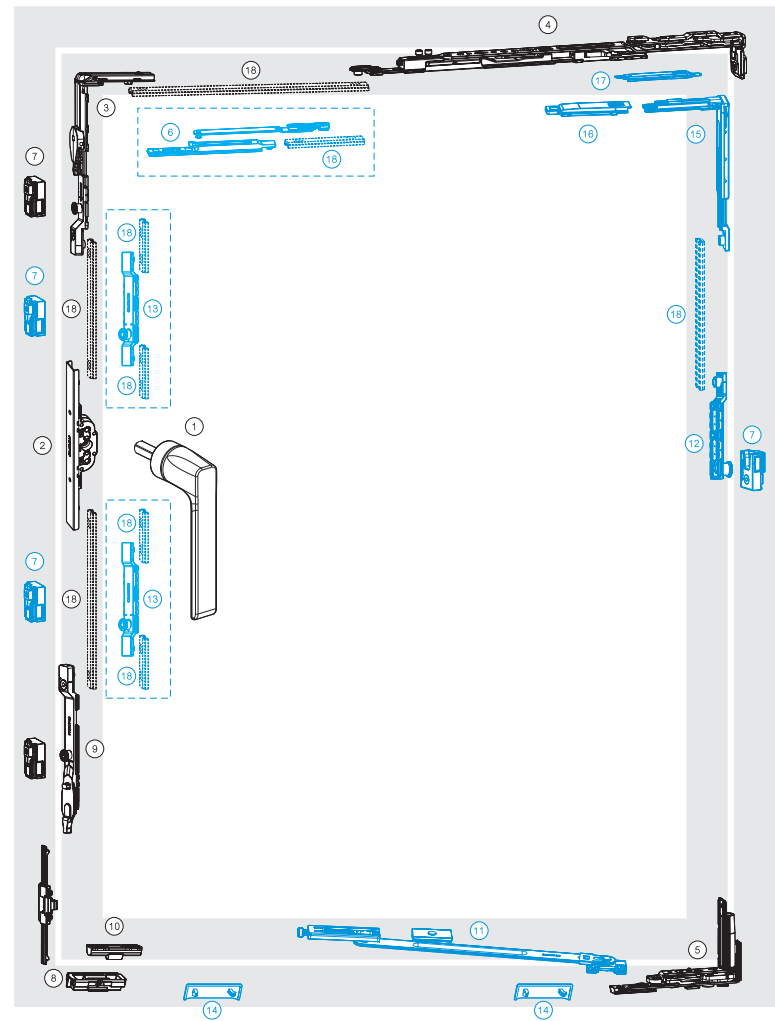
Configuration Table - Heavy Duty Hexagon Spindle Handle & Hexagon Spindle Drive Gearbox with Concealed Hinge (130 kg)

No.	Description	P/N	Qty	Notes	Ref. Page
1	Hexagon Spindle Handle	C010601 C010701	1	Milan Series Handle Venice Series Handle	P87
2	Hexagon Spindle Drive Gearbox	C020016	1		P136
3	Fail-Safe Corner Drive	C060011	1	Adjustable Pry-Resistant End Lock Point with Bearing	P137
4	500 Upper Hinge Left 500 Upper Hinge Right H650 Upper Hinge Left H650 Upper Hinge Right	C040031 C040032 C040033 C040034	1	Sash Width 500-700 mm, Left-Opening Sash Sash Width 500-700 mm, Right-Opening Sash Sash Width 620-1200mm, Left-Opening Sash Sash Width 620-1200mm, Right-Opening Sash	P144, P145
5	130 kg Concealed Lower Hinge Left 130 kg Concealed Lower Hinge Right 100 kg Concealed Lower Hinge Left 100 kg Concealed Lower Hinge Right	C040035 C040036 C040037 C040038 C040053 C040054	1	Suitable for Left-Opening Sash Suitable for Right-Opening Sash Suitable for Left-Opening Sash Suitable for Right-Opening Sash Suitable for Left-Opening Sash, With Seal Adjustment Suitable for Right-Opening Sash, With Seal Adjustment	P141, P142
6	Additional Limiting Stay	C020019	1		P140
7	Keeper	C100005	2-4	Regular Keeper	P139
8	Tilt Strike Pack	C070003	1		P139
9	Heavy Duty Tilt Bolt	C070009	1	Adjustable Pry-Resistant End Lock Point with Bearing	P139
10	Sash Support Block	A080011 A080012	1	With Bearing Without Bearing	P109
11	Limiting Stay	B040041 B040042	1	10" 14"	P110
12	End lock Point	A090032	1	Adjustable Pry-Resistant End Lock Point with Bearing	P90
13	Central Lock Point	A090034	1-2	Ø9.5x6.0 mm	P91
14	Drain Cover	C120002	2		P102
15	Small Corner Drive	C060013	1-2		P100
16	Corner Fitting Piece	C060012	1-2	For Use with Small Corner Drive	P138
17	Shootbolt Pack	C070007	1	Option	P100
18	Connecting Strip		3-6	Provided by Customer or Cmech	
19	Handle Screw Pack	C110013 C110014	1	Tapping Screws Pack Ram Screws Pack	



TILT & TURN WINDOW HARDWARE SERIES

Heavy Duty Milan Handle Spindle Drive with Concealed Hinge (130 kg) Configuration



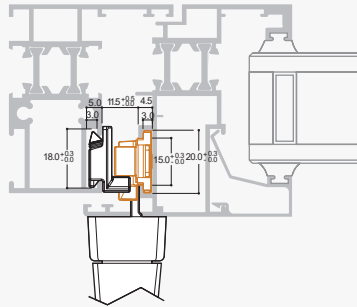
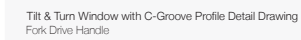
TILT & TURN WINDOW HARDWARE SERIES

Configuration Table - Heavy Duty Milan Handle Spindle Drive with Concealed Hinge (130 kg)

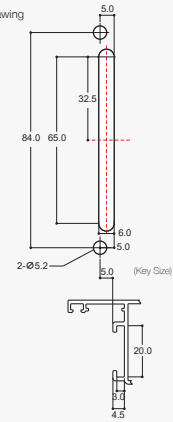
No.	Description	P/N	Qty	Notes	Ref. Page
1	Milan Handle	A010606 A010607 A010608 A010701 A010702 A010703 A010707	1	Milan Series Round-Base Handle (Includes 26 mm Spindle) Milan Series Round-Base Left Turn Handle (Includes 26 mm Spindle) Milan Series Round-Base Right Turn Handle (Includes 26 mm Spindle) Venice Series Round-Base Handle Venice Series Round-Base Left Turn Handle Venice Series Round-Base Right Turn Handle Venice Series Round-Base Handle (40mm Height)	P65, P67, P67 P71, P72
2	Spindle Drive Gearbox	C020020 C020017	1	Hole Center to Attachment Surface: 11.5 mm Hole Center to Attachment Surface: 15 mm	P136
3	Fail-Safe Corner Drive	C060011	1	Adjustable Pry-Resistant End Lock Point with Bearing	P137
4	500 Upper Hinge Left 500 Upper Hinge Right H650 Upper Hinge Left H650 Upper Hinge Right	C040031 C040032 C040033 C040034	1	Sash Width 500-700 mm, Left-Opening Sash Sash Width 500-700 mm, Right-Opening Sash Sash Width 620-1200mm, Left-Opening Sash Sash Width 620-1200mm, Right-Opening Sash	P144, P145
5	130 kg Concealed Lower Hinge Left 130 kg Concealed Lower Hinge Right 100 kg Concealed Lower Hinge Left 100 kg Concealed Lower Hinge Right 100 kg Concealed Lower Hinge Left 100 kg Concealed Lower Hinge Right	C040035 C040036 C040037 C040038 C040053 C040054	1	Suitable for Left-Opening Sash Suitable for Right-Opening Sash Suitable for Left-Opening Sash Suitable for Right-Opening Sash Suitable for Left-Opening Sash ,With Seal Adjustment Suitable for Right-Opening Sash ,With Seal Adjustment	P141, P142
6	Additional Limiting Stay	C020019	1		P140
7	Keeper	C100005	2-4	Regular Keeper	P139
8	Tilt Strike Pack	C070003	1		P139
9	Heavy Duty Tilt Bolt	C070009	1	Adjustable Pry-Resistant End Lock Point with Bearing	P139
10	Sash Support Block	A080011 A080012	1	With Bearing Without Bearing	P109 , P139
11	Limiting Stay	B040041 B040042	1	10" 14"	P110
12	End lock Point	A090032	1	Adjustable Pry-Resistant End Lock Point with Bearing	P90
13	Central Lock Point	A090034	1~2	Ø9.5x6.0 mm	P93
14	Drain Cover	C120002	2		P140
15	Small Corner Drive	C060013	1~2		P138
16	Corner Fitting Piece	C060012	1~2	For Use with Small Corner Drive	P138
17	Shootbolt Pack	C070007	1	Option	P138
18	Connecting Strip		3~6	Provided by Customer or Cmech	
19	Handle Screw Pack	A110237	1	Ram Screws Pack	
20	Handle Screw Pack	A110238	1	Tapping Screws Pack	



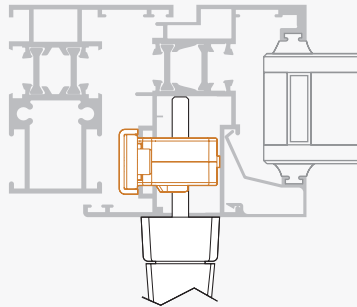
TILT & TURN WINDOW PROFILE AND DRILLING REQUIREMENTS



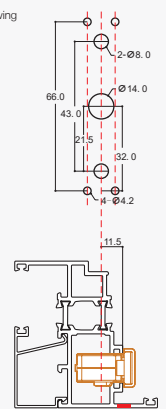
Drill Hole Drawing Handle



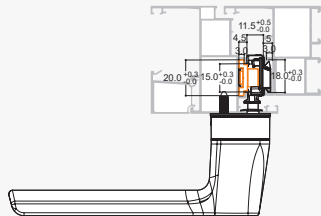
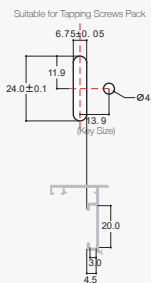
Tilt & Turn Window with C-Groove Profile Detail Drawing
Spindle Drive Handle



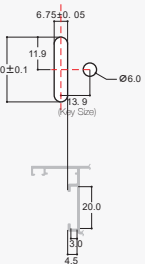
Drill Hole Drawing Handle



Tilt & Turn Window with C-Groove Profile Detail Drawing
Milan Handle

Drill Hole Drawing
Handle

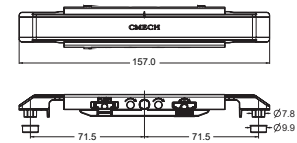
Suitable for Ram Screws Pack



TILT & TURN WINDOW HARDWARE

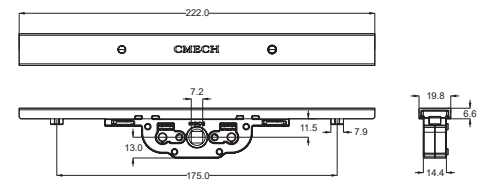
C020016

Hexagon Spindle Drive Gearbox



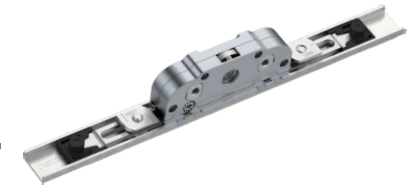
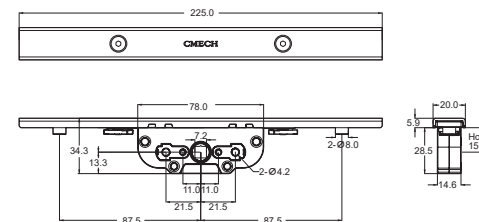
C020020

11.5 mm Spindle Drive Gearbox



C020017

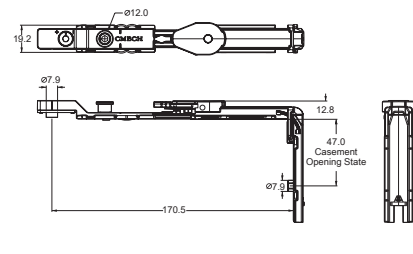
15 mm Spindle Drive Gearbox



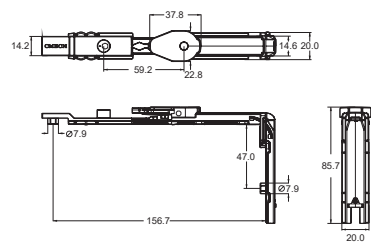


TILT & TURN WINDOW HARDWARE

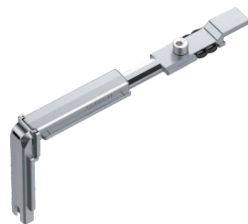
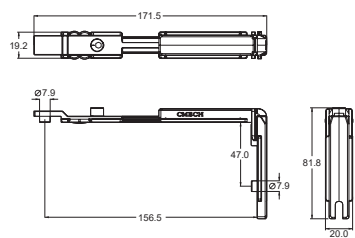
C060011
Fail-Safe Corner Drive (Adjustable Pry-Resistant End Lock Point with Bearing)



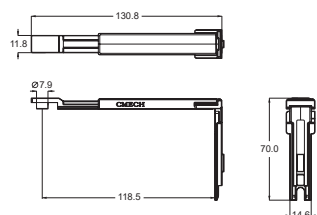
C060010
Fail-Safe Corner Drive



C060009
Corner Drive

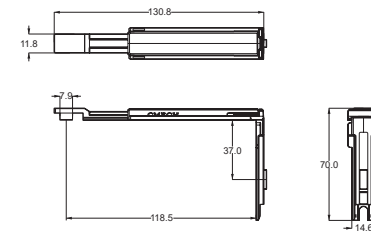


C060004
Small Corner Drive

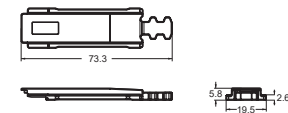


TILT & TURN WINDOW HARDWARE

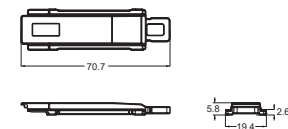
C060013
Small Corner Drive



C060006
Corner Fitting Piece



C060012
Small Corner Fitting Piece

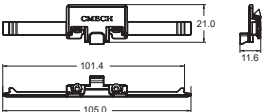




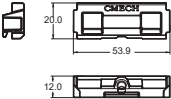
TILT & TURN WINDOW HARDWARE

C070003
Tilt Strike Pack

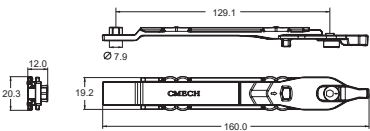
Tilt Striker



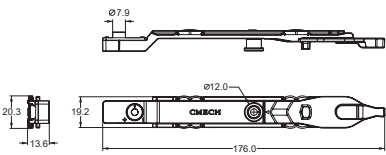
Run Up Block



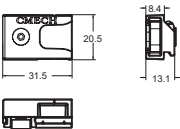
C070006
Tilt Bolt



C070009
Heavy Duty Tilt Bolt Adjustable Pry-Resistant End Lock Point with Bearing

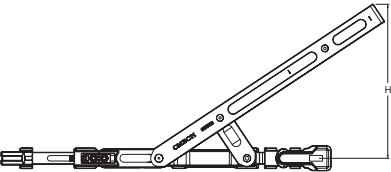


C100005
Pry-Resistant Keeper



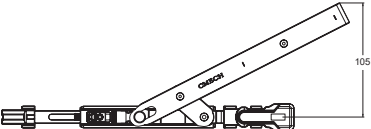
TILT & TURN WINDOW HARDWARE

Stay

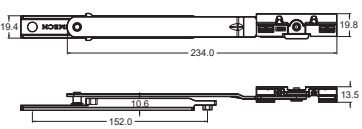


P/N	H	Instructions
C020008	147 mm	Sash Width: 450-750 mm
C020009	158 mm	Sash Width: 600-1,200 mm

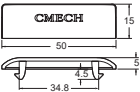
C020005
Stay
Suitable for Sash Width: 390-500 mm



C020019
Additional Limiting Stay



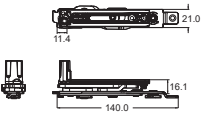
C120002
Drain Cover



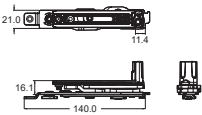


TILT & TURN WINDOW HARDWARE

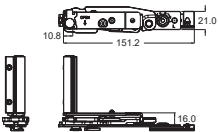
C040045
Concealed Lower Hinge Left (90 kg)



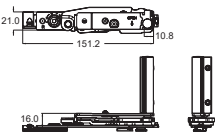
C040046
Concealed Lower Hinge Right (90 kg)



C040037
Concealed Lower Hinge Left (100 kg)

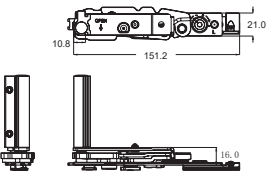


C040038
Concealed Lower Hinge Right (100 kg)

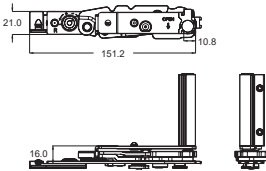


TILT & TURN WINDOW HARDWARE

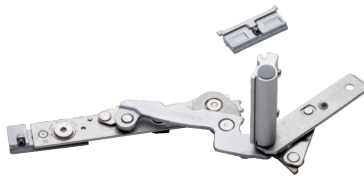
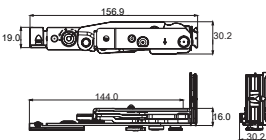
C040035
Concealed Lower Hinge Left (130 kg)



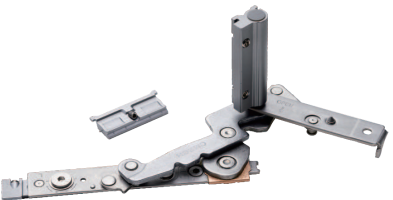
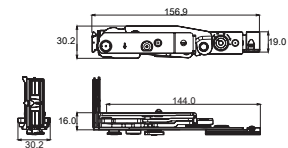
C040036
Concealed Lower Hinge Right (130 kg)



C040053
Concealed Lower Hinge With Seal Adjustment Left (100 kg)



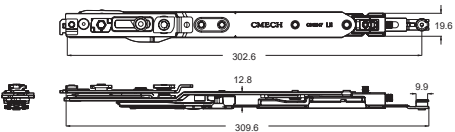
C040054
Concealed Lower Hinge With Seal Adjustment Right (100 kg)



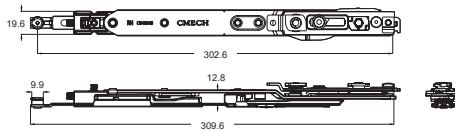


TILT & TURN WINDOW HARDWARE

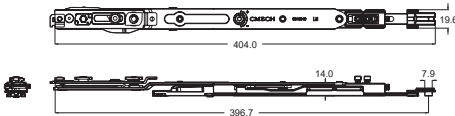
C040047
400 Upper Hinge Left (80 kg)



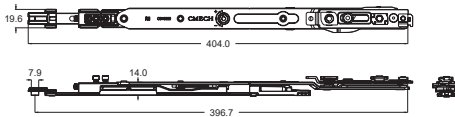
C040048
400 Upper Hinge Right (80 kg)



C040049
490 Upper Hinge Left (90 kg)

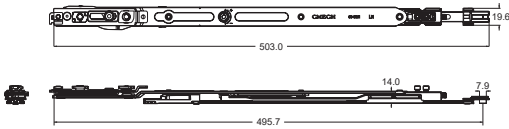


C040050
490 Upper Hinge Right (90 kg)

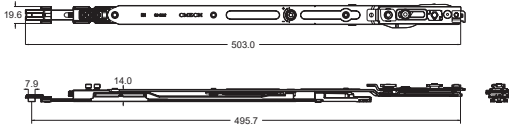


TILT & TURN WINDOW HARDWARE

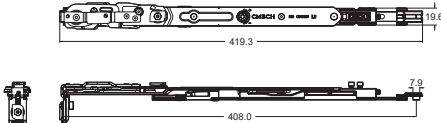
C040051
650 Upper Hinge Left (90 kg)



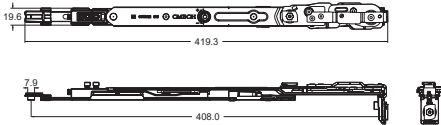
C040052
650 Upper Hinge Right (90 kg)



C040031
500 Upper Hinge Left (130 kg)



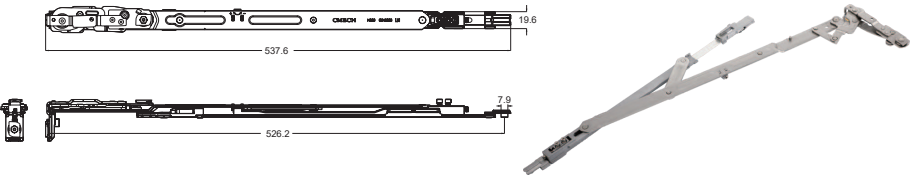
C040032
500 Upper Hinge Right (130 kg)



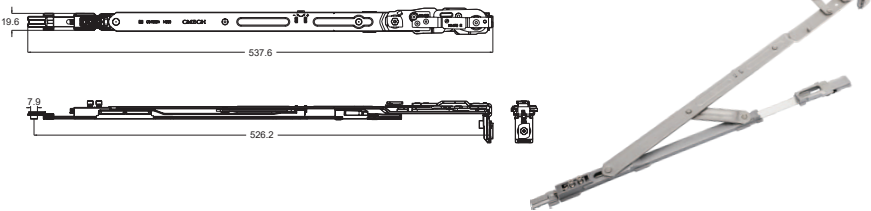


TILT & TURN WINDOW HARDWARE

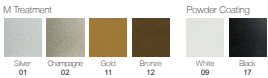
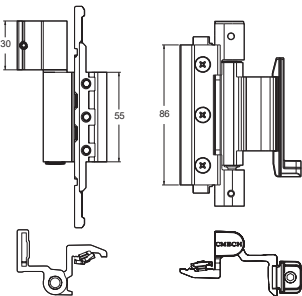
C040033
650 Upper Hinge Left (130 kg)



C040034
650 Upper Hinge Right (130 kg)



C040005
Upper and Lower Hinges



Lift & Slide Door Hardware

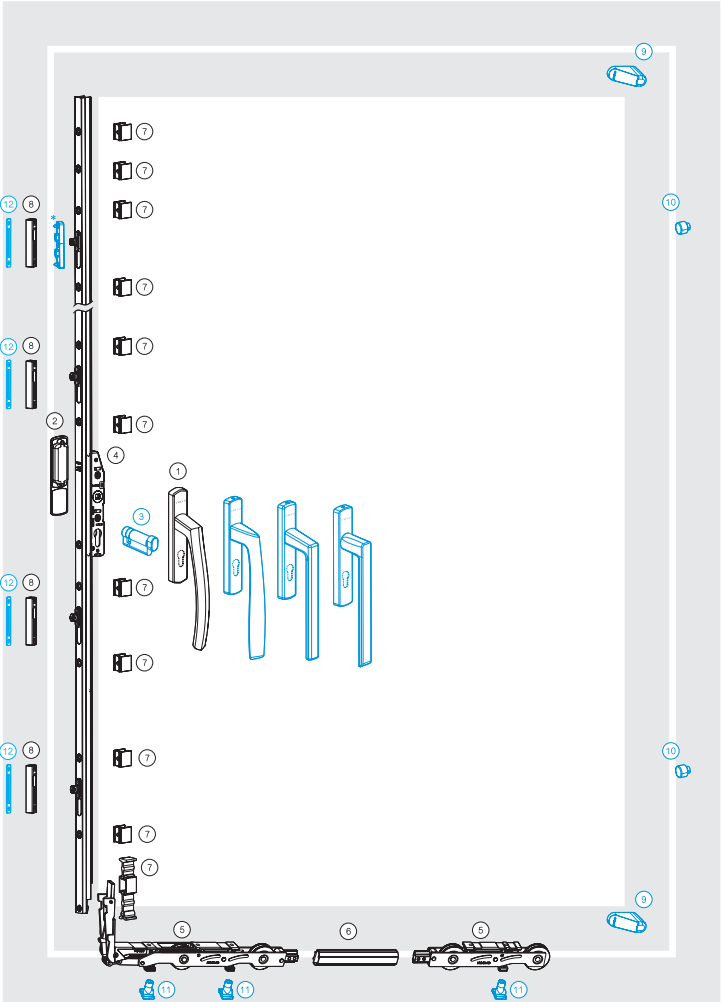


- The handles are available in many styles and colors
- The handle over time will self-adjust to always maintain a tight and wobble-free fit
- Patented lift mechanism with gear design requires the least amount of force to raise door panel
- Patented handle mechanism features speed reduction operation to avoid dangerous rebound

Lift & Slide Door	Applicable Range
Sash Width	(mm) 720-3,300
Sash Height	(mm) 1,800-2,700
Load-bearing	(kg) 220-450
Distance of the Centerline of Handle to the Roller Carriage Attachment Surface	(mm) 955
Distance of the Centerline of Handle to the Espagnolette Surface	(mm) 37.5,27.5



LIFT & SLIDE DOOR HARDWARE SERIES
Spindle Drive Handle (Type LS) Configuration (300 kg)



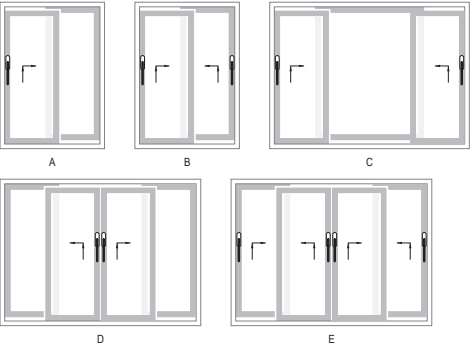
* Installation tool used to mark strike hole position F120003



LIFT & SLIDE DOOR HARDWARE SERIES
Configuration Table - Spindle Drive Handle (Type LS) (300 kg)

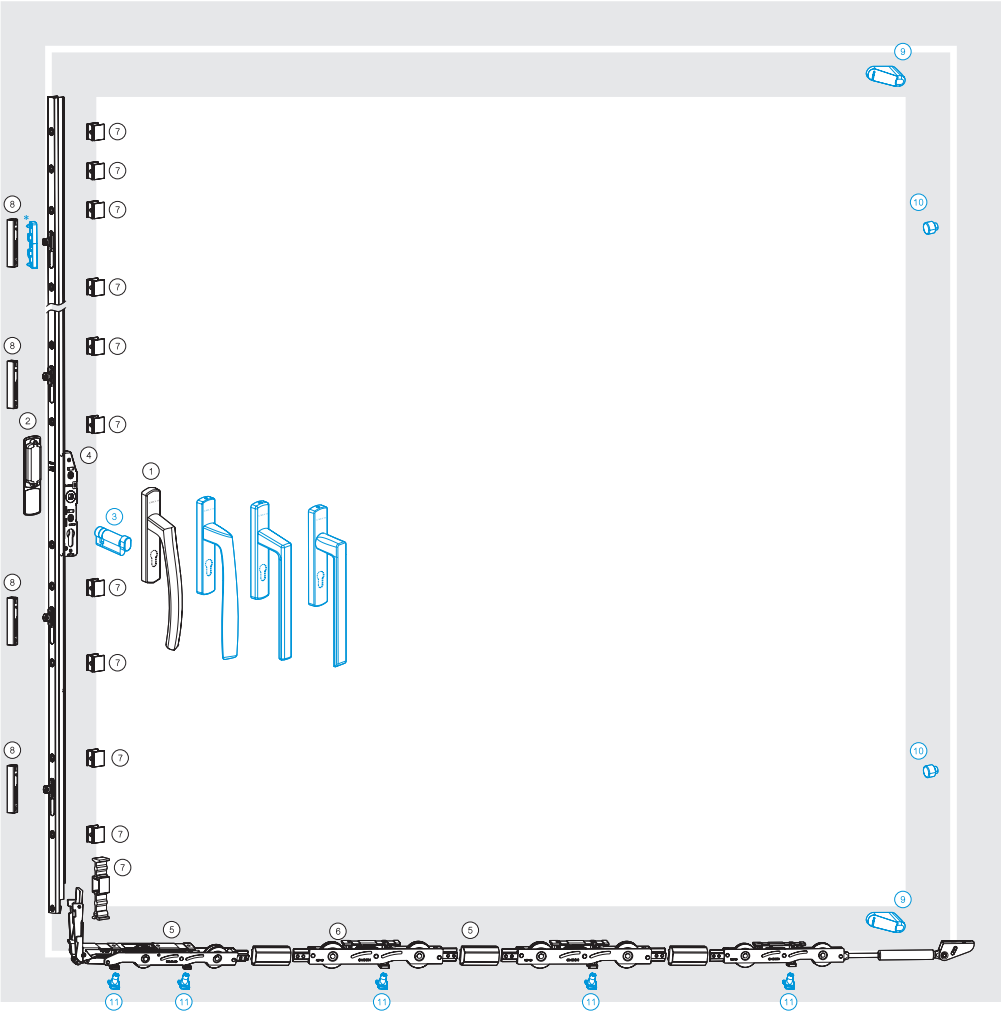
No.	Description	P/N	Qty					Notes	Ref. Page
			A	B	C	D	E		
1	Spindle Drive Handle (Type LS)	F800001 F800002 F800004 F800022 F800023 F800025 F800031	1	2	2	2	4	Multiple Types Available	P158, P159
2	Recessed Handle	F010601 F010602	1	2	2	2	4	V Series U Series	P160
3	Cylinder		1	2	2	1	3		P272, P273
4	Espagnolette with Tilt Lock Point	F020008 F020009 F020010	1	2	2	2	4	2,000 mm, Door Height 1,800-2,100 2,300 mm, Door Height 2,101-2,400 2,600 mm, Door Height 2,401-2,700	P162
5	Front and Rear Rollers	F800016	1	2	2	2	4	Channel Width 22 mm	P160
6	Connecting Rod	F020004 F020005 F020006 F020007	1	2	2	2	4	850 mm, Door Width 720-1,500 1,350 mm, Door Width 1,501-2,000 1,850 mm, Door Width 2,001-2,500 2,650 mm, Door Width 2,501-3,300	P161
7	Spacer Pack	F140009 F140003	1	2	2	2	4	Plastic Spacer Height 12 mm Plastic Spacer Height 17 mm	P165
8	Locking Keeper	F100006 F100007 F100008 F100010 F100011 F100012 F100013 F100015	4	8	8	4	12		P163, P164
9	Panel Stop	F080001	0	1	0	0	2	Installation Height: 42 mm	P165
10	Rubber Stop	F080002	1	0	1	2	0	Hole Size Ø13 mm (2 Pack)	P165
11	Keeper Spacer	F110008	1	2	2	2	4		P165
12	Spacer Pack	F140010	/	/	/	/	/	The thickness of the spacer pack is 2 mm, the spacer pack is recommended to be no more than 3 pcs based on the profile and the configuration	
13	Screw Pack	F110011	1	2	2	2	4	12 mm/17 mm Spacer Pack is Suitable	
14	Handle Screw Pack		1	2	2	2	4	Reference P147	
15	Spindle Screw Pack		1	2	2	2	4	Reference P147	

Door Configurations





LIFT & SLIDE DOOR HARDWARE SERIES
Spindle Drive Handle (Type LS) Configuration (450 kg)



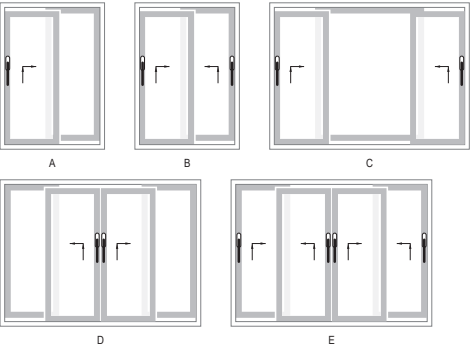
* Installation tool used to mark strike hole position F120003



LIFT & SLIDE DOOR HARDWARE SERIES
Configuration Table - Spindle Drive Handle (Type LS) (450 kg)

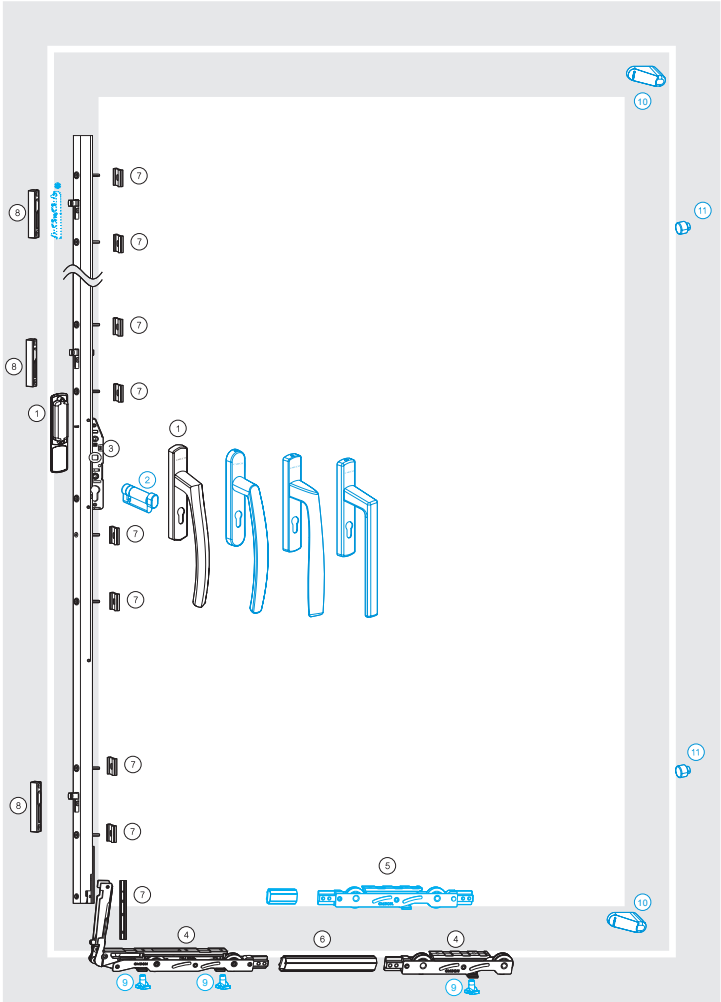
No.	Description	P/N	Qty					Notes	Ref. Page
			A	B	C	D	E		
1	Spindle Drive Handle (Type LS)	F800001 F800002 F800004 F800022 F800023 F800025 F800031	1	2	2	2	4	Multiple Types Available	P158, P159
2	Recessed Handle	F010601 F010602	1	2	2	2	4	V Series U Series	P160
3	Cylinder		1	2	2	1	3		P272, P273
4	Espagnolette with Tilt Lock Point	F020016 F020017 F020019 F020020	1	2	2	2	4	2,300 mm, Door Height 2,101-2,400, Gas Spring 2,600 mm, Door Height 2,401-2,700, Gas Spring 2,300 mm, Door Height 2,101-2,400, Metal Spring + Gas Spring 2,300 mm, Door Height 2,401-2,700, Metal Spring + Gas Spring	P162
5	Front and Rear Rollers	F050004	1	2	2	2	4	Channel Width 22 mm	P160
6	Auxiliary Rollers	F500003	1	2	2	2	4	One Additional Roller for Sash Width 1200 mm, Two Additional Roller for Sash Width 1200 mm	P161
7	Connecting Rod	F020004 F020005 F020006 F020007	1	2	2	2	4	850 mm, Door Width 720-1,500 1,350 mm, Door Width 1,501-2,000 1,850 mm, Door Width 2,001-2,500 2,650 mm, Door Width 2,501-3,300	P161
8	Spacer Pack	F140009 F140003	1	2	2	2	4	Plastic Spacer Height 12 mm Plastic Spacer Height 17 mm	P165
9	Locking Keeper	F100006 F100007 F100008 F100010 F100011 F100012 F100013 F100015	4	8	8	4	12		P163, P164
10	Panel Stop	F080001	0	1	0	0	2	Installation Height: 42 mm	P165
11	Rubber Stop	F080002	1	0	1	2	0	Hole Size Ø13 mm (2 Pack)	P165
12	Keeper Spacer	F110008	1	2	2	2	4		P165
13	Screw Pack	F110011	1	2	2	2	4	12 mm/17 mm Spacer Pack is Suitable	
14	Handle Screw Pack		1	2	2	2	4	Reference P147	
15	Spindle Screw Pack		1	2	2	2	4	Reference P147	

Door Configurations





LIFT & SLIDE DOOR HARDWARE SERIES
Slim Lift & Slide Door Configuration



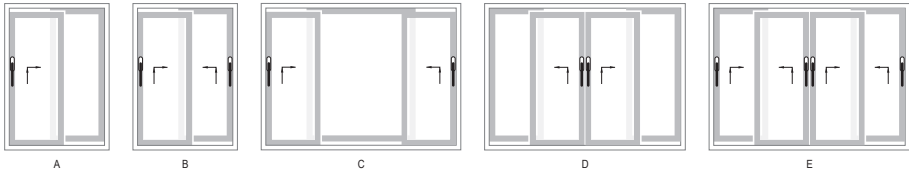
* Installation tool used to mark strike hole position F120003



LIFT & SLIDE DOOR HARDWARE SERIES
Configuration Table - Slim Lift & Slide Door

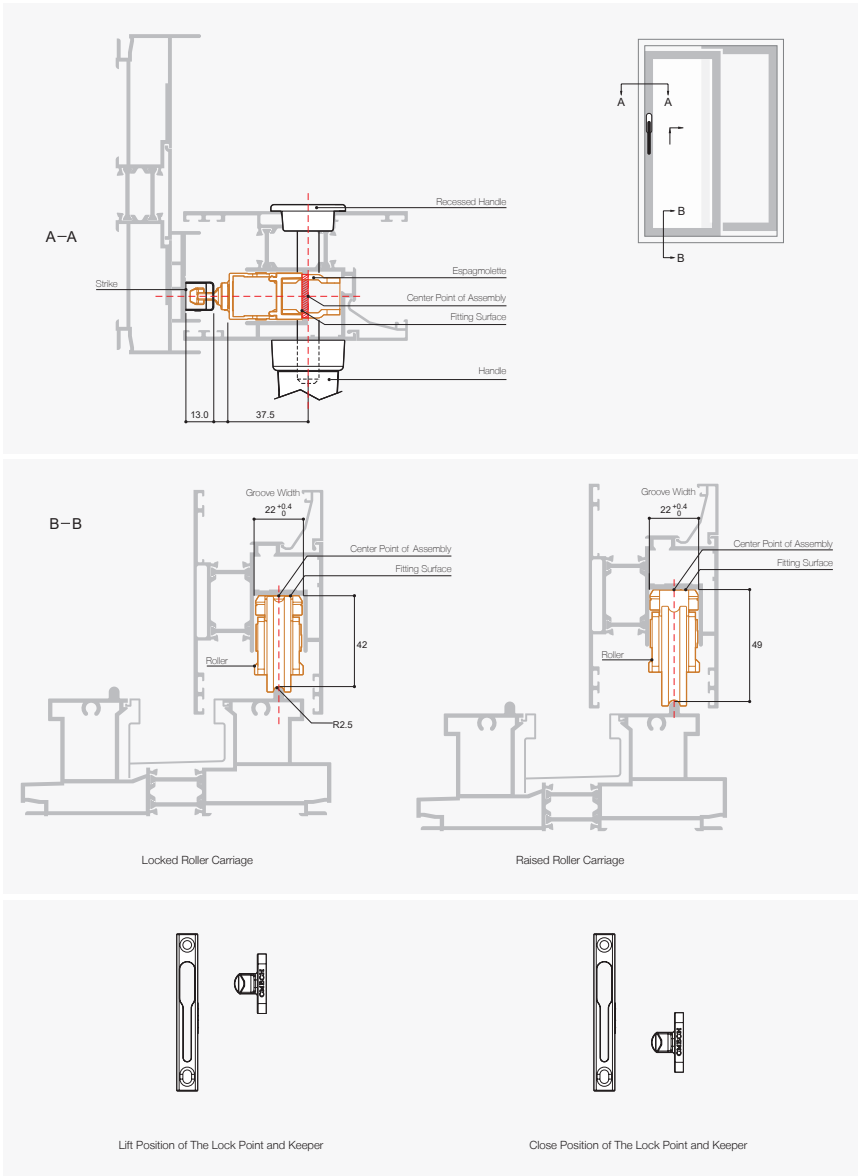
No.	Description	P/N	Qty					Notes	Ref. Page
			A	B	C	D	E		
1	Spindle Drive Handle (Type LS)	F800011 F800012 F800014 F800018 F800019 F800026 F800027 F800029 F800033 F800034	1	2	2	2	4	Multiple Types Available	P158, P159
2	Recessed Handle	F010601 F010602	1	2	2	2	4	V Series U Series	P160
3	Cylinder		1	2	2	1	3		P272, P273
4	Espagnolette with Tilt Lock Point	F020021 F020022 F020023 F020024 F020025 F020026	1	2	2	2	4	2,300 mm,200kg 2,600 mm,200kg 2,300 mm,280kg 2,600 mm,280kg 2,300 mm,380kg 2,600 mm,380kg	P162
5	Front and Rear Rollers	F050006	1	2	2	2	4		P161
6	Auxiliary Rollers	F050008	1	2	2	2	4		P161
7	Connecting Rod	F020004 F020005 F020006 F020007	1	2	2	2	4	850 mm, Door Width 720-1,500 1,350 mm, Door Width 1,501-2,000 1,850 mm, Door Width 2,001-2,500 2,650 mm, Door Width 2,501-3,300	P161
8	Spacer Pack	F140018 F140019 F140020	1	2	2	2	4	Plastic Spacer Height 4 mm Plastic Spacer Height 5 mm Plastic Spacer Height 6.5 mm	P165
9	Locking Keeper	F100006 F100007 F100008 F100010 F100011 F100012 F100013 F100015	4	8	8	4	12		P163, P164
10	Panel Stop	F080001	0	1	0	0	2	Installation Height: 42 mm	P165
11	Rubber Stop	F080002	1	0	1	2	0	Hole Size Ø13 mm (2 Pack)	P165
12	Keeper Spacer	F110015	1	2	2	2	4		P165
13	Screw Pack	F110011	1	2	2	2	4	12 mm/17 mm Spacer Pack is Suitable	
14	Handle Screw Pack		1	2	2	2	4	Reference P147	
15	Spindle Screw Pack		1	2	2	2	4	Reference P147	

Door Configurations

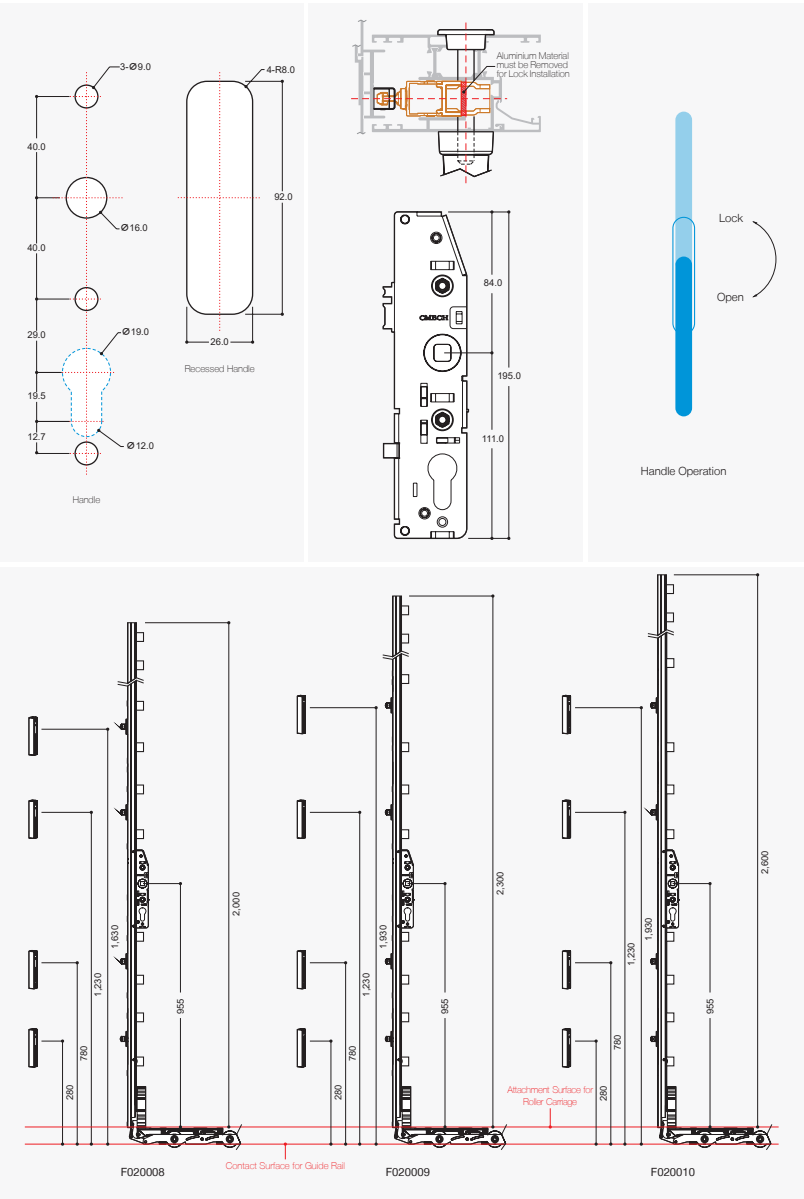




LIFT & SLIDE DOOR PROFILE REQUIREMENTS
Spindle Drive Handle (Type LS) Configuration (300-450 kg)



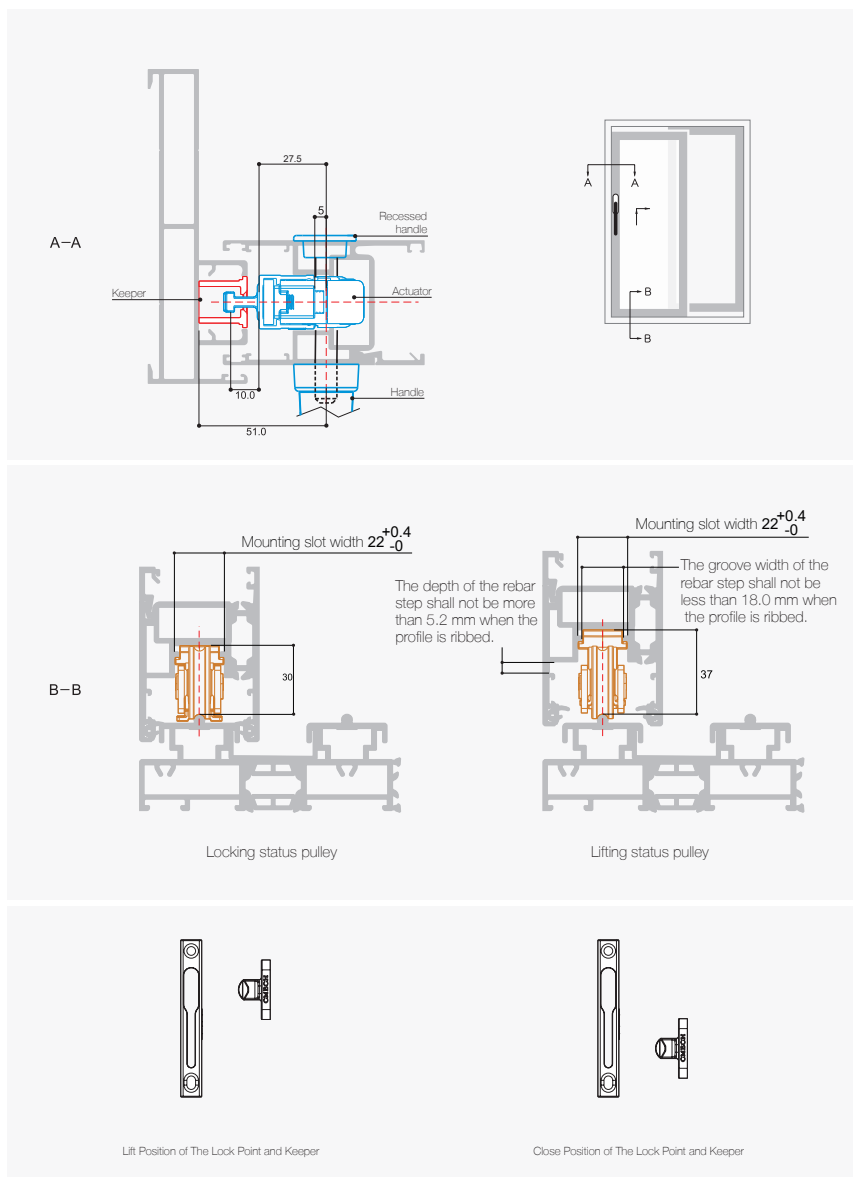
LIFT & SLIDE DOOR DRILLING INSTRUCTIONS
Spindle Drive Handle (Type LS) Configuration (300-450 kg)





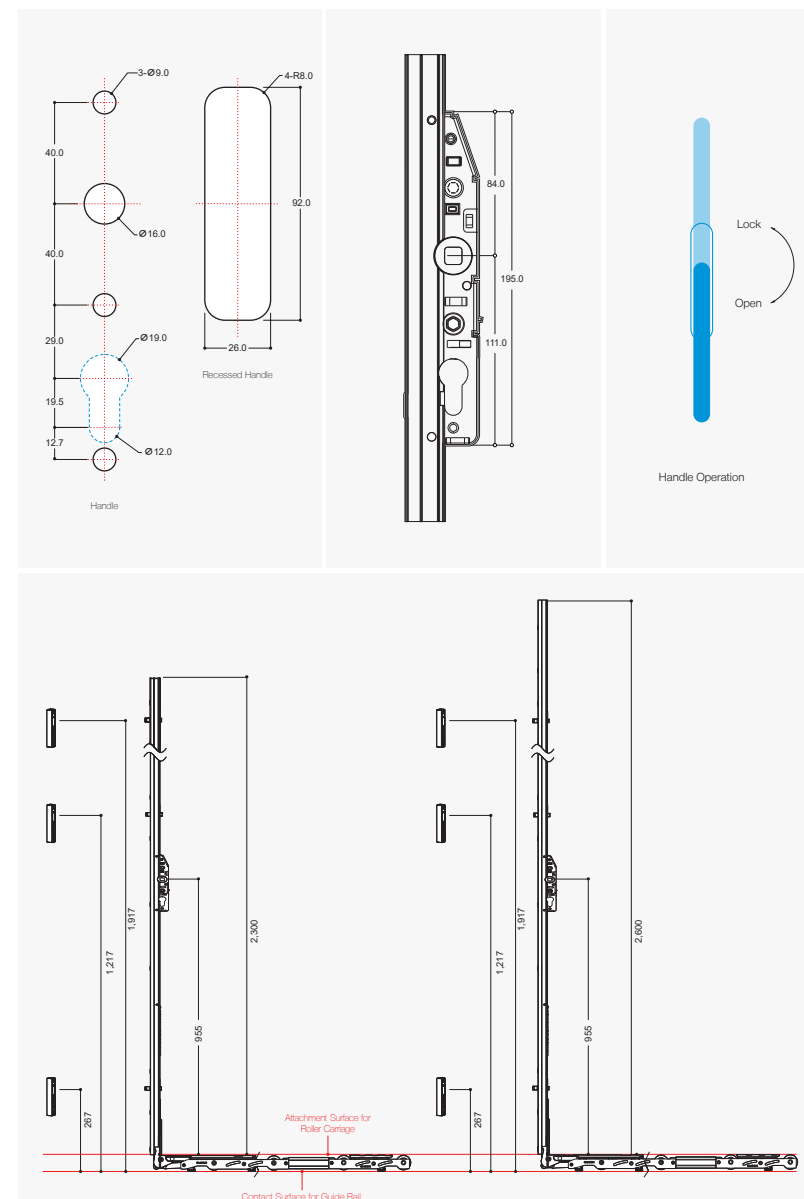
LIFT & SLIDE DOOR PROFILE REQUIREMENTS

Slim Lift & Slide Door Configuration



LIFT & SLIDE DOOR DRILLING INSTRUCTIONS

Slim Lift & Slide Door Configuration





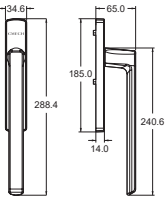
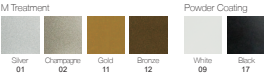
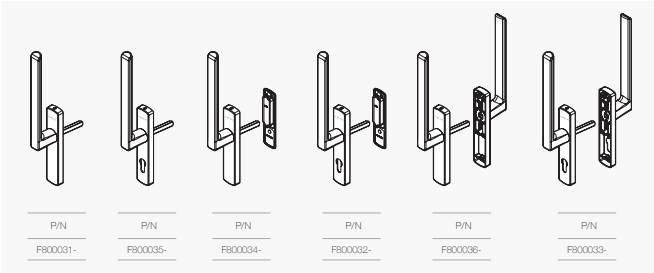
SCREW PACK SELECTIONS

Spindle Screw Pack				Handle Screw Pack			
P/N	Description	Specifications	Qty	P/N	Description	Specifications	Qty
F110023	10x10x50 Spindle Screw Pack	50	1	F110036	M5x40 Cross Screws	40	2
F110024	10x10x55 Spindle Screw Pack	55	1	F110037	M5x50 Cross Screws	50	2
F110025	10x10x60 Spindle Screw Pack	60	1	F110038	M5x55 Cross Screws	55	2
F110026	10x10x65 Spindle Screw Pack	65	1	F110039	M5x60 Cross Screws	60	2
F110027	10x10x70 Spindle Screw Pack	70	1	F110040	M5x65 Cross Screws	65	2
F110028	10x10x75 Spindle Screw Pack	75	1	F110041	M5x70 Cross Screws	70	2
F110029	10x10x80 Spindle Screw Pack	80	1	F110042	M5x75 Cross Screws	75	2
F110030	10x10x85 Spindle Screw Pack	85	1	F110043	M5x80 Cross Screws	80	2
F110031	10x10x90 Spindle Screw Pack	90	1	F110044	M5x85 Cross Screws	85	2
F110032	10x10x95 Spindle Screw Pack	95	1	F110045	M5x90 Cross Screws	90	2
F110033	10x10x100 Spindle Screw Pack	100	1	F110046	M5x95 Cross Screws	95	2
F110034	10x10x105 Spindle Screw Pack	105	1				
F110035	10x10x115 Spindle Screw Pack	115	1				
F110047	10x10x120 Spindle Screw Pack	120	1				

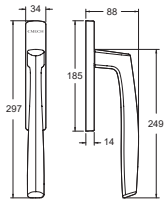
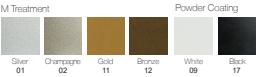
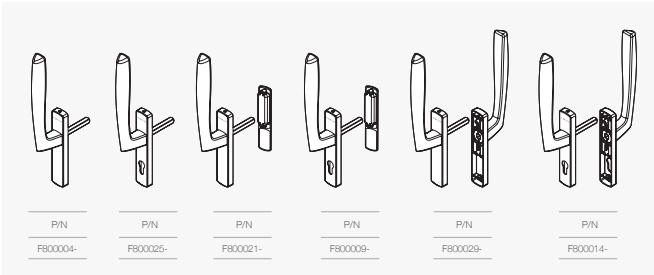


HANDLE SELECTIONS

MILAN SERIES
Spindle Drive Handle (Type LS)



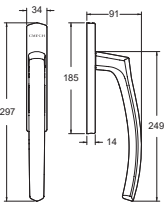
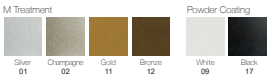
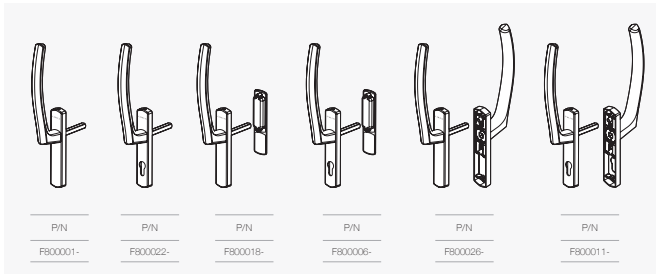
BERLIN SERIES
Spindle Drive Handle (Type LS)



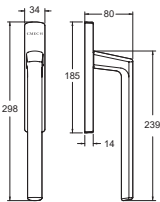
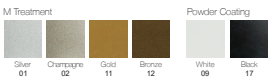
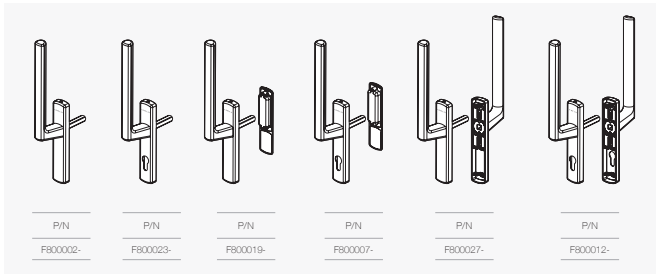


HANDLE SELECTIONS

NEW YORK SERIES
Spindle Drive Handle (Type LS)

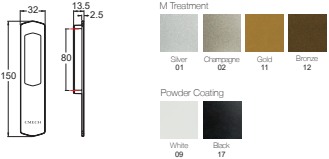


KOLN SERIES
Spindle Drive Handle (Type LS)

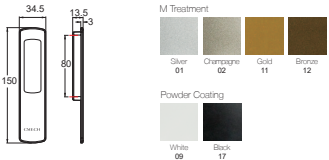


LIFT & SLIDE DOOR HARDWARE

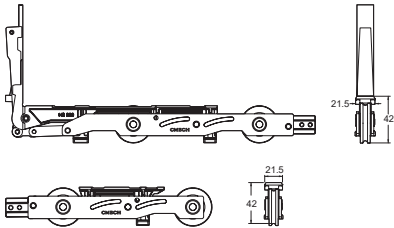
F010601
Recessed Handle (V Series)



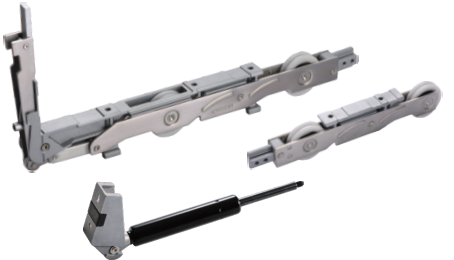
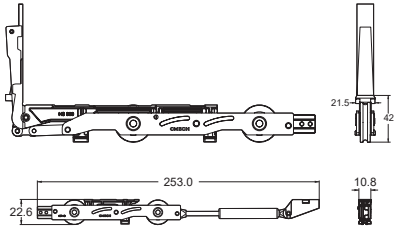
F010602
Recessed Handle (U Series)



F800016
Front and Rear Rollers



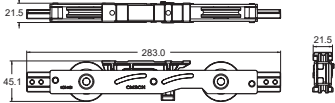
F050004
Front and Rear Rollers



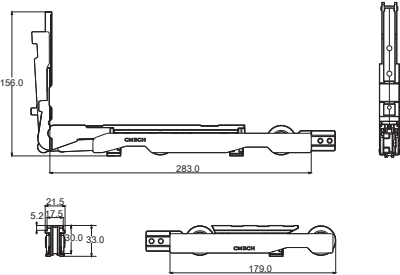


LIFT & SLIDE DOOR HARDWARE

F050003
Auxiliary Roller



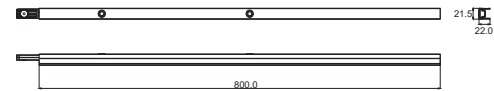
F050006
Front and Rear Rollers



F050008
Auxiliary Roller



F120004
Extender Cover Pack



Connecting Rod

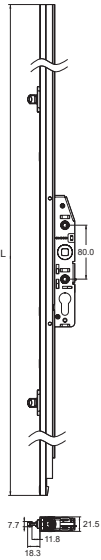


P/N	Door Panel Width Range	Connecting Rod Length (L)
F020004	720 - 1,500 mm	850 mm
F020005	1,501 - 2,000 mm	1,350 mm
F020006	2,001 - 2,500 mm	1,850 mm
F020007	2,501 - 3,300 mm	2,650 mm



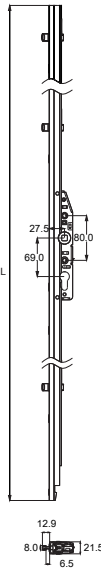
LIFT & SLIDE DOOR HARDWARE

Espagnolette with Tilt Lock Point



P/N	Door Panel Height Range	Espagnolette Length Spec (L)	Door Panel Load-bearing
F020006	1,800-2,100 mm	2,000 mm	300kg
F020009	2,101-2,400 mm	2,300 mm	300kg
F020016			350kg, with Gas Spring
F020019			450kg, with Metal Spring and Gas Spring
F020010	2,401-2,700 mm	2,600 mm	300kg
F020017			350kg, with Gas Spring
F020020			450kg, with Metal Spring and Gas Spring

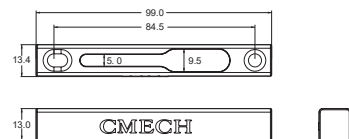
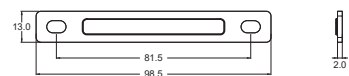
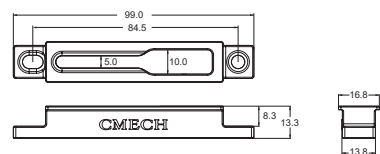
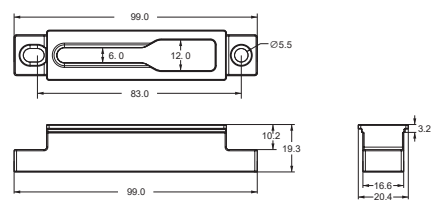
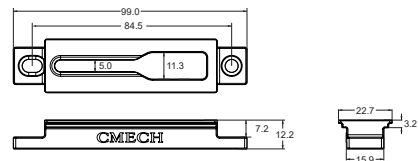
Espagnolette with Tilt Lock Point



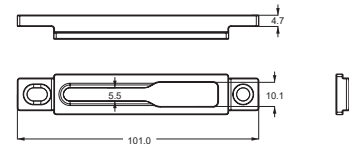
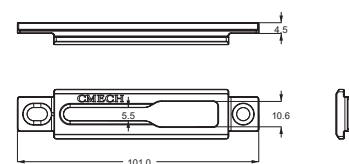
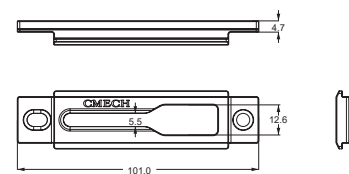
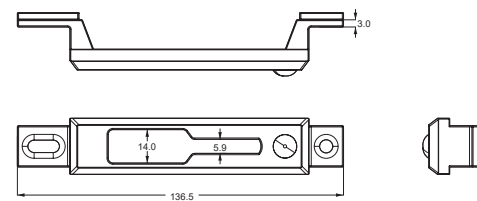
P/N	Door Panel Load-bearing	Espagnolette Length Spec (L)
F020021	200kg	2,300 mm
F020023	280kg	
F020025	360kg	
F020022	200kg	2,600 mm
F020024	280kg	
F020026	360kg	



LIFT & SLIDE DOOR HARDWARE

F100006
13 KeeperF140010
Spacer PackF100007
17 KeeperF100010
21 KeeperF100008
23 Keeper

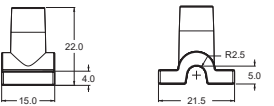
LIFT & SLIDE DOOR HARDWARE

F100011
1710 KeeperF100012
2109 KeeperF100013
2410 KeeperF100015
2424 Keeper



LIFT & SLIDE DOOR HARDWARE

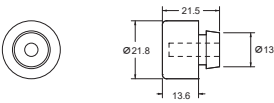
F110008
Rest Block



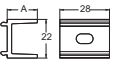
F110015
Rest Block



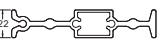
F080002
Rubber Stop



Spacer Pack
1 Long Spacer and 10 Short Spacers Per Pack



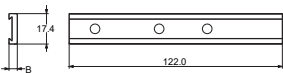
P/N	A Specifications
F140003	17 mm
F140009	12 mm



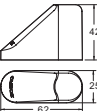
Spacer Pack
1 Long Spacer and 10 Short Spacers Per Pack



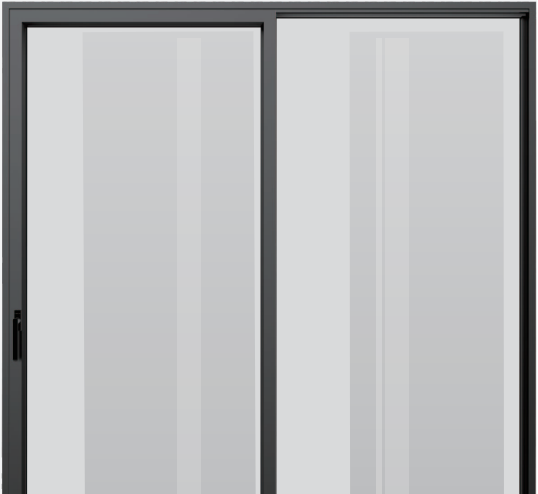
P/N	A Specifications	B Specifications
F140018	4 mm	3.75 mm
F140019	5 mm	4.75 mm
F140020	6.5 mm	6.25 mm



F080001
Panel Stop



Tightly Sealed Sliding Window Hardware

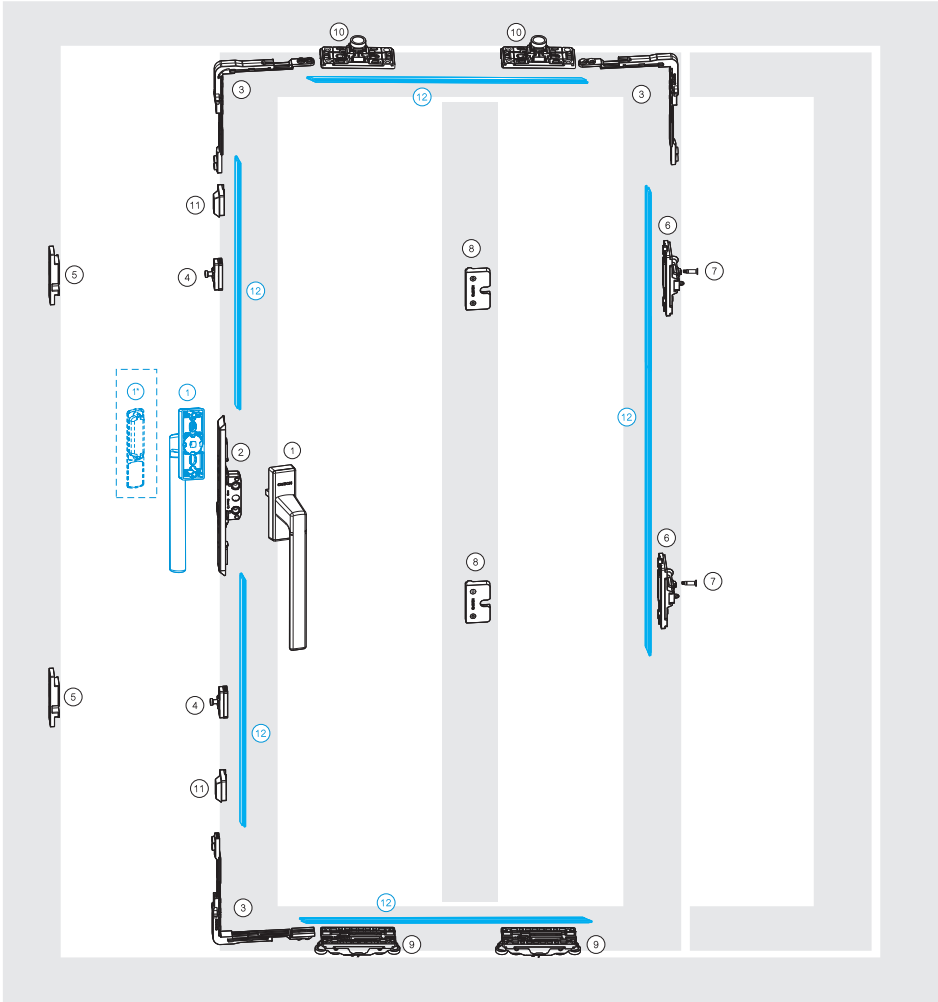


- Innovative structure and easy operation
- Excellent wind resistance and efficient sealing
- Adjustable lock point height, easy and convenient installation
- Double roller configuration, 150kg high load-bearing capacity

Tightly Sealed Sliding Window	Applicable Range
Sash Width (mm)	610-2,800
Sash Height (mm)	990-2,800
Load-bearing (kg)	150



TIGHTLY SEALED SLIDING WINDOW HARDWARE SYSTEM
Spindle Drive Handle Configuration



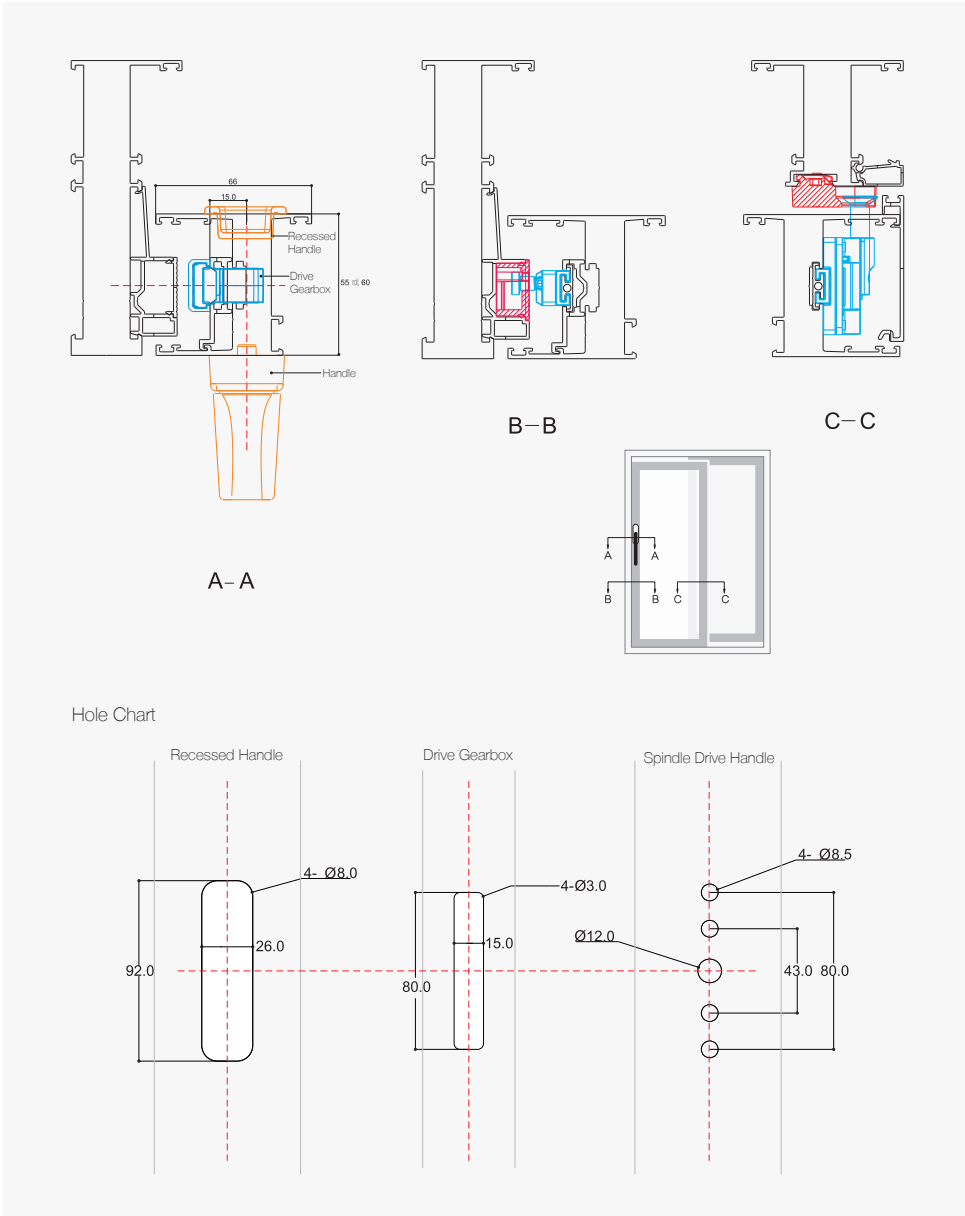
TIGHTLY SEALED SLIDING WINDOW HARDWARE SYSTEM
Configuration Table - Spindle Drive Handle Configuration

No.	Description	P/N	Qty	Notes	Ref. Page
1	Spindle Drive Handle	E010201 E010202 E010604 E010605	1	Kolin Series Single Handle; Width: 37 mm Kolin Series Handle Set; Width: 32 mm Milan Series Single Handle; Width: 32 mm Milan Series Handle Set; Width: 32 mm	P158, P159
1*	Recessed Handle	F010601 F010602	1	V Series U Series	P160
2	Side Compress Drive Gearbox	N020001	1	Hide Center to Attachment Surface: 13 mm	P170
3	Fail-Safe Corner Drive	N060001	3		P170
4	Operable Sash Lock Point	N090005	2	Height Adjustable	P171
5	Operable Sash Keeper	N100001 N100002	2	Suitable for Left-Opening Sash Suitable for Right-Opening Sash	P171
6	Lock Point Seat	N090001 N090002	2	Suitable for Left-Opening Sash Suitable for Right-Opening Sash	P170
7	Hook Operated Sash Lock Point	N090003 N090004 N090006	2	55 Thickness 60 Thickness 65 Thickness	P170
8	Hook Operated Sash Keeper	N100003	2		P171
9	Lower Roller	N050001 N050002	2	Suitable for Left-Opening Sash Suitable for Right-Opening Sash	P172
10	Upper Roller	N050003 N050004	2	Suitable for Left-Opening Sash Suitable for Right-Opening Sash	P172
11	Rubber Stop	N800002	2		P172
12	Fail-Safe Connecting Strip	N020002		Provided by Customer or Cmech	
13	Screw Pack	N110001 N110002			
14	Spindle Screw Pack	N110003 N110004			



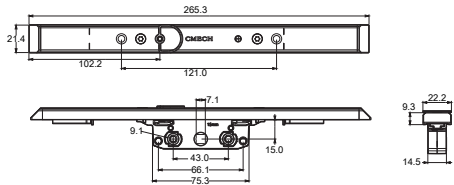
TIGHTLY SEALED SLIDING WINDOW PROFILE REQUIREMENTS AND DRILLING INSTRUCTIONS

Spindle Drive Handle Configuration

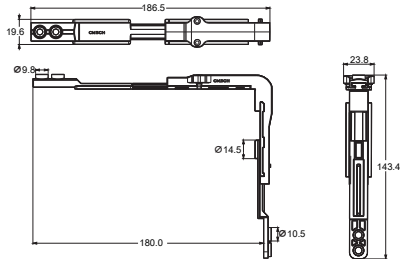


TIGHTLY SEALED SLIDING WINDOW HARDWARE

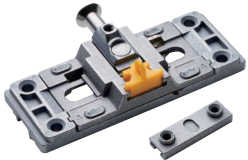
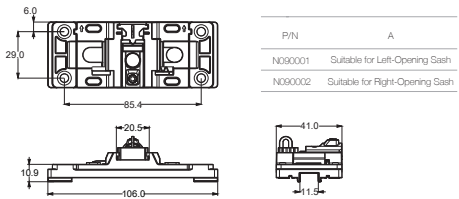
N020001
Side Compress Drive Gearbox (15mm)



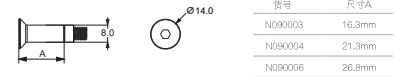
N060001
Side Compress Corner Drive



Hook Operated Sash Lock Point Seat



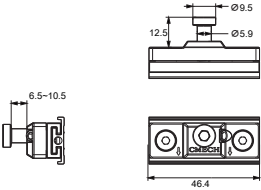
Hook Operated Sash Lock Point



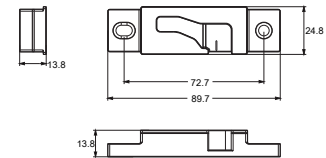


TIGHTLY SEALED SLIDING WINDOW HARDWARE

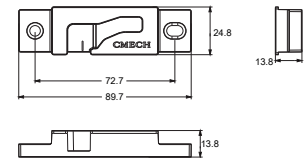
N090005
Operable Sash Adjustable Lock Point



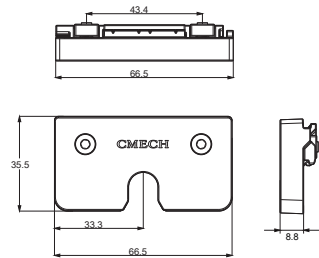
N100001
Operable Sash Keeper (Left)



N100002
Operable Sash Keeper (Right)

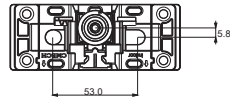


N100003
Hook Operated Sash Keeper

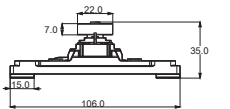


TIGHTLY SEALED SLIDING WINDOW HARDWARE

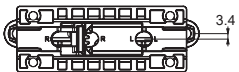
Side Compress Upper Roller



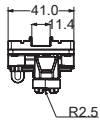
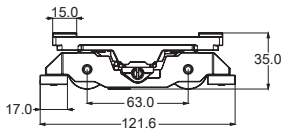
P/N	Description
N050003	Guide Roller (Left)
N050004	Guide Roller (Right)



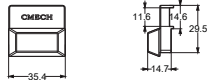
Side Compress Lower Roller



P/N	Description
N050001	Bearing Roller (Left)
N050002	Bearing Roller (Right)



N080002
Rubber Stop



Gliding Door Hardware

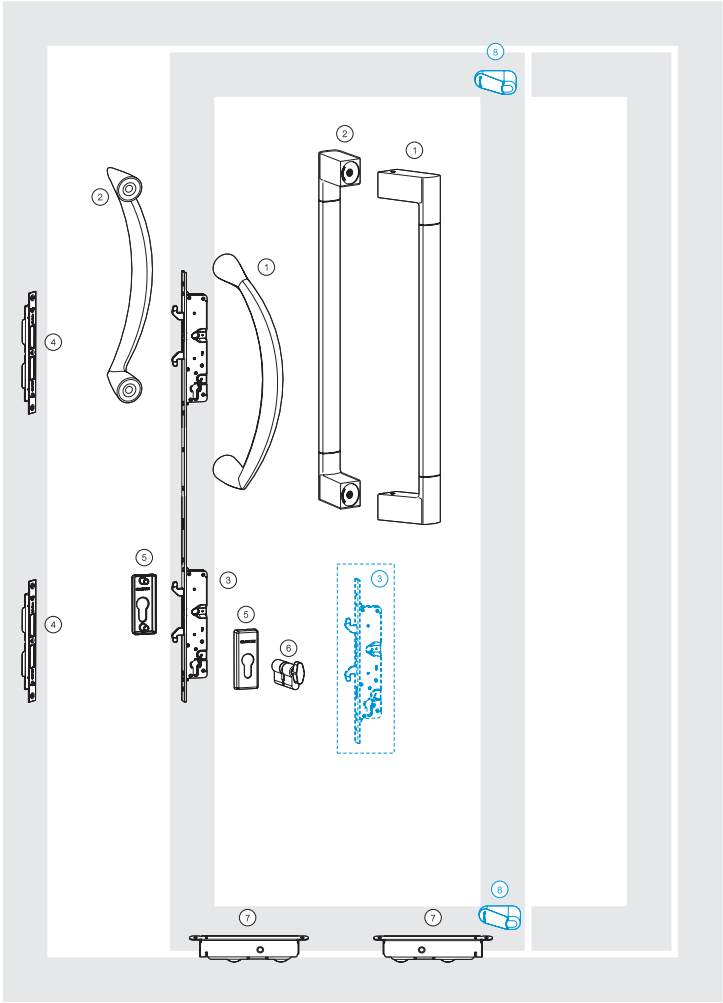


- Various configurations and rollers are available
- Fully concealed screws for a streamline appearance
- Strikes are adjustable and easy to install
- Hook lock design completely seals the door, improving energy efficiency and soundproofing while increasing safety

Gliding Doors		Applicable Range
Sash Width	(mm)	500-1,600
Sash Height	(mm)	1,200-2,700
Load-bearing	(kg)	≤300



GLIDING DOOR HARDWARE SERIES
Multi-Point Hook Lock Configuration

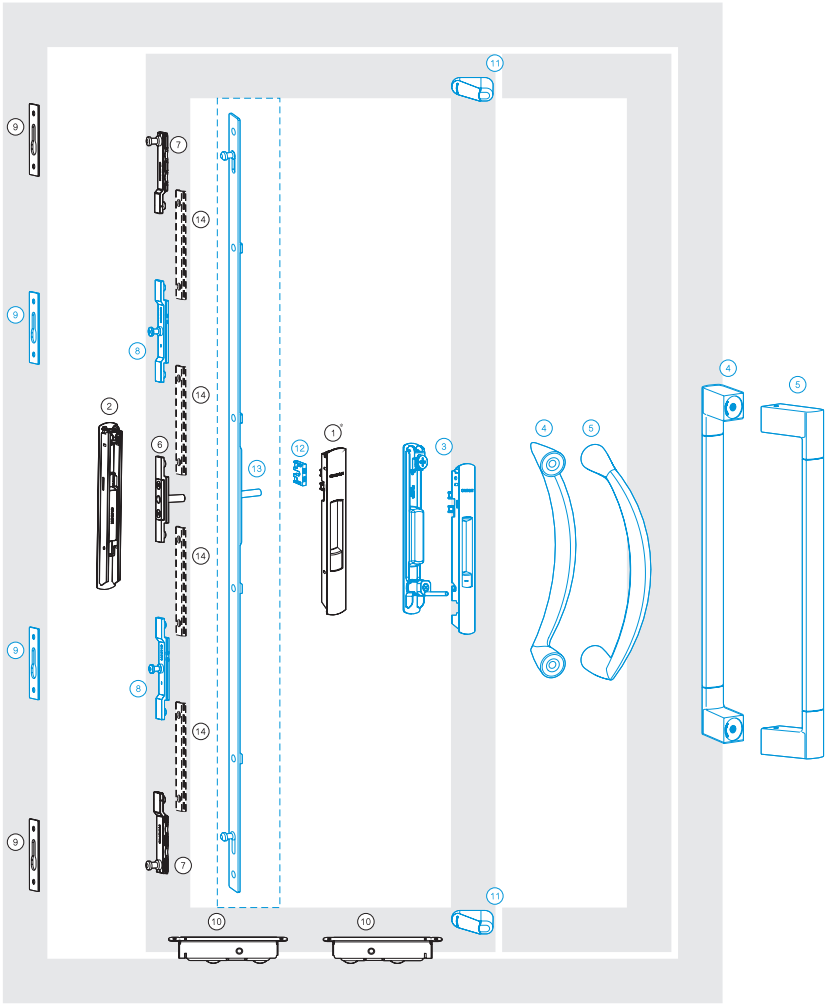


GLIDING DOOR HARDWARE SERIES
Configuration Table - Multi-Point Hook Lock

No.	Description	P/N	Qty	Notes
1	Interior Handle	E010106	1	London Series; Hole Center to Attachment Surface: 260 mm; Height: 70 mm
		E010114		London Series; Hole Center to Attachment Surface: 600 mm
		E010601		Milan Series; Hole Center to Attachment Surface: 400 mm
2	Exterior Handle	E010101	1	London Series; Hole Center to Attachment Surface: 260 mm; Height: 70 mm
		E010115		London Series; Hole Center to Attachment Surface: 600 mm
		E010603		Milan Series; Hole Center to Attachment Surface: 400 mm
3	Multi-Point Hook Lock	E030017 E030016	1	Single Lock Body Double Lock Body
4	Multi-Point Hook Lock Bracket	E100018	1 2	Single Lock Body Double Lock Body
5	Cylinder Cover	E140001 E140002	1	Set Single
6	Cylinder			P211, P212
7	Roller		2	Multiple Types Available
8	Panel Stop	F080001	1	P157, P158, P159, P160
9	Screw Pack			P139



GLIDING DOOR HARDWARE SERIES
Multi-Point Lock Recessed Handle Configuration



*The handle can be replaced with the configurations shown below

- Configuration A: ① + ② + ⑤
Configuration B: ① + ④ + ⑤
Configuration C: ③ + ⑤
Configuration D: ③

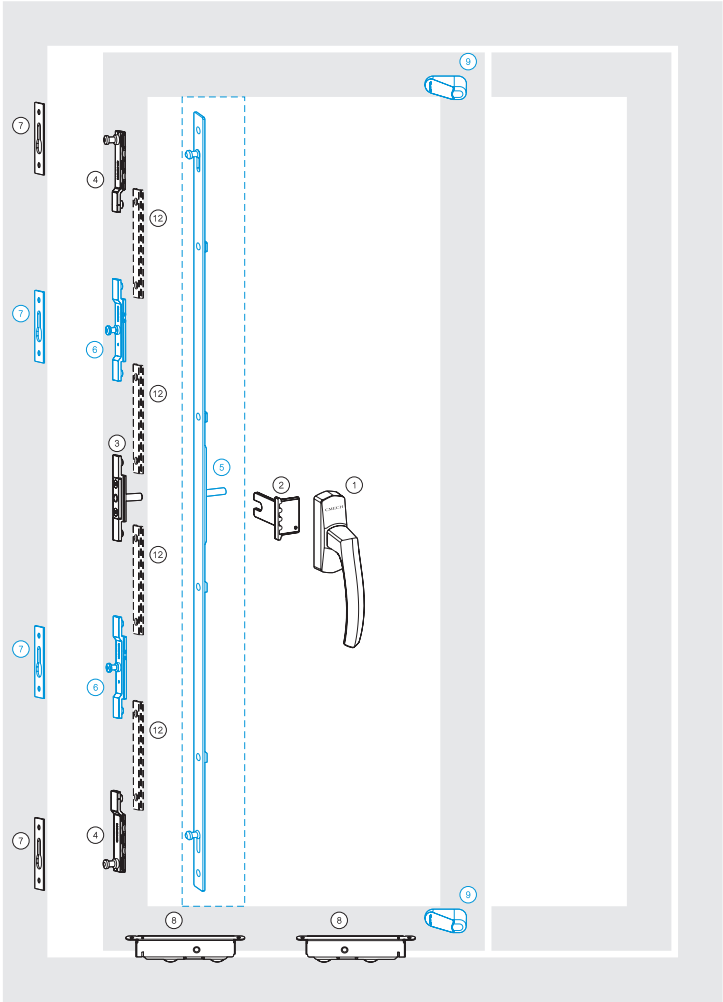


GLIDING DOOR HARDWARE SERIES
Configuration Table - Multi-Point Lock Recessed Handle

No.	Description	P/N	Qty	Notes	Ref. Page
1	Multi-Point Lock Recessed Handle	E010024	1	Interior Keyed Recessed Handle	P198, P199 P200, P201 P202, P203
		E010026		Recessed Handle without Key	
		E010032		Multi-Point Lock Recessed Handle Plus	
		E010039		Multi-Point Lock Recessed Handle (Heavy-duty Double Side)	
		E010040		Multi-Point Lock Recessed Handle (Heavy-duty Single Side)	
		E010041		Multi-Point Lock Recessed Handle (Heavy-duty Single Interior Side)	
2	Fixed Recessed Handle	E010019	1	Aluminum Alloy	P201, P203
		E010023		Zinc Alloy	
		E010033		Fixed Recessed Handle Plus (Aluminum Alloy)	
3	Multi-Point Lock Recessed Handle	E010025		Exterior Keyed Recessed Handle	P203
		E010034		Exterior Keyed Multi-point Lock Recessed Handle Plus	
4	Exterior Handle	E010101	1	London Series; Hole Center to Attachment Surface: 260 mm; Height: 70 mm	P195, P204
		E010115		London Series; Hole Center to Attachment Surface: 600 mm	
		E010603		Milan Series; Hole Center to Attachment Surface: 400 mm	
5	Interior Handle	E010106	1	London Series; Hole Center to Attachment Surface: 260 mm; Height: 70 mm	P195, P204
		E010114		London Series; Hole Center to Attachment Surface: 600 mm	
		E010601		Milan Series; Hole Center to Attachment Surface: 400 mm	
6	Intermediate Drive	E020001	1	23.5 mm	P99, 209
		E020010		15.5 mm	
		E020011		19.5 mm	
		E020012		27.5 mm	
		E020013		31.5 mm	
		E020014		35.5 mm	
		A020115		14.5 mm	
		A020116		18.5 mm	
		A020117		22.5 mm	
		A020126		26.5 mm	
		A020127		30.5 mm	
		A020128		34.5 mm	
7	End Lock Point	E090001	2	End Lock Point	P208
		E090003		End Lock Point	
		E090007		Eccentricity Adjustable End Lock Point	
		E090009		Height Adjustable End Lock Point	
		E090011		Height Adjustable End Lock Point(Heavy-duty)	
8	Double-Ended Lock Point	E090002	0~2	Central Lock Point	P208
		E090004		Central Lock Point	
		E090006		Eccentricity Adjustable Central Lock Point	
		E090008		Height Adjustable Central Lock Point	
		E090012		Height Adjustable Central Lock Point(Heavy-duty)	
9	Strike	E100001	2~4		P207
		E100006			
		E100009			
		E100011			
		E100013			
		E100015			
		E100016			
		E100017			
		E100019			
10	Roller		2	Multiple Types Available	P210, P211 P212, P213
11	Panel Stop	F060001	1		P165
12	Recessed Handle Fork Drive Extender	E120002	1	Lock Recessed Handle	P214
		E010035		Fork Drive Extender for Recessed Handle Plus	
13	Drive Gear	B030014	1	Width: 22 mm	P205
		B030015		Width: 16 mm	
14	Connecting Strip			Provided by Customer or Cmech	
15	Screw Pack				P187



GLIDING DOOR HARDWARE SERIES
Fork Drive Handle Configuration

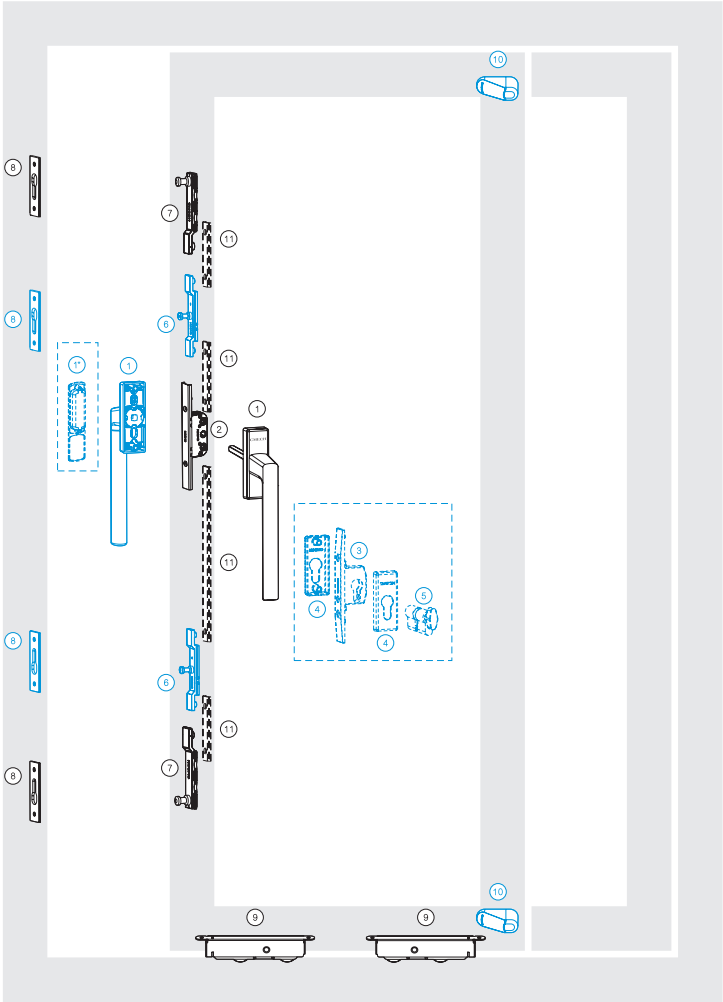


GLIDING DOOR HARDWARE SERIES
Configuration Table - Fork Drive Handle

No.	Description	P/N	Qty	Notes	Ref. Page
1	Spindle and Fork Drive Handle (Type W)	A010448 A010407 A010214 A010211 A010125 A010108	1	Berlin Series, Suitable for Central Fork Drive, Aluminum Alloy Berlin Series, Suitable for Central Fork Drive, Zinc Alloy Kohn Series, Suitable for Central Fork Drive, Aluminum Alloy Kohn Series, Suitable for Central Fork Drive, Zinc Alloy New York Series, Suitable for Central Fork Drive, Aluminum Alloy New York Series, Suitable for Central Fork Drive, Zinc Alloy	P83, P84, P85, P86, P88
2	Fork Drive	A110107 A110106 A110109 A110110	1	21 mm 27 mm 31 mm 33 mm	P89
3	Intermediate Drive	E020001 E020010 E020011 E020012 E020013 E020014 A020115 A020116 A020117 A020126 A020127 A020128 A020129	1	23.5 mm 15.5 mm 19.5 mm 27.5 mm 31.5 mm 35.5 mm 14.5 mm 18.5 mm 22.5 mm 26.5 mm 30.5 mm 34.5 mm 11.5 mm	P99, 209
4	End Lock Point	E090001 E090003 E090007 E090009 E090011	2	End Lock Point End Lock Point Eccentricity Adjustable End Lock Point Height Adjustable End Lock Point Height Adjustable End Lock Point(Heavy-duty)	P208
5	Drive Gear	E030014 E030015	1	Width: 22 mm Width: 16 mm	P152
6	Double-Ended Lock Point	E090002 E090004 E090006 E090008 E090012	0-2	Central Lock Point Central Lock Point Eccentricity Adjustable Central Lock Point Height Adjustable Central Lock Point Height Adjustable Central Lock Point(Heavy-duty)	P208
7	Strike	E100001 E100006 E100009 E100011 E100013 E100015 E100016 E100017 E100019	2-4		P207
8	Roller		2	Multiple Types Available	P210, P211 P212, P213
9	Panel Stop	F080001	1		P165
10	Connecting Strip			Provided by Customer or Cmech	P187
11	Screw Pack				



GLIDING DOOR HARDWARE SERIES
Spindle Drive Handle Configuration

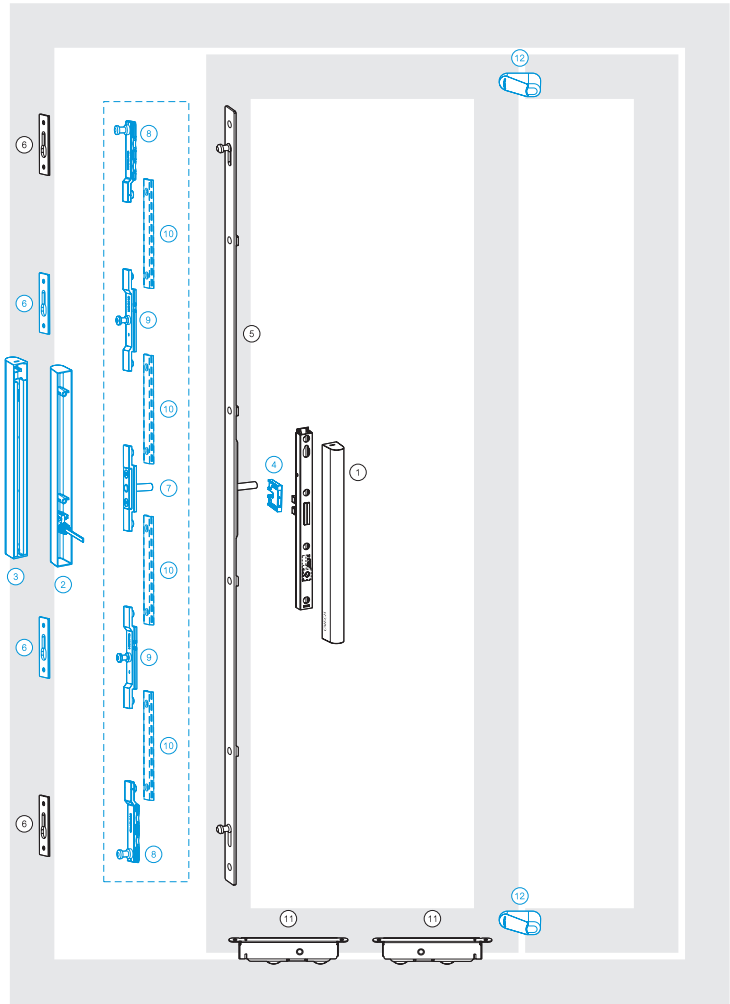


GLIDING DOOR HARDWARE SERIES
Configuration Table - Spindle Drive Handle

No.	Description	P/N	Qty	Notes	Ref. Page
1	Spindle Drive Handle (Type SD)	E010201 E010203 E010202 E010204 E040604 E010605	1	Kohn Series Single Handle; Width: 32 mm Kohn Series Single Handle; Width: 37 mm Kohn Series Handle Set; Width: 32 mm Kohn Series Handle Set; Width: 37 mm Milan Series Handle Set; Width: 32 mm Milan Series Handle Set; Width: 32 mm	P196
1*	Recessed Handle (U Series)	F010602	1		P160
2	Bi-Directional Spindle Drive Gearbox	A020101 A020103	1	Hole Center to Attachment Surface: 25 mm Hole Center to Attachment Surface: 30 mm	P206
3	Locking Gearbox Housing (Only match with Bi-Directional Spindle Drive Gearbox)	E030008 E030009	1	Hole Center to Attachment Surface: 25 mm Hole Center to Attachment Surface: 30 mm	P206
4	Cylinder Cover	E140001 E140002	1	Set Single	
5	Cylinder		1	Suitable for Locking Gearbox Housing	P272, P273
6	Double-Ended Lock Point	E090002 E090004 E090006 E090008 E090012	0-2	Central Lock Point Central Lock Point Eccentricity Adjustable Central Lock Point Height Adjustable Central Lock Point Height Adjustable Central Lock Point(Heavy-duty)	P208
7	End Lock Point	E090001 E090003 E090007 E090009 E090011	2	End Lock Point End Lock Point Eccentricity Adjustable End Lock Point Height Adjustable End Lock Point Height Adjustable End Lock Point(Heavy-duty)	P208
8	Strike	E100001 E100006 E100009 E100011 E100013 E100015 E100016 E100017 E100019	2-4		P207
9	Roller		2	Multiple Types Available	P210, P211 P212, P213
10	Panel Stop	F080001	1		P165
11	Connecting Strip			Provided by Customer or Cmech	
12	Screw Pack				P187



GLIDING DOOR HARDWARE SERIES
Spindle Drive Handle Configuration



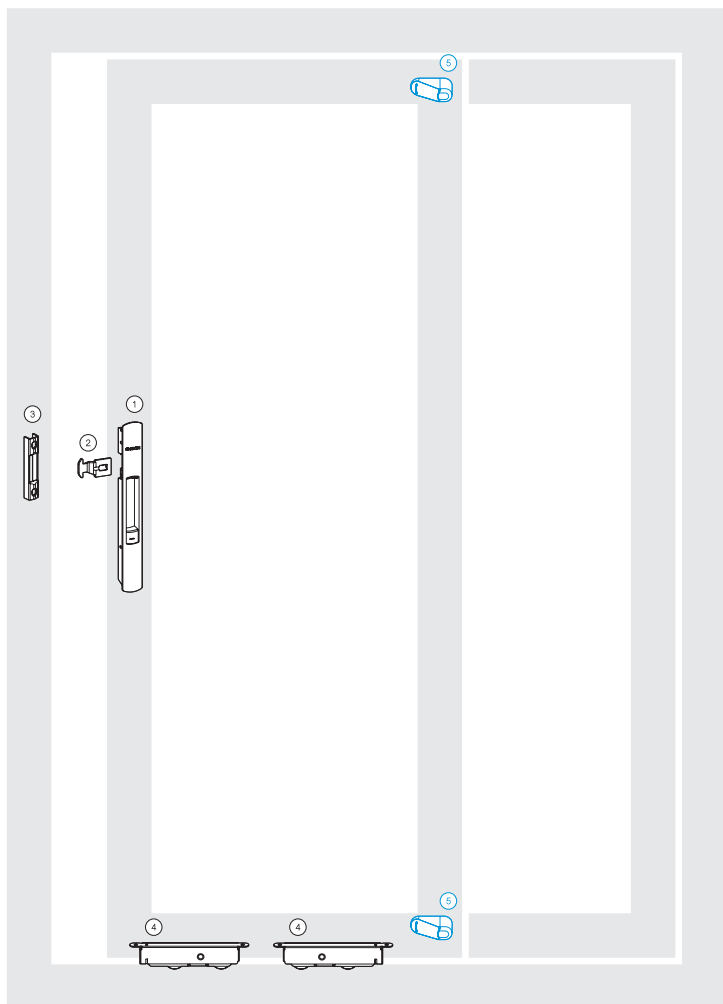
GLIDING DOOR HARDWARE SERIES
Configuration Table - Metro Handle

No.	Description	P/N	Qty	Notes	Ref. Page
1	Metro Handle	E010036	1	Height: 30 mm	P197
2	Metro Handle Set Key	E010037	1	Height: 30 mm	P197
3	Fixed Metro Handle	E010004	1	Height: 30 mm	P197
4	Metro Handle Fork Drive Extender	E120001			P214
5	Drive Gear	E030014 E030015	1	Width: 22 mm Width: 16 mm	P205
6	Strike	E100001 E100006 E100009 E100011 E100013 E100016 E100017 E100019	2-4		P207
7	Intermediate Drive	E020001 E020010 E020011 E020012 E020013 E020014 A020115 A020116 A020117 A020126 A020127 A020128 A020129	1	23.5 mm 15.5 mm 19.5 mm 27.5 mm 31.5 mm 35.5 mm 14.5 mm 18.5 mm 22.5 mm 26.5 mm 30.5 mm 34.5 mm 11.5 mm	P99, P206
8	End Lock Point	E090001 E090003 E090007 E090009 E090011	2	End Lock Point End Lock Point Eccentricity Adjustable End Lock Point Height Adjustable End Lock Point Height Adjustable End Lock Point(Heavy-duty)	P208
9	Double-Ended Lock Point	E090002 E090004 E090006 E090008 E090012	0-2	Central Lock Point Central Lock Point Eccentricity Adjustable Central Lock Point Height Adjustable Central Lock Point Height Adjustable Central Lock Point(Heavy-duty)	P208
10	Connecting Strip			Provided by Customer or Cmech	
11	Roller		2	Multiple Types Available	P210, P211 P212, P213
12	Panel Stop	F080001	1		P165
13	Screw Pack				P187



GLIDING DOOR HARDWARE SERIES

Single-Point Lock Recessed Handle Configuration



GLIDING DOOR HARDWARE SERIES

Configuration Table - Single-Point Lock Recessed Handle

No.	Description	P/N	Qty	Notes	Ref. Page
1	Single-Point Lock Recessed Handle	E010030	1		P201
		P110002 P110003 P110004 P110005 P110006 P110007			
2	Hook Lock	P110008 P110009 P110010 P110011 P110012 P110013 P110014 P110015	1	Multiple Types Available	P201
		P100001 P100005 P100006 P100007 P100008			
3	Strike	E050001 E050002 E050003 E050004 E050007 E050008 E050011 E050013 E050020 E050021	1		P223
	Roller (Type R) Roller (Type R) Roller (Type R) Roller (Type R) Roller (Type R) Roller (Type R) Roller (Type R) Roller (Type R) Roller (Type R) Roller (Type R)	E050001 E050002 E050003 E050004 E050007 E050008 E050011 E050013 E050020 E050021		1628-2834-R2.5-150 kg 1220-2121-R2.5-120 kg 2426-2532-R2.5-80 kg 2426-2532-R2.5-120 kg 2826-2532-R2.5-80 kg 2826-2532-R2.5-120 kg 2824-2430-R2.5-120 kg 2423-2430-R2.5-120 kg 2323-2226-V150-120 kg 323-23-R2.5-60 kg	
4	Roller (Type R) Roller (Type R) Roller (Type R) Roller (Type V) Roller (Type V) Roller (Type V) Roller (Type V) Roller (Type V) Roller (Type V) Roller (Type V) Roller (Type V) Roller (Type V) Roller (Type V) Roller (Type V) Roller (Type V) Roller (Type V)	E050024 E050025 E050026 E050005 E050006 E050009 E050010 E050012 E050014 E050015 E050017 E050018	2	1521-2027-R2.5-120 kg 1621-2028-R2.5-120 kg 15117-1923-R2.5-120 kg 2426-2633-V150-80 kg 2426-2633-V150-120 kg 2826-2633-V150-80 kg 2826-2633-V150-120 kg 2920-2225-V150-120 kg 2824-2430-V160-120 kg 2423-2430-V160-120 kg 2323-23-V150-60 kg 2323-2226-V150-120 kg	P210, P211 P212, P213
5	Panel Stop	F080001	1		P165
6	Screw Pack				P187

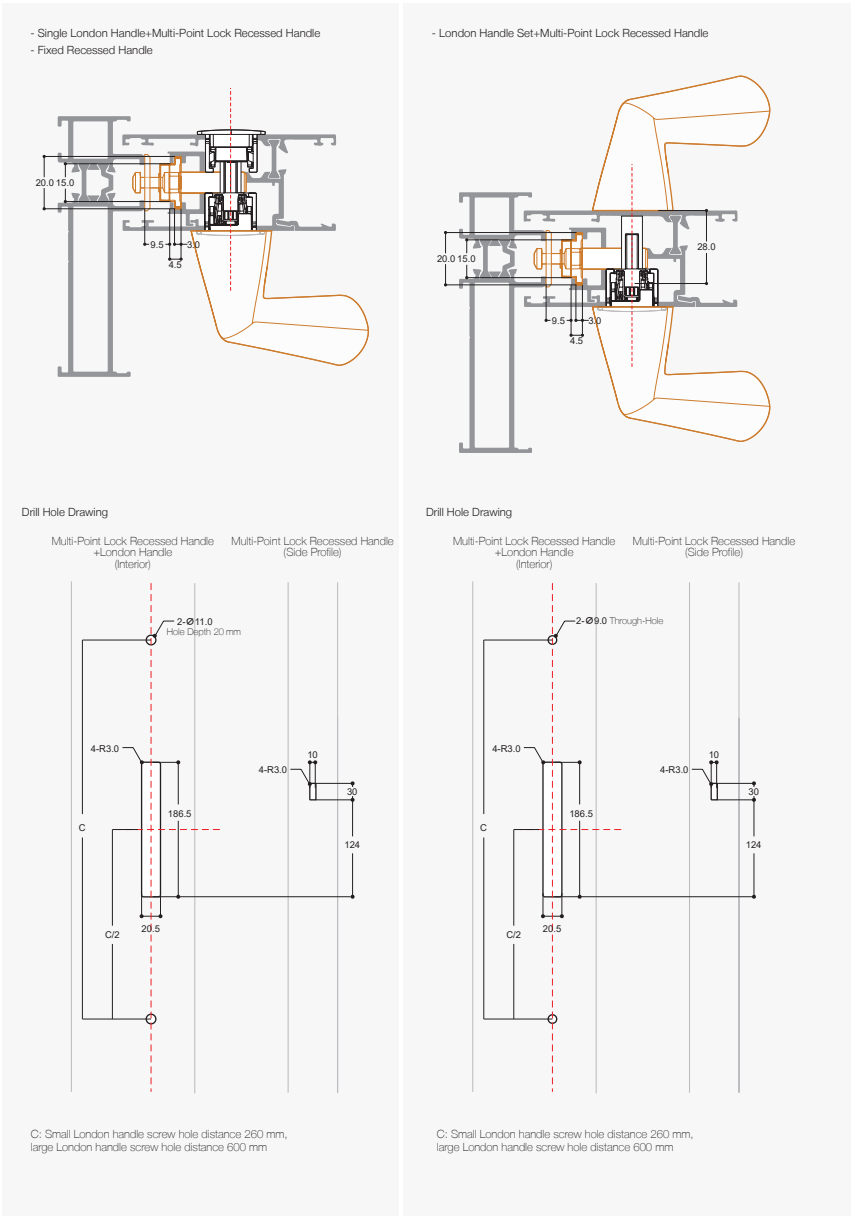
Screw Pack Selections

*The Roller Qty is 2pcs Except for E110009, Which is 1pc.

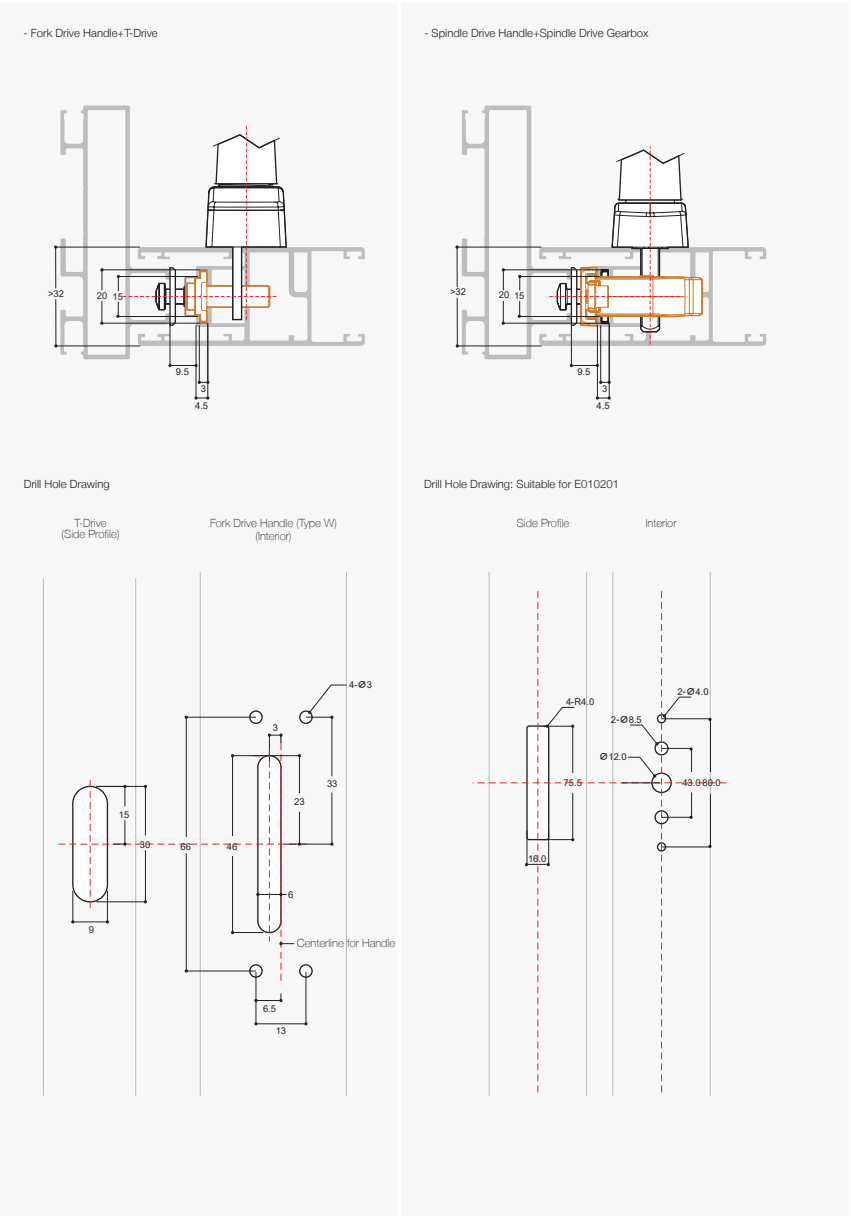
GLIDING DOOR PROFILE AND DRILLING REQUIREMENTS



GLIDING DOOR PROFILE AND DRILLING REQUIREMENTS

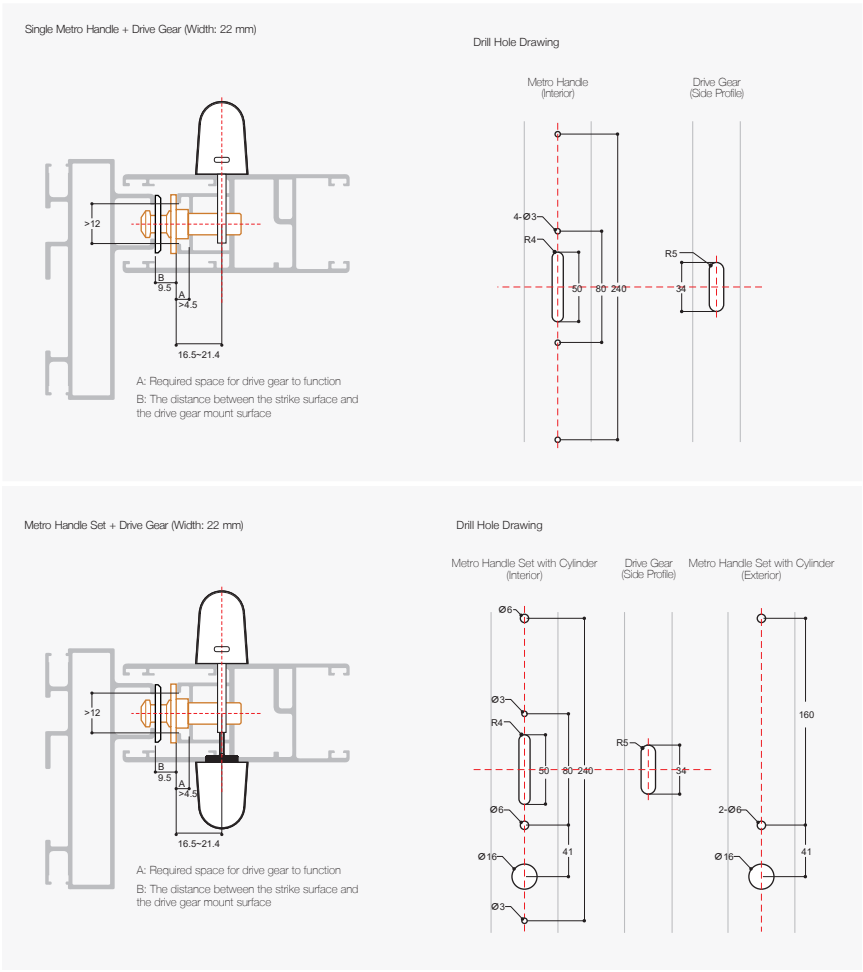


GLIDING DOOR PROFILE AND DRILLING REQUIREMENTS

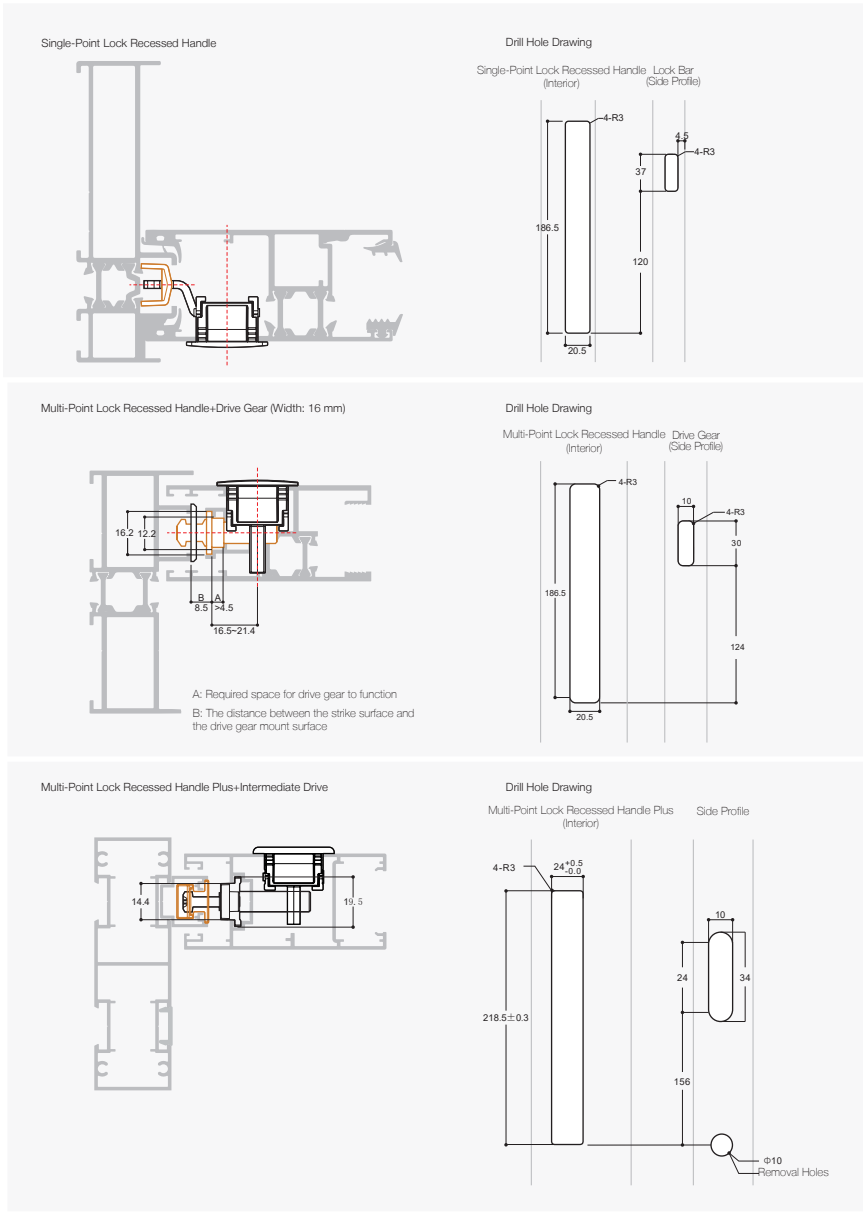




GLIDING DOOR PROFILE AND DRILLING REQUIREMENTS

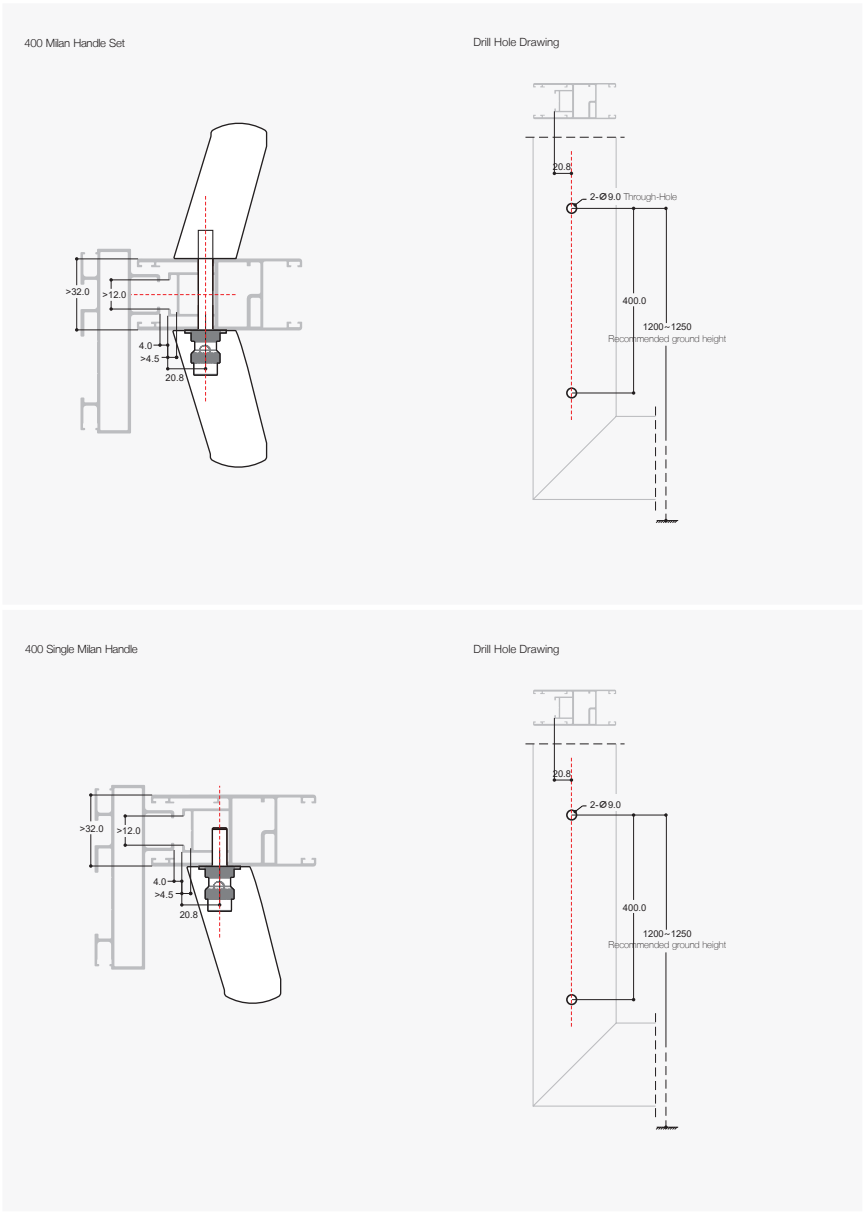


GLIDING DOOR PROFILE AND DRILLING REQUIREMENTS

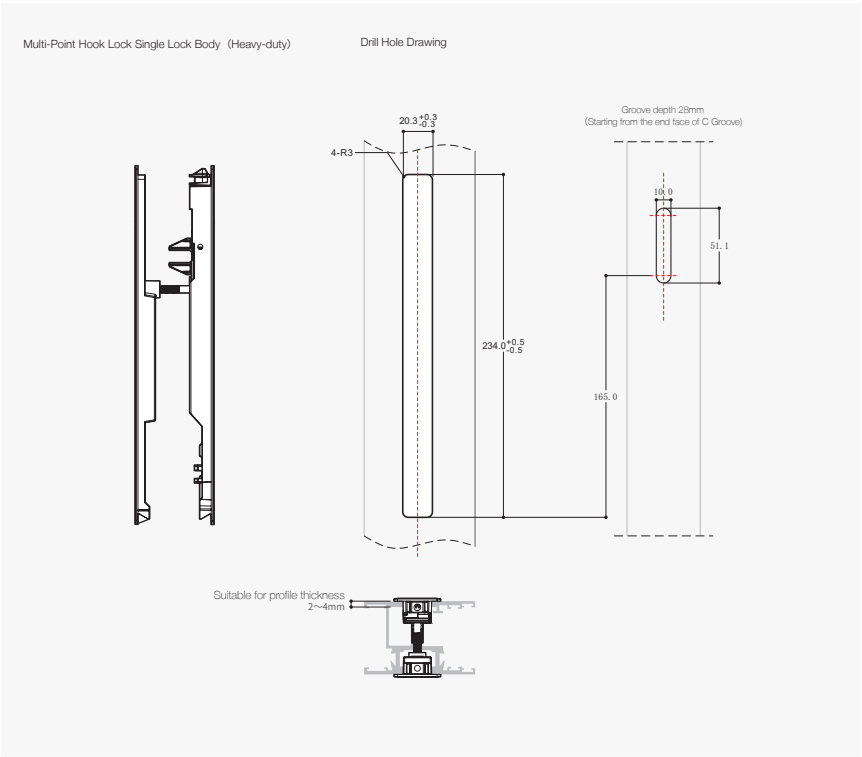




GLIDING DOOR PROFILE AND DRILLING REQUIREMENTS



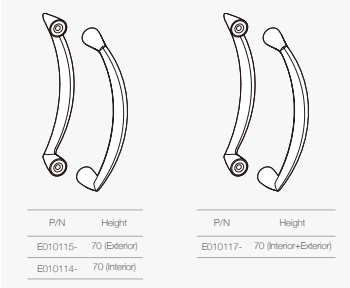
GLIDING DOOR PROFILE AND DRILLING REQUIREMENTS



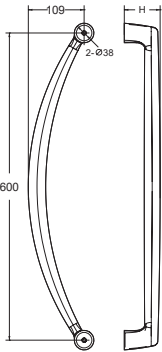
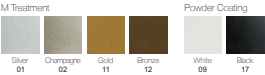


HANDLE SELECTIONS

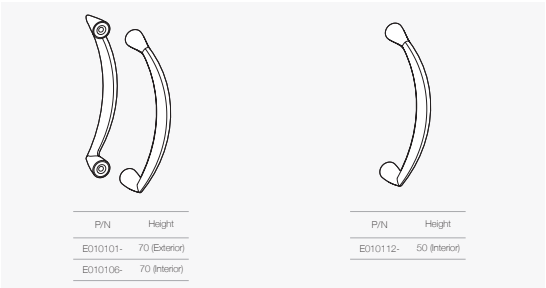
LONDON HANDLE



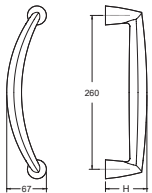
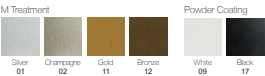
*Includes Screw Pack; The Outer Handle Cannot be Installed Separately



LONDON HANDLE



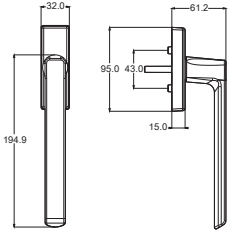
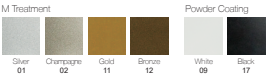
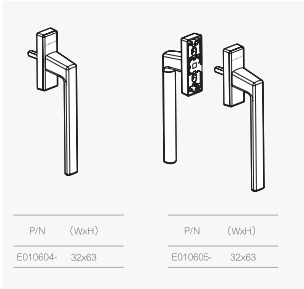
*Screw Pack Options P139; The Outer Handle Cannot be Installed Separately



HANDLE SELECTIONS

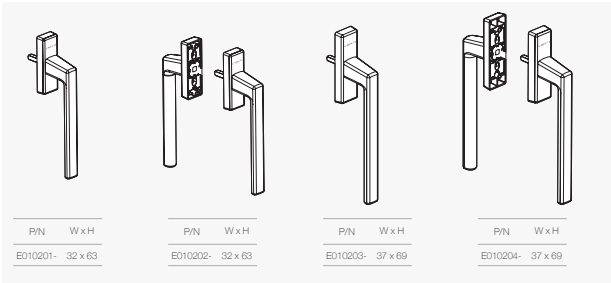
MILAN SERIES

Spindle Drive Handle (Type SD)

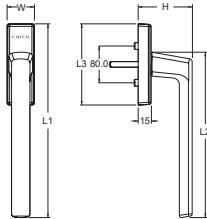
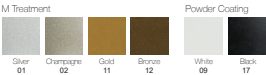


KOLN SERIES

Spindle Drive Handle (Type SD)



P/N	L1(mm)	L2(mm)	L3(mm)
E010201	226.8	193.2	95.0
E010202	226.8	193.2	95.0
E010203	279.4	234.4	120.0
E010204	279.4	234.4	120.0





HANDLE SELECTIONS

METRO HANDLE

<table><tr><th>P/N</th><th>Description</th></tr><tr><td>E010036-</td><td>Metro Handle</td></tr></table>	P/N	Description	E010036-	Metro Handle	<table><tr><th>P/N</th><th>Description</th></tr><tr><td>E010004-</td><td>Fixed Metro Handle</td></tr></table>	P/N	Description	E010004-	Fixed Metro Handle
P/N	Description								
E010036-	Metro Handle								
P/N	Description								
E010004-	Fixed Metro Handle								

M Treatment

Silver 01	Champagne 02	Gold 11	Bronze 12

Powder Coating

White 09	Black 17

METRO HANDLE SET WITH CYLINDER

<table><tr><th>P/N</th><th>L</th></tr><tr><td>E010037-</td><td>53.8</td></tr><tr><td>E010038-</td><td>79.3</td></tr></table>	P/N	L	E010037-	53.8	E010038-	79.3	
P/N	L						
E010037-	53.8						
E010038-	79.3						

M Treatment

Silver 01	Champagne 02	Gold 11	Bronze 12

Powder Coating

White 09	Black 17



HANDLE SELECTIONS

EXTERIOR KEYED MULTI-POINT LOCK RECESSED HANDLE PLUS

<table><tr><th>P/N</th></tr><tr><td>E010034-</td></tr></table>	P/N	E010034-	
P/N			
E010034-			

M Treatment

Silver 01	Champagne 02	Gold 11	Bronze 12

Powder Coating

White 09	Black 17

MULTI-POINT LOCK RECESSED HANDLE PLUS

<table><tr><th>P/N</th></tr><tr><td>E010032-</td></tr></table>	P/N	E010032-	
P/N			
E010032-			

M Treatment

Silver 01	Champagne 02	Gold 11	Bronze 12

Powder Coating

White 09	Black 17



HANDLE SELECTIONS

MULTI-POINT LOCK RECESSED HANDLE (HEAVY-DUTY DOUBLE SIDE)

P/N
ED10039-

M Treatment
Silver 01 Champagne 02 Gold 11 Bronze 12

Powder Coating
White 09 Black 17

P/N	Width	Specifications
E110030	35-40 mm	M5x20 Cross recessed Countersunk head screws
E110031	46-50 mm	M5x30 Cross recessed Countersunk head screws
E110032	56-60 mm	M5x40 Cross recessed Countersunk head screws
E110033	41-45 mm	M5x25 Cross recessed Countersunk head screws
E110034	51-55 mm	M5x35 Cross recessed Countersunk head screws



HANDLE SELECTIONS

MULTI-POINT LOCK RECESSED HANDLE (HEAVY-DUTY SINGLE INTERIOR SIDE)

P/N
ED10041-

M Treatment
Silver 01 Champagne 02 Gold 11 Bronze 12

Powder Coating
White 09 Black 17

MULTI-POINT LOCK RECESSED HANDLE (HEAVY-DUTY SINGLE SIDE)

P/N
ED10040-

M Treatment
Silver 01 Champagne 02 Gold 11 Bronze 12

Powder Coating
White 09 Black 17

P/N	Width	Specifications
E110030	35-40 mm	M5 x 20 Cross recessed Countersunk head screws
E110031	46-50 mm	M5 x 30 Cross recessed Countersunk head screws
E110032	56-60 mm	M5 x 40 Cross recessed Countersunk head screws
E110033	41-45 mm	M5 x 25 Cross recessed Countersunk head screws
E110034	51-55 mm	M5 x 35 Cross recessed Countersunk head screws

MULTI-POINT LOCK RECESSED HANDLE (HEAVY-DUTY SINGLE EXTERIOR SIDE)

P/N
ED10042-

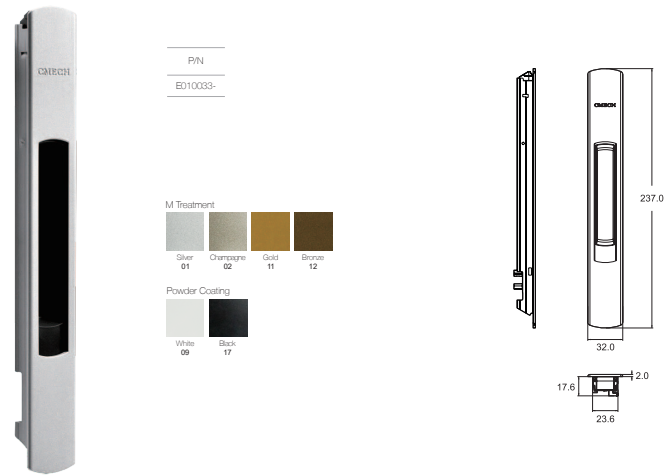
M Treatment
Silver 01 Champagne 02 Gold 11 Bronze 12

Powder Coating
White 09 Black 17



HANDLE SELECTIONS

FIXED RECESSED HANDLE PLUS



P/N	
E010033-	
M Treatment	
Silver 01	Champagne 02
Gold 11	Bronze 12
Powder Coating	
White 09	Black 17



HANDLE SELECTIONS

MULTI-POINT LOCK RECESSED HANDLE



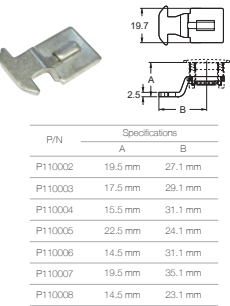
P/N	
E010026-	
M Treatment	
Silver 01	Champagne 02
Gold 11	Bronze 12
Powder Coating	
White 09	Black 17

SINGLE-POINT LOCK RECESSED HANDLE



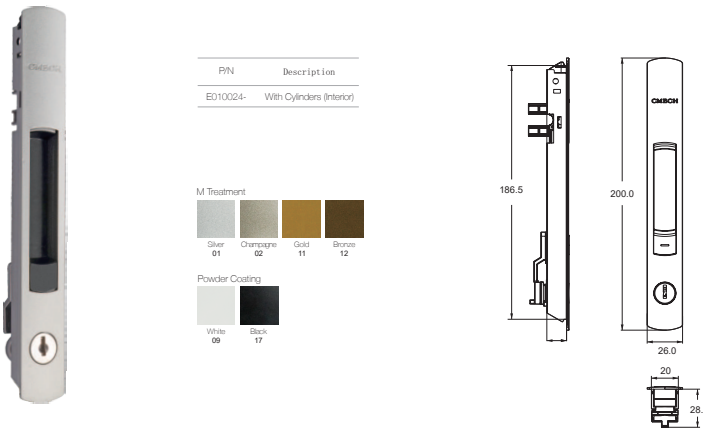
P/N	
E010030-	
M Treatment	
Silver 01	Champagne 02
Gold 11	Bronze 12
Powder Coating	
White 09	Black 17

Hook Lock



P/N	Specifications	
	A	B
P110002	19.5 mm	27.1 mm
P110003	17.5 mm	29.1 mm
P110004	15.5 mm	31.1 mm
P110005	22.5 mm	24.1 mm
P110006	14.5 mm	31.1 mm
P110007	19.5 mm	35.1 mm
P110008	14.5 mm	23.1 mm

MULTI-POINT LOCK RECESSED HANDLE



P/N	Description
E010024-	With Cylinders (Interior)
M Treatment	
Silver 01	Champagne 02
Gold 11	Bronze 12
Powder Coating	
White 09	Black 17



HANDLE SELECTIONS

MULTI-POINT LOCK RECESSED HANDLE

E010025
Multi-Point Lock Recessed Handle - Exterior with Key

M Treatment Powder Coating

Silver 01	Champagne 02	Gold 11	Bronze 12	White 09	Black 17
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FIXED RECESSED HANDLE

E010019 E010023 E010031
Fixed Recessed Handle Fixed Recessed Handle Fixed Recessed Handle

M Treatment Powder Coating

Silver 01	Champagne 02	Gold 11	Bronze 12	White 09	Black 17
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HANDLE SELECTIONS

MILAN SERIES
400 Handle

*Includes Screw Pack

P/N	Height	P/N	Height	P/N	Height
E010001-	68 (Interior)	E010002-	68 (Interior+Exterior)	E010003-	68 (Exterior)

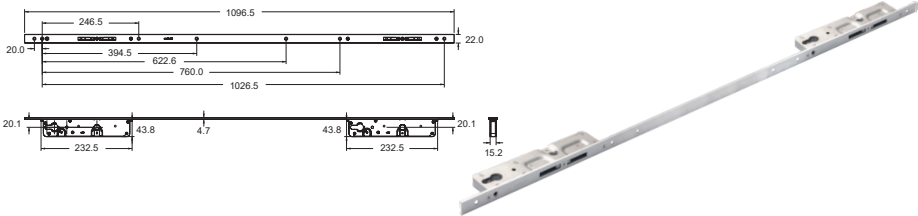
M Treatment Powder Coating

Silver 01	Champagne 02	Gold 11	Bronze 12	White 09	Black 17
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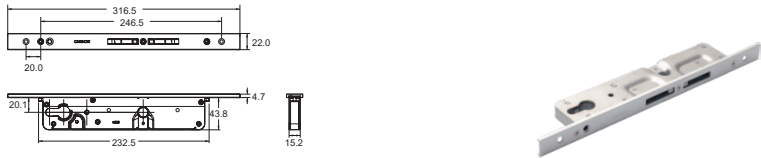


LOCKING HARDWARE

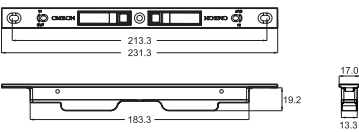
E030016
Multi-Point Hook Lock - Double Lock Body



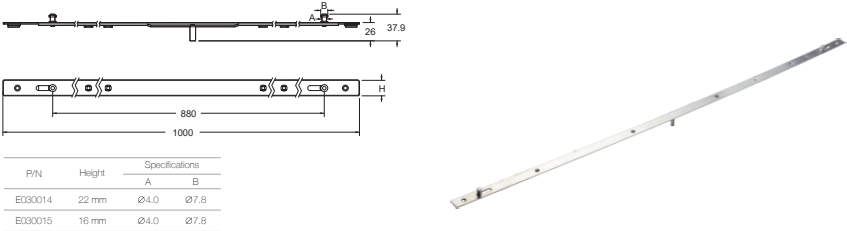
E030017
Multi-Point Hook Lock - Single Lock Body



E100018
Multi-Point Hook Lock Bracket



Drive Gear

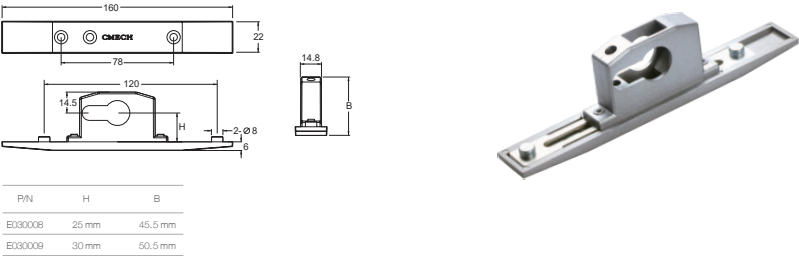


P/N	Height	Specifications	
		A	B
E030014	22 mm	Ø4.0	Ø7.8
E030015	16 mm	Ø4.0	Ø7.8



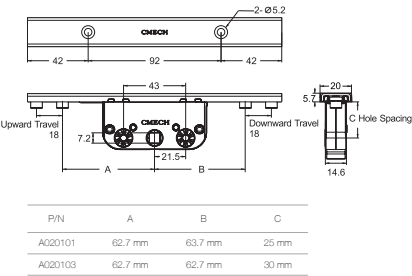
GEARBOXES

Locking Gearbox Housing



P/N	H	B
E030008	25 mm	45.5 mm
E030009	30 mm	50.5 mm

Bi-Directional Spindle Drive Gearbox

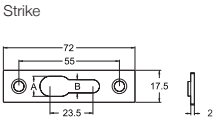
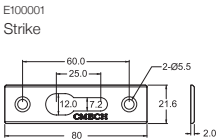


P/N	A	B	C
A020101	62.7 mm	63.7 mm	25 mm
A020103	62.7 mm	62.7 mm	30 mm

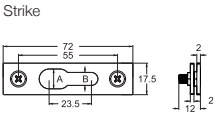




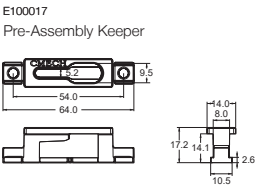
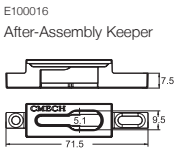
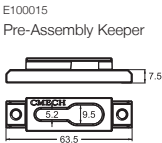
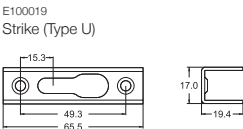
STRIKES AND BRACKETS



P/N	A	B
E100006	11 mm	7.2 mm
E100009	9.25 mm	5.5 mm



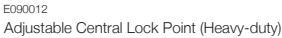
P/N	A	B
E100011	11 mm	7.2 mm
E100013	9.25 mm	5.5 mm



LOCK POINTS



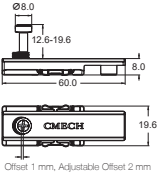
Offset 1 mm, Adjustable Offset 2 mm



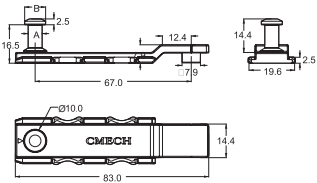


LOCK POINTS

E090007
Offset Adjustable End Lock Point



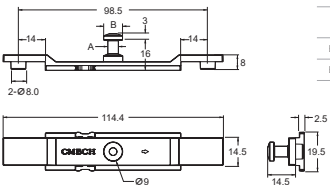
End Lock Point



P/N	Specifications	
	A	B
E090001	Ø6.0	Ø9.0
E090003	Ø4.0	Ø6.0



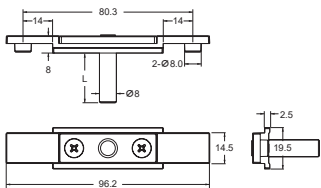
Double-Ended Lock Point



P/N	Specifications	
	A	B
E090002	Ø6.0	Ø9.0
E090004	Ø4.0	Ø6.0



Intermediate Drive

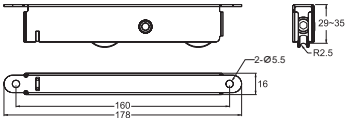


P/N	L
E020001	23.5 mm
E020010	15.5 mm
E020011	19.5 mm
E020012	27.5 mm
E020013	31.5 mm
E020014	35.5 mm
E020019	39.5 mm
E020020	43.5 mm
E020021	47.5 mm

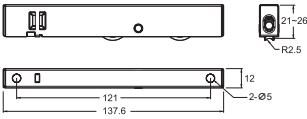


ROLLER CARRIAGES

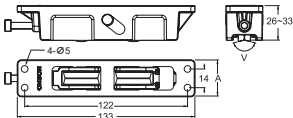
E050001
Roller (Type R)-1628-2934-R2.5-150kg



E050002
Roller (Type R)-1220-2127-R2.5-120 kg

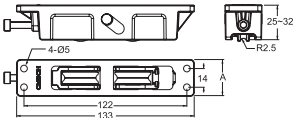


Roller (Type V)



P/N	Description	A	Max. Load	Material	V-Angle
E050005	2426-2633-V150-80 kg	24 mm	80 kg	Nylon	150°
E050006	2426-2633-V150-120 kg	24 mm	120 kg	Zinc Alloy	150°
E050009	2826-2633-V150-80 kg	28 mm	80 kg	Nylon	150°
E050010	2826-2633-V150-120 kg	28 mm	120 kg	Zinc Alloy	150°
E050005-V135	2426-2633-V135-80 kg	24 mm	80 kg	Nylon	135°
E050006-V135	2426-2633-V135-120 kg	24 mm	120 kg	Zinc Alloy	135°

Roller (Type R)

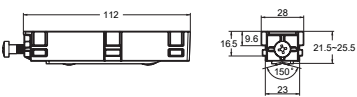


P/N	Description	A	Max. Load	Material
E050003	2426-2532-R2.5-80 kg	24 mm	80 kg	Nylon
E050004	2426-2532-R2.5-120 kg	24 mm	120 kg	Zinc Alloy
E050007	2826-2532-R2.5-80 kg	28 mm	80 kg	Nylon
E050008	2826-2532-R2.5-120 kg	28 mm	120 kg	Zinc Alloy

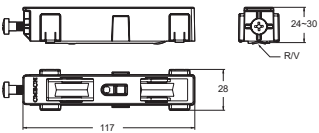


ROLLER CARRIAGES

E050012
Roller (Type V)-2920-2225-V150-120 kg

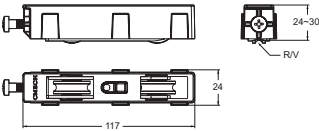


Roller-120 kg



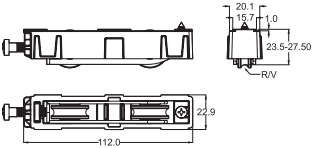
P/N	Description	Max. Load	Material	R/V-Angle
E050011	2924-2430-R2.5-120 kg	120 kg	Nylon	R2.5
E050014	2924-2430-V160-120 kg	120 kg	Nylon	160

Roller-120 kg



P/N	Description	Max. Load	Material	R/V-Angle
E050013	2423-2430-R2.5-120 kg	120 kg	Nylon	R2.5
E050015	2423-2430-V160-120 kg	120 kg	Nylon	160

Roller-120 kg

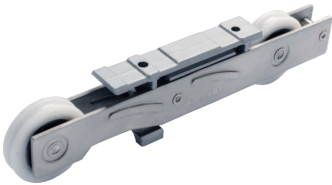
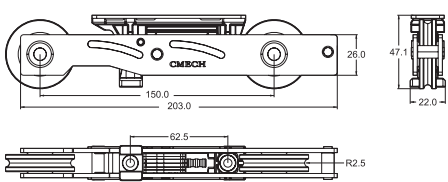


P/N	Description	Max. Load	Material	R/V-Angle
E050020	2323-2226-R2.5-120 kg	120 kg	Nylon	R2.5
E050018	2323-2226-V150-120 kg	120 kg	Nylon	150

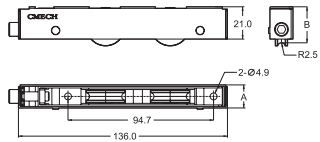


ROLLER CARRIAGES

E050022
Roller (Type R)-2226-45-R2.5-300 kg

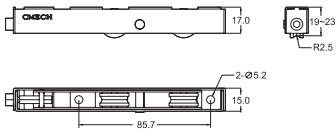


Roller (Type R)

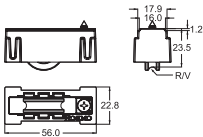


P/N	Description	A	B	Max. Load	Material
E050024	1521-2027-R2.5-120 kg	15 mm	23-31	120 kg	Stainless Steel
E050025	1621-2028-R2.5-120 kg	16 mm	23-31	120 kg	Stainless Steel

E050026
Roller (Type R)-1517-1923-R2.5-120 kg



Single Roller - 60 kg

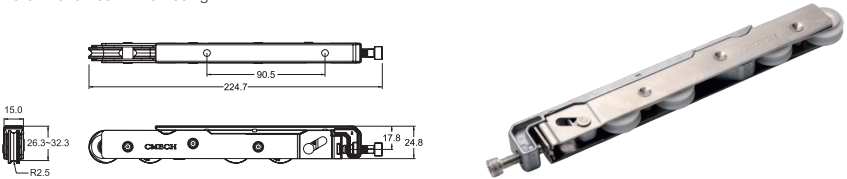


P/N	Description	Max. Load	Material	R/V-Angle
E050021	2323-23-R2.5-60 kg	60 kg	Nylon	R2.5
E050017	2323-23-V150-60 kg	60 kg	Nylon	150

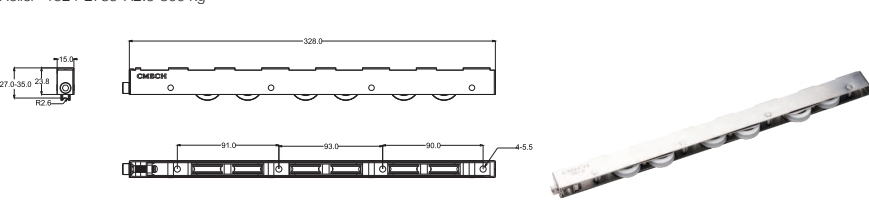


ROLLER CARRIAGES

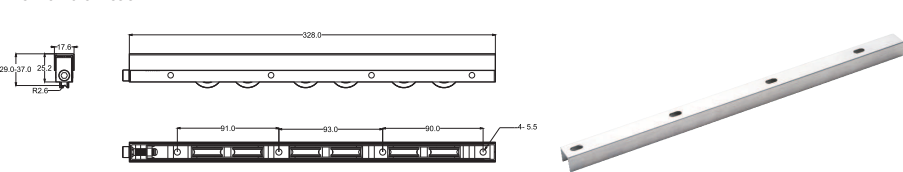
E050027
Roller -1525-2632-R2.5-200 kg



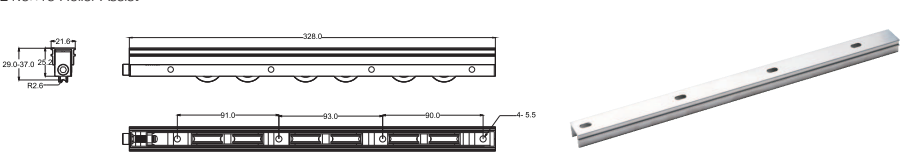
E050028
Roller -1524-2735-R2.6-300 kg



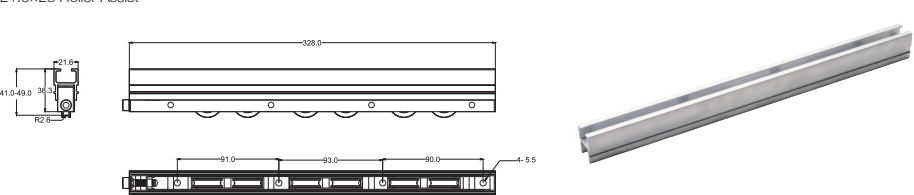
E120005
17.6x15 Roller Assist



E120006
21.6x15 Roller Assist



E120007
21.6x28 Roller Assist



OTHER ACCESSORIES

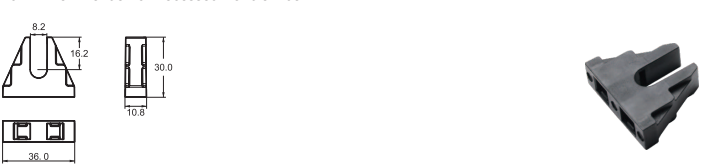
E120001
Metro Handle Fork Drive Extender



E120002
Recessed Handle Fork Drive Extender

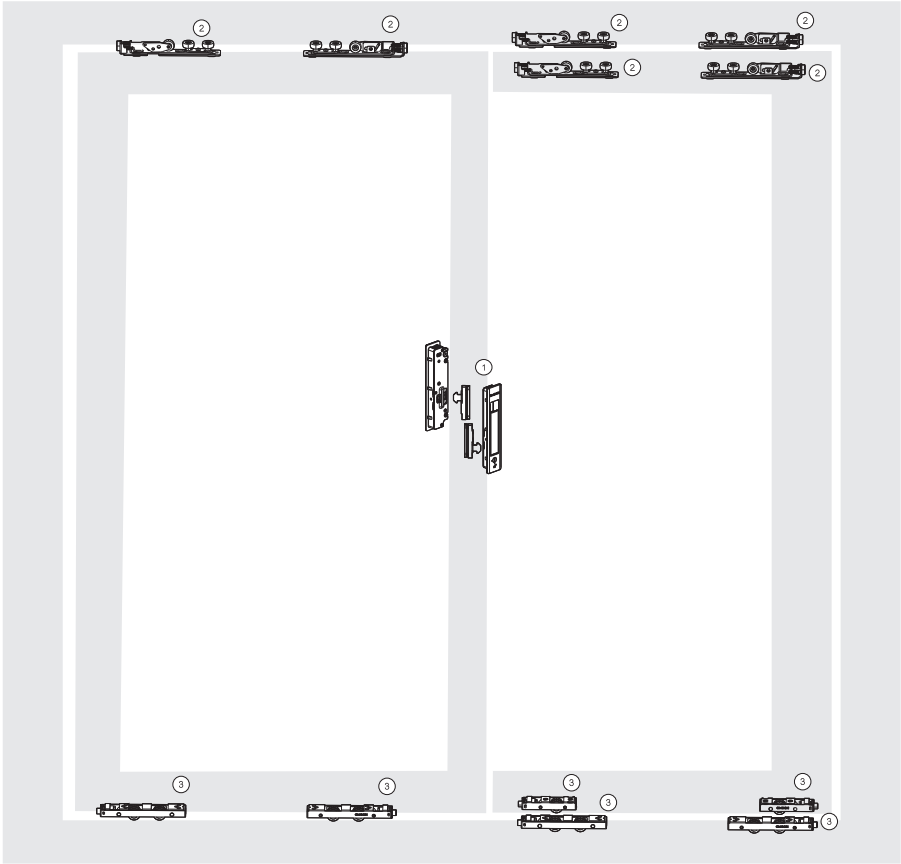


E010035
Fork Drive Extender for Recessed Handle Plus





GLIDING WINDOW HARDWARE SERIES
Six-track Sliding Window Configuration

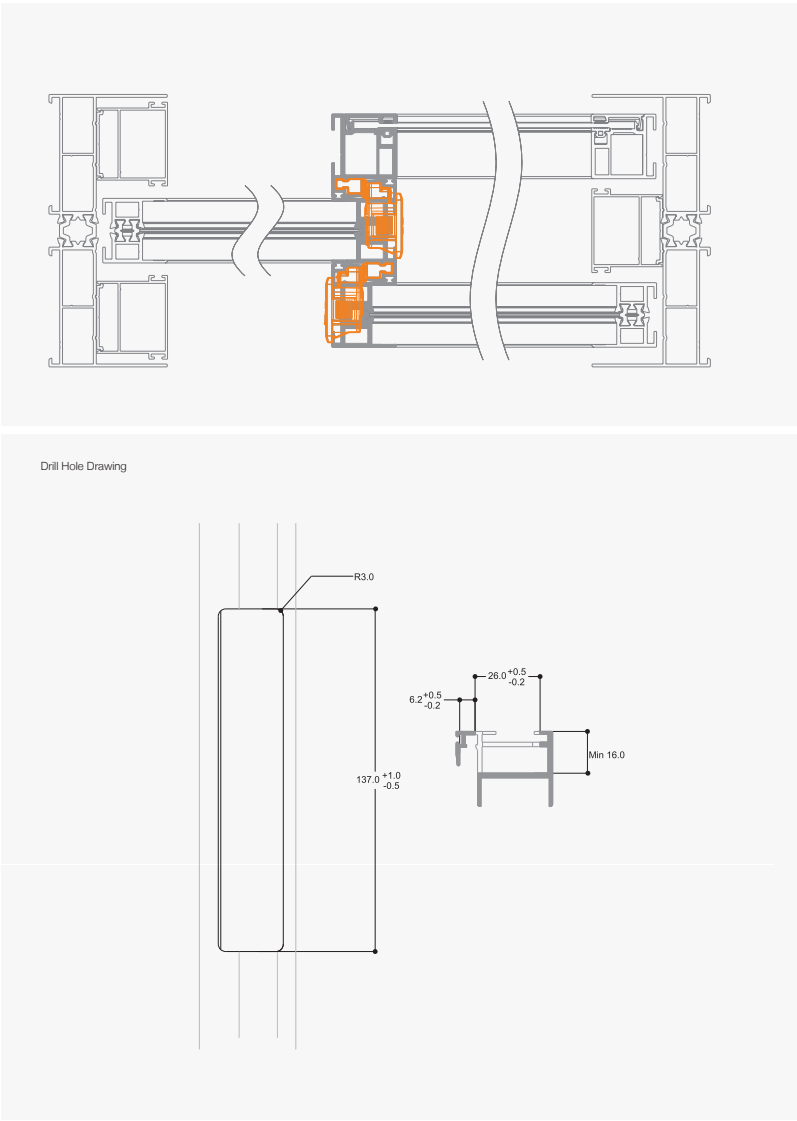


Configuration Table - Six-track Sliding Window

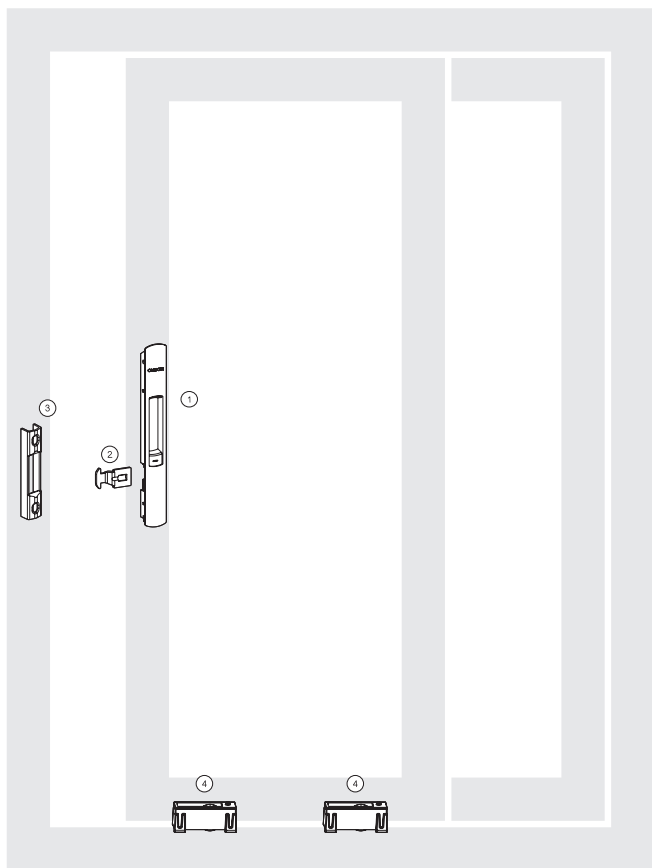
No.	Description	P/N	Qty	Notes	Ref. Page
1	Slimline Bump Lock Recessed Pull Handle	P010028 P010029	2	Right Opening , Equipped with Keeper Left Opening , Equipped with Keeper	P221
2	Upper Balance Wheel	P050006	6	15158-1825-2235 Balance wheel	P222
3	Double Track Lower Roller	P050003 P050004 P050005	6	2413-1921-R2.5-25kg Roller 2413-1921-R2.5-75kg Roller 2413-1921-R2.5-150kg Roller	P222
4	Screw Pack				



GLIDING WINDOW PROFILE AND DRILLING REQUIREMENTS
Six-track Sliding Window Configuration



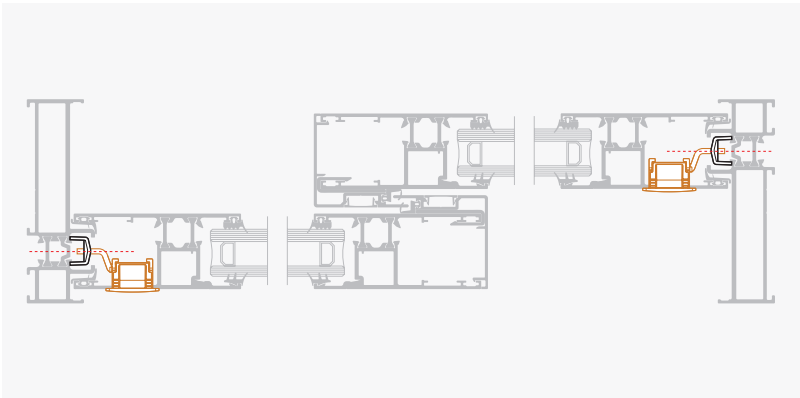
Bump Lock Recessed Pull Handle



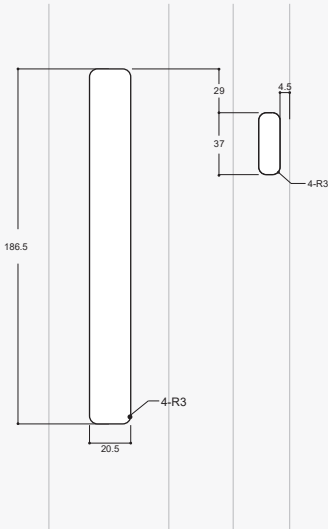
No.	Description	P/N	Qty	Notes	Ref. Page
1	Bump Lock Recessed Pull Handle	P010026 P010027	1		P220
2	Hook Lock	P110002 P110003 P110004 P110005 P110006 P110007 P110008 P110009 P110010 P110011 P110012 P110013 P110014 P110015	1	Multiple Types Available	P220
3	Locking Bracket	P100001 P100005 P100006 P100007 P100008	1	Bracket Cup Bracket 10V Bracket 16V Bracket 16 Flat Bracket	P223
4	Roller (Type R) Roller (Type R) Roller (Type R) Roller (Type R) Roller (Type R) Roller (Type R) Roller (Type R) Roller (Type R) Roller (Type R) Roller (Type R) Roller (Type R) Roller (Type R) Roller (Type R) Roller (Type V) Roller (Type V) Roller (Type V) Roller (Type V) Roller (Type V) Roller (Type V) Roller (Type V) Roller (Type V)	E060001 E060002 E060003 E060004 E060007 E060008 E060011 E060013 E060020 E060021 E060024 E060025 P060001 E060005 E060006 E060009 E060010 E060012 E060014 E060015 E060017 E060018	2	1628-2934-R2.5-150 kg 1320-2127-R2.5-120 kg 2426-2632-R2.5-60 kg 2426-2632-R2.5-120 kg 2626-2532-R2.5-60 kg 2626-2532-R2.5-120 kg 2824-2430-R2.5-120 kg 2423-2430-R2.5-120 kg 2323-2226-R2.5-120 kg 323-23-R2.5-60 kg 1521-2027-R2.5-120 kg 1621-2028-R2.5-120 kg 1215-17-R2.5-60 kg 2426-2633-V150-80 kg 2426-2633-V150-120 kg 2626-2633-V150-80 kg 2626-2633-V150-120 kg 2320-2225-V150-120 kg 2824-2430-V160-120 kg 2423-2430-V160-120 kg 2323-23-V150-60 kg 2323-2226-V150-120 kg	P210, P211 P212, P213
5	Screw Pack				



GLIDING WINDOW PROFILE AND DRILLING REQUIREMENTS

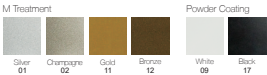
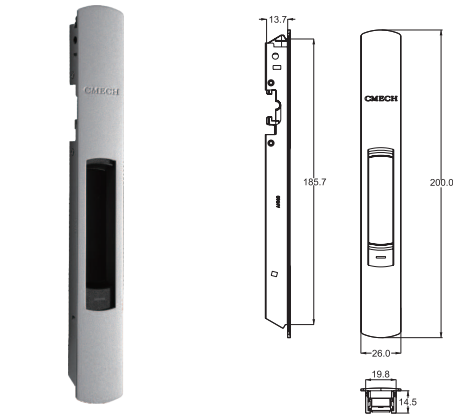


Drill Hole Drawing

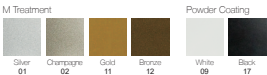
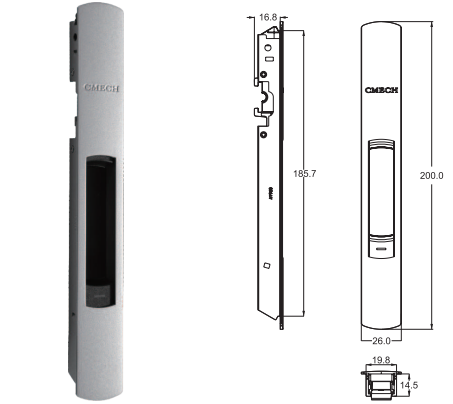


GLIDING WINDOW HARDWARE

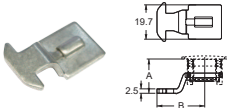
P010026
Bump Lock Recessed Pull Handle



P010027
Bump Lock Recessed Pull Handle

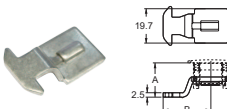


Hook Lock



P/N	Specifications	
	A	B
P110002	19.5 mm	27.1 mm
P110003	17.5 mm	29.1 mm
P110004	15.5 mm	31.1 mm
P110005	22.5 mm	24.1 mm
P110006	14.5 mm	31.1 mm
P110007	19.5 mm	35.1 mm
P110008	14.5 mm	23.1 mm

Hook Lock



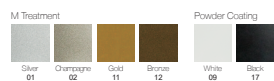
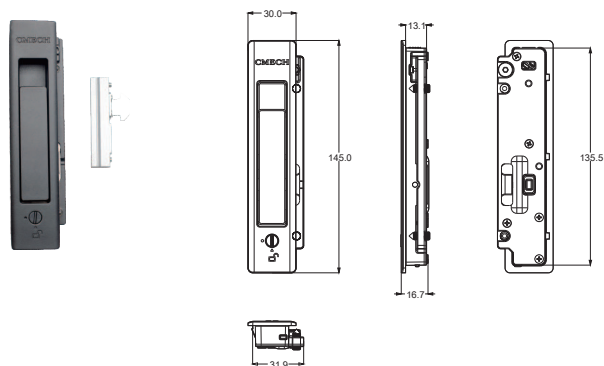
P/N	Specifications	
	A	B
P110009	14.0 mm	24.2 mm
P110011	15.0 mm	21.2 mm
P110013	15.0 mm	24.2 mm
P110014	15.0 mm	27.2 mm
P110015	17.0 mm	20.2 mm



GLIDING WINDOW HARDWARE

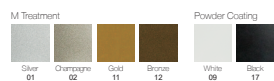
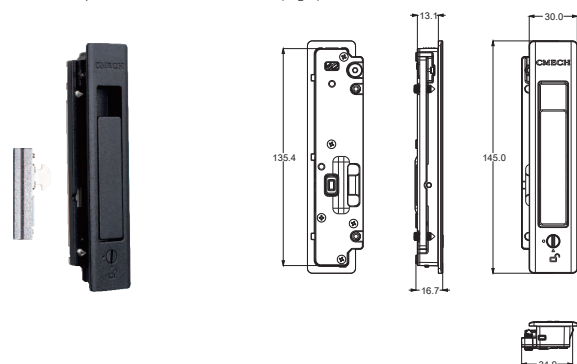
P010028

Slimline Bump Lock Recessed Pull Handle (Right)



P010029

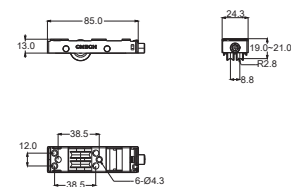
Slimline Bump Lock Recessed Pull Handle (Right)



GLIDING WINDOW HARDWARE

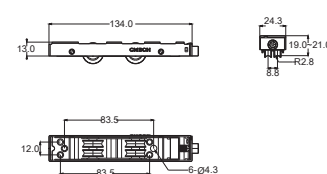
P050003

Double Track Lower Roller-2413-1921-R2.5-25KG



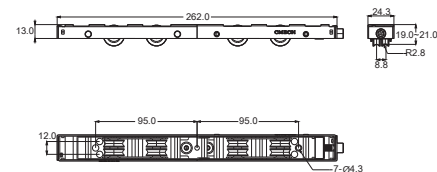
P050004

Double Track Lower Roller-2413-1921-R2.5-75KG



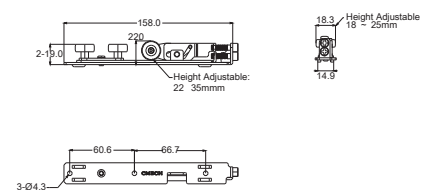
P050005

Double Track Lower Roller-2413-1921-R2.5-150KG



P050006

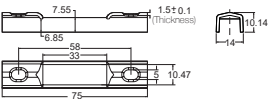
Upper Balance Wheel-15158-1825-2235



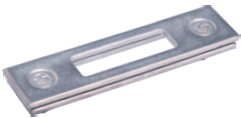
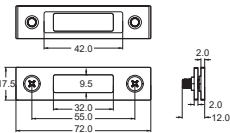


GLIDING WINDOW HARDWARE

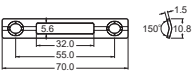
P100001
Locking Bracket



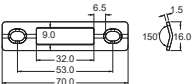
P100005
Clip Bracket



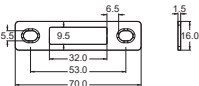
P100006
10V Bracket



P100007
16V Bracket



P100008
16 Flat Bracket



Bi-Folding Door Hardware

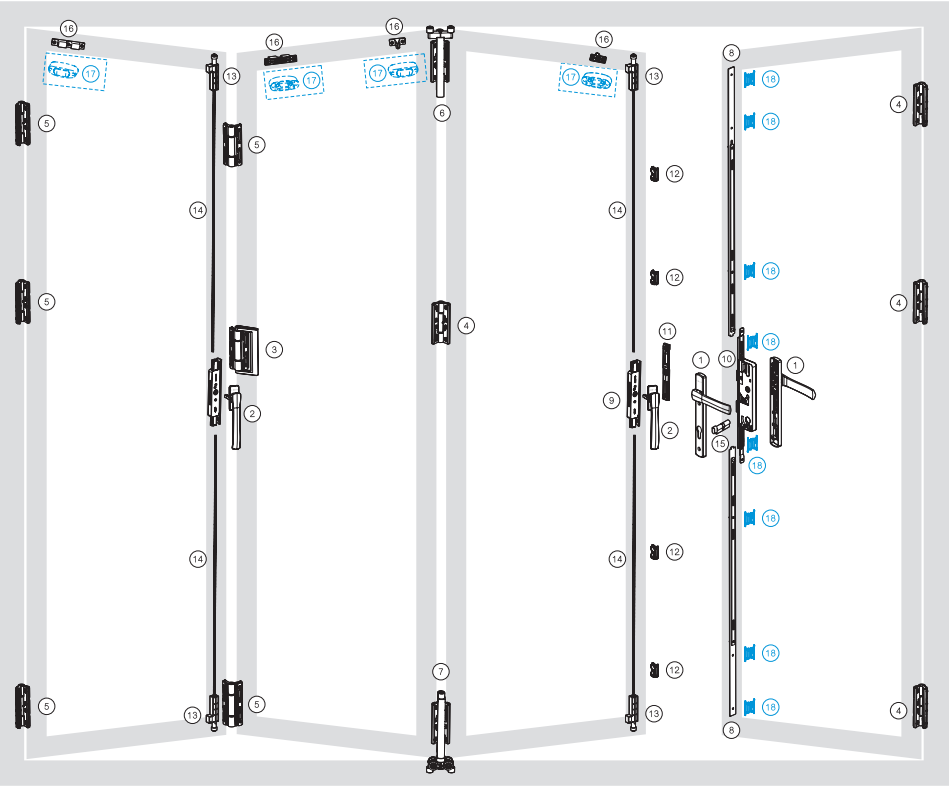


- The rollers are made of high quality stainless steel and special wear-resisting material, with high load-bearing, anti-fracture, longevity and light moving operation force
- Hinge has double anti-burglar function (metal end cover and internal anti-burglar pin) with adjustable and fixed series, which solves the problem of over-adjustment in the installation process and droop in the sash. A small sealing strip is designed on the end side, which is closely combined with the sash sealing strip for better tightness
- Multi-point lock body and shootbolt configuration

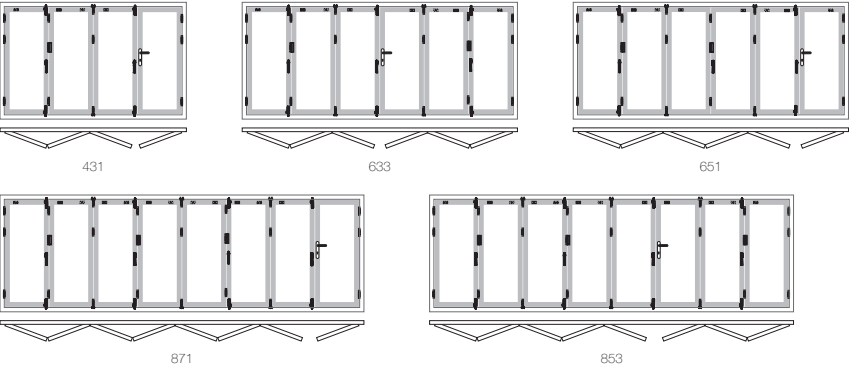
Bi-Folding Door		Applicable Range
Sash Width (Single)	(mm)	500-900
Sash Height (Single)	(mm)	1,900-3,500
Load-bearing	(kg)	≤ 120



BI-FOLDING DOOR HARDWARE SERIES
431 Configuration



Door Configurations

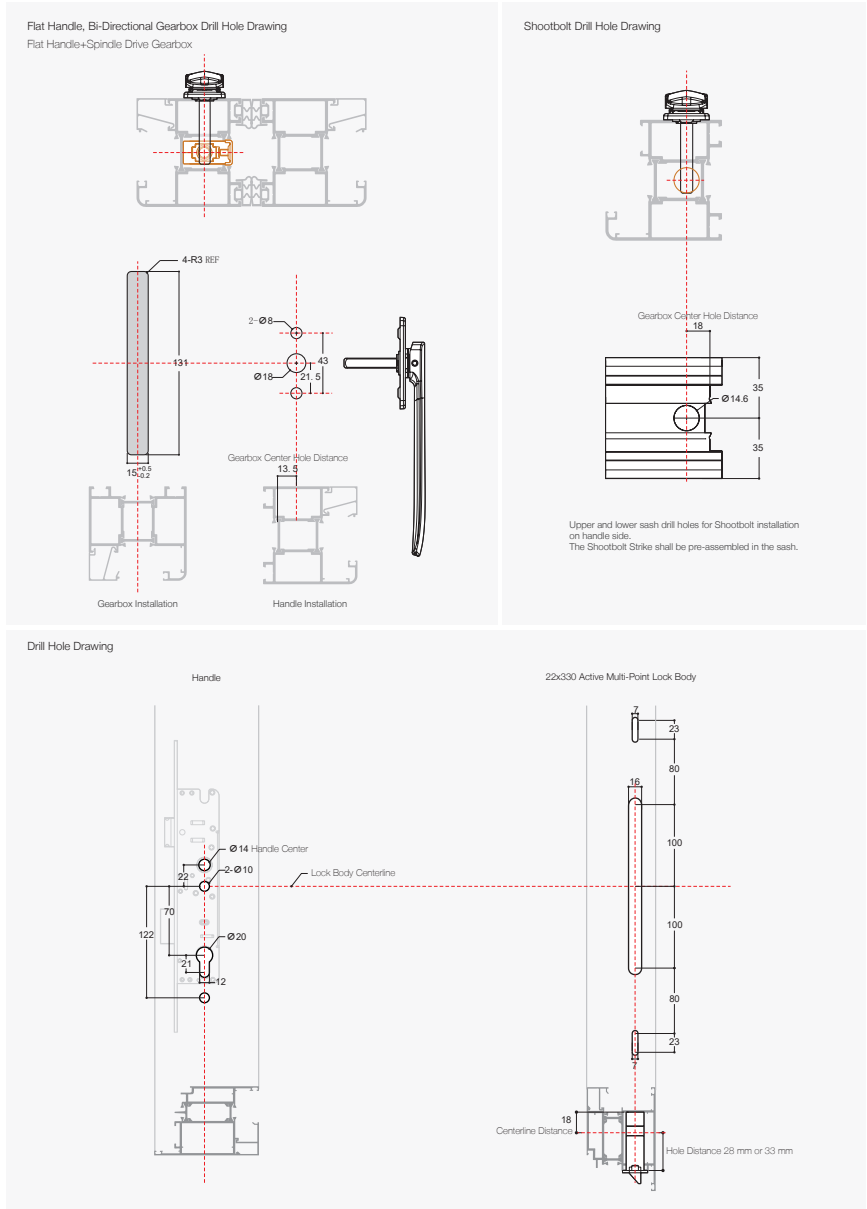


BI-FODING DOOR HARDWARE SERIES
Configuration Table

No.	Description	P/N	Qty					Notes	Ref. Page
			431	633	651	871	853		
1	Flat Handle Set (with Cylinder)	G010005	1	1	1	1	1	Casement Sash	P229
2	Flat Handle	G010006 G010007 G010008 G010009 G010010	2	3	3	4	4	Bi-Folding Sash, Exposed Spindle Length 32 mm Bi-Folding Sash, Exposed Spindle Length 37 mm Bi-Folding Sash, Exposed Spindle Length 42 mm Bi-Folding Sash, Exposed Spindle Length 47 mm Bi-Folding Sash, Exposed Spindle Length 60 mm	P229
3	Fixed Hinge with Handle	G040002	1	2	2	3	3		P231
4	Adjustable Hinge	G040001	4	2	4	4	2		P231
5	Fixed Hinge	G040003	5	10	8	11	13		P231
6	Guide Roller	G050002	1	2	2	3	3		P230
7	Weight Bearing Roller	G050001	1	2	2	3	3		P230
8	Pry-Resistant Espagnolette Bolt with Bearing	G020004 G020002 G020003	2	2	2	2	2	1,200 mm 960 mm 1,080 mm	P228
9	Spindle Drive Gearbox	G020001	2	3	3	4	4		P232
10	Multi-Point Lock Body	D030037 D030036	1	1	1	1	1	22x330x33 Multi-Point Lock Body (V2.0, Used with a Steel Transmission Rod) 22x330x28 Multi-Point Lock Body (V2.0, Used with a Steel Transmission Rod)	P260
11	Adjustable Main Strike	G100001 G100002	1	1	1	1	1	Suitable for Thermal Aluminum Profiles Suitable for Non-Thermal Aluminum Profiles	P233
12	Pry-Resistant Keepers	A100116	4	4	4	4	4		P234
13	Shootbolt	G070001	4	6	6	8	8		P232
14	Shootbolt Connecting Rod	G020005 G020007	4	6	6	8	8	L=1500 mm L=2000 mm	P232
15	Cylinder		1	1	1	1	1		P272, P273
16	Adjustable Panel Stop	G080002	2	4	4	6	6		P234
17	Magnetic Panel Stop	G080001	2	4	4	6	6		P234
18	Espagnolette Bolt Back Plate	G120001	2~16	2~16	2~16	2~16	2~16	Suitable for the Lock Body and Transmission Rod Installation on Thermal Aluminum Profiles	P233
19	Transmission Rod Screw Pack	G110001	14	14	14	14	14	Suitable for G020002, G020003, G020004, D030037 ST4.2x25 Cross Countersunk Head Self-Tapping Screws	
20	Handle Screw Pack	G110004 G110002 G110003 G110005 G110008	4	6	6	8	8	Suitable for G010006, M5x45 mm Cross Countersunk Head Self-Tapping Screws Suitable for G010006, M5x35 mm Cross Countersunk Head Self-Tapping Screws Suitable for G010007, M5x40 mm Cross Countersunk Head Self-Tapping Screws Suitable for G010009, M5x50 mm Cross Countersunk Head Self-Tapping Screws Suitable for G010010, M5x63 mm Cross Countersunk Head Self-Tapping Screws	
21	Handle Screw Pack	D000082	1	1	1	1	1	Suitable for G010005	
22	Handle Spindle Screw Pack	D000062	1	1	1	1	1	Suitable for G010005	



PROFILE AND DRILLING REQUIREMENTS

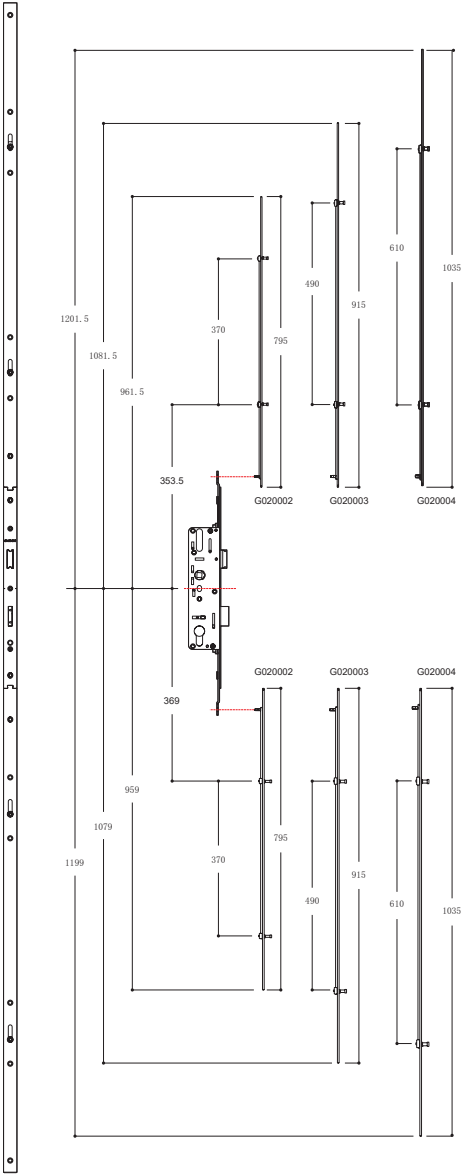


ESPAÑOLETE BOLT SELECTION
(For a 22x330 Active Multi-Point Lock Body)

Espagnolette Bolt Measurements

P/N	Specifications	Description
G020002	22x960 mm	Lock Point with Bearing
G020003	22x1,080 mm	Lock Point with Bearing
G020004	22x1,200 mm	Lock Point with Bearing

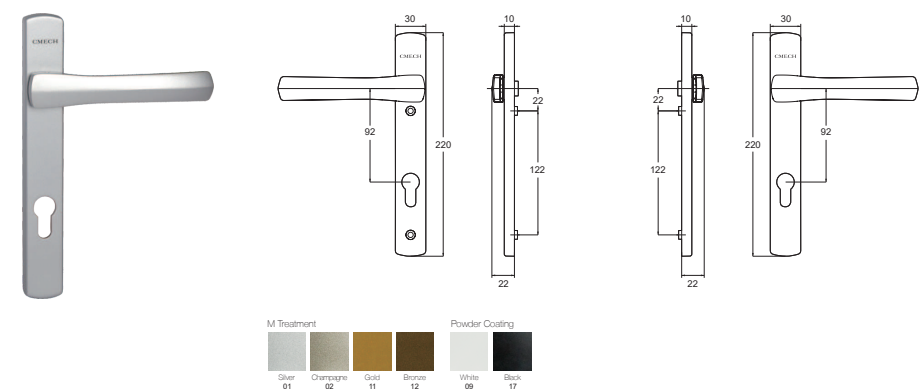
Note:
1. The lock body is a 22x300 Active Multi-Point Lock Body.
2. The dimensions are given in the locked position.
3. The end of the transmission rod can be trimmed based on the actual height of the door.



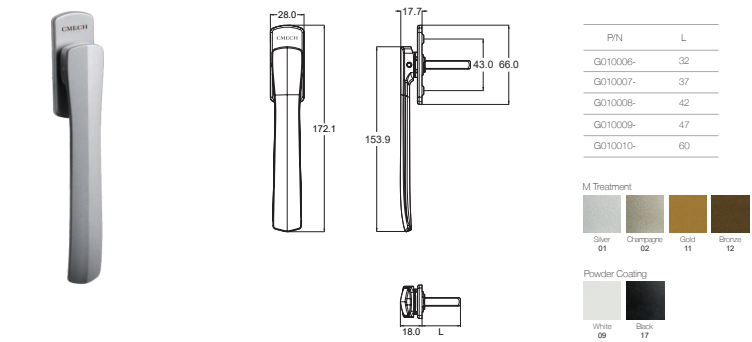


HANDLE SELECTIONS

FLAT HANDLE SET
G010005

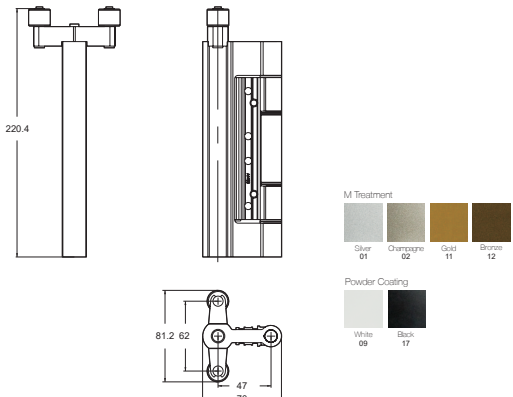


FLAT HANDLE

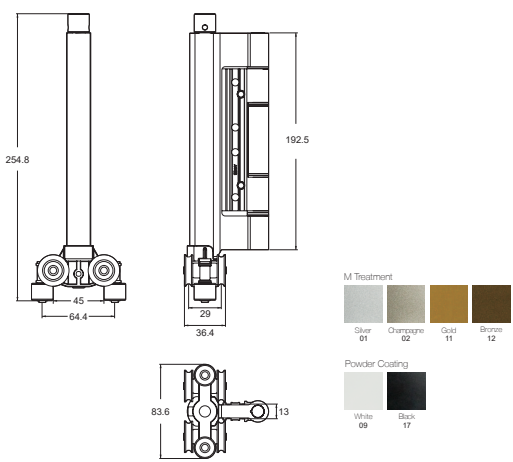


HINGES

G050002
Guide Roller



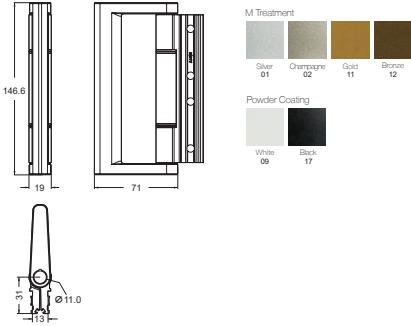
G050001
Weight Bearing Roller



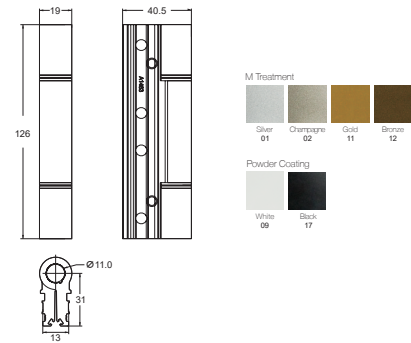


HINGES

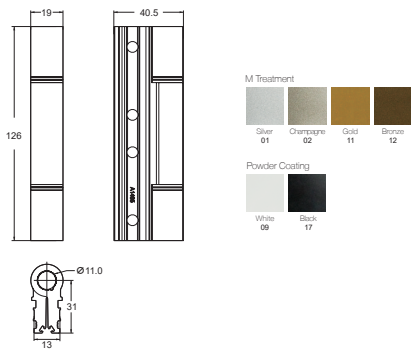
G040002
Fixed Hinge with Handle



G040001
Adjustable Hinge

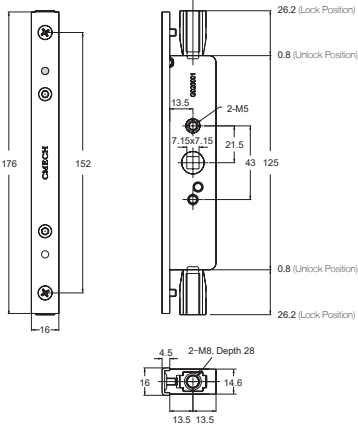


G040003
Fixed Hinge

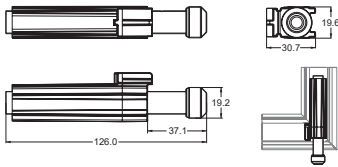


SHOOT BOLT

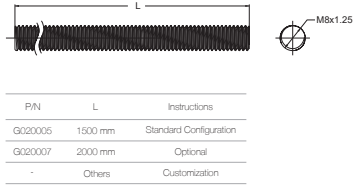
G020001
Spindle Drive Gearbox



G070001
Shootbolt



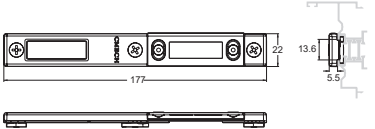
Shootbolt Connecting Rod



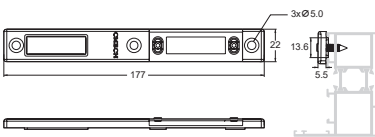


LOCKING HARDWARE

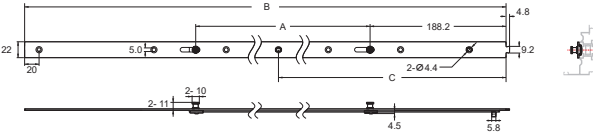
G100001
Adjustable Main Strike
(Suitable for Thermal Aluminum Profiles, Supplied Screw Pack)



G100002
Adjustable Main Strike
(Suitable for Non-Thermal Aluminum Profiles, Supplied Screw Pack)



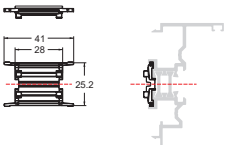
Pry-Resistant Espagnolette Bolt with Bearing



P/N	Specifications			Instructions
	A	B	C	
G020002	370 mm	796 mm	-	304SS
G020003	490 mm	915 mm	441 mm	304SS
G020004	610 mm	1,035 mm	501 mm	304SS

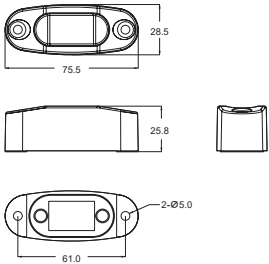


G120001
Espagnolette Bolt Back Plate

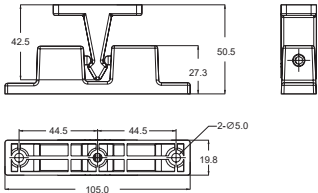


PANEL STOP

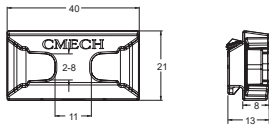
G080001
Magnetic Panel Stop



G080002
Adjustable Panel Stop



A100116
Pry-Resistant Keepers



Hinged Door Hardware

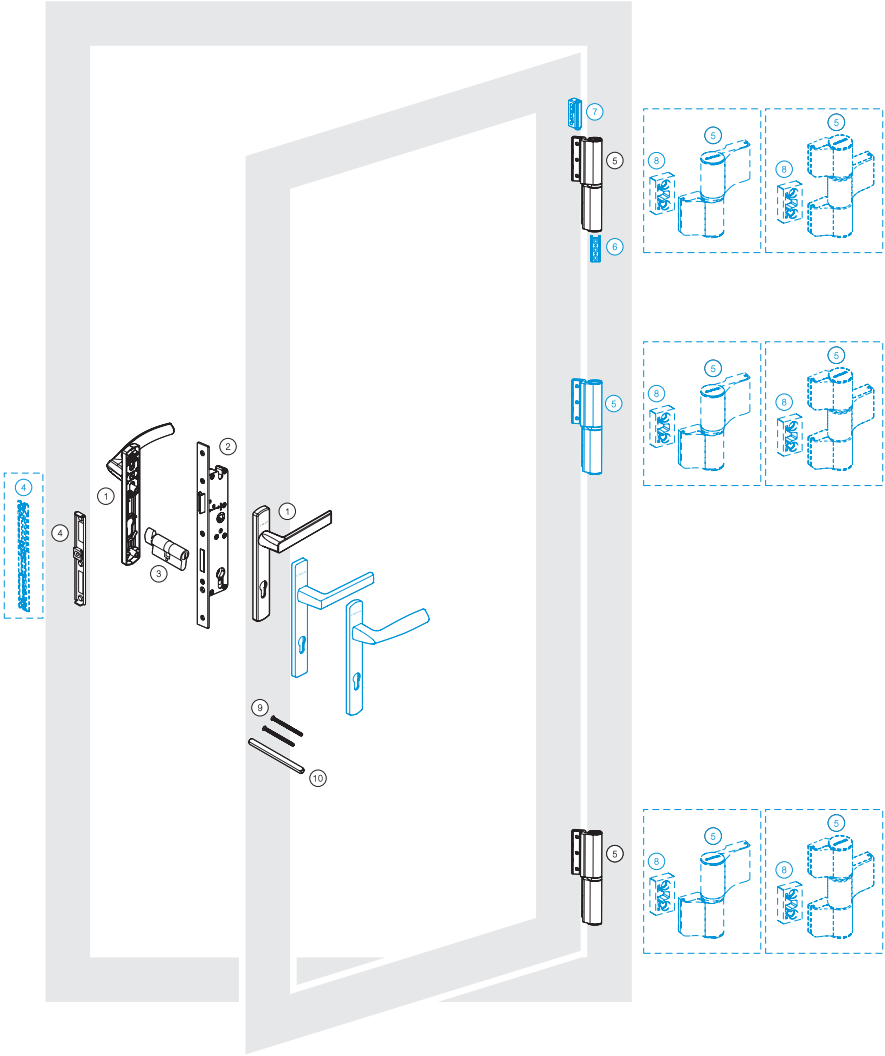


- The handles are available in many styles and colors
- Three axis adjustable hinges
- No tools are required to change the orientation of the lock, making it quick and convenient

Hinged Door		Applicable Range
Sash Width (max)	(mm)	500-1,200
Sash Height (max)	(mm)	1,920-3,000
Weight	(kg)	120, 140, 180
Lock Body Centerline	(mm)	28, 33, 38



HINGED DOOR HARDWARE SERIES
Single-Panel with Single-Point Lock Configuration



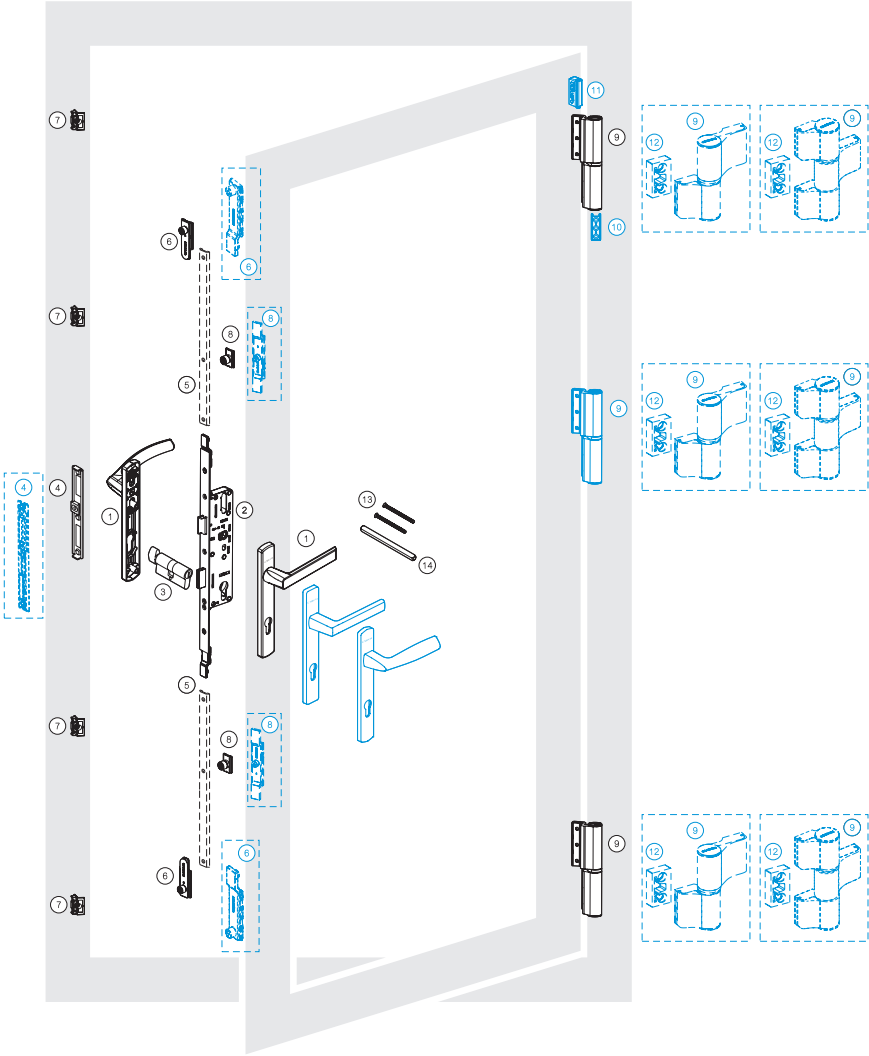
HINGED DOOR HARDWARE SERIES
Configuration Table - Single-Panel with Single-Point Lock

N.o.	Description	P/N	Qty	Notes	Ref. Page
1	Spindle Drive Handle (Type D)	D010601	1	Milan Handle with Cylinder	P253, P254
		D010433		Berlin Handle with Cylinder	
		D010233		Köln Handle with Cylinder	
		D010133		New York Handle with Cylinder	
		D010602		Milan Handle without Cylinder	
		D010434		Berlin Handle without Cylinder	
2	Lock Body	D030040	1	Lock Distance: 28 mm, Plate: 22x300 mm	P260
		D030041		Lock Distance: 33 mm, Plate: 22x300 mm	
3	Cylinder		1		P272, P273
4	Adjustable Strike	D100012 G100001 G100002	1		P263
5	120 kg Reinforced Hinge	D040017	2~3	With Standard Clamping Block, Load-bearing:120 kg (Left)	P266, P267 P268, P269 P270, P271
	120 kg Reinforced Hinge	D040018		With Standard Clamping Block, Load-bearing:120 kg (Right)	
	120 kg Flush-Fit Hinge	D040019		Load-bearing:120 kg (Left)	
	120 kg Flush-Fit Hinge	D040020		Load-bearing:120 kg (Right)	
	140 kg Flush-Fit Hinge	D040003		20.5x41x40 mm, Load-bearing:140 kg	
	140 kg Flush-Fit Hinge	D040013		49x41x40 mm, Load-bearing:140 kg	
	180 kg Flush-Fit Hinge	D040014		20.5x41x40 mm, Load-bearing:180 kg	
	180 kg Flush-Fit Hinge	D040015		49x41x40 mm, Load-bearing:180 kg	
6	Anti Slide Clamping Block	D000049	1	Suitable for 120 kg Reinforced Hinge	P265
7	Sash Height Adjusting Block	D000007	1	Suitable for 120 kg Reinforced Hinge	P265
8	Flush-Fit Hinge Gasket	D140001 D140002 D140003 D140004 D140005	2~3	7x40 mm Gasket, Suitable for 140 kg, 180 kg Hinge 8x40 mm Gasket, Suitable for 140 kg, 180 kg Hinge 8.5x40 mm Gasket, Suitable for 140 kg, 180 kg Hinge 10x40 mm Gasket, Suitable for 140 kg, 180 kg Hinge 11x40 mm Gasket, Suitable for 140 kg, 180 kg Hinge	P265
9	Handle Screw Pack		1		P252
10	Spindle Screw Pack		1		P251

*Flat Handle is Available



HINGED DOOR HARDWARE SERIES
Single-Panel with Multi-Point Lock + Connecting Strip Configuration



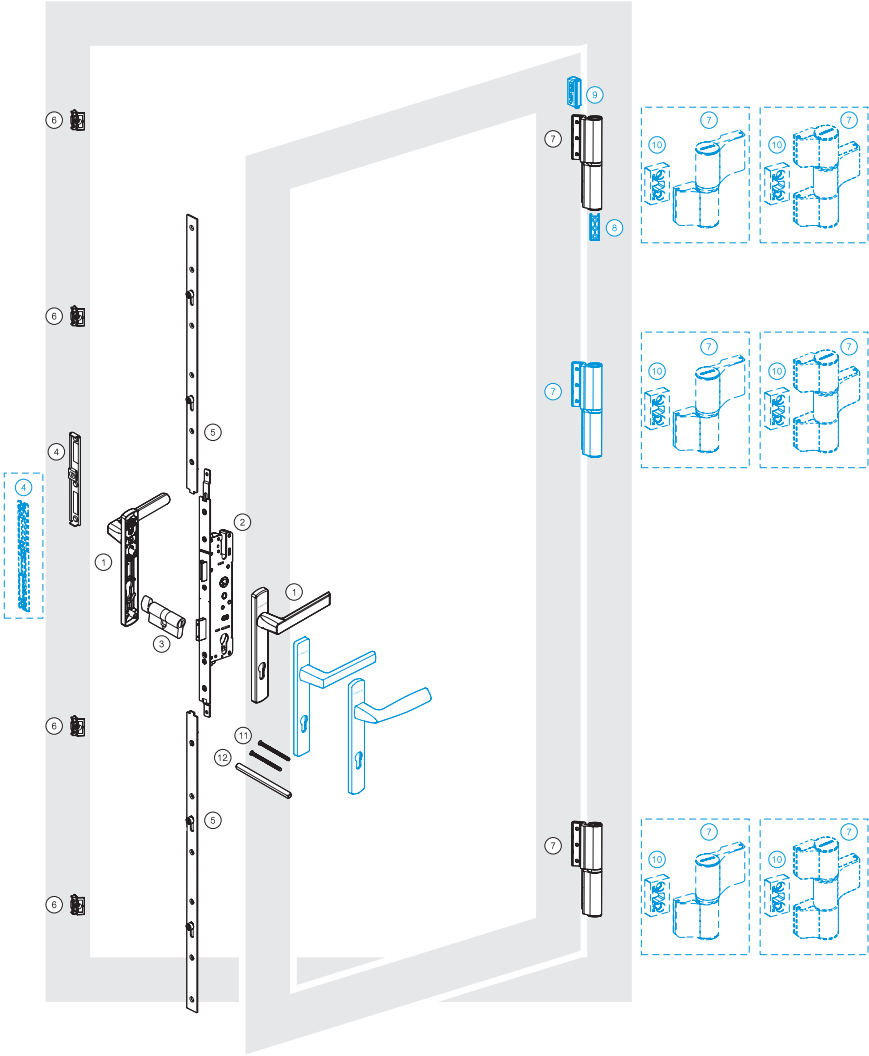
HINGED DOOR HARDWARE SERIES
Configuration Table - Single-Panel with Multi-Point Lock + Connecting Strip

N.o.	Description	P/N	Qty	Notes	Ref. Page
1	Spindle Drive Handle (Type D)	D010601	1	Milan Handle with Cylinder	P253, P254
		D010433		Berlin Handle with Cylinder	
		D010233		Koln Handle with Cylinder	
		D010133		New York Handle with Cylinder	
		D010602		Milan Handle without Cylinder	
		D010434		Berlin Handle without Cylinder	
2	Lock Body	D030038	1	Lock Distance: 28 mm, Plate: 22x395 mm	P261
		D030039		Lock Distance: 33 mm, Plate: 22x395 mm	
		D030042		Lock Distance: 38 mm, Plate: 22x395 mm	
3	Cylinder		1		P272, P273
4	Adjustable Strike	D100012 G100001 G100002	1		P263
5	Connecting Strip			Provided by Customer or Cmech	
6	Lock Point	A090001 A090005 A090007 A090008 A090032	2	Ø9,5x6,0 mm Ø9,5x7,0 mm End Lock Point Ø9,5x6,0 mm End Lock Point Ø9,5x7,0 mm Pry-resistant End Lock Point	P91, P92, P93
7	Keeper	A100127 A100125	2~4	Pry-resistant Keeper	P94
8	Active Lock Point	A090002 A090009 A090010	2	Dual-Stage Active Lock Point Ø9,5x8,75 mm Central Lock Point Ø9,5x6,0 mm Central Lock Point Ø9,5x7,0 mm	P99
9	120 kg Reinforced Hinge	D040017	2~3	With Standard Clamping Block, Load-bearing:120 kg (Left)	P266, P267 P268, P269 P270, P271
	120 kg Reinforced Hinge	D040018		With Standard Clamping Block, Load-bearing:120 kg (Right)	
	120 kg Flush-Fit Hinge	D040019		Load-bearing:120 kg (Left)	
	120 kg Flush-Fit Hinge	D040020		Load-bearing:120 kg (Right)	
	140 kg Flush-Fit Hinge	D040033		20,5x41x40 mm, Load-bearing:140 kg	
	140 kg Flush-Fit Hinge	D040013		49x41x40 mm, Load-bearing:140 kg	
10	Anti Slide Clamping Block	D000049	1	Suitable for 120 kg Reinforced Hinge	P265
	Sash Height Adjusting Block	D000007	1	Suitable for 120 kg Reinforced Hinge	P265
12	Flush-Fit Hinge Gasket	D140001 D140002 D140003 D140004 D140005	2~3	7x40 mm Gasket, Suitable for 140 kg, 180 kg Hinge 8x40 mm Gasket, Suitable for 140 kg, 180 kg Hinge 8,5x40 mm Gasket, Suitable for 140 kg, 180 kg Hinge 10x40 mm Gasket, Suitable for 140 kg, 180 kg Hinge 11x40 mm Gasket, Suitable for 140 kg, 180 kg Hinge	P265
13	Handle Screw Pack		1		P252
14	Spindle Screw Pack		1		P251

*Flat Handle is Available



HINGED DOOR HARDWARE SERIES
Single-Panel with Multi-Point Lock + Espagnolette Bolt Configuration



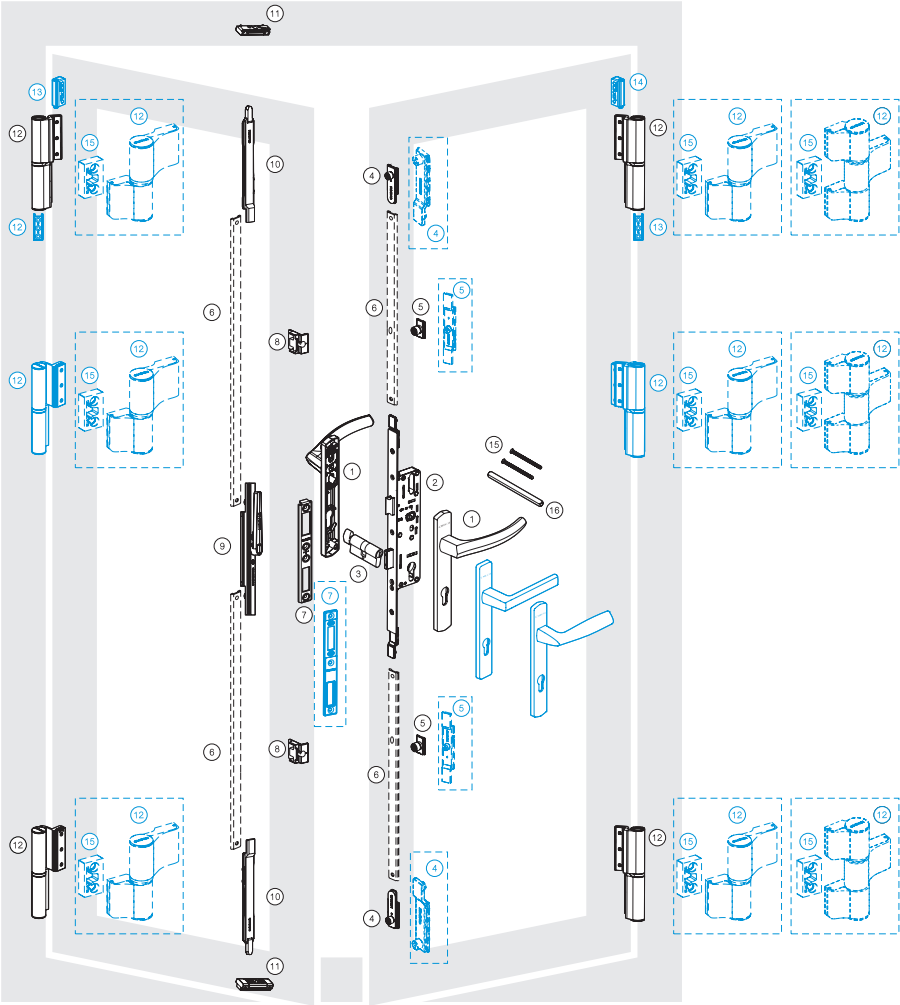
HINGED DOOR HARDWARE SERIES
Configuration Table - Single-Panel with Multi-Point Lock + Espagnolette Bolt

N.o.	Description	P/N	Qty	Notes	Ref. Page
1	Spindle Drive Handle (Type D)	D010601 D010433 D010233 D010133 D010602 D010434 D010234 D010134	1	Milan Handle with Cylinder Berlin Handle with Cylinder Kohn Handle with Cylinder New York Handle with Cylinder Milan Handle without Cylinder Berlin Handle without Cylinder Kohn Handle without Cylinder New York Handle without Cylinder	P253, P254
2	Lock Body	D030036 D030037	1	Lock Distance: 28 mm, Plate: 22x330 mm Lock Distance: 33 mm, Plate: 22x330 mm	P260
3	Cylinder		1		P272, P273
4	Adjustable Strike	D100012 G100001 G100002	1		P263
5	Espagnolette Bolt	D020001 D020002 D020003 D020004 D020005 D020006	2	795 mm, 304SS 915 mm, 304SS 1,035 mm, 304SS 795 mm, 304SS, Lock Point with Bearing 915 mm, 304SS, Lock Point with Bearing 1,035 mm, 304SS, Lock Point with Bearing	P262
6	Keeper	A100101 A100125	2~4		P94
7	120 kg Reinforced Hinge 120 kg Reinforced Hinge 120 kg Flush-Fit Hinge 120 kg Flush-Fit Hinge 140 kg Flush-Fit Hinge 140 kg Flush-Fit Hinge 180 kg Flush-Fit Hinge 180 kg Flush-Fit Hinge	D040017 D040018 D040019 D040020 D040003 D040013 D040014 D040015	2~3	With Standard Clamping Block, Load-bearing:120 kg (Left) With Standard Clamping Block, Load-bearing:120 kg (Right) Load-bearing:120 kg (Left) Load-bearing:120 kg (Right) 20.5x41x40 mm, Load-bearing:140 kg 49x41x40 mm, Load-bearing:140 kg 20.5x41x40 mm, Load-bearing:180 kg 49x41x40 mm, Load-bearing:180 kg	P266, P267, P268, P269, P270, P271
8	Anti Slide Clamping Block	D000049	1	Suitable for 120 kg Reinforced Hinge	P265
9	Sash Height Adjusting Block	D000007	1	Suitable for 120 kg Reinforced Hinge	P265
10	Flush-Fit Hinge Gasket	D140001 D140002 D140003 D140004 D140005	2~3	7x40 mm Gasket, Suitable for 140 kg, 180 kg Hinge 8x40 mm Gasket, Suitable for 140 kg, 180 kg Hinge 8.5x40 mm Gasket, Suitable for 140 kg, 180 kg Hinge 10x40 mm Gasket, Suitable for 140 kg, 180 kg Hinge 11x40 mm Gasket, Suitable for 140 kg, 180 kg Hinge	P265
11	Handle Screw Pack		1		P252
12	Spindle Screw Pack		1		P251

*Flat Handle is Available



HINGED DOOR HARDWARE SERIES
Double-Panel with Multi-Point Lock + Connecting Strip Configuration



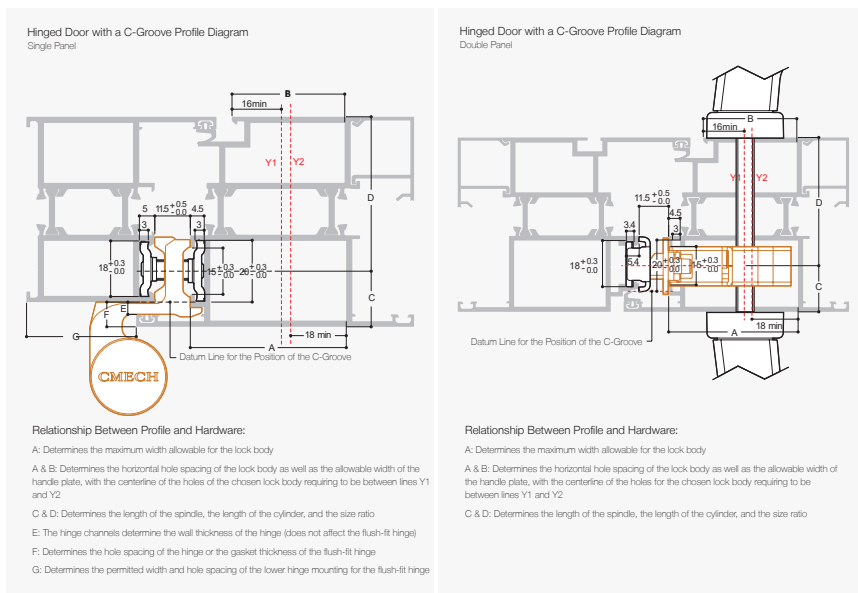
HINGED DOOR HARDWARE SERIES
Configuration Table - Double-Panel with Multi-Point Lock + Connecting Strip

N.o.	Description	P/N	Qty	Notes	Ref. Page
1	Spindle Drive Handle (Type D)	D010601	1	Milan Handle with Cylinder	P253, P254
		D010433		Berlin Handle with Cylinder	
		D010233		Koln Handle with Cylinder	
		D010133		New York Handle with Cylinder	
		D010602		Milan Handle without Cylinder	
		D010434		Berlin Handle without Cylinder	
2	Lock Body	D030038	1	Lock Distance: 28 mm, Plate: 22x395 mm	P260
		D030039		Lock Distance: 33 mm, Plate: 22x395 mm	
		D030042		Lock Distance: 38 mm, Plate: 22x395 mm	
3	Cylinder		1		P272, P273
4	Lock Point	A090001	2	Ø9,5x6,0 mm	P91, P92, P93
		A090005		Ø9,5x7,0 mm	
		A090007		End Lock Point Ø9,5x6,0 mm	
		A090008		End Lock Point Ø9,5x7,0 mm	
5	Active Lock Point	A090002	2	Dual-Stage Active Lock Point Ø9,5x8,75 mm	P99
		A090009		Central Lock Point Ø9,5x6,0 mm	
		A090010		Central Lock Point Ø9,5x7,0 mm	
6	Connecting Strip			Provided by Customer or Cmech	
7	Adjustable Strike	D100012 G100001 G100002	1		P263
8	Keeper	A100127 A100122	2~4	Keeper Pry-Resistant Keeper with Bearing	P94
9	Bi-Directional Shootbolt Connector	D070010 D070011	1		P264
10	Shootbolt	A070001 A070003 D070012	2	19,6 mmx156 mm 19,6 mmx90 mm	P264
11	Shootbolt Bracket	D070003 D070004 D070007 D070013	2	For a C-Groove Pitch of 6,0 mm For a C-Groove Pitch of 5,0 mm For a Grooveless Frame Profile	P263
12	120 kg Reinforced Hinge	D040017	2~3	With Standard Clamping Block, Load-bearing:120 kg (Left)	P266, P267 P268, P269 P270, P271
	120 kg Reinforced Hinge	D040018		With Standard Clamping Block, Load-bearing:120 kg (Right)	
	120 kg Flush-Fit Hinge	D040019		Load-bearing:120 kg (Left)	
	120 kg Flush-Fit Hinge	D040020		Load-bearing:120 kg (Right)	
	140 kg Flush-Fit Hinge	D040003		20,5x41x40 mm, Load-bearing:140 kg	
	180 kg Flush-Fit Hinge	D040013		49x41x40 mm, Load-bearing:180 kg	
13	Anti Slide Clamping Block	D000049	1	20,5x41x40 mm, Load-bearing:180 kg	P265
		D000049		49x41x40 mm, Load-bearing:180 kg	
		D000049		49x41x40 mm, Load-bearing:180 kg	
14	Sash Height Adjusting Block	D000007	1	Suitable for 120 kg Reinforced Hinge	P265
15	Flush-Fit Hinge Gasket	D140001	2~3	7x40 mm Gasket, Suitable for 140 kg, 180 kg Hinge	P265
		D140002		8x40 mm Gasket, Suitable for 140 kg, 180 kg Hinge	
		D140003		8,5x40 mm Gasket, Suitable for 140 kg, 180 kg Hinge	
		D140004		10x40 mm Gasket, Suitable for 140 kg, 180 kg Hinge	
		D140005		11x40 mm Gasket, Suitable for 140 kg, 180 kg Hinge	
16	Handle Screw Pack		1		P252
17	Spindle Screw Pack		1		P251

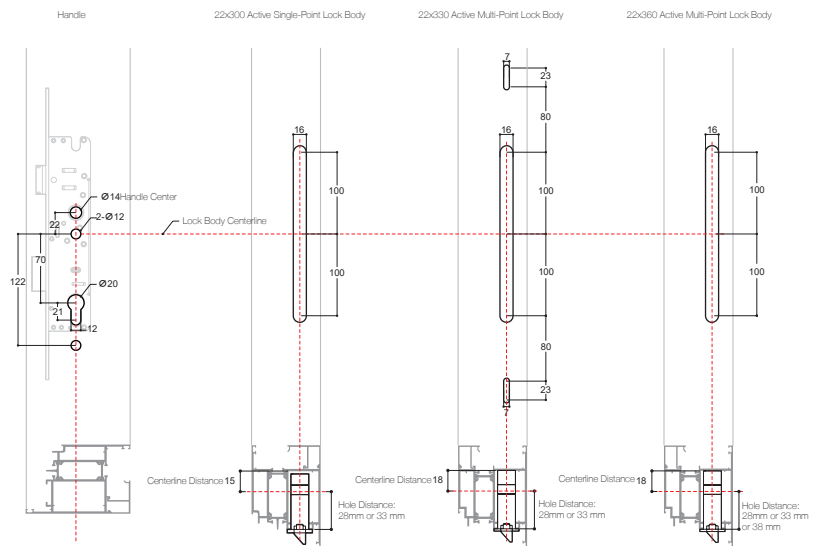
*Flat Handle is Available



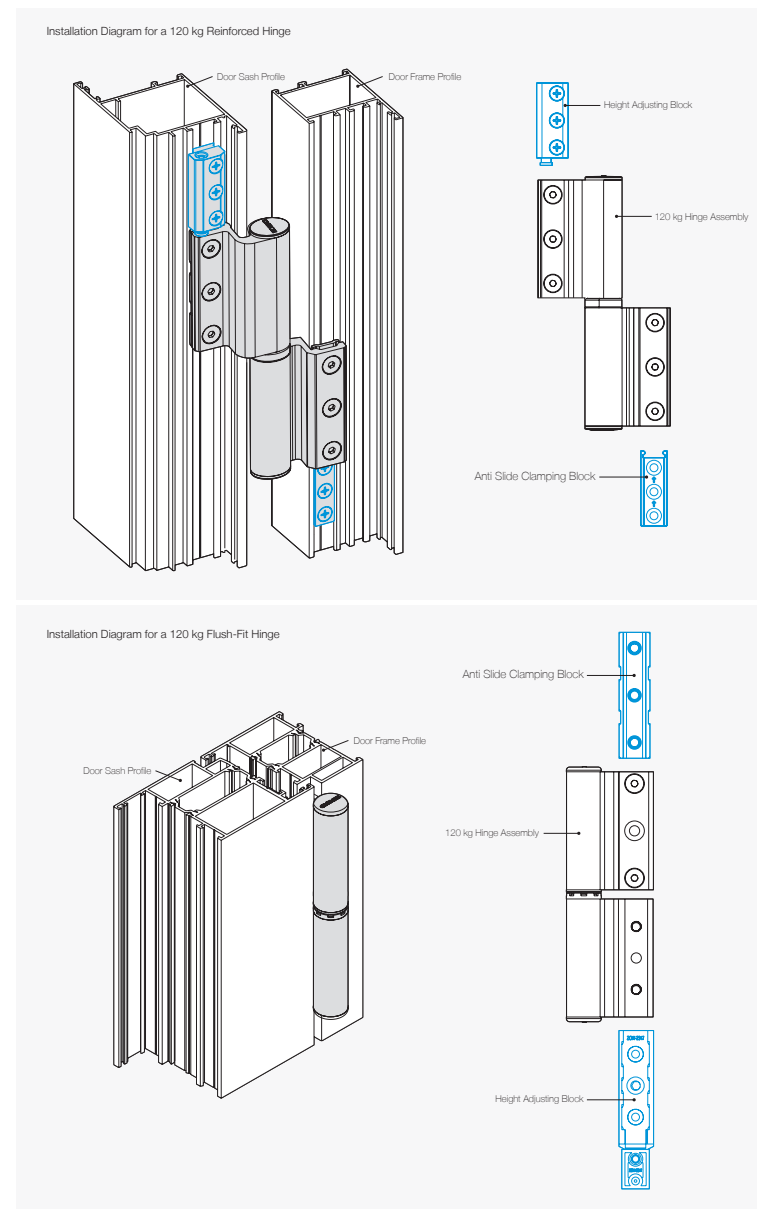
HINGED DOOR PROFILE AND DRILLING REQUIREMENTS



Drill Hole Drawing

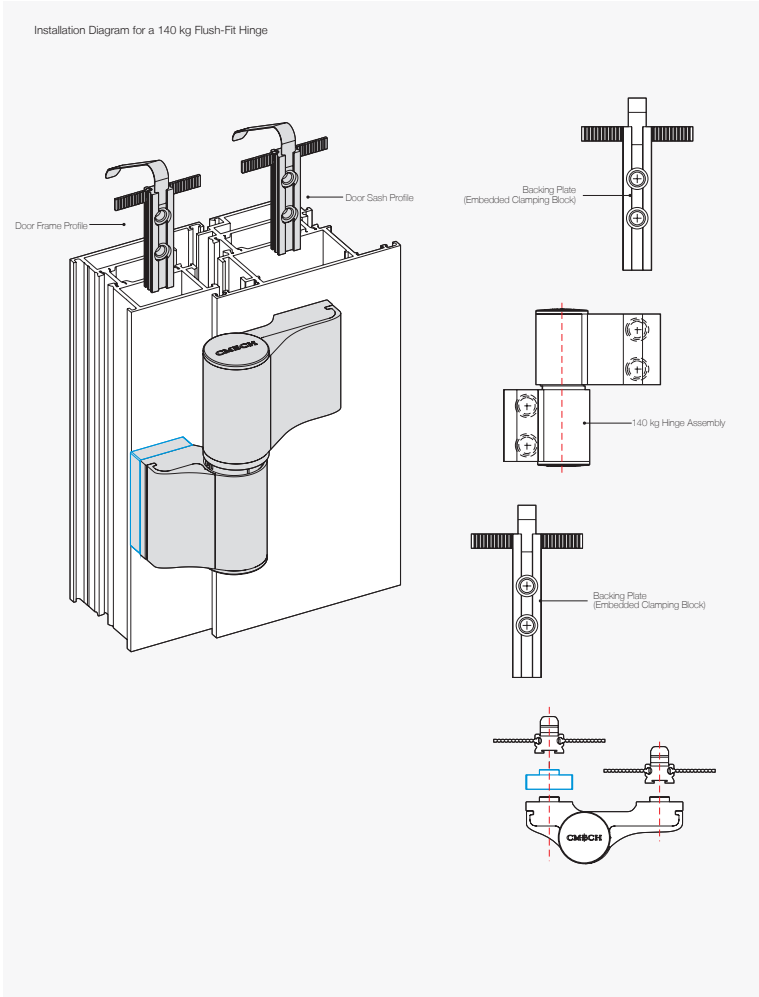


HINGE INSTALLATION INSTRUCTIONS

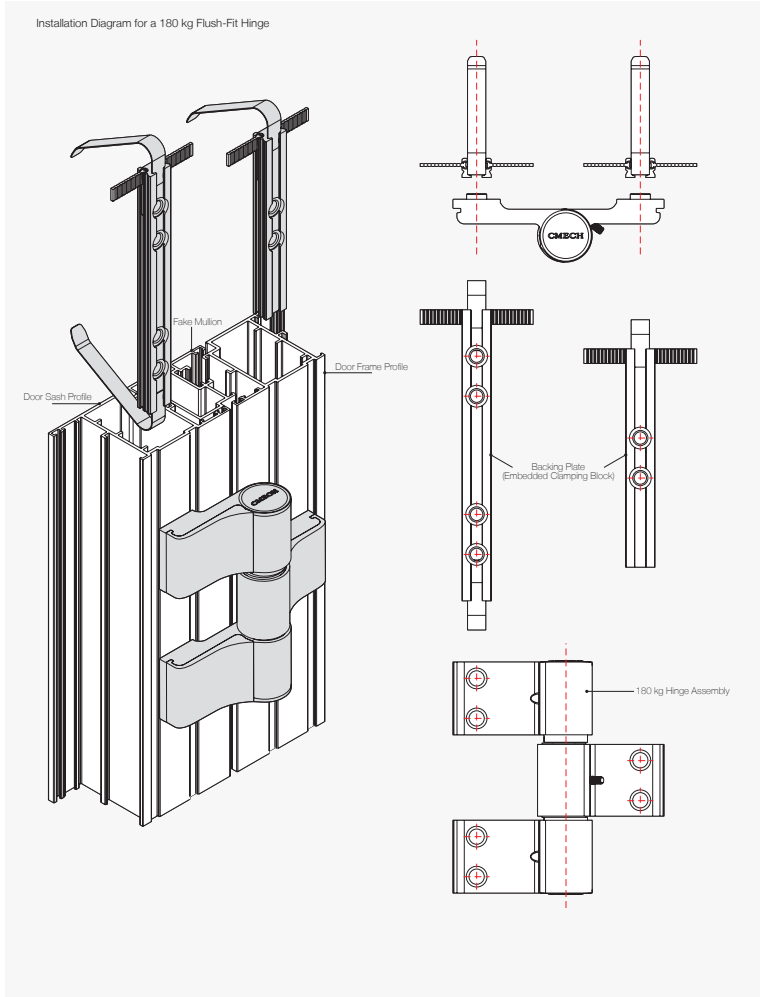




HINGE INSTALLATION INSTRUCTIONS



HINGE INSTALLATION INSTRUCTIONS



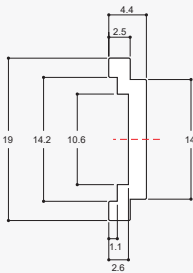


CONNECTING STRIP CUTTING AND DRILLING INSTRUCTIONS
(For a 22x359 Active Multi-Point Lock Body)

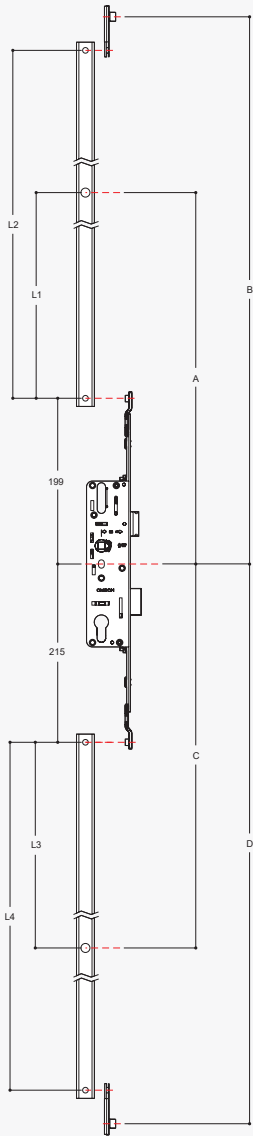
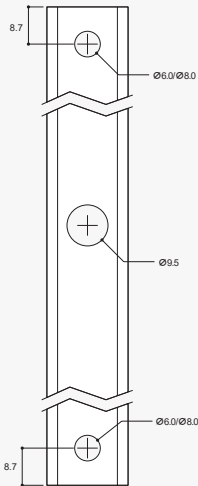
1. Dimensions for Aluminum Connecting Strip

L1=A-199
L2=B-199-37
L3=C-215
L4=D-215-37
(Note: The Sizes of A, B, C, D are Chosen by Door Manufacturer)

2. Sectional View of Aluminum Connecting Strip



3. Drill Hole Drawing for Aluminum Connecting Strip

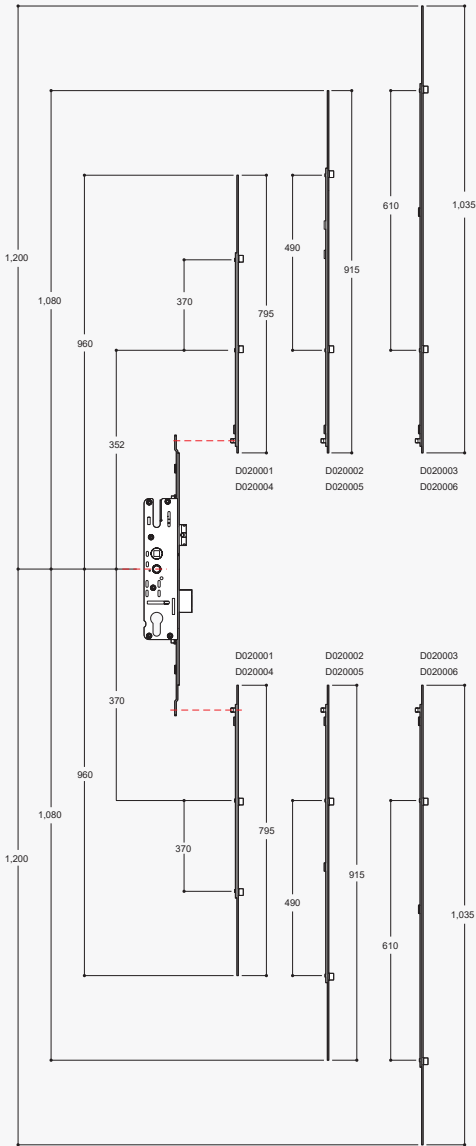


ESPAÑOLETE BOLT SELECTION
(For a 22x330 Active Multi-Point Lock Body)

Espagnolette Bolt Measurements

P/N	Spec/Imm	Descriptions
D020001	22x960	304SS
D020002	22x1,080	304SS
D020003	22x1,200	304SS
D020004	22x960	Lock Point with Bearing 304SS
D020005	22x1,080	Lock Point with Bearing 304SS
D020006	22x1,200	Lock Point with Bearing 304SS

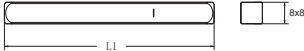
Note:
1. The lock body is a 22x330 Active Multi-Point Lock Body.
2. The dimensions are given in the locked position.
3. The end of the transmission rod can be trimmed based on the actual height of the door.
4. The P/Ns only represent different transmission rod materials. The installation measurements remain the same.



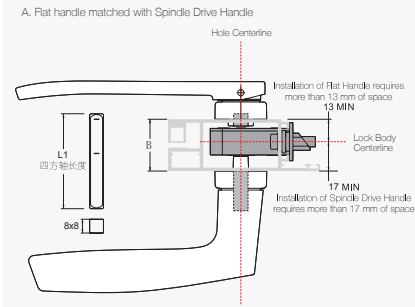


SPINDLE SELECTION

P/N	Specifications	P/N	Specifications	P/N	Specifications
D000051	32 mm	D000060	65 mm	D000069	110 mm
D000052	35 mm	D000061	70 mm	D000070	115 mm
D000053	38 mm	D000062	75 mm	D000071	125 mm
D000054	41 mm	D000063	80 mm	D000072	135 mm
D000055	46 mm	D000064	85 mm	D000090	120 mm
D000056	51 mm	D000065	90 mm	D000091	130 mm
D000057	55 mm	D000066	95 mm	D000092	150 mm
D000058	57 mm	D000067	100 mm	D000094	140 mm
D000059	60 mm	D000068	105 mm	D000095	145 mm

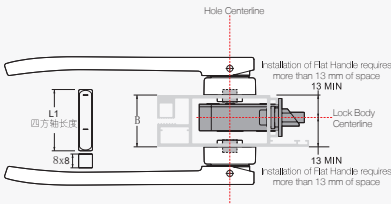


Formula for Calculating the Spindle Length:



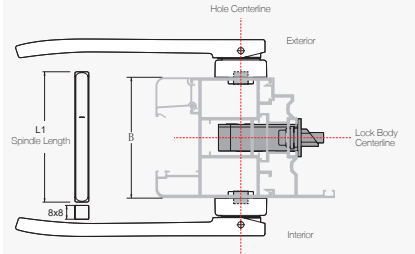
Formula for Calculating the Spindle Length:
B ← Profile Sash Thickness
L1 ← Spindle Length
L1 = B+30
L1 Size Range: +0.5, -2.0
Select the required lengths of the standard parts according to the Size L1.
If unavailable, they will need to be customized.

B. Flat Handle matched with Flat Handle



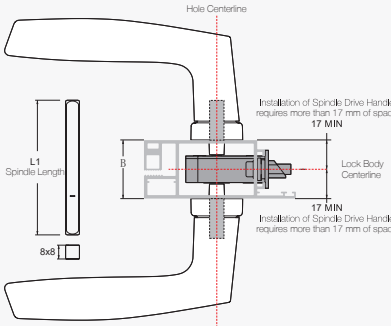
Formula for Calculating the Spindle Length:
B ← Profile Sash Thickness
L1 ← Spindle Length
L1 = B+19
L1 Size Range: +0.5, -2.0
Select the required lengths of the standard parts according to the Size L1.
If unavailable, they will need to be customized.

C. Flat Handle matched with Flat Handle (Bi-Folding Door Hardware)



Formula for Calculating the Spindle Length:
B ← Profile Sash Thickness
L1 ← Spindle Length
L1 = B+19
L1 Size Range: +0.5, -2.0
Select the required lengths of the standard parts according to the Size L1.
If unavailable, they will need to be customized.

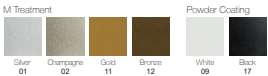
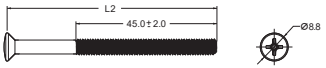
D. Spindle Drive Handle matched with Spindle Drive Handle



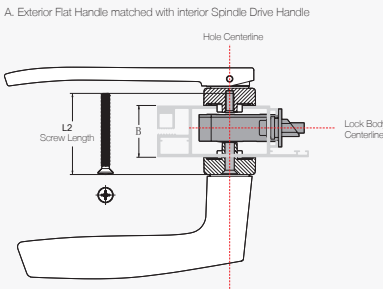
Formula for Calculating the Spindle Length:
B ← Profile Sash Thickness
L1 ← Spindle Length
L1 = B+40
L1 Size Range: +1.5, -4.0
Select the required lengths of the standard parts according to the Size L1.
If unavailable, they will need to be customized.

SCREW PACK SELECTION

P/N	Specifications	P/N	Specifications
D000073	40 mm	D000082	75 mm
D000074	45 mm	D000083	80 mm
D000075	47.5 mm	D000084	85 mm
D000076	50 mm	D000085	90 mm
D000077	52.5 mm	D000086	95 mm
D000078	55 mm	D000087	100 mm
D000079	60 mm	D000088	105 mm
D000080	65 mm	D000089	110 mm
D000081	70 mm	D000096	115 mm
		D000097	120 mm

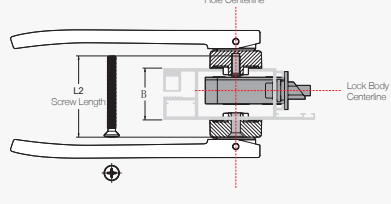


Formula for Calculating the Screw Length:



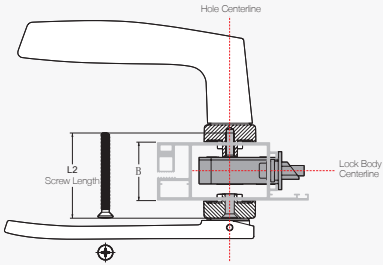
Formula for Calculating the Screw Length:
B ← Profile Sash Thickness
L2 ← Screw Length
L2 = B+16.5
L2 Size Range: +0.5, -3.0
Select the required lengths of the standard parts according to the Size L2.
If unavailable, they will need to be customized.

B. Exterior Flat Handle matched with Interior Flat Handle



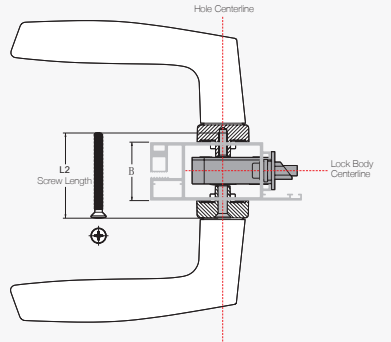
Formula for Calculating the Screw Length:
B ← Profile Sash Thickness
L2 ← Screw Length
L2 = B+16.5
L2 Size Range: +0.5, -3.0
Select the required lengths of the standard parts according to the Size L2.
If unavailable, they will need to be customized.

C. Interior Flat Handle matched with Exterior Spindle Drive Handle



Formula for Calculating the Screw Length:
B ← Profile Sash Thickness
L2 ← Screw Length
L2 = B+15
L2 Size Range: +0.5, -5.0
Select the required lengths of the standard parts according to the Size L2.
If unavailable, they will need to be customized.

D. Spindle Drive Handle matched with Spindle Drive Handle



Formula for Calculating the Screw Length:
B ← Profile Sash Thickness
L2 ← Screw Length
L2 = B+15
L2 Size Range: +0.5, -5.0
Select the required lengths of the standard parts according to the Size L2.
If unavailable, they will need to be customized.



HANDLE SELECTIONS

MILAN SERIES
Spindle Drive Handle (Type D)



P/N	Description
D010601-	Double Side with Cylinder
D010602-	Double Side without Cylinder

P/N	Description
D010603-	Single Side with Cylinder (Interior)
D010604-	Single Side with Cylinder (Exterior)

P/N	Description
D010605-	Single Side without Cylinder (Interior)
D010606-	Single Side without Cylinder (Exterior)

M Treatment

Silver01

Champagne02

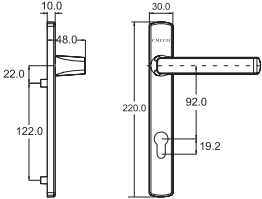
Gold11

Brass12

Powder Coating

White09

Black17



BERLIN SERIES
Spindle Drive Handle (Type D)



P/N	Description
D010433-	Double Side with Cylinder
D010434-	Double Side without Cylinder

P/N	Description
D010429-	Single Side Fixed without Cylinder (Left Handle, Exterior)
D010430-	Single Side Fixed without Cylinder (Right Handle, Interior)

P/N	Description
D010431-	Single Side Fixed without Cylinder (Right Handle, Exterior)
D010432-	Single Side Fixed without Cylinder (Left Handle, Interior)

M Treatment

Silver01

Champagne02

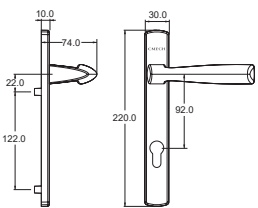
Gold11

Brass12

Powder Coating

White09

Black17



HANDLE SELECTIONS

KOLN SERIES
Spindle Drive Handle (Type D)



P/N	Description
D010233-	Double Side with Cylinder
D010234-	Double Side without Cylinder

P/N	Description
D010229-	Single Side Fixed without Cylinder (Left Handle, Exterior)
D010230-	Single Side Fixed without Cylinder (Right Handle, Interior)

P/N	Description
D010231-	Single Side Fixed without Cylinder (Right Handle, Exterior)
D010232-	Single Side Fixed without Cylinder (Left Handle, Interior)

M Treatment

Silver01

Champagne02

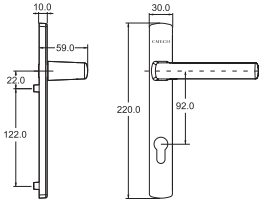
Gold11

Brass12

Powder Coating

White09

Black17



FLAT HANDLE



P/N	Description
D010443-	Single Side with Cylinder (Interior)
D010444-	Single Side with Cylinder (Exterior)

P/N	Description
D010445-	Single Side without Cylinder (Interior)
D010446-	Single Side without Cylinder (Exterior)

M Treatment

Silver01

Champagne02

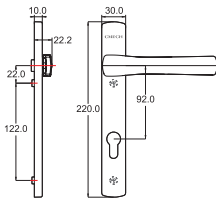
Gold11

Brass12

Powder Coating

White09

Black17





DOOR HANDLES SELECTION TABLE

P/N	Description	Adjustable										Note
		Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Adjustable	
D010601	With Cylinder -Milan Series	✓										Hinged Door
D010603	With Cylinder (Interior/Exterior) -Milan Series		✓						Optional			Can be Matched with RFI Handle
D010604	With Cylinder Exterior/Milan Series	✓								Optional		Can be Matched with RFI Handle
D010602	Without Cylinder -Milan Series			✓								Hinged Door
D010605	Without Cylinder (Interior/Exterior) -Milan Series				✓					Optional		Can be Matched with RFI Handle
D010606	Without Cylinder Exterior/Milan Series				✓						Optional	Can be Matched with RFI Handle
D010607	With Cylinder(Interior) +Flat Handle(Exterior)					✓						Hinged Door or Casement Door with Flyscreen
D010608	With Cylinder(Exterior) +Flat Handle(Interior)	✓								✓		Hinged Door or Casement Door with Flyscreen
D010609	Without Cylinder(Interior) +Flat Handle(Exterior)							✓				Hinged Door or Casement Door with Flyscreen
D010610	Without Cylinder(Exterior) +Flat Handle(Interior)			✓							✓	Hinged Door or Casement Door with Flyscreen



DOOR HANDLES SELECTION TABLE

P/N	Description	Fixed										Note
		Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Adjustable	
D010227	Fixed without Cylinder (Left Handle/Right Series)	✓										Left Hand Door (Exterior View)
D010228	Fixed without Cylinder (Right Handle/Left Series)		✓									Right Hand Door (Exterior View)
D010229	Fixed without Cylinder (Left Handle, Exterior/Right Series)			✓								Select as Required
D010230	Fixed without Cylinder (Right Handle, Interior/Left Series)				✓							Select as Required
D010231	Fixed without Cylinder (Right Handle, Exterior/Left Series)					✓						Select as Required
D010232	Fixed without Cylinder (Left Handle, Interior/Right Series)						✓					Select as Required
D010233	With Cylinder -Kon Series							✓				Hinged Door
D010235	With Cylinder(Interior) -Kon Series								✓			Can be Matched with RFI Handle
D010236	With Cylinder(Exterior) -Kon Series									Optional		Can be Matched with RFI Handle
D010234	Without Cylinder -Kon Series											Hinged Door
D010237	Without Cylinder(Interior) -Kon Series										Optional	Can be Matched with RFI Handle
D010238	Without Cylinder(Exterior) -Kon Series									✓		Can be Matched with RFI Handle
D010419	With Cylinder (Interior) -Flat Handle								Optional			Can be Matched with Hinged Door Handle
D010420	With Cylinder (Exterior) -Flat Handle									Optional		Can be Matched with Hinged Door Handle
D010425	Without Cylinder (Interior) -Flat Handle										Optional	Can be Matched with Hinged Door Handle
D010426	Without Cylinder (Exterior) -Flat Handle										✓	Can be Matched with Hinged Door Handle



DOOR HANDLES SELECTION TABLE

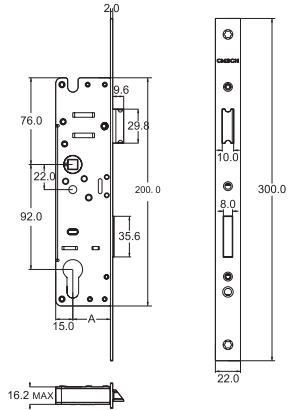
P/N	Description	Door Handles Selection Table										Note
		Fixed	Fixed	Fixed	Fixed	Fixed	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable	
D010427	Fixed without Cylinder (Left Handle) Bath Series	✓										Left-hand Door (Exterior View)
D010428	Fixed without Cylinder (Right Handle) Bath Series		✓									Right-hand Door (Exterior View)
D010429	Fixed without Cylinder (Left Handle, Exterior) Bath Series			✓								Select as Required
D010430	Fixed without Cylinder (Right Handle, Interior) Bath Series				✓							Select as Required
D010431	Fixed without Cylinder (Right Handle, Exterior) Bath Series					✓						Select as Required
D010432	Fixed without Cylinder (Left Handle, Interior) Bath Series						✓					Select as Required
D010433	With Cylinder Bath Series											Hinged Door
D010435	With Cylinder (Interior) Bath Series									Optional		Can be Matched with Rail Handle
D010436	With Cylinder (Exterior) Bath Series									Optional		Can be Matched with Rail Handle
D010434	Without Cylinder Bath Series										✓	Hinged Door
D010437	Without Cylinder (Interior) Bath Series									Optional		Can be Matched with Rail Handle
D010438	Without Cylinder (Exterior) Bath Series									Optional		Can be Matched with Rail Handle
D010419	With Cylinder (Interior) Rail Handle						Optional					Can be Matched with Hinged Door Handle
D010420	With Cylinder (Exterior) Rail Handle						Optional					Can be Matched with Hinged Door Handle
D010425	Without Cylinder (Interior) Rail Handle							Optional			✓	Can be Matched with Hinged Door Handle
D010426	Without Cylinder (Exterior) Rail Handle								Optional		✓	Can be Matched with Hinged Door Handle

Door Handles Selection Table



LOCK BODIES

22x300 Active Single-Point Lock Body

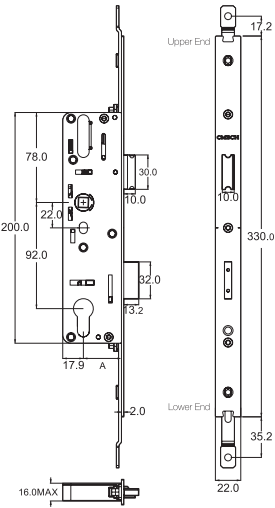


Installation & Optional Sizes are Available

P/N	A	Descriptions
D030040	28	Active Single-Point Lock Body 28 mm
D030041	33	Active Single-Point Lock Body 33 mm

22x330 Active Multi-Point Lock Body

Used with a Transmission Rod



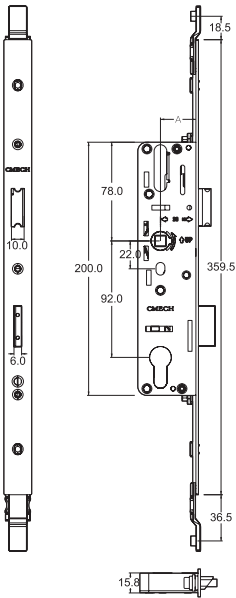
Installation & Optional Sizes are Available

P/N	A	Descriptions
D030036	28	Active Multi-Point Lock Body 28 mm
D030037	33	Active Multi-Point Lock Body 33 mm



LOCK BODIES

22x360 Active Multi-Point Lock Body
Used with an Aluminum Connecting Strip



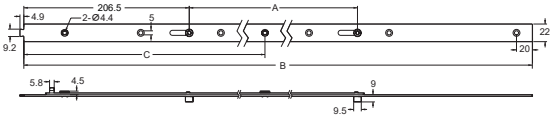
Installation & Optional Sizes are Available

P/N	A	Descriptions
D030038	28	Active Multi-Point Lock Body 28 mm
D030039	33	Active Multi-Point Lock Body 33 mm
D030042	38	Active Multi-Point Lock Body 38 mm



LOCKING HARDWARE

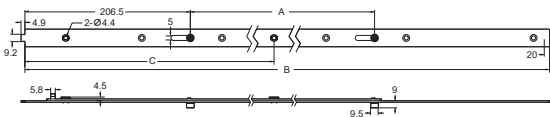
Espagnolette Bolt



P/N	A	B	C	Material
D020001	370	795	-	304SS
D020002	490	915	441	304SS
D020003	610	1,035	501	304SS



Espagnolette Bolt with Bearing



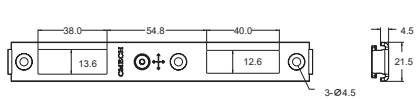
P/N	A	B	C	Material
D020004	370	795	-	304SS
D020005	490	915	441	304SS
D020006	610	1,035	501	304SS



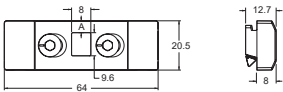


KEEPERS AND OTHER ACCESSORIES

D100012
Adjustable Strike



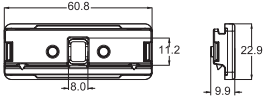
Adjustable Shootbolt Bracket (C-Groove)



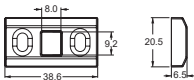
P/N	A
D070003	6 mm
D070004	5 mm



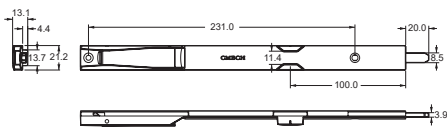
D070013
Shootbolt Bracket



D070007
Shootbolt Bracket (Grooveless)

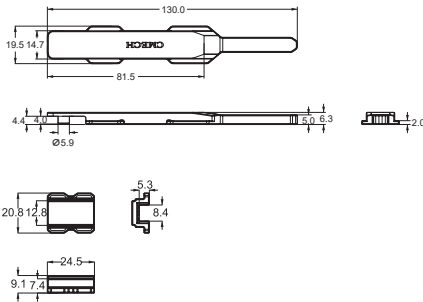


D070006
Shootbolt

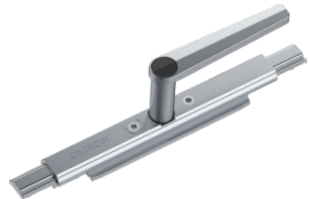
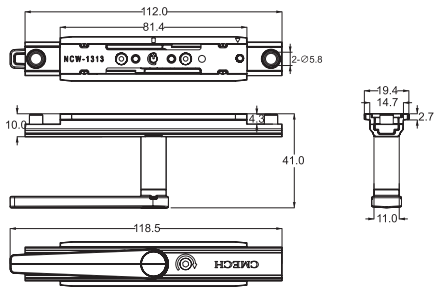


KEEPERS AND OTHER ACCESSORIES

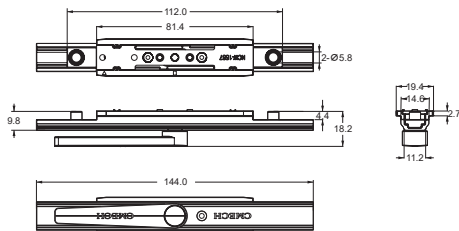
D070012
Shootbolt Part



D070010
Bi Directional Shootbolt Connector



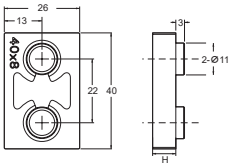
D070011
Bi Directional Shootbolt Connector





KEEPERS AND OTHER ACCESSORIES

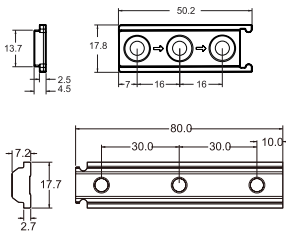
Flush-Fit Hinge Gasket



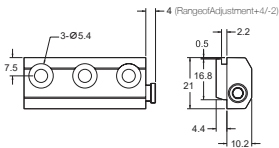
P/N	H	Descriptions
D140001	7	7x40
D140002	8	8x40
D140003	8.5	8.5x40
D140004	10	10x40
D140005	11	11x40



D000049
Anti Slide Clamping Block

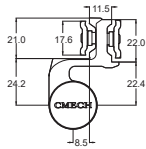
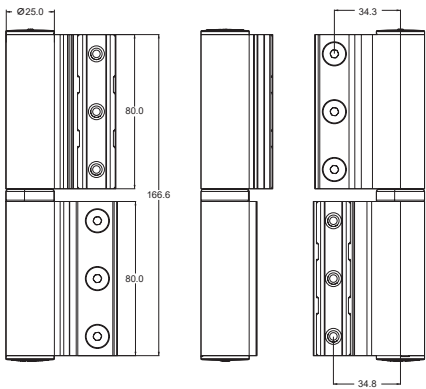


D000007
Sash Height Adjusting Block

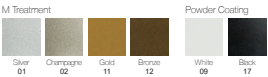


HINGES

120 kg Reinforced Hinge



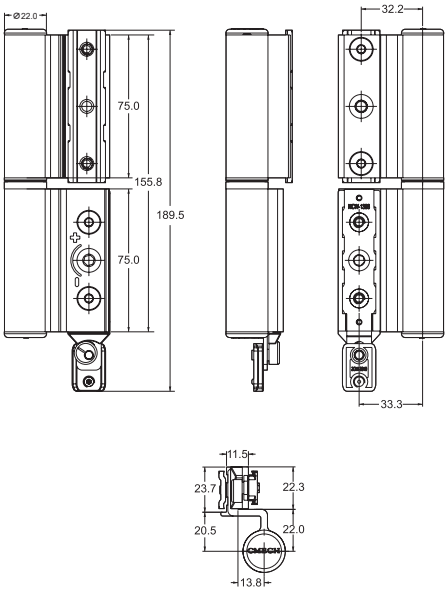
P/N	Descriptions
D040017-	Left
D040018-	Right





HINGES

120 kg Flush-Fit Hinge



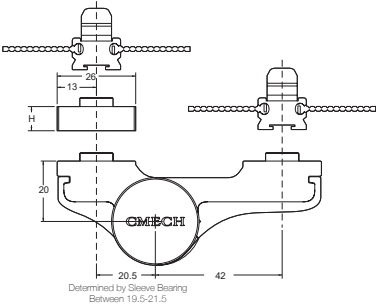
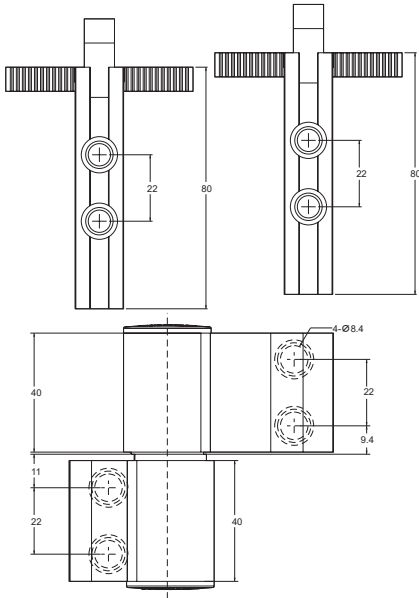
P/N	Descriptions
D040019-	Left
D040020-	Right

M Treatment	Powder Coating
Silver 01	White 09
Champagne 02	Black 17
Gold 11	
Bronze 12	



HINGES

140 kg Flush-Fit Hinge



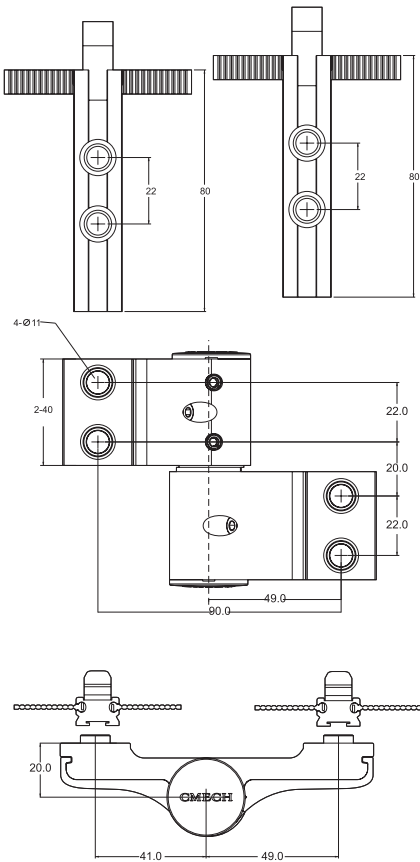
P/N	Description
D040003-	140 kg Flush-Fit Hinge (2 Sections / Centreline Distance 61.5 mm)

M Treatment	Powder Coating
Silver 01	White 09
Champagne 02	Black 17
Gold 11	
Bronze 12	



HINGES

140 kg Flush-Fit Hinge



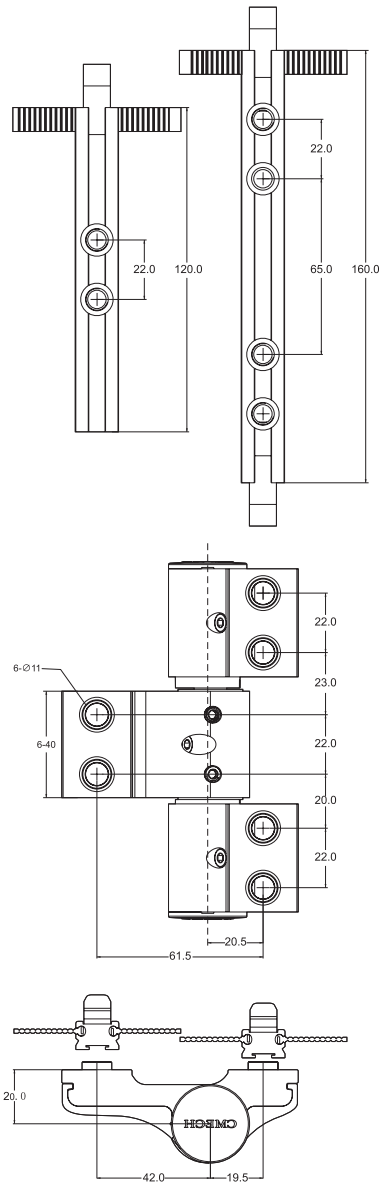
P/N	Description
D040013-	140 kg Flush-Fit Hinge (2 Sections / Centreline Distance 90 mm)

M Treatment	Powder Coating
Silver 01	White 09
Champagne 02	Black 17
Gold 11	
Brass 12	



HINGES

180 kg Flush-Fit Hinge



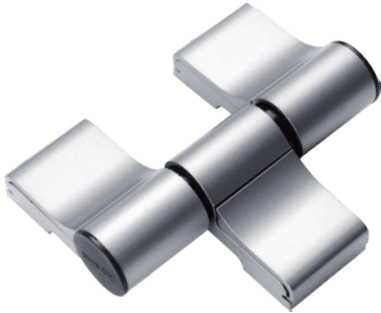
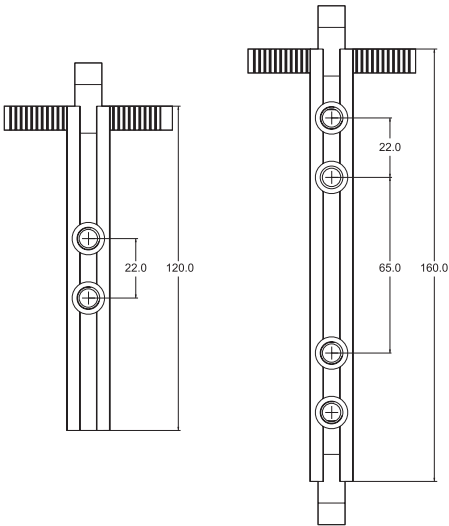
P/N	Description
D040014-	180 kg Flush-Fit Hinge (3 Sections / Centreline Distance 61.5 mm)

M Treatment	Powder Coating
Silver 01	White 09
Champagne 02	Black 17
Gold 11	
Brass 12	

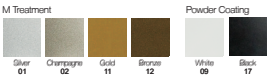
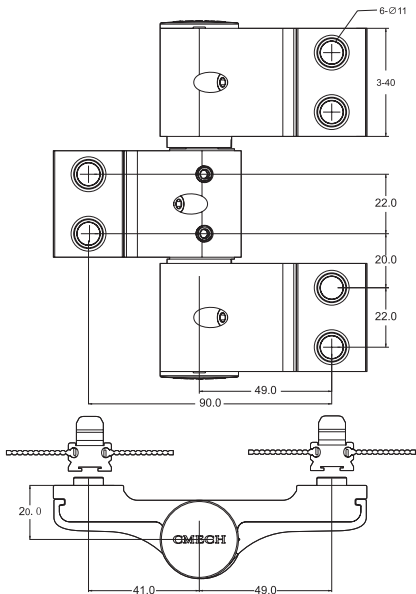


HINGES

180 kg Flush-Fit Hinge

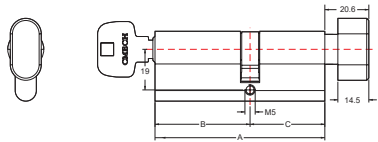


P/N	Description
DD40015~	180 kg Flush-Fit Hinge (3 Sections / Centreline Distance 90 mm)



CYLINDERS

Oval Thumb Turn Brass Cylinder

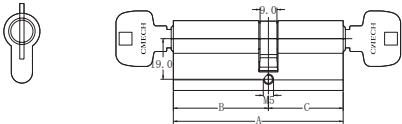


P/N	Description	Specifications		
		A	B	C
D130101	R50 x 30 mm	80	30	50
D130102	R30 x 50 mm	80	50	30
D130103	R45 x 35 mm	80	35	45
D130104	R35 x 45 mm	80	45	35
D130105	R60 x 30 mm	90	30	60
D130106	R30 x 60 mm	90	60	30
D130109	R30 x 55 mm	85	55	30
D130110	R55 x 30 mm	85	30	55
D130111	R35.5 x 35.5 mm	71	35.5	35.5
D130133	R35 x 30 mm	65	30	35
D130134	R30 x 35 mm	65	35	30
F130103	R35 x 50 mm	85	50	35
F130105	R30 x 30 mm	60	30	30
F130106	R60 x 45 mm	95	45	50
F130108	R45 x 50 mm	95	50	45
E130102	R40 x 40 mm	80	40	40
E130103	R45 x 40 mm	85	40	45
D130114	R70 x 30 mm	100	30	70
D130116	R30 x 65 mm	95	65	30
D130119	R65 x 30 mm	95	30	65
D130121	R45 x 45 mm	90	45	45
D130123	R30 x 45 mm	75	45	30
D130124	R45 x 30 mm	75	30	45
D130125	R30 x 70 mm	100	70	30
D130141	R35 x 60 mm	95	60	35
D130142	R60 x 35 mm	95	35	60
D130143	R65 x 35 mm	100	35	65
D130145	R70 x 35 mm	105	35	70
D130152	R60 x 40 mm	100	40	60
D130166	R25x35mm	60	35	25
D130167	R50x40mm	90	40	50
D130168	R90x30mm	120	30	90
D130169	R30x90mm	120	90	30
D130170	R85x35mm	120	35	85
D130171	R35x85mm	120	85	35
D130172	R95x30mm	125	30	95
D130173	R30x95mm	125	95	30
D130174	R90x35mm	125	35	90
D130175	R35x90mm	125	90	35
D130113	R30.5 x 40.5 mm	71	40.5	30.5
D130127	R75 x 30 mm	105	30	75
D130137	R40 x 35 mm	75	35	40
D130138	R50 x 35 mm	85	35	50
D130139	R35 x 55 mm	90	55	35
D130140	R55 x 35 mm	90	35	55
D130151	R40 x 60 mm	100	60	40
D130153	R65x40 mm	105	40	65
D130154	R45x55 mm	100	55	45
D130155	R55x45 mm	100	45	55
D130159	R25x30 mm	55	30	25
D130180	R30x25 mm	55	25	30
D130179	R40x70 mm	110	70	40
D130180	R38x70.5 mm	108.5	70.5	38



CYLINDERS

Double-Sided Keyed Brass Cylinder

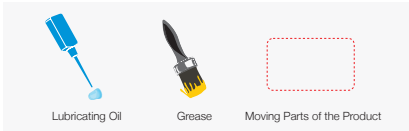


P/N	Description	Specifications		
		A	B	C
D130402	R35.5 x 35.5 mm	71	35.5	35.5
D130409	R30 x 50 mm	80	50	30
D130412	R30 x 55 mm	85	55	30
D130415	R30 x 60 mm	90	60	30
D130418	R45 x 45 mm	90	45	45
D130419	R30 x 65 mm	95	65	30
D130420	R30 x 70 mm	100	70	30
E130403	R40 x 40 mm	80	40	40
F130405	R45 x 35 mm	80	35	45
F130406	R54 x 35 mm	89	35	54
F130407	R45 x 50 mm	95	50	45

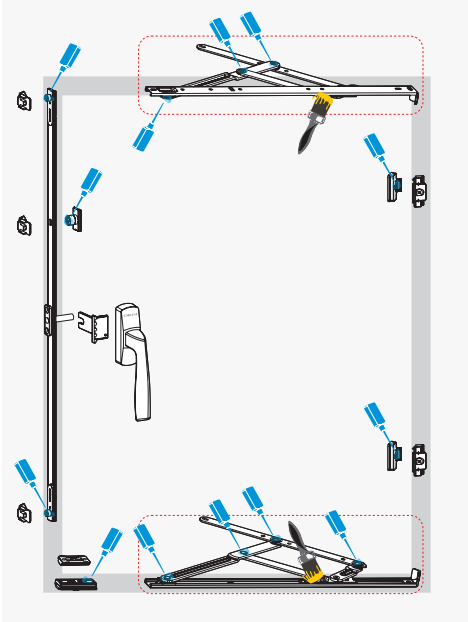


MAINTENANCE

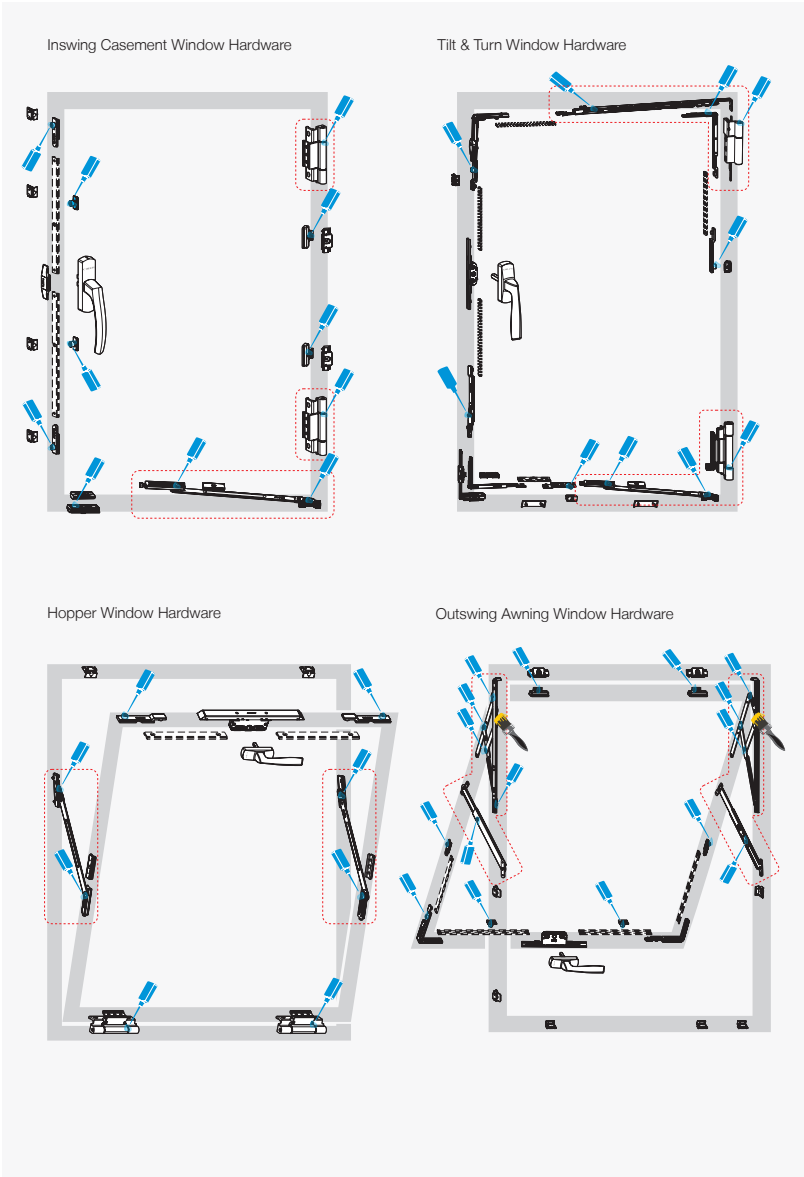
- Please read and follow the instruction manual carefully during installation.
- Please be sure to check the product is working properly once installation is complete.
- Please prepare the appropriate tools and protective gear to facilitate a fast, proper installation and to guarantee safety.
- Add lubricating oil and grease to moving parts, locking brackets and adjustable parts to extend product life.
- The moving parts must be checked to see if they are loose or damaged in order to guarantee safety.
- Carry out maintenance at least once annually.



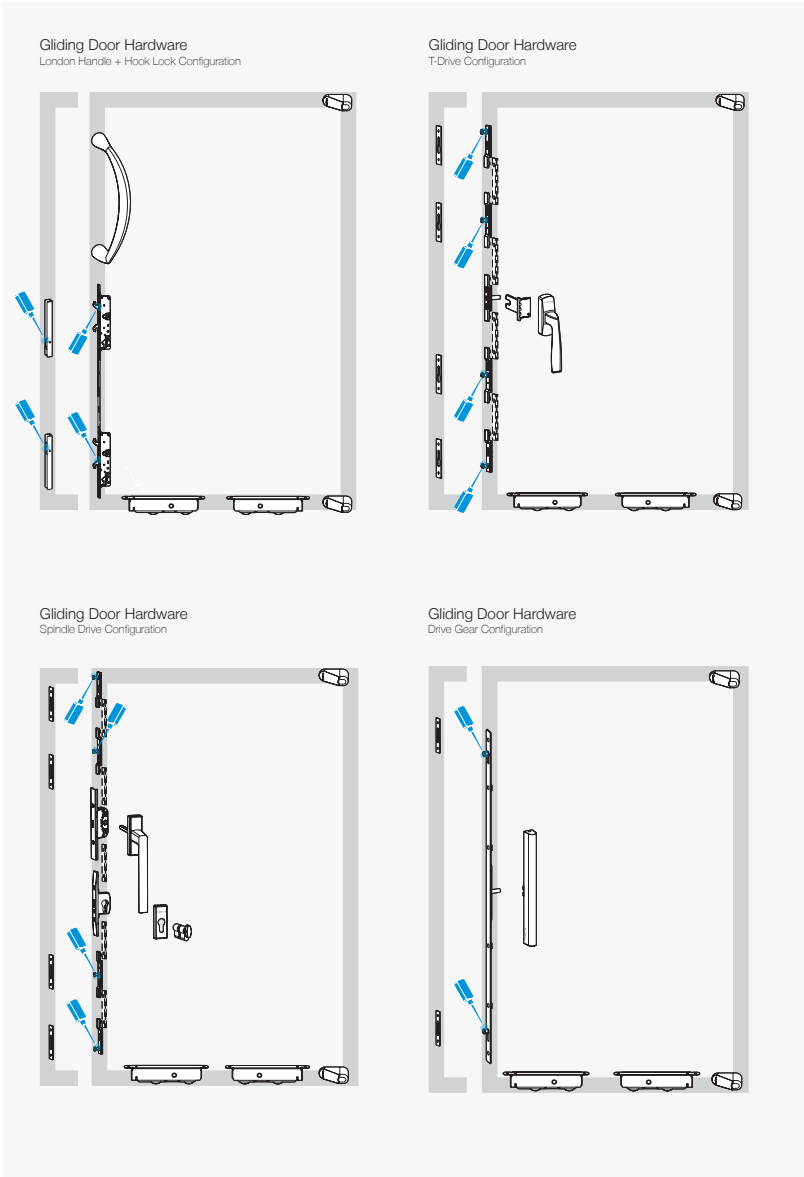
Outswing Casement Window Hardware



MAINTENANCE

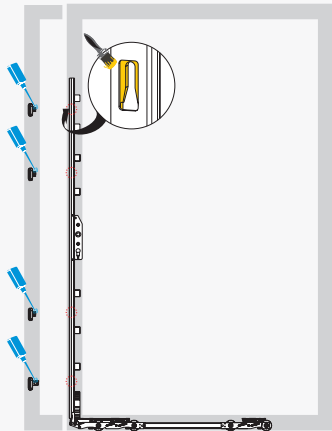


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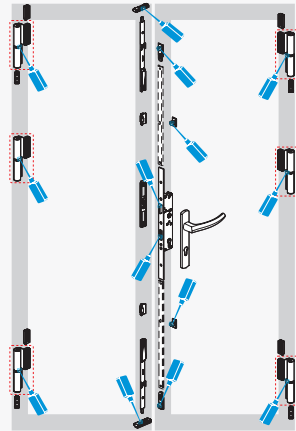


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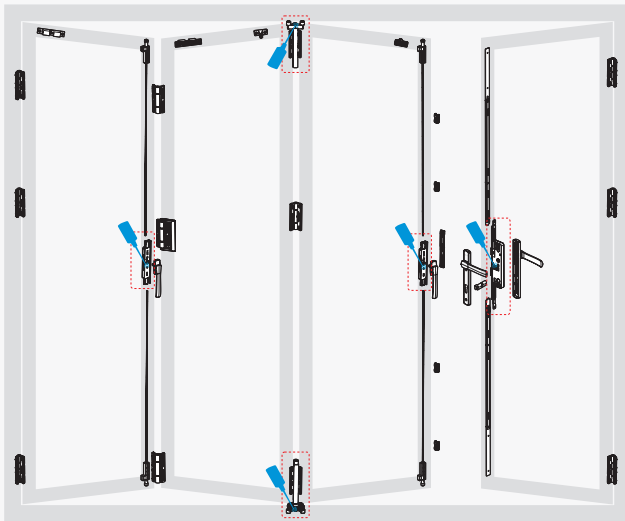
Lift & Slide Door Hardware



Hinged Door Hardware



Bi-Folding Door Hardware



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