CMECH
DOOR & WINDOW HARDWARE CATALOGUE 2024 / 2025

CMECH


CMECH
reddot winner 2022
kapok
WINDOOR FACADE
INNOVATION AWARD
Architecture Technology
Polaris Award
FBC
AWARDS

CMECH

Window & Door Hardware

Established for 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 m^2 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.

Cmech Handles 07

Standard Colors for Handles 08

User's Manual for the Catalogue 09

Window Hardware Series 10

10 Window With Fly Screen Hardware
22 Outswing Casement Window Hardware
29 Outswing French Casement Window Hardware
36 Outswing Awning Window Hardware
41 Outswing Awning Window (Curtain Wall) Hardware
46 Inswing Casement Window Hardware
53 Inswing French Casement Window Hardware
56 Hopper Window Hardware
62 Tilt & Turn Window Hardware

Lift & Slide Series 140

140 Lift & Slide Door Hardware

Gliding Series 156

156 Gliding Door Hardware
195 Gliding Window Hardware

Bi-Folding Door Series 200

200 Bi-Folding Door Hardware

Hinged Door Series 212

212 Hinged Door Hardware

Maintenance 250

250 Maintenance

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.

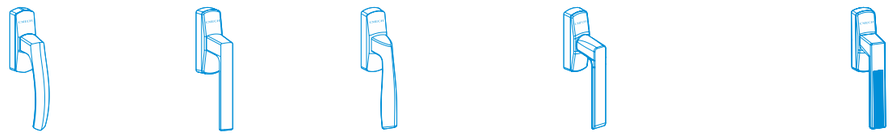
Cmech door and window hardware adds real value to quality real estate.

CMECH HANDLES

NEW YORK SERIES | KOLN SERIES | BERLIN SERIES | MILAN SERIES | P SERIES | HUAYUN SERIES

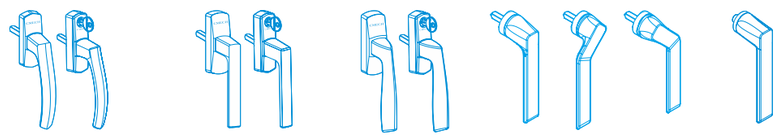
Spindle and Fork Drive Handle (Type W)

- Outswing Casement Window
- Inswing Casement Window
- Outswing Awning Window
- Gliding Door



Spindle Drive Handle (Type W)

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

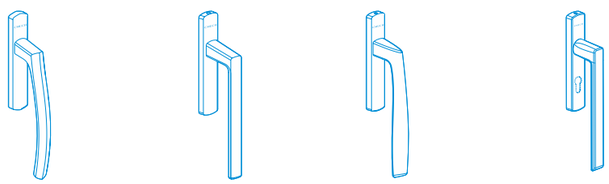


Handle (Type T T)

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

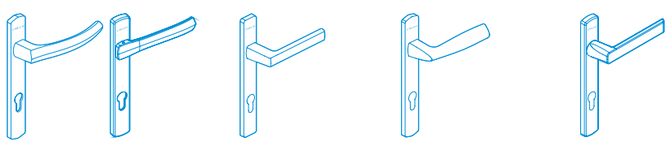
Spindle Drive Handle (Type LS)

- Lift & Slide Door



Spindle Drive Handle (Type D)

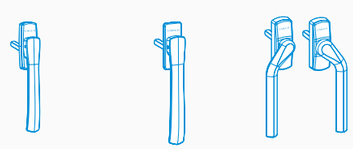
- Hinged Door
- Bi-Folding Door



OTHER SERIES(Type W)

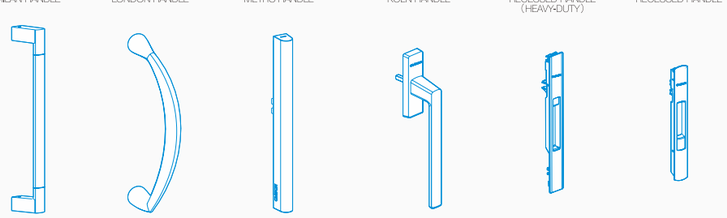
- Outswing Casement Window
- Hopper Window
- Outswing Awning Window
- Bi-Folding Door

FLY SCREEN HANDLE | FLAT HANDLE | TURN HANDLE



Specialized Gliding Handle

MILAN HANDLE | LONDON HANDLE | METRO HANDLE | KOLN HANDLE | RECESSED HANDLE (HEAVY-DUTY) | RECESSED HANDLE



STANDARD COLORS FOR HANDLES

Two types of surface treatments and seven colors are available.

M Treatment

Silver	Champagne	Gold	Bronze
01	02	11	12

Powder Coating

White	Black	Mat Black	Silver	Champagne	Gold	Bronze
09	10	17	C11A	C11B	C11C	C11D

E Treatment

Antique Brass
14

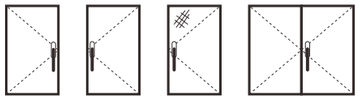
Note: Color is representative only.

USER'S MANUAL FOR THE CATALOGUE

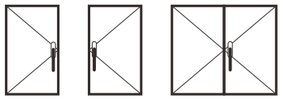
Opening Methods Diagrams

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

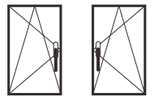
Outswing Window/Door



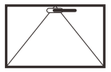
Inswing Window/Door



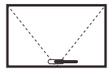
Tilt & Turn Window



Hopper Window



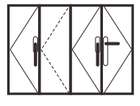
Outswing Awning Window



Lift & Slide Door

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
P: Gliding Window

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

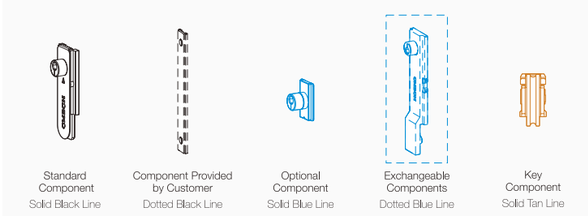
Note: Some parts may appear to be the same hardware components used for both doors and windows.
See the configuration tables for specific information.

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
10 Black
11 Gold
12 Bronze
14 Antique Brass (Only for CHINESE TRADITIONAL HUAYUN handle)
17 Matt Black
C11A Silver
C11B Champagne
C11C Gold
C11D Bronze

Description of Features Graphics



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

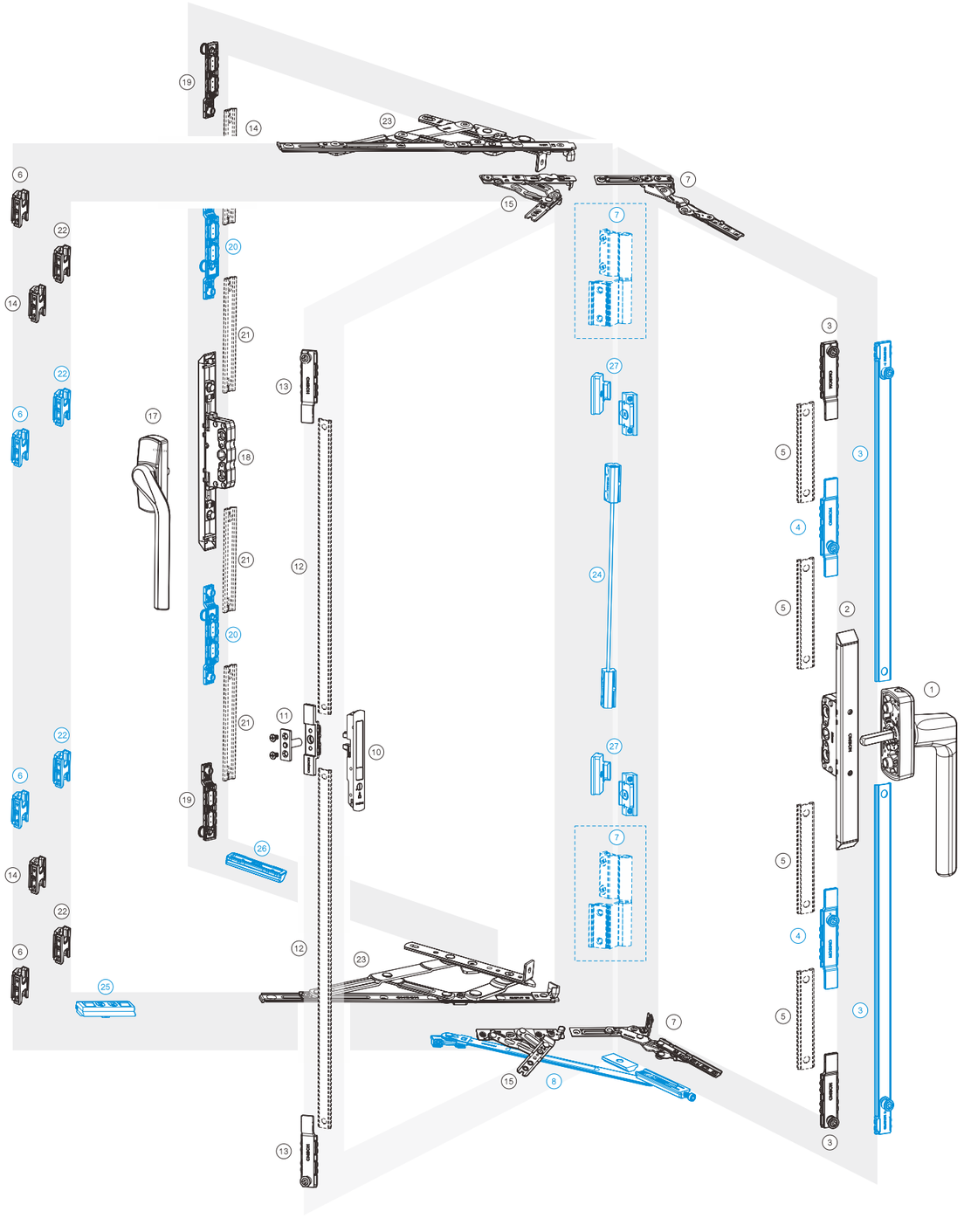
Window with Fly Screen Hardware

- 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
1	Spindle Drive Handle (Type W)	A010609 A010460 A010219 A010611 A010624 A010633	1	S Series Milan Handle S Series Berlin Handle S Series Koln Handle Outswing Casement Window Milan Handle (Without Spindle) Outswing Casement Window Milan Handle (With 21 mm Spindle) Outswing Casement Window Milan Handle (With 21 mm Spindle)
2	Drive Gearbox	A020119 A020134 A020130	1	11 mm Fly Screen Drive Gearbox (Not suitable for Baseless Handle) Hole Center to Attachment Surface: 13 mm Hole Center to Attachment Surface: 22 mm
3	Lock Point	A090032 A090048 A090001 A090005 A090007 A090008 A090035	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 with Bearing Ø8.5x9.3 mm
	Pry-Resistant Connecting Rod with Bearing		1	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 Ø9.3x8.0 mm
5	Connecting Strip			Provided by Customer or Cmech
6	Keeper	A100122 A100127	2~4	Pry-Resistant Keeper with Bearing Keeper
7	Hinge	B040065 B040036	1	165° Clamping Hinge 45 kg Clamping Hinge
8	Limiting Stay	B040041 B040042	1	10" 14"
9	Handle Screw Pack		1	

Configuration Table – Window with Fly Screen and Guard Grills

No.	Description	P/N	Qty	Notes
10	Anti-misoperation Recessed Handle	A010005 A010006	1	Fork Drive Length 21.7mm Fork Drive Length 15.7mm
11	T-Drive	A020129	1	
12	Connecting Strip			Provided by Customer or Cmech
13	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
14	Keeper	A100122 A100127	2	Pry-Resistant Keeper with Bearing Keeper
15	Hinge	B040076	1	90° Fly Screen Hinge
16	Screw Pack	B110012	2	90° Fly Screen Screw Pack

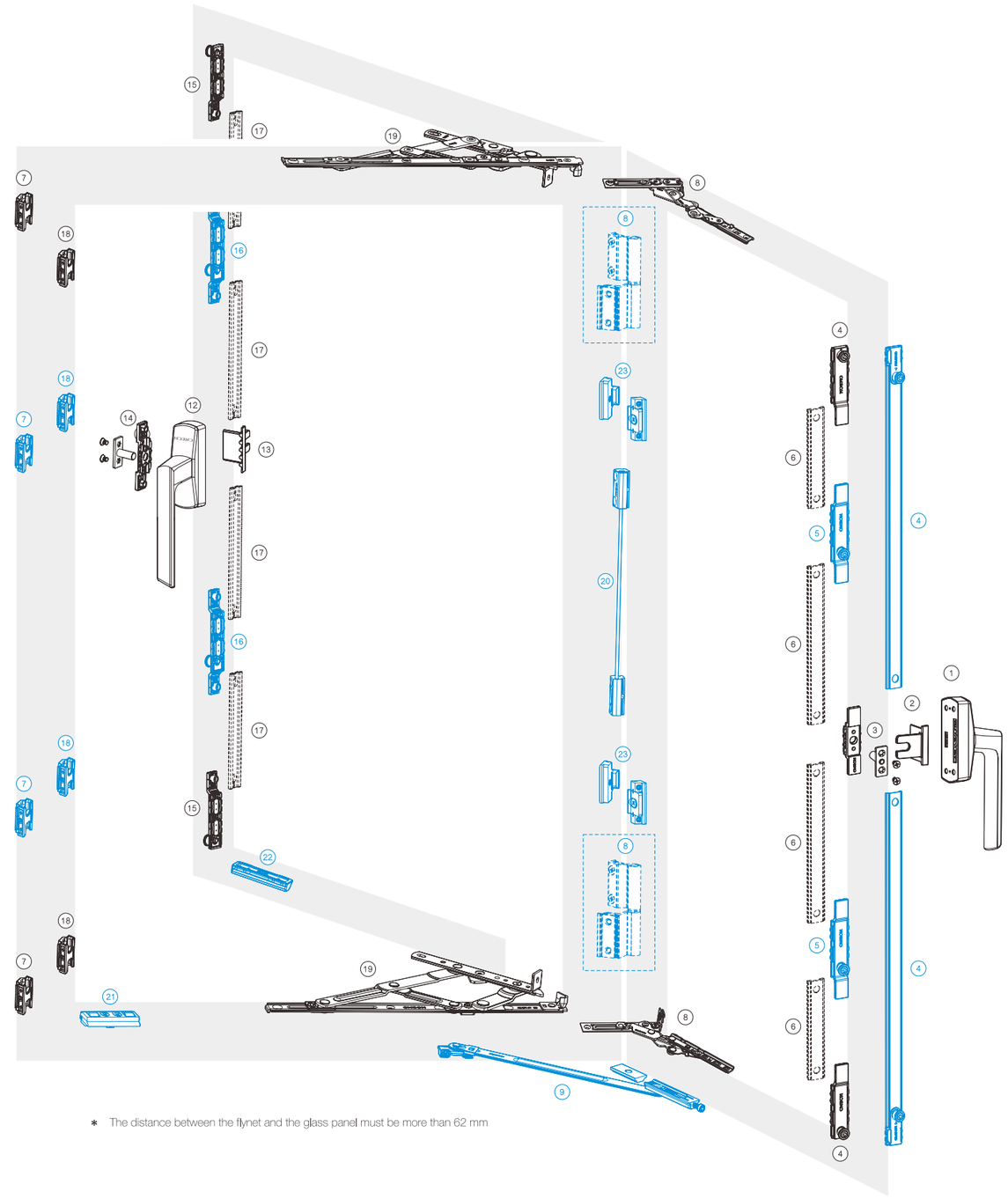
WINDOW WITH FLY SCREEN HARDWARE SERIES

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

No.	Description	P/N	Qty	Notes
17	Spindle Drive Handle	A010408~A010418 A010419~A010429 A010004 A010630 A010461 A010462 A010612 A010613	1	Left Turn Handle Right Turn Handle Fly Screen Handle S Series Milan Handle (40 mm Height) S Series Left Turn Handle S Series Right Turn Handle L Series Milan Left Turn Handle L Series Milan Right Turn Handle
18	Drive Gearbox	A020135 A020131 A020133	1	Hole Center to Attachment Surface: 25 mm Hole Center to Attachment Surface: 30 mm Hole Center to Attachment Surface: 35 mm
19	Lock Point	A090032 A090048 A090001 A090005 A090007 A090008 A090035	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 with Bearing Ø8.5x9.3 mm
	Pry-Resistant Connecting Rod with Bearing		1	Multiple Types Available
20	Central Lock Point	A090033 A090009 A090010 A090034	0~2	Pry-Resistant Central Point with Bearing Ø9.5x6.0 mm Ø9.5x7.0 mm Ø9.3x8.0 mm
21	Connecting Strip			Provided by Customer or Cmech
22	Keeper	A100122 A100127	2~4	Pry-Resistant Keeper with Bearing Keeper
23	Friction Hinge		1	Multiple Types Available
24	Anti-fall Hardware	A120003	1	
25	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
26	Sash Support Block	A080012	1	Height: 7.5 mm
27	Hidden Lock	A100121 A100104	2	For a Double-Sided C-Groove For a Single-Sided C-Groove
28	Handle Screw Pack		1	
29	Friction Hinge Screw Pack		2	Determined by Friction Hinge

WINDOW WITH FLY SCREEN HARDWARE SERIES

Flynet and Glass Panel Integrated Window Configuration (Fork Drive)



* The distance between the flynet and the glass panel must be more than 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
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 Offset Fork Drive, Aluminum Alloy
2	Fork Drive		1	Offset Fork Drive, Multiple Types Available Central Fork Drive, Multiple Types Available
3	T-Drive		1	
4	Lock Point	A090032 A090048 A090001 A090005 A090007 A090008 A090035	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 with Bearing Ø8.5x9.3 mm
	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 Ø9.3x8.0 mm
6	Connecting Strip			Provided by Customer or Cmech
7	Keeper	A100122 A100127	2~4	Pry-Resistant Keeper with Bearing Keeper
8	Hinge	B040065 B040076 B040036	1	165° Clamping Hinge 90° Fly Screen Hinge 45 kg Clamping Hinge
9	Limiting Stay	B040041 B040042	1	10° 14°
10	Handle Screw Pack	A110078	1	
11	Screw Pack	B110012	2	90° Fly Screen Hinge Screw Pack

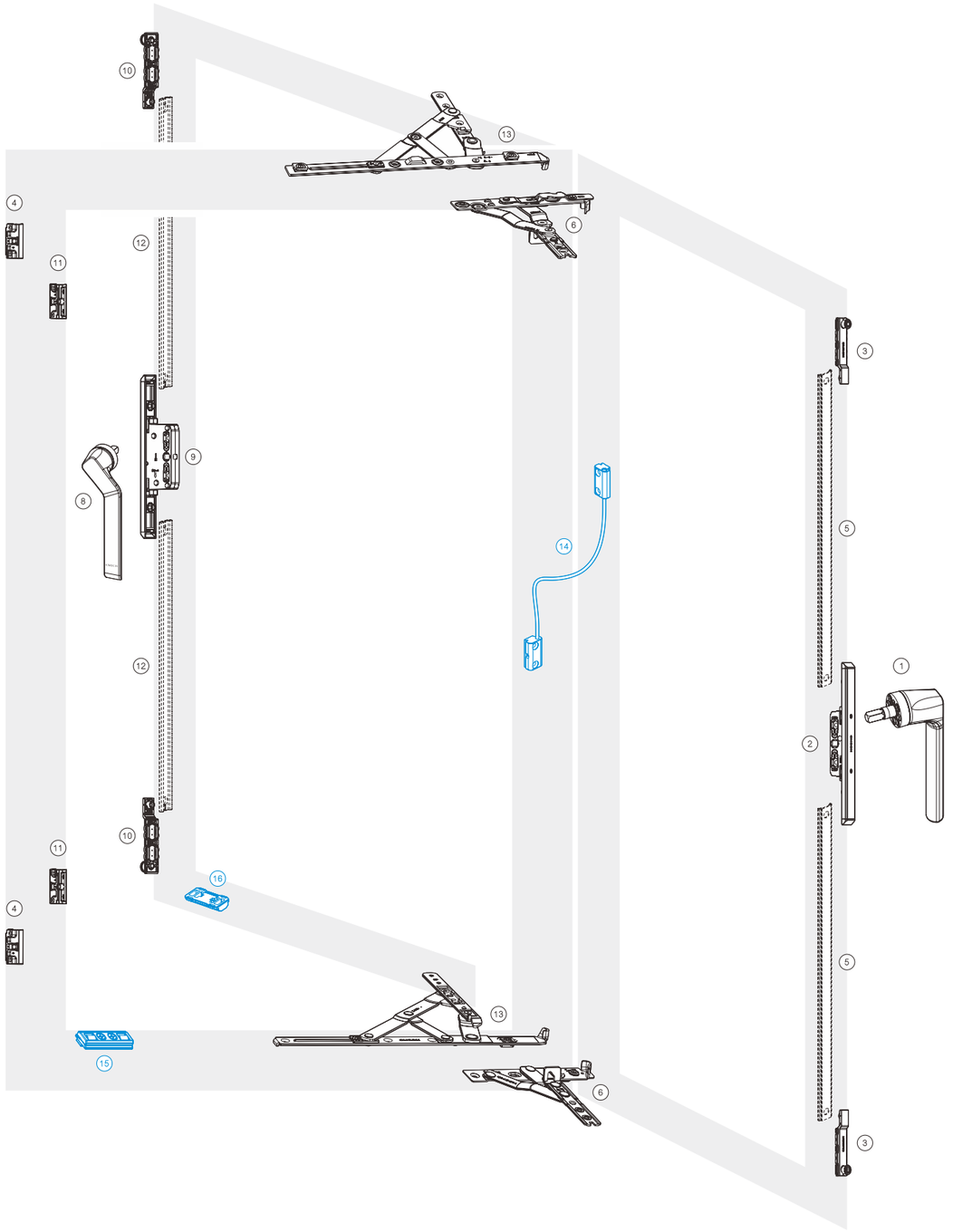
WINDOW WITH FLY SCREEN HARDWARE SERIES

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

No.	Description	P/N	Qty	Notes
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 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 Offset Fork Drive, Aluminum Alloy
13	Fork Drive		1	Offset Fork Drive, Multiple Types Available Central Fork Drive, Multiple Types Available
14	T-Drive		1	
15	Lock Point	A090032 A090048 A090001 A090005 A090007 A090008 A090035	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 with Bearing Ø8.5x9.3 mm
	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 Ø9.3x8.0 mm
17	Connecting Strip			Provided by Customer or Cmech
18	Keeper	A100122 A100127	2~4	Pry-Resistant Keeper with Bearing Keeper
19	Friction Hinge		1	Multiple Types Available
20	Anti-fall Hardware	A120003	1	
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
22	Sash Support Block	A080012	1	Height: 7.5 mm
23	Hidden Lock	A100121 A100104	2	For a Double-Sided C-Groove For a Single-Sided C-Groove
24	Handle Screw Pack		1	
25	Friction Hinge Screw Pack		2	Determined by Friction Hinge

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)

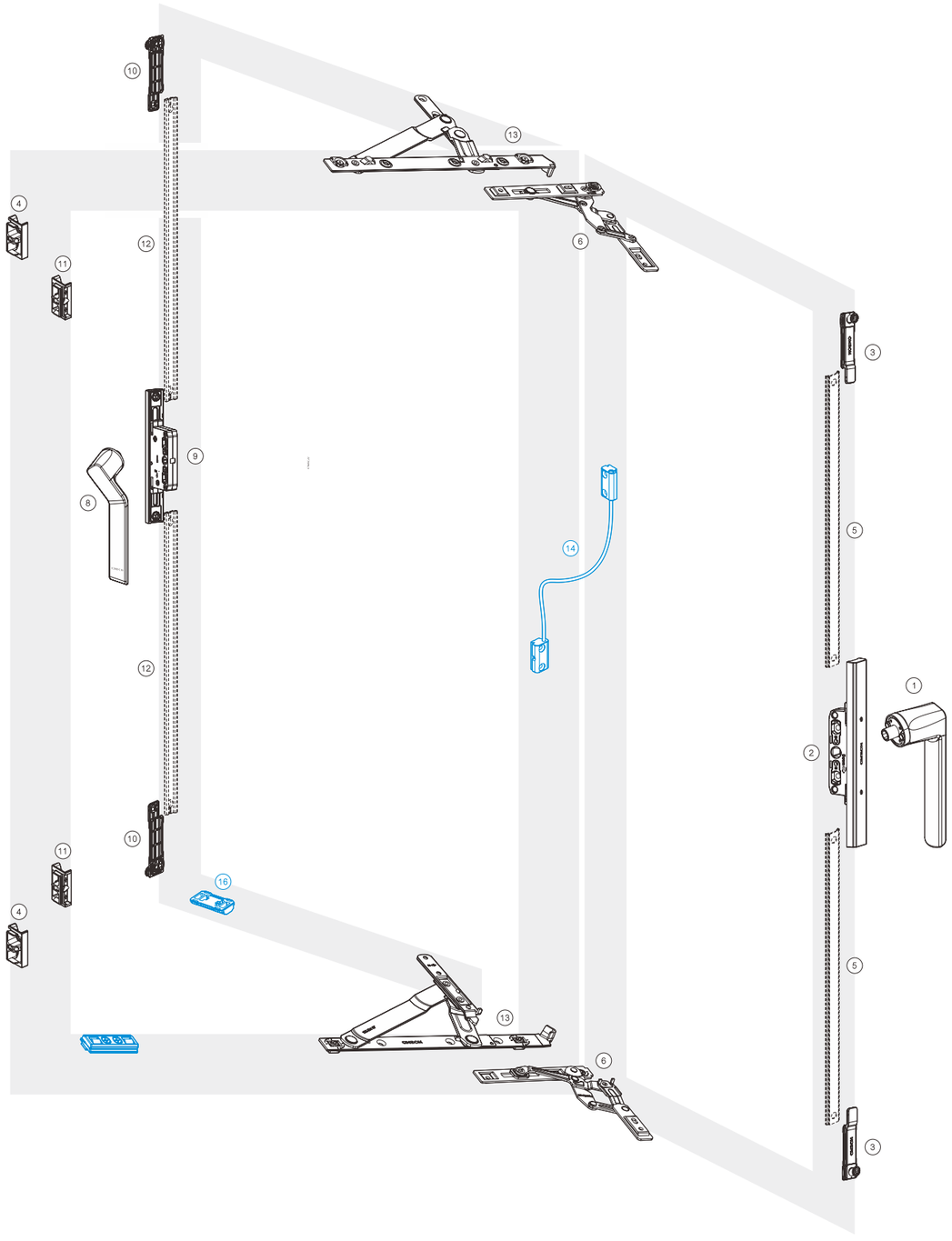
No.	Description	P/N	Qty	Notes
1	Spindle Drive Handle	A010611 A010614	1	L Series Milan Series Handle, Aluminum Alloy L Series Milan Series Handle, Aluminum Alloy (With Spindle)
2	Drive Gearbox	A020142	1	Spindle Drive Gearbox 11mm (L Series)
3	Lock Point	A090032 A090048	2	Pry-Resistant End Lock Point with Bearing Pry-Resistant End Lock Point (L Series)
4	Keeper	A100125	2	Pry-Resistant Keeper with Bearing
5	Connecting Strip		3~5	Provided by Customer or Cmech
6	Hinge	B040076	1	90° Fly Screen Hinge
7	Handle Screw Pack		1	

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

No.	Description	P/N	Qty	Notes
8	Spindle Drive Handle	A010612 A010613 A010615 A010616	1	L Series Milan Series Left Turn Handle, Aluminum Alloy L Series Milan Series Right Turn Handle, Aluminum Alloy L Series Milan Series Left Turn Handle, Aluminum Alloy (With Spindle) L Series Milan Series Right Turn Handle, Aluminum Alloy (With Spindle)
9	Drive Gearbox	A020144 A020146 A020148 A020150 A020152	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
10	Lock Point	A090032 A090048	2	Pry-Resistant End Lock Point with Bearing Pry-Resistant End Lock Point (L Series)
11	Keeper	A100125	2	Pry-Resistant Keeper with Bearing
12	Connecting Strip		3~5	Provided by Customer or Cmech
13	Hinge	A040175 A040176	1	14" Free-Mill Friction Hinge (Left) (L Series) 14" Free-Mill Friction Hinge (Right) (L Series)
14	Anti-fall Hardware	A120003	1	
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
16	Sash Support Block	A080012	1	Height: 7.5 mm
17	Handle Screw Pack		1	Reference P84

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
1	Spindle Drive Handle	A010617 A010636 A010471 A010223 A010133 A010623 A010460 A010219 A010129	1	P Series Milan Baseless Handle P Series Milan Handle P Series Berlin Handle P Series Koln Handle P Series New York Handle S Series Milan Handle S Series Berlin Handle S Series Koln Handle S Series New York Handle
2	Drive Gearbox	A020141	1	Spindle Drive Gearbox 11mm (P Series)
3	Lock Point	A090049	2	Pry-Resistant End Lock Point (P Series)
4	Keeper	A100126	2	Pry-Resistant Keeper with Bearing
5	Connecting Strip		3~5	Provided by Customer or Cmech
6	Hinge	B040079	1	165° Fly Screen Hinge
7	Handle Screw Pack		1	

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

No.	Description	P/N	Qty	Notes
8	Spindle Drive Handle	A010618 A010619 A010472 A010473 A010461 A010462	1	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
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
10	Lock Point	A090049	1	Pry-Resistant End Lock Point (S Series)
11	Keeper	A100126	1	Pry-Resistant Keeper with Bearing
12	Connecting Strip		3~5	Provided by Customer or Cmech
13	Hinge	A040181 A040182 A040193	1	12" Free-Mill Friction Hinge (S Series) 12" Free-Mill Friction Hinge (Adjustable) (S Series) 14" 50kg Free-Mill Friction Hinge (P Series)
14	Anti-fall Hardware	A120003	1	
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
16	Sash Support Block	A080012	1	Height: 7.5 mm
17	Handle Screw Pack		1	

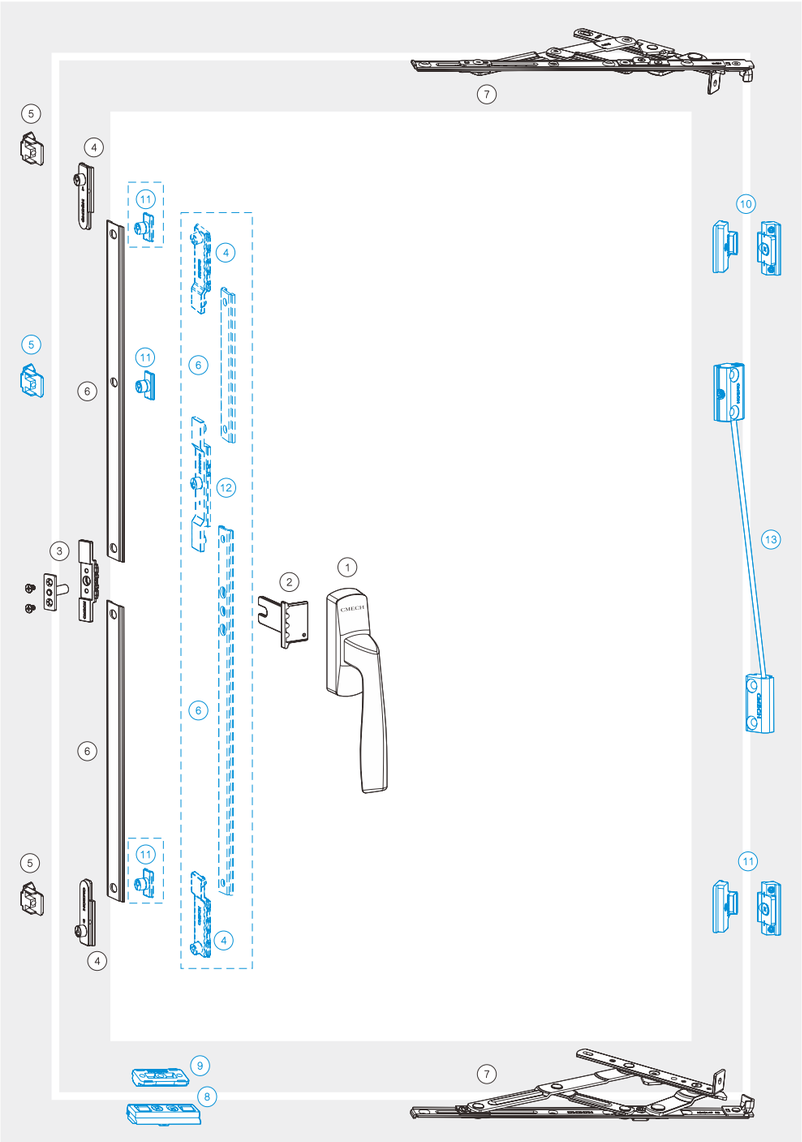
Outswing Casement Window Hardware

- 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



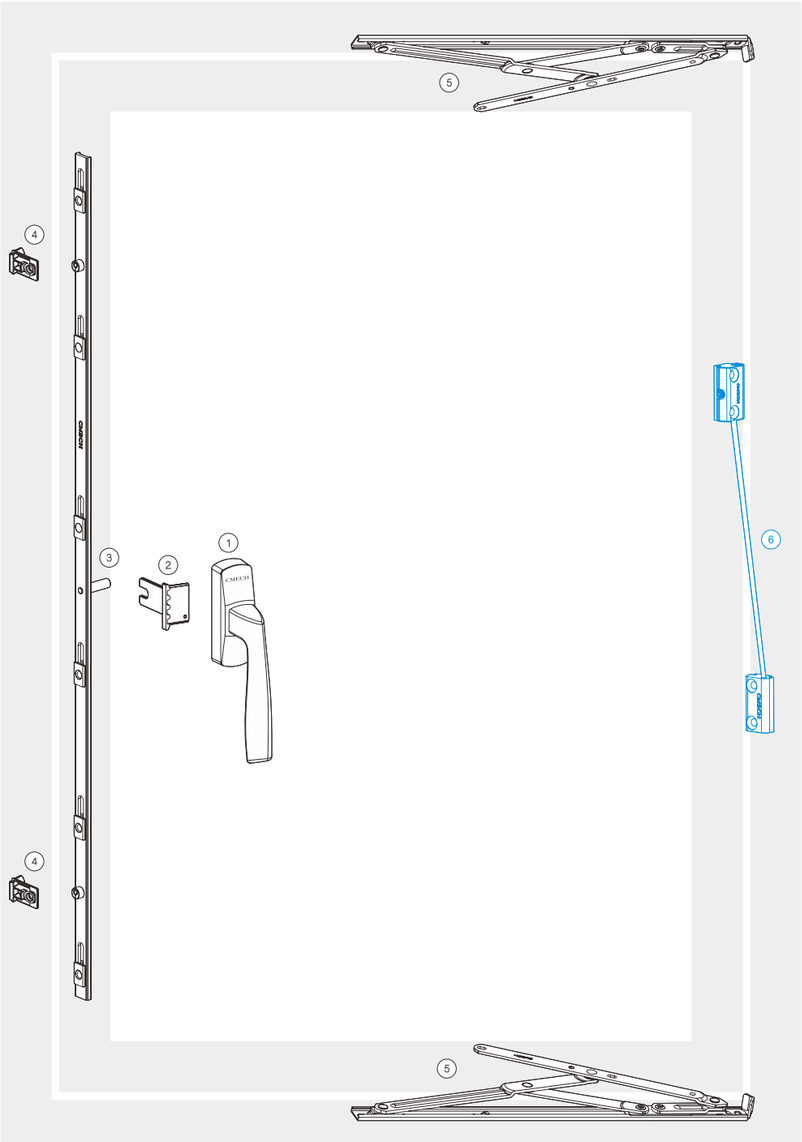
OUTSWING CASEMENT WINDOW HARDWARE SERIES

Configuration Table - Fork Drive Handle (Type W)

No.	Description	P/N	Qty	Notes
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 Offset Fork Drive, Aluminum Alloy
2	Fork Drive		1	Offset Fork Drive, Multiple Types Available Central Fork Drive, Multiple Types Available
3	T-Drive		1	
4	Lock Point	A090032 A090048 A090001 A090005 A090007 A090008 A090035	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 with Bearing Ø8.5x9.3 mm
5	Keeper		2~4	Multiple Types Available
6	Connecting Strip			Provided by Customer or Cmech
7	Friction Hinge		1	Multiple Types Available
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
9	Sash Support Block	A080012	1	Height: 7.5 mm
10	Hidden Lock	A100121 A100104	2	For a Double-Sided C-Groove For a Single-Sided C-Groove
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
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
13	Safety Catch System Hardware	A120003	1	
14	Handle Screw Pack	A110078	1	
15	Friction Hinge Screw Pack		2	Determined by Friction Hinge

OUTSWING CASEMENT WINDOW HARDWARE SERIES

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



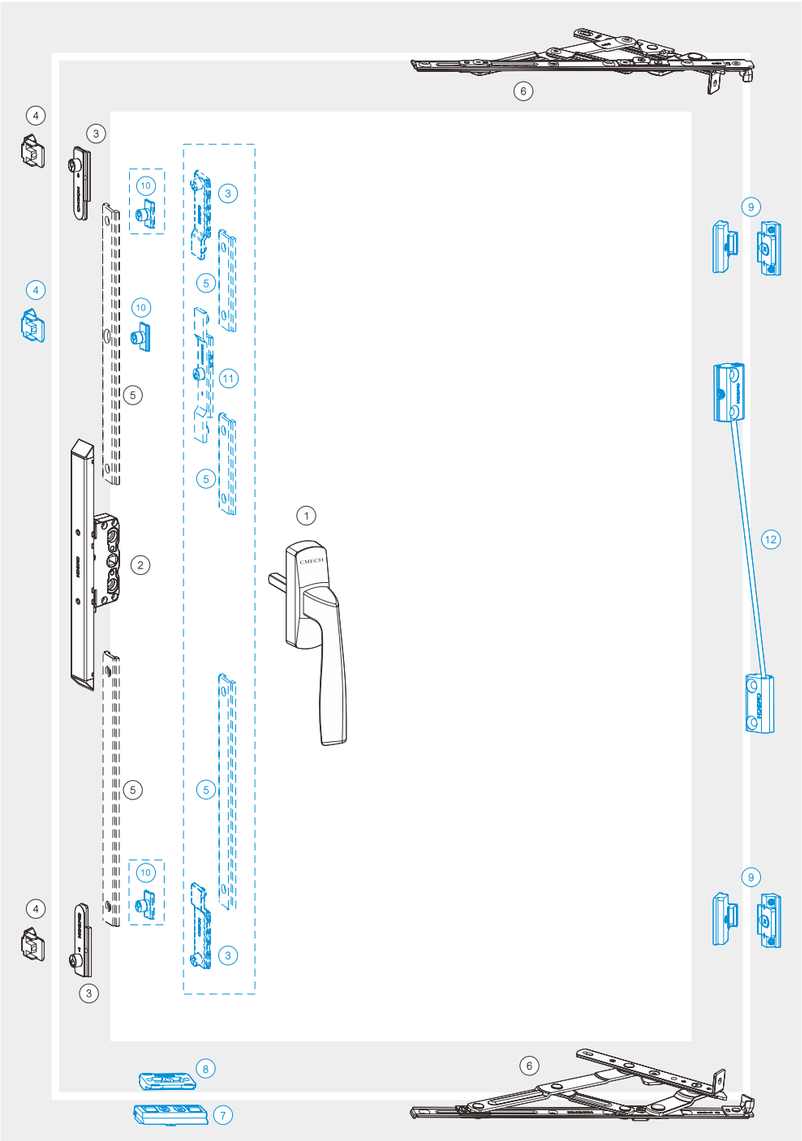
OUTSWING CASEMENT WINDOW HARDWARE SERIES

Configuration Table - Fork Drive Handle (Type W)

No.	Description	P/N	Qty	Notes
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 Offset Fork Drive, Aluminum Alloy
2	Fork Drive		1	Offset Fork Drive, Multiple Types Available Central Fork Drive, Multiple Types Available
3	Surface Mount Drive Gear	A020050 A020051 A020052 A020053 A020061	1	410 mm 600 mm 800 mm 1000 mm 1300 mm
4	Keeper		2	Multiple Types Available
5	Friction Hinge		1	Multiple Types Available
6	Safety Catch System Hardware	A120003	1	
7	Handle Screw Pack	A110078	1	
8	Friction Hinge Screw Pack		2	Determined by Friction Hinge

OUTSWING CASEMENT WINDOW HARDWARE SERIES

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



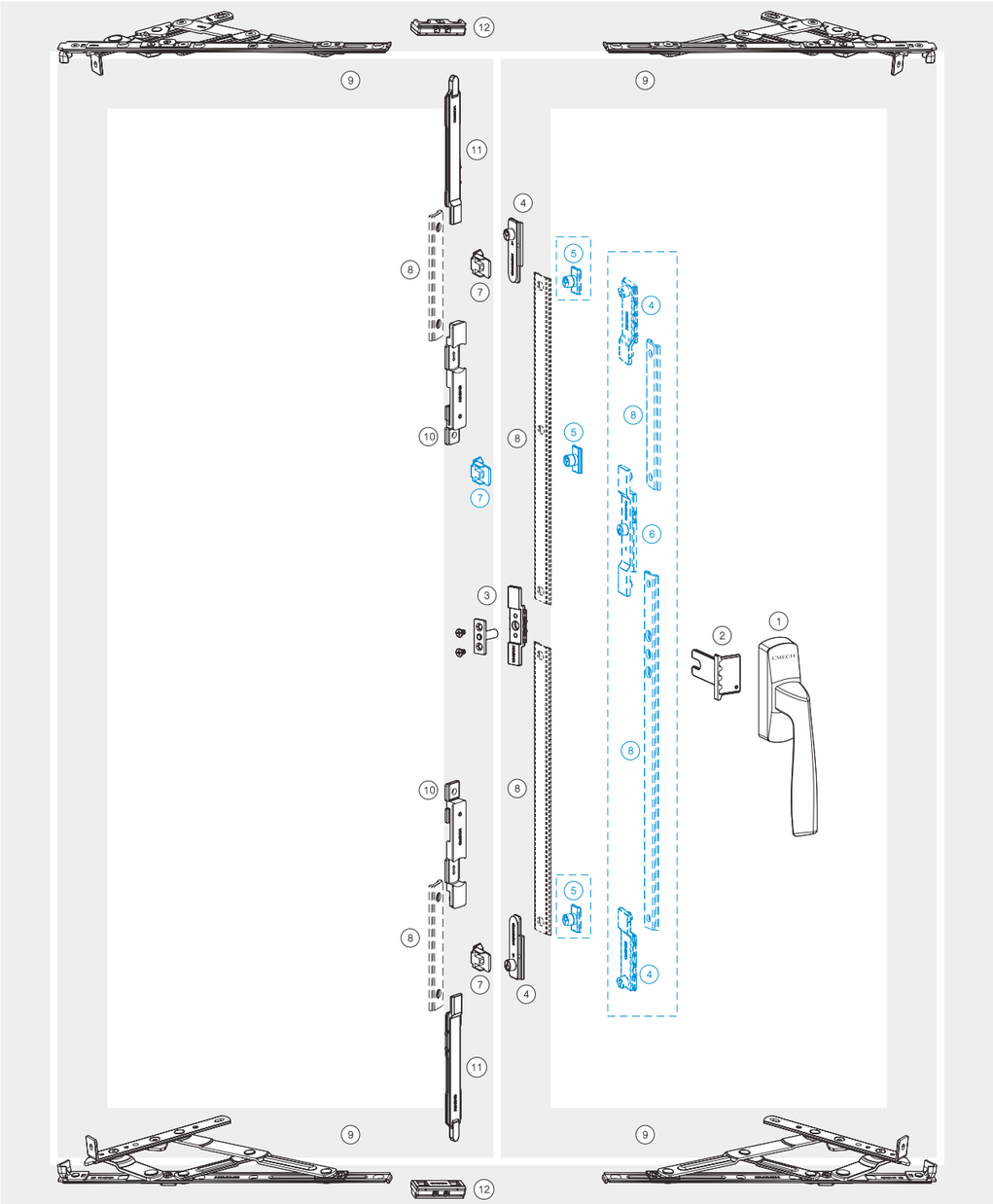
OUTSWING CASEMENT WINDOW HARDWARE SERIES

Configuration Table - Spindle Drive Handle (Type W)

No.	Description	P/N	Qty	Notes
1	Spindle Drive Handle (Type W)	A010601 A010406 A010210 A010407 A010211 A010447 A010213 A010448 A010214 A010470 A010222 A010004 A010408~A010418 A010419~A010429 J010401~J010408 J010209~J010216 A010003	1	Milan Series, Aluminum Alloy Berlin Series, Aluminum Alloy Koln Series, Aluminum Alloy Berlin Series, Aluminum Alloy Koln Series, Aluminum Alloy Berlin Series, Zinc Alloy Koln Series, Zinc Alloy Berlin Series, Zinc Alloy Koln Series, Zinc Alloy Berlin Handle Keyed Koln Handle Keyed Fly Screen Handle Left Turn Handle Right Turn Handle Berlin Series Koln Series Chinese Traditional Huayun Series, Aluminum Alloy
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
3	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)
4	Keeper	A100127 A100122	2~4	Pry-Resistant Keeper with Bearing
5	Connecting Strip			Provided by Customer or Cmech
6	Friction Hinge		1	Multiple Types Available
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
8	Sash Support Block	A080012	1	Height: 7.5 mm
9	Hidden Lock	A100121 A100104	2	For a Double-Sided C-Groove For a Single-Sided C-Groove
10	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
11	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
12	Safety Catch System Hardware	A120003	1	
13	Friction Hinge Screw Pack		2	Determined by Friction Hinge
14	Handle Screw Pack		1	

OUTSWING FRENCH CASEMENT WINDOW HARDWARE SERIES

Fork Drive Handle (Type W) Configuration



CMECH

OUTSWING FRENCH CASEMENT WINDOW HARDWARE SERIES

Configuration Table - Fork Drive Handle (Type W)

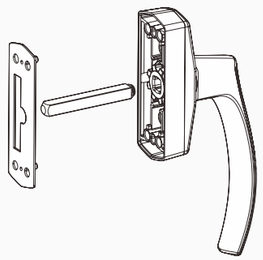
No.	Description	P/N	Qty	Notes
1	Spindle and Fork Drive Handle (Type W)	A010601 A010406 A010210 A010407 A010211 A010447 A010213 A010448 A010214 A010003	1	Milan Series, Suitable for Offset Fork Drive, Aluminum Alloy Berlin Series, Suitable for Offset Fork Drive, Aluminum Alloy Koln Series, Suitable for 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 Offset Fork Drive, Aluminum Alloy
2	Fork Drive		1	Offset Fork Drive, Multiple Types Available Central Fork Drive, Multiple Types Available
3	T-Drive		1	
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)
5	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
6	Central Lock Point	A090009 A090010 A090033 A090034	0~2	Ø9.5x6.0 mm Ø9.5x7.0 mm Pry-Resistant Central Point with Bearing Ø9.3x8.0 mm
7	Keeper	A100127 A100122	2~4	Pry-Resistant Keeper with Bearing
8	Connecting Strip			Provided by Customer or Cmech
9	Friction Hinge		2	Multiple Types Available
10	Operating Lever	A020055	2	
11	Shootbolt	A070001 A070002 A070003 A070004	2	19.6 mm156 mm 17.6 mmx156 mm 19.6 mmx90 mm 17.6 mmx90 mm
12	Shootbolt Bracket	A100112	2	
13	Handle Screw Pack	A110078	1	
14	Friction Hinge Screw Pack		4	Determined by Friction Hinge

FORK DRIVE HANDLE AND SPINDLE DRIVE HANDLE INSTRUCTIONS

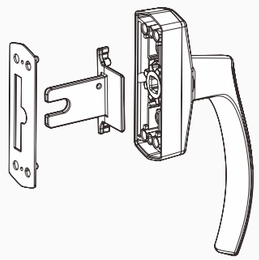
(See P72 for Spindle Length, See P87 for Fork Length)

Spindle and Fork Drive Handle Structure

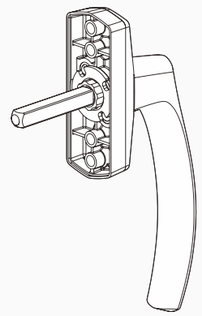
Spindle Drive



Fork Drive

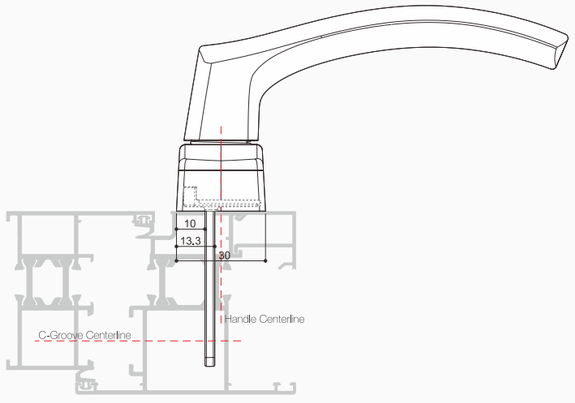


Spindle Drive Handle Structure



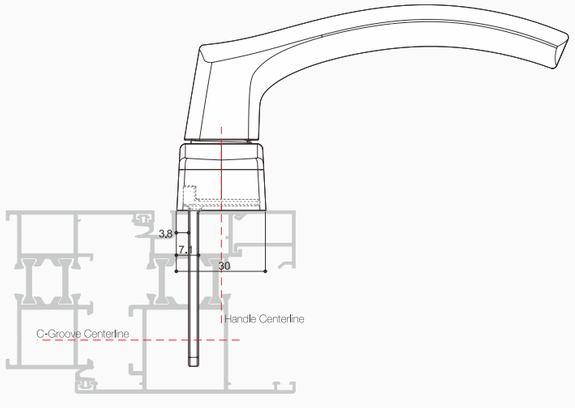
Central Fork Drive

Suitable for Fork Drive Handle (Type W)



Offset Fork Drive

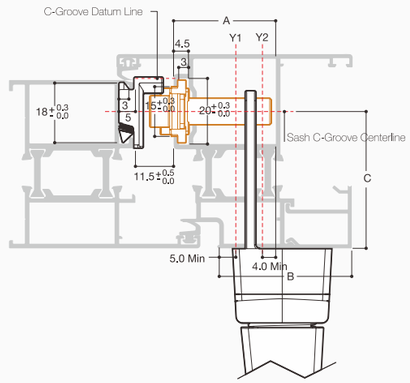
Suitable for Fork Drive Handle (Type W)



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

C-Groove Profile Detail Drawing

Fork Drive Handle Configuration (Type W)



Relationship Between Dimensions and Hardware:

A: Determines the maximum length allowable for the T-drive

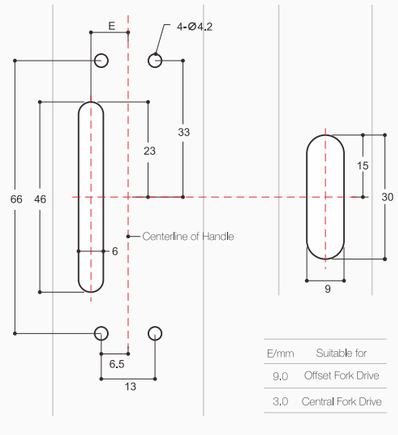
B: Determines the allowable width of the handle plate. The chosen fork must be between lines Y1 and Y2

C: Determines the length of the fork: the shortest fork length is C+5.0 mm, while the longest length is C+10.0 mm

Drill Hole Drawing

Handle (Interior)

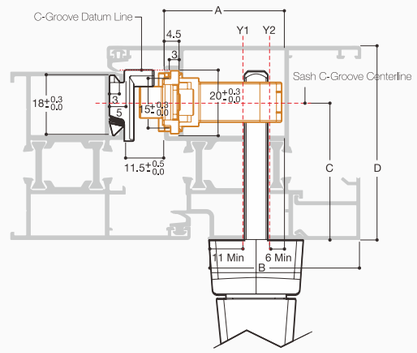
T-Drive (Side Profile)



E/mm	Suitable for
9.0	Offset Fork Drive
3.0	Central Fork Drive

C-Groove Profile Detail Drawing

Spindle Drive Handle Configuration (Type W)



Relationship Between Dimensions and Hardware:

A: Determines the maximum length allowable for the for spindle drive

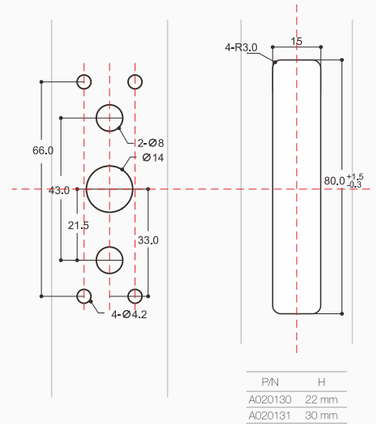
A & B: Determines the horizontal hole distance and the allowable width of the handle plate. The centerline of the holes in the drive must be between lines Y1 and Y2

C & D: Determines the length of the spindle: the shortest length is C+6.0 mm, while the longest length is D-profile thickness-2.0 mm

Drill Hole Drawing

Spindle and Fork Drive Handle (Interior)

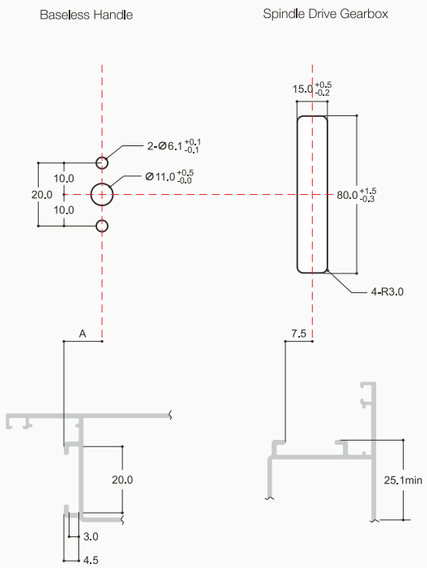
Bi-Directional Spindle Drive Gearbox (Side Profile)



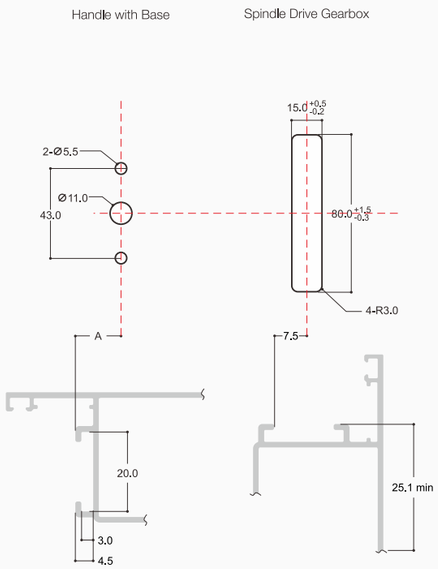
P/N	H
A020130	22 mm
A020131	30 mm
A020133	35 mm
A020135	25 mm
A020119	11 mm
A020134	13 mm

HANDLE PROFILE AND DRILLING REQUIREMENTS

Flynet Spindle Drive Gearbox



P/S Series Handle with Base Drill Hole Drawing

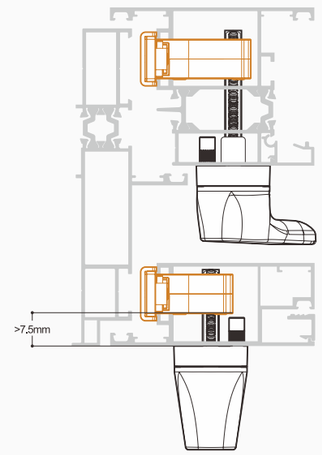


P/N	A	Description
A020141	11 mm	Flynet Spindle Drive Gearbox
A020143	13 mm	Bi-directional Spindle Drive Gearbox
A020145	22 mm	Bi-directional Spindle Drive Gearbox
A020147	25 mm	Bi-directional Spindle Drive Gearbox
A020149	30 mm	Bi-directional Spindle Drive Gearbox
A020151	35 mm	Bi-directional Spindle Drive Gearbox

HANDLE PROFILE AND DRILLING REQUIREMENTS

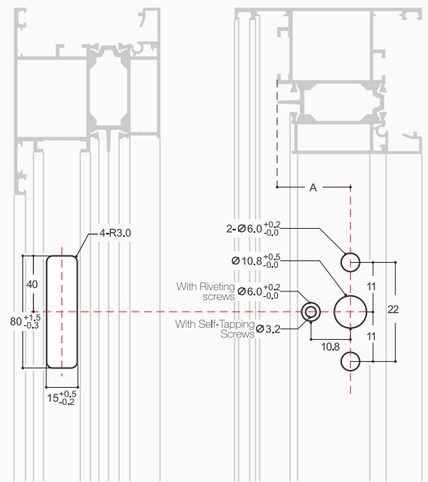
Fly Screen Window with C-Groove Profile Detail Drawing

Milan Handle Outer Glass Panel Inner Flynet Configuration



Drill Hole Drawing

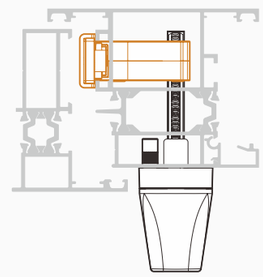
Glass Panel Drill Hole Drawing



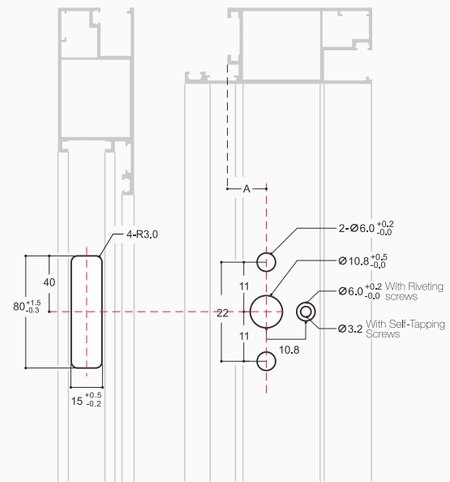
PN	A	Description
A020130	22 mm	Bi-Directional Spindle Drive Gearbox
A020131	30 mm	
A020133	35 mm	
A020135	25 mm	

Outswing Casement Window with C-Groove Profile Detail Drawing

Milan Handle Configuration



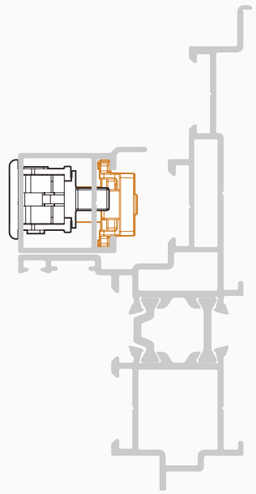
Flynet Drill Hole Drawing



PN	A	Description
A020134	13 mm	Fly Screen Spindle Drive Gearbox

ANTI-MISOPERATION RECESSED HANDLE PROFILE AND DRILLING REQUIREMENTS

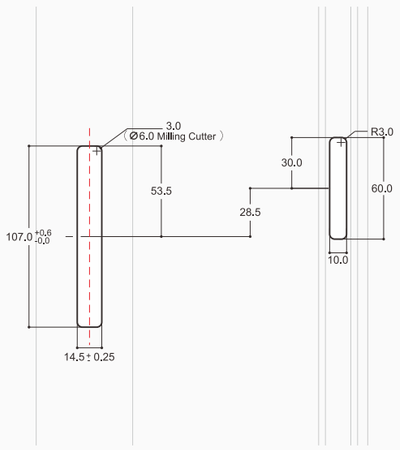
Anti-misoperation Recessed Handle Drawing



Drill Hole Drawing

Guard Grills Drill Hole Drawing

Opening Diagram of Guard Grills



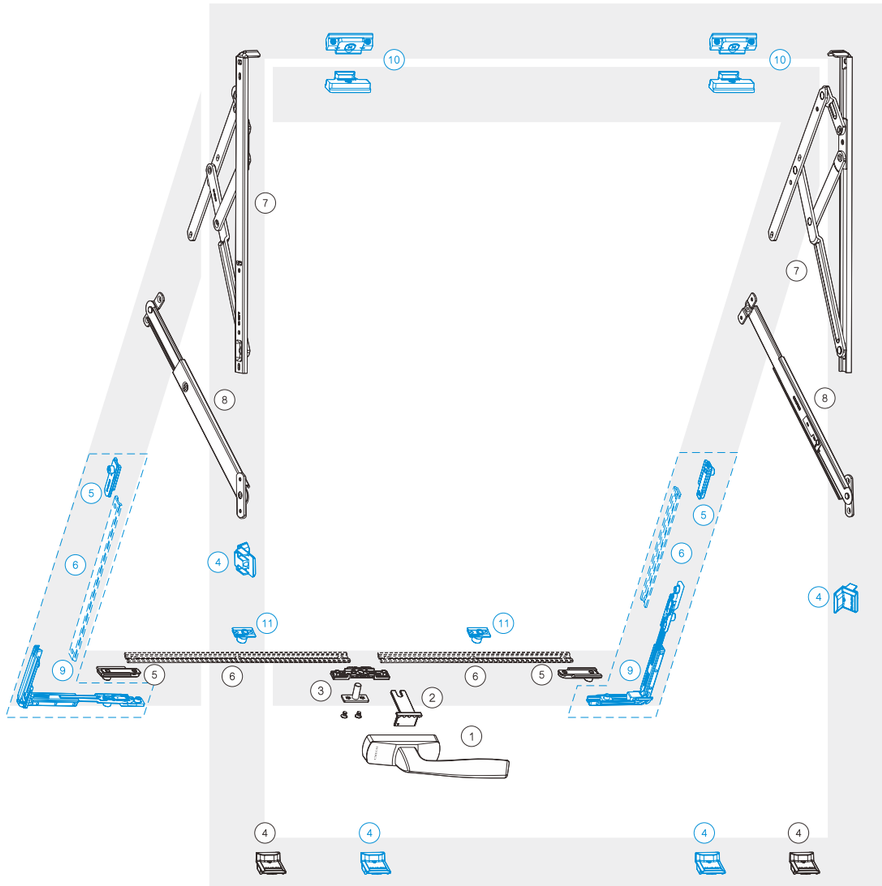
Outswing Awning Window Hardware

- 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



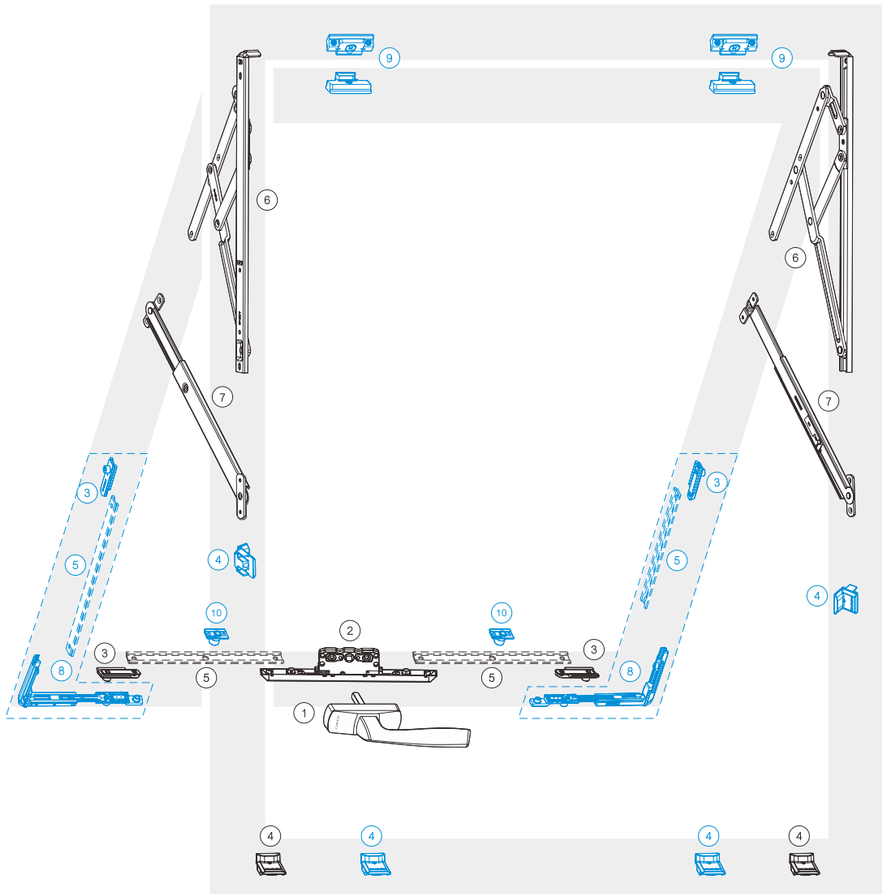
OUTSWING AWNING WINDOW HARDWARE SERIES

Configuration Table - Fork Drive Handle (Type W)

No.	Description	P/N	Qty	Notes
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 Offset Fork Drive, Aluminum Alloy
2	Fork Drive		1	Offset Fork Drive, Multiple Types Available Central Fork Drive, Multiple Types Available
3	T-Drive		1	
4	Keeper		2~6	Multiple Types Available
5	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)
6	Connecting Strip			Provided by Customer or Cmech
7	Friction Hinge		1	Multiple Types Available
8	Limiting Stay		1	Multiple Types Available
9	Corner Drive	C060009	2	
10	Hidden Lock	A100121 A100104	1~2	For a Double-Sided C-Groove For a Single-Sided C-Groove
11	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
12	Handle Screw Pack	A110078	1	
13	Limiting Stay Screw Pack	H110003	2	
14	Friction Hinge Screw Pack		2	Determined by Friction Hinge

OUTSWING AWNING WINDOW HARDWARE SERIES

Spindle Drive Handle (Type W) Configuration



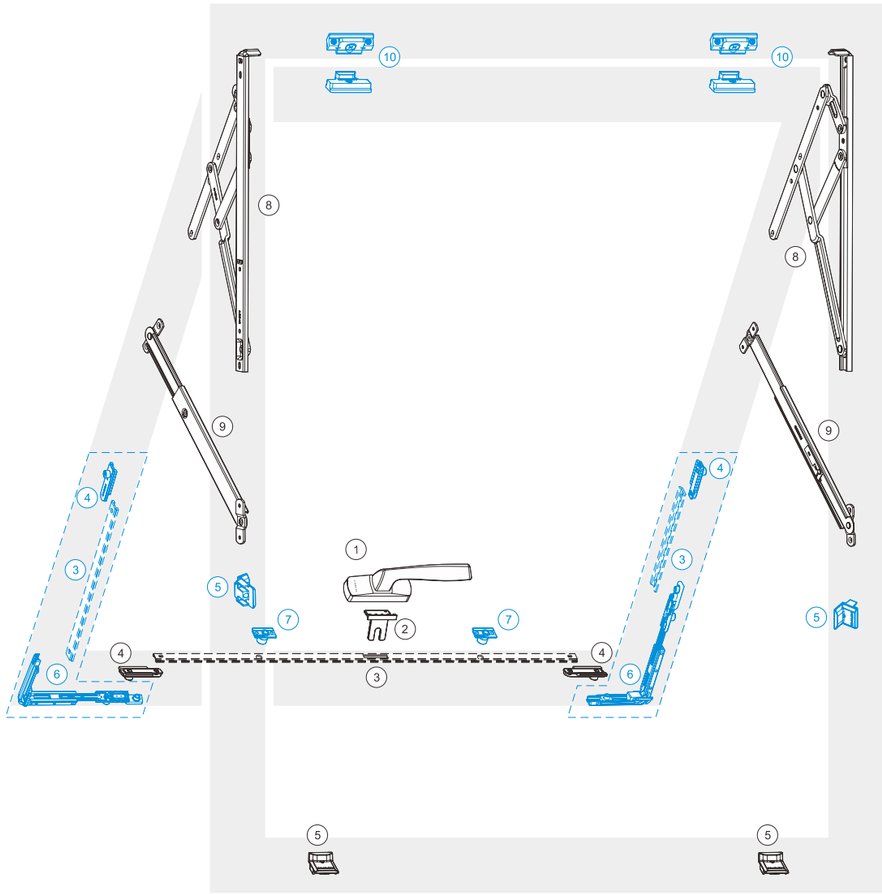
OUTSWING AWNING WINDOW HARDWARE SERIES

Configuration Table - Spindle Drive Handle (Type W)

No.	Description	P/N	Qty	Notes
1	Spindle Drive Handle (Type W)	A010601 A010406 A010210 A010107 A010407 A010211 A010108 A010447 A010213 A010124 A010448 A010214 A010125 A010470 A010222 A010132 A010004 A010419~A010429 J010401~J010408 J010209~J010216 J010201~J010208 A010003	1	Milan Series, Aluminum Alloy Berlin Series, Aluminum Alloy Koln Series, Aluminum Alloy New York Series, Aluminum Alloy Berlin Series, Aluminum Alloy Koln Series, Aluminum Alloy New York Series, Aluminum Alloy Berlin Series, Zinc Alloy Koln Series, Zinc Alloy New York Series, Zinc Alloy Berlin Series, Zinc Alloy Koln Series, Zinc Alloy New York Series, Zinc Alloy Berlin Handle Keyed Koln Handle Keyed New York Handle Keyed Fly Screen Handle Right Turn Handle Berlin Series Koln Series New York Series Chinese Traditional Huayun Series, Aluminum Alloy
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
3	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
4	Keeper		2~4	Multiple Types Available
5	Connecting Strip			Provided by Customer or Cmech
6	Friction Hinge		1	Multiple Types Available
7	Limiting Stay		1	Multiple Types Available
8	Corner Drive	C060009	2	
9	Hidden Lock	A100121 A100104	1~2	For a Double-Sided C-Groove For a Single-Sided C-Groove
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
11	Handle Screw Pack		1	
12	Limiting Stay Screw Pack	H110003	2	
13	Friction Hinge Screw Pack		2	Determined by Friction Hinge

OUTSWING AWNING WINDOW (CURTAIN WALL) HARDWARE SERIES

Fork Drive Handle (Type W) Configuration



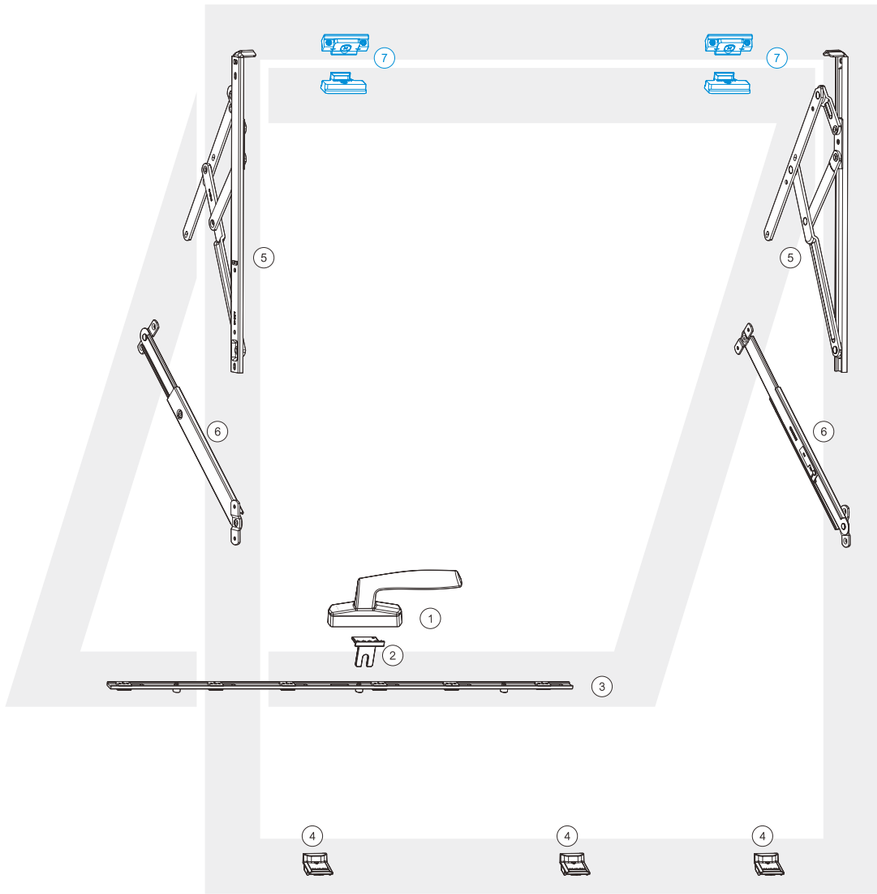
OUTSWING AWNING WINDOW (CURTAIN WALL) HARDWARE SERIES

Configuration Table - Fork Drive Handle (Type W)

No.	Description	P/N	Qty	Notes
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 Koln Series, Suitable for Offset 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, Aluminum Alloy Koln Series, Suitable for Central Fork Drive, Aluminum Alloy Berlin Series, Suitable for Central Fork Drive, Zinc Alloy Koln Series, Suitable for Central Fork Drive, Zinc Alloy
2	Fork Drive		1	Offset Fork Drive Central Fork Drive
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)
5	Keeper	A100127 A100122	2~6	Keeper Pry-Resistant Keepers with Bearing
6	Corner Drive	C060009	2	
7	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
8	Friction Hinge		1	Multiple Types Available
9	Limiting Stay		1	Multiple Types Available
10	Hidden Lock	A100121 A100104	1~2	For a Double-Sided C-Groove For a Single-Sided C-Groove
11	Limiting Stay Screw Pack	H110003	2	
12	Friction Hinge Screw Pack		2	Determined by Friction Hinge
13	Handle Screw Pack	A110078	1	

OUTSWING AWNING WINDOW (CURTAIN WALL) HARDWARE SERIES

Fork Drive Handle (Type W) Configuration

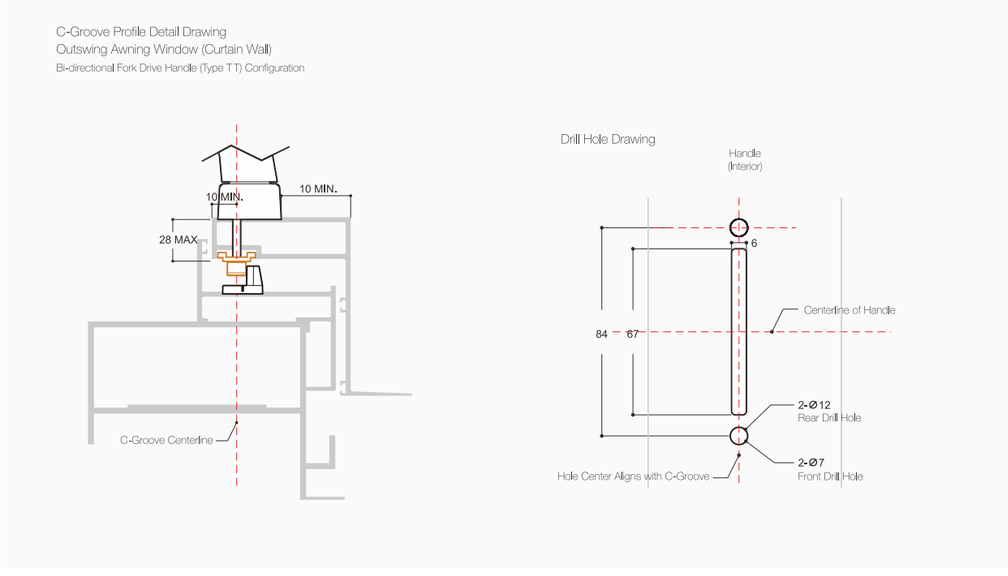


OUTSWING AWNING WINDOW (CURTAIN WALL) HARDWARE SERIES

Configuration Table - Fork Drive Handle (Type W)

No.	Description	P/N	Qty	Notes
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 Koln Series, Suitable for Offset 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, Aluminum Alloy Koln Series, Suitable for Central Fork Drive, Aluminum Alloy Berlin Series, Suitable for Central Fork Drive, Zinc Alloy Koln Series, Suitable for Central Fork Drive, Zinc Alloy
2	Fork Drive		1	Offset Fork Drive Central Fork Drive
3	Surface Mount Drive Gear	A020062 A020063 A020064 A020065	1	410 mm 600 mm 800 mm 1000 mm
4	Keeper		3	Multiple Types Available
5	Friction Hinge		1	Multiple Types Available
6	Limiting Stay		1	Multiple Types Available
7	Hidden Lock	A100121 A100104	1~2	For a Double-Sided C-Groove For a Single-Sided C-Groove
8	Handle Screw Pack	A110078	1	
9	Limiting Stay Screw Pack	H110003	2	
10	Friction Hinge Screw Pack		2	Determined by Friction Hinge

OUTSWING AWNING WINDOW PROFILE AND DRILLING REQUIREMENTS



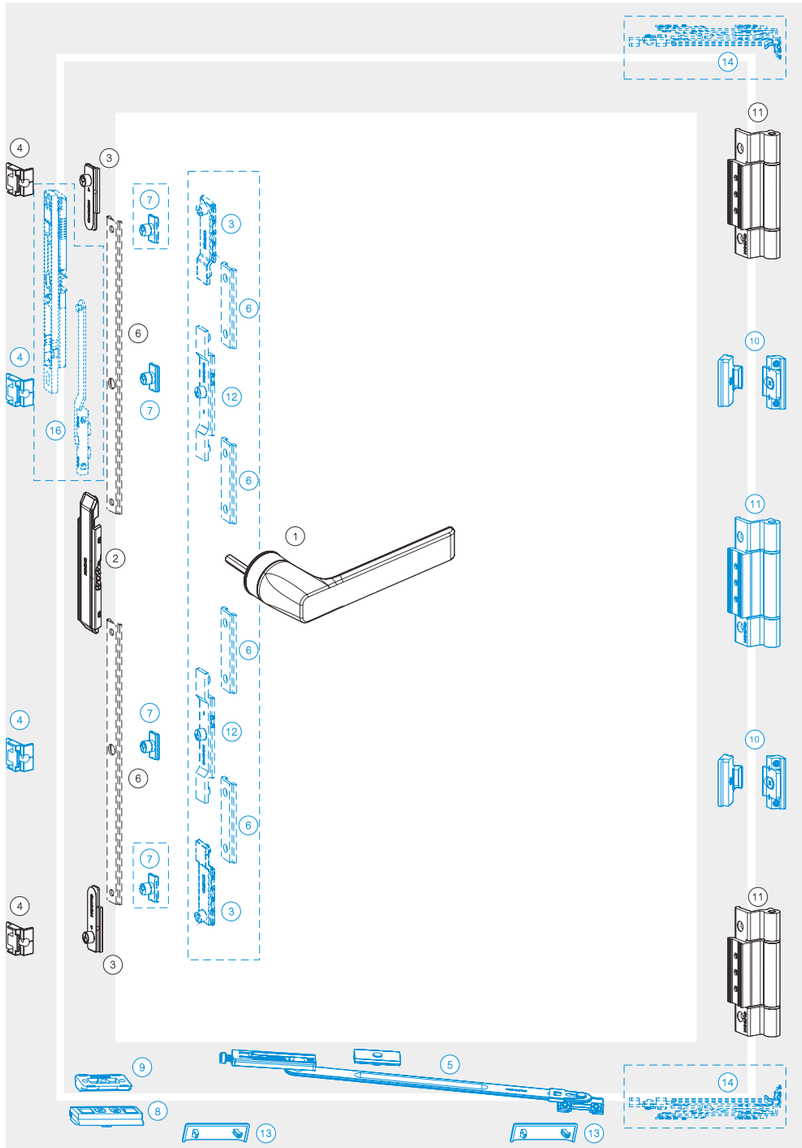
Inswing Casement Window Hardware

- 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)	≤80
Length of T-Drive	(mm)	17, 20, 24, 28, 32, 36, 40
Center Distance of Spindle Drive Gearbox	(mm)	11.5, 22, 25, 30, 35

INSWING CASEMENT WINDOW HARDWARE SERIES

Milan Handle & Hexagon Spindle Drive Gearbox Configuration (90°)



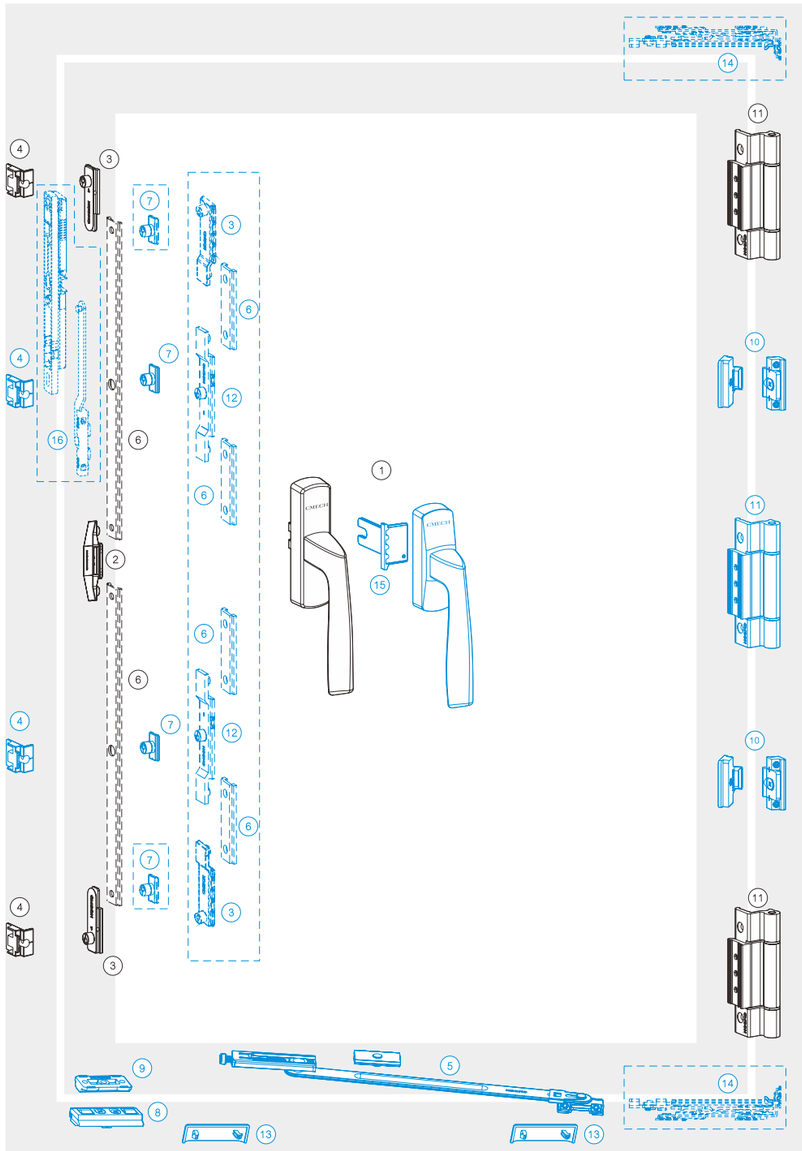
INSWING CASEMENT WINDOW HARDWARE SERIES

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

No.	Description	P/N	Qty	Notes
1	Milan Handle	C010601	1	Milan Series Hexagon Spindle Drive Handle
2	Hexagon Spindle Drive Gearbox	B020003	1	
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)
4	Keeper		2~4	Multiple Types Available
5	Limiting Stay	B040041 B040042	1	10" 14"
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
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
9	Sash Support Block	A080012	1	Height: 7.5 mm
10	Hidden Lock	A100121 A100104	0~2	For a Single-Sided C-Groove For a Double-Sided C-Groove
11	Hinge	B040059	2~3	80 kg Clamping Hinge
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
13	Drain Cover	C120002	2	
14	Concealed Hinge	B040054	1	60 kg
15	Ventilation Assist	B040072	1	
16	Tapping Screws Pack	C110013	1	
17	Ram Screws Pack	C110014	1	

INSWING CASEMENT WINDOW HARDWARE SERIES

Fork Drive Handle (Type TT) Configuration



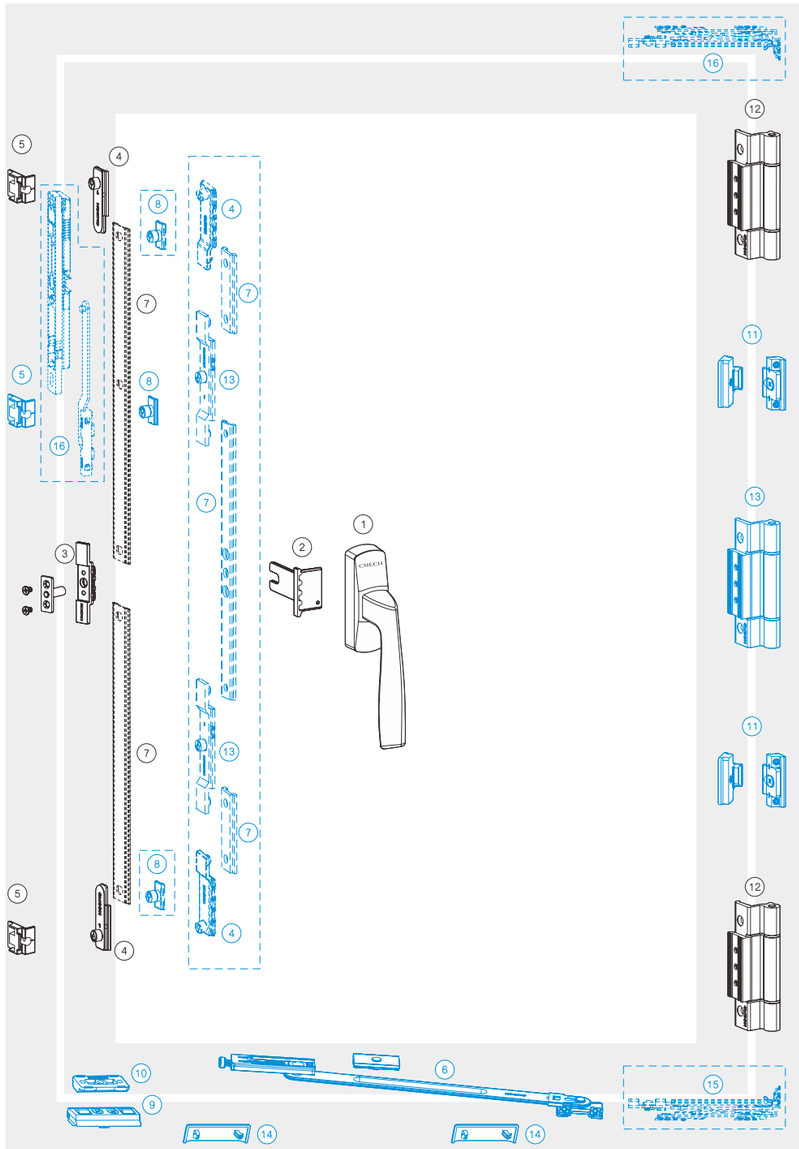
INSWING CASEMENT WINDOW HARDWARE SERIES

Configuration Table - Fork Drive Handle (Type TT)

No.	Description	P/N	Qty	Notes
1	Fork Drive Handle (Type TT) / 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 Koln Series, Aluminum Alloy Berlin Series, Zinc Alloy Koln Series, Zinc 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 Offset Fork Drive, Aluminum Alloy
2	Fork Drive Connector	B020004	1	
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)
4	Keeper		2~4	Multiple Types Available
5	Limiting Stay	B040041 B040042	1	10" 14"
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
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
9	Sash Support Block	A080012	1	Height: 7.5 mm
10	Hidden Lock	A100121 A100104	0~2	For a Single-Sided C-Groove For a Double-Sided C-Groove
11	Hinge	B040059	2~3	80 kg Clamping Hinge 45 kg Clamping Hinge
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
13	Drain Cover	C120002	2	
14	Concealed Hinge	B040054	1	60 kg
15	Fork Drive		1	Offset Fork Drive Central Fork Drive
16	Ventilation Assist	B040072	1	
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



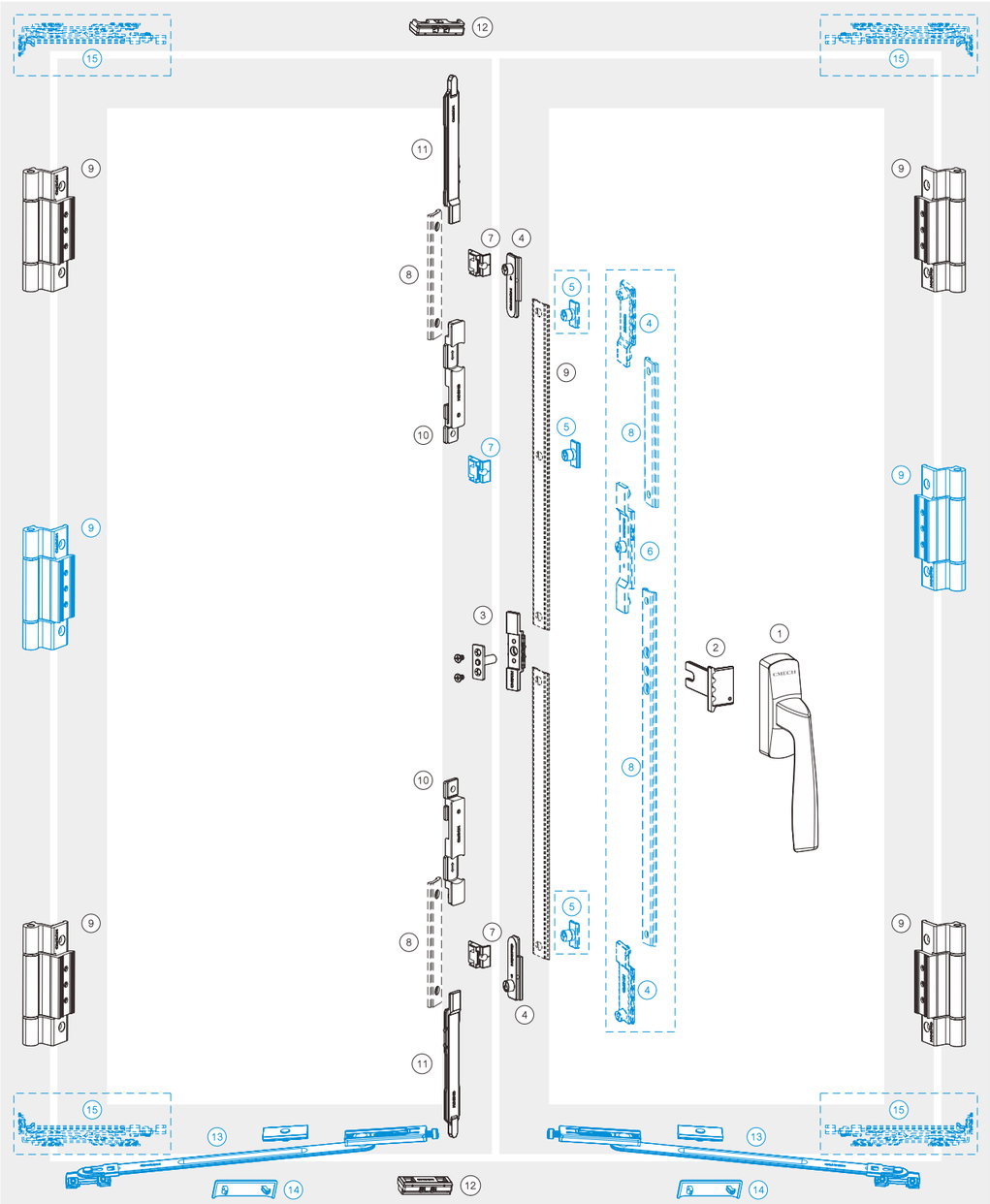
INSWING CASEMENT WINDOW HARDWARE SERIES

Configuration Table - Fork Drive Handle (Type W)

No.	Description	P/N	Qty	Notes
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 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 Offset Fork Drive, Aluminum Alloy
2	Fork Drive		1	Offset Fork Drive Central Fork Drive
3	T-Drive		1	
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)
5	Keeper		2~4	Multiple Types Available
6	Limiting Stay	B040041 B040042	1	10" 14"
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
9	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
10	Sash Support Block	A080012	1	Height: 7.5 mm
11	Hidden Lock	A100121 A100104	0~2	For a Single-Sided C-Groove For a Double-Sided C-Groove
12	Hinge	B040059	2~3	80 kg Clamping Hinge
13	Central Lock Point	A090009 A090010 A090033 A090034	0~2	Ø9.5x6.0 mm Ø9.5x7.0 mm Pry-Resistant Central Point with Bearing Ø9.3x8.0 mm
14	Drain Cover	C120002	2	
15	Concealed Hinge	B040054	1	60 kg
16	Ventilation Assist	B040072	1	
17	Handle Screw Pack	A110078	1	

INSWING FRENCH CASEMENT WINDOW HARDWARE SERIES

Fork Drive Handle (Type W) Configuration



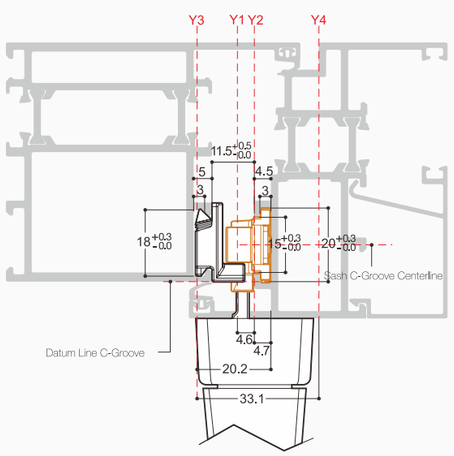
INSWING FRENCH CASEMENT WINDOW HARDWARE SERIES

Configuration Table - Fork Drive Handle (Type W)

No.	Description	P/N	Qty	Notes
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 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 Offset Fork Drive, Aluminum Alloy
2	Fork Drive		1	Offset Fork Drive Central Fork Drive
3	T-Drive		1	
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)
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
6	Central Lock Point	A090009 A090010 A090033 A090034	0~2	Ø9.5x6.0 mm Ø9.5x7.0 mm Pry-Resistant Central Point with Bearing Ø9.3x8.0 mm
7	Keeper	A100127 A100122	2~4	Multiple Types Available
8	Connecting Strip			Provided by Customer or Cmech
9	Hinge	B040059	2~3	80 kg Clamping Hinge
10	Operating Lever	A020055	2	
11	Shootbolt	A070001 A070002 A070003 A070004	2	19.6 mmx156 mm 17.6 mmx156 mm 19.6 mmx90 mm 17.6 mmx90 mm
12	Shootbolt Bracket	A100112	2	
13	Limiting Stay	B040041 B040042	2	10" 14"
14	Drain Cover	C120002	2	
15	Concealed Hinge	B040054	2	60 kg
16	Handle Screw Pack	A110078	1	

INSWING CASEMENT WINDOW PROFILE AND DRILLING REQUIREMENTS

Inswing Casement Window with C-Groove Profile Detail Drawing
Fork Drive Handle Configuration (Type TT)

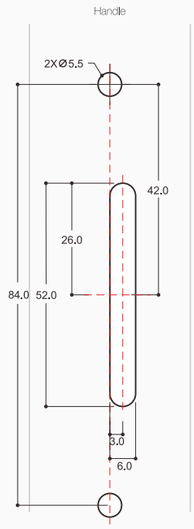


Relationship Between Dimensions and Hardware:

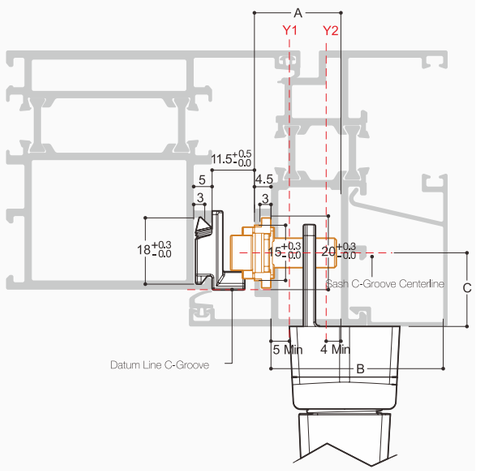
A: The fork must be between lines Y1 and Y2

B: The handle must be between lines Y3 and Y4

Drill Hole Drawing



Inswing Casement Window with C-Groove Profile Detail Drawing
Fork Drive Handle Configuration (Type W)



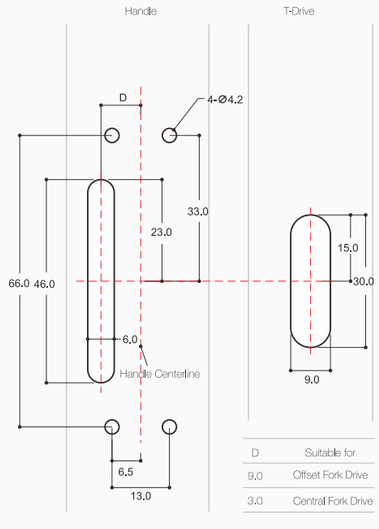
Relationship Between Dimensions and Hardware:

A: Determines the maximum allowable length of the T-drive

B: Determines the allowable width for the handle plate; the chosen fork must be between line Y1 and Y2

C: Determines the length of the fork; the shortest length is C+5.0 mm, while the longest is C+10.0 mm

Drill Hole Drawing



D	Suitable for
9.0	Offset Fork Drive
3.0	Central Fork Drive

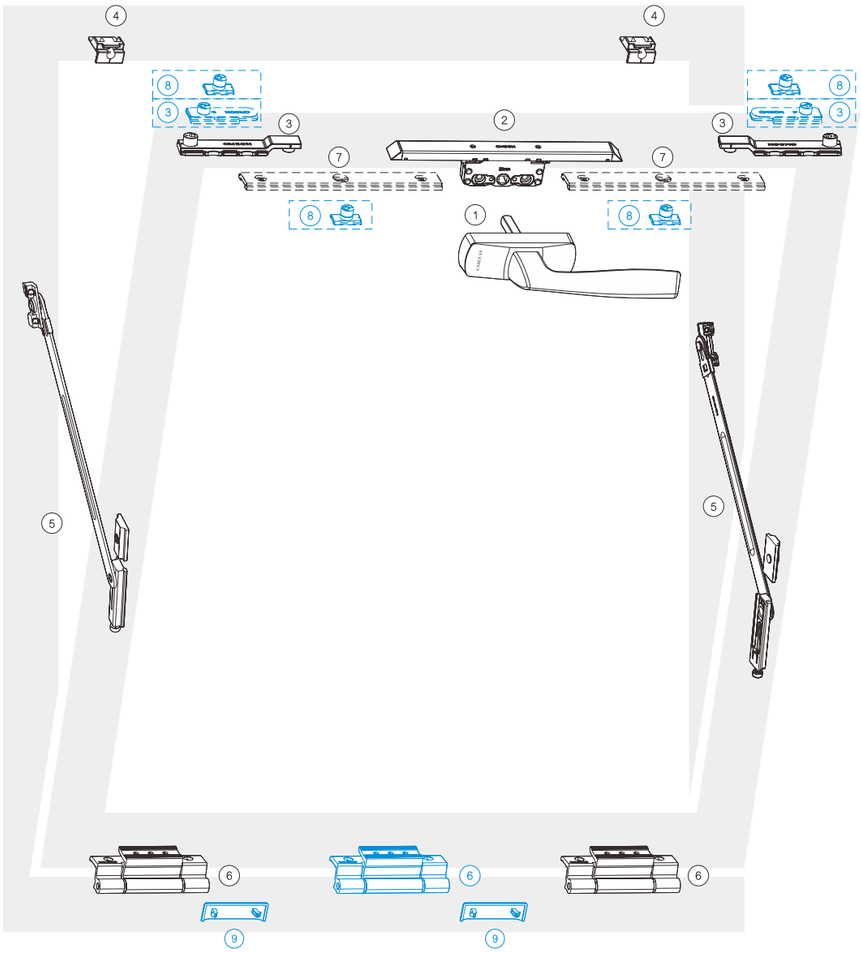
Hopper Window Hardware

- 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



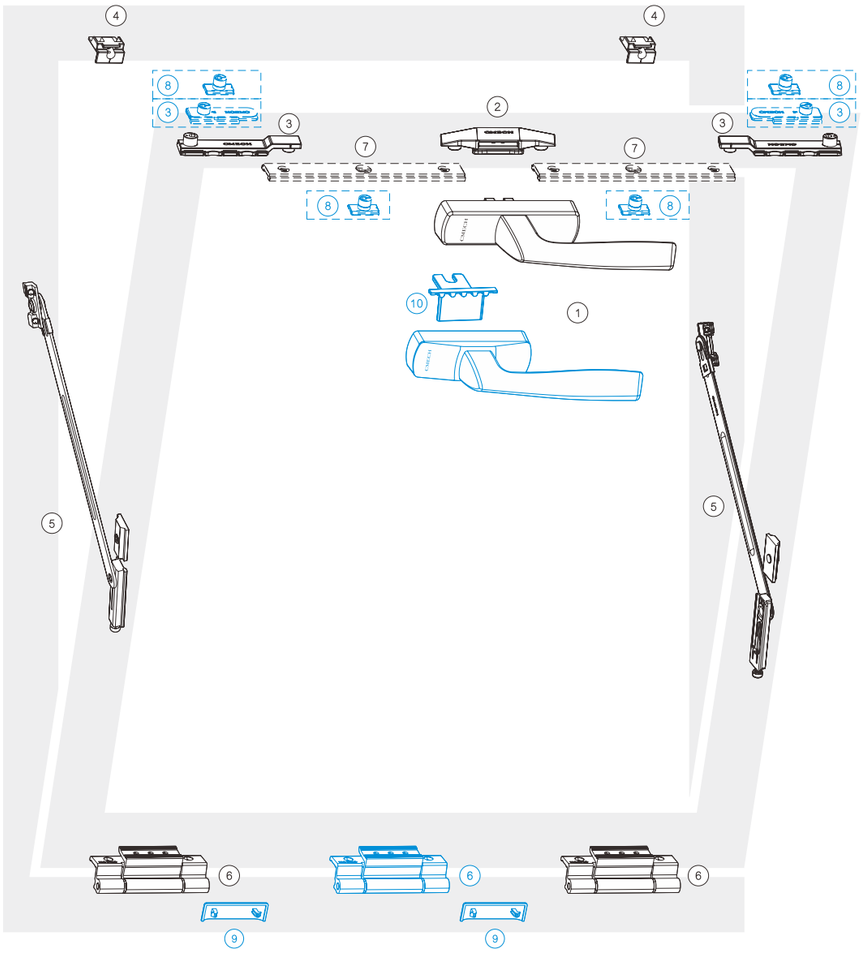
HOPPER WINDOW HARDWARE SERIES

Configuration Table - Spindle Drive Handle (Type W)

No.	Description	P/N	Qty	Notes
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 Koln Series, Aluminum Alloy Berlin Series, Aluminum Alloy Koln Series, Aluminum Alloy Berlin Series, Zinc Alloy Koln Series, Zinc Alloy Berlin Series, Zinc Alloy Koln Series, Zinc Alloy Berlin Handle Keyed Koln Handle Keyed Fly Screen Handle Left Turn Handle Right Turn Handle Berlin Series Koln Series Chinese Traditional Huayun Series, Aluminum Alloy
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
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
4	Keeper	A100127 A100122	2	Pry-Resistant Keeper
5	Limiting Stay	B040041 B040042	2	10" 14"
6	Hinge	B040059	2~3	80 kg Clamping Hinge
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
9	Drain Cover	C120002	2	
10	Handle Screw Pack			

HOPPER WINDOW HARDWARE SERIES

Fork Drive Handle (Type TT) Configuration



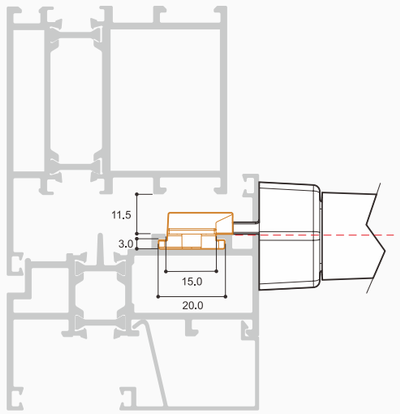
HOPPER WINDOW HARDWARE SERIES

Configuration Table - Fork Drive Handle (Type W/ TT)

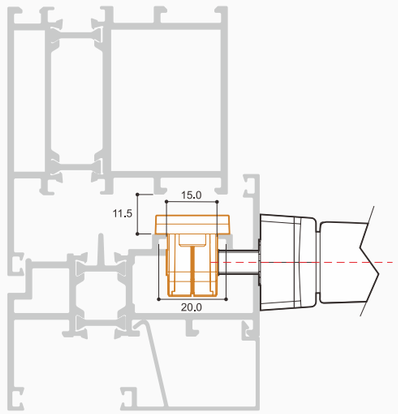
No.	Description	P/N	Qty	Notes
1	Fork Drive Handle (Type TT) / Spindle and Fork Drive Handle (Type W)	C010402 C010202 C010401 C010201 A010406 A010210 A010407 A010211 A010447 A010213 A010448 A010214 A010003	1	Berlin Series, Aluminum Alloy Koln Series, Aluminum Alloy Berlin Series, Zinc Alloy Koln Series, Zinc 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 Offset Fork Drive, Aluminum Alloy
2	Fork Drive Connector	B020004	1	
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
4	Keeper	A100127 A100122	2	Pry-Resistant Keeper
5	Limiting Stay	B040041 B040042	2	10" 14"
6	Hinge	B040059	2~3	80 kg Clamping Hinge
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
9	Drain Cover	C120002	2	
10	Fork Drive		1	Offset Fork Drive Central Fork Drive
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

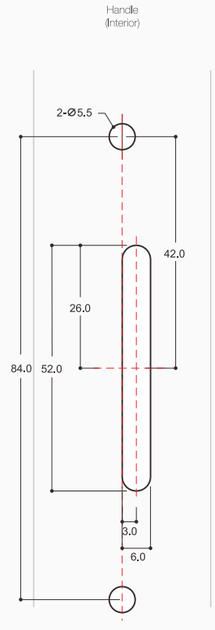
Hopper Window with C-Groove Profile Detail Drawing
Fork Drive Handle Configuration (Type TT)



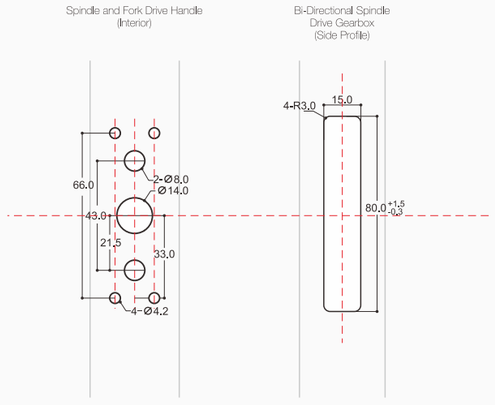
Hopper Window with C-Groove Profile Detail Drawing
Spindle Drive Handle Configuration (Type W)



Drill Hole Drawing



Drill Hole Drawing



P/N	H
A020130	22 mm
A020131	30 mm
A020133	35 mm
A020135	25 mm
A020119	11 mm
A020134	13 mm

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

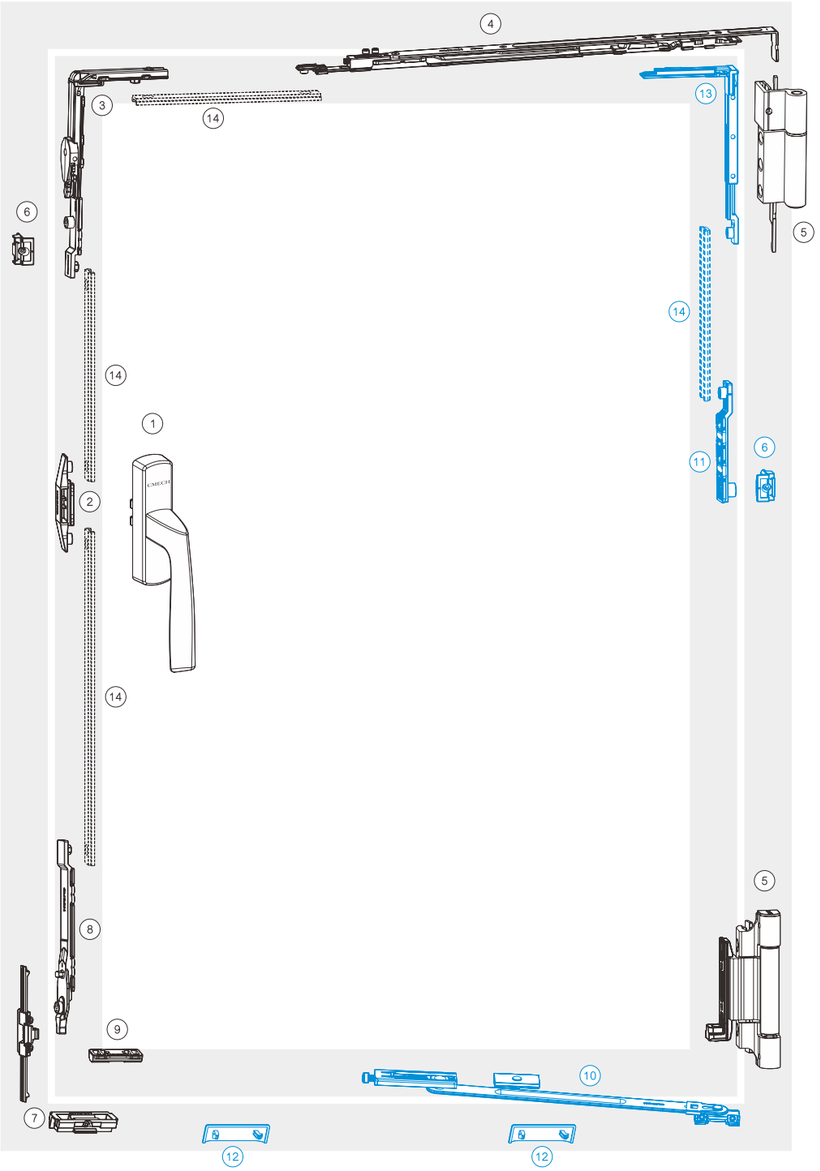
Tilt & Turn Window with Exposed Hinge		Applicable Range
Sash Width	(mm)	390-1,300
Sash Height	(mm)	600-2,400
Load-bearing	(kg)	≤80

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



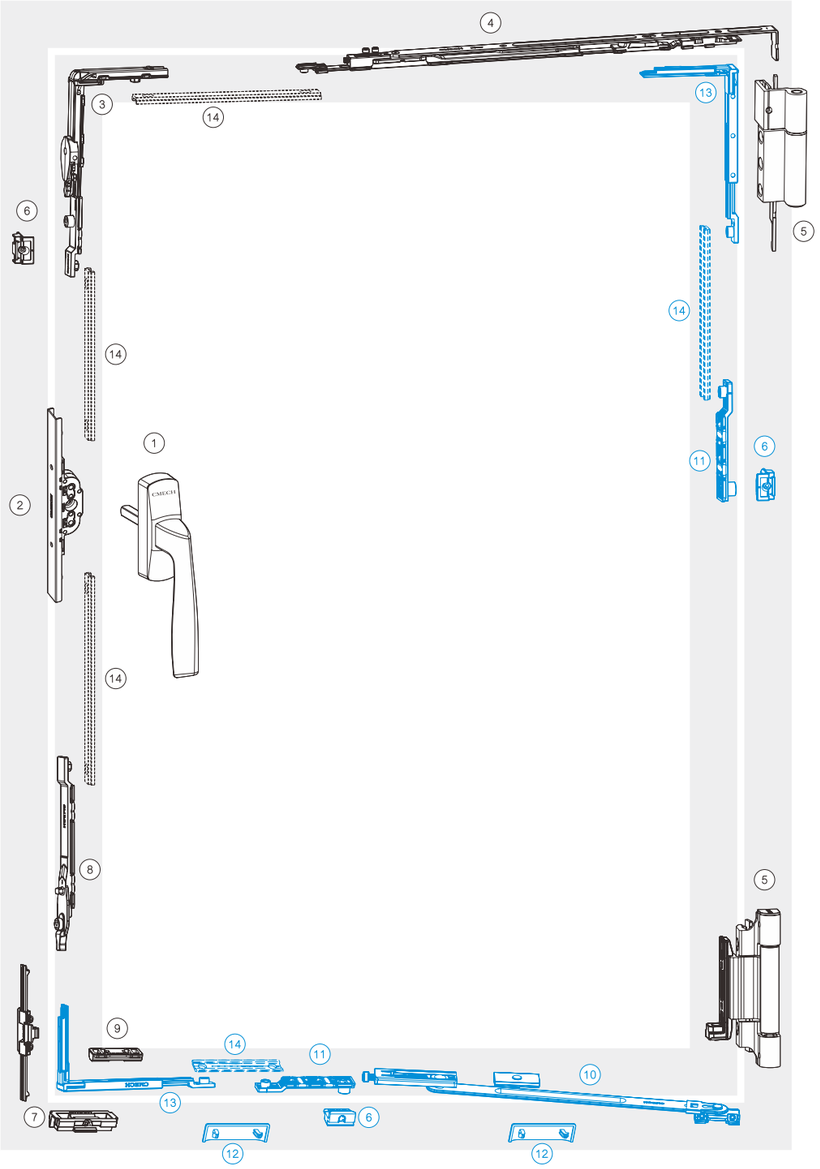
TILT & TURN WINDOW HARDWARE SERIES

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

No.	Description	P/N	Qty	Notes	
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	
2	Fork Drive Connector	B020004	1		P95
3	Fail-Safe Corner Drive	C060010	1	Regular Lock Point	P100
4	Stay	C020008 C020009	1	Sash Width: 450-750 mm Sash Width: 600-1,200 mm	P102
5	Upper and Lower Hinges	C040005	1	80 kg	P104
6	Keeper	A100127	1~2		P92
7	Tilt Strike Pack	C070003	1		P101
8	Tilt Bolt	C070006	1		P101
9	Sash Support Block	A080012 A080011	1	Without Bearing With Bearing	P106
10	Limiting Stay	B040041 B040042	1	10" 14"	P110
11	End lock Point	A090007	1	Ø9.5x6.0 mm	P88
12	Drain Cover	C120002	2		P102
13	Small Corner Drive	C060013	1		P100
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



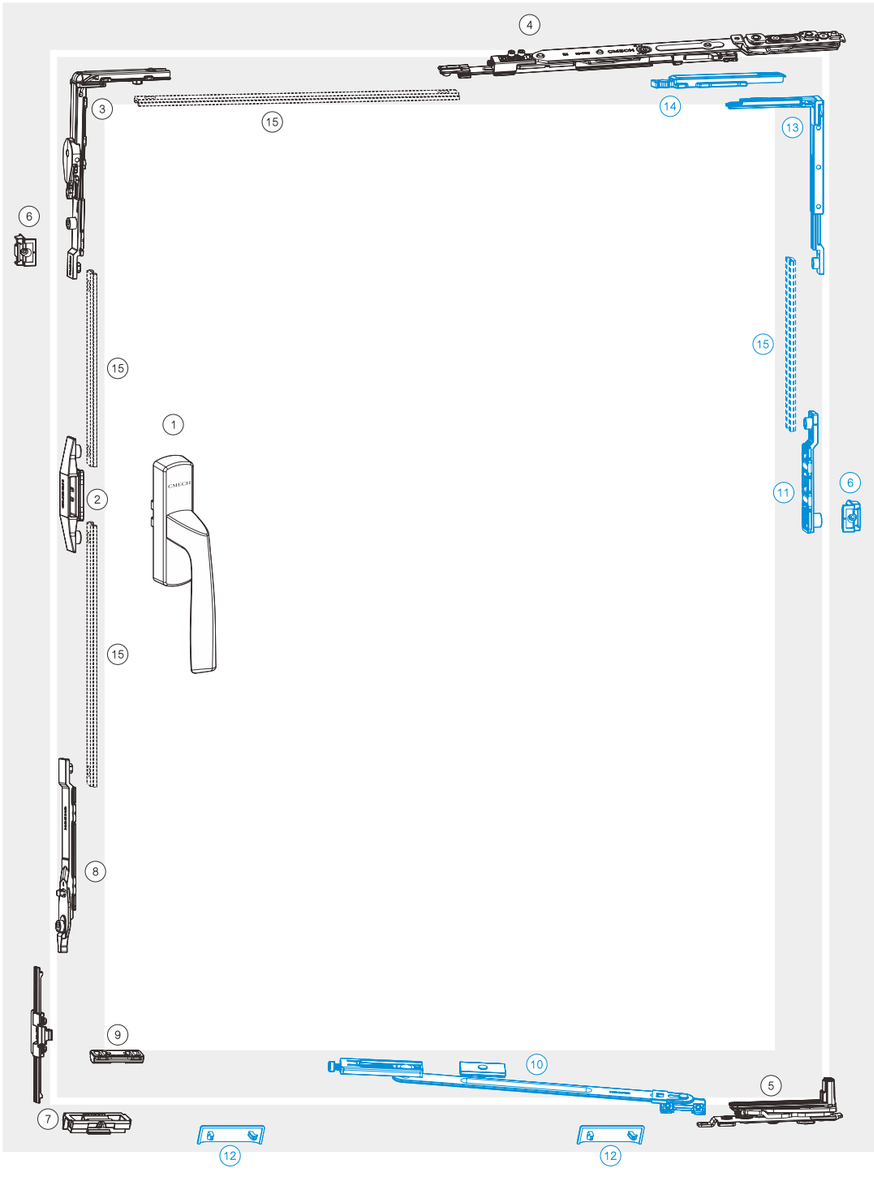
TILT & TURN WINDOW HARDWARE SERIES

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

No.	Description	P/N	Qty	Notes
1	Spindle Drive Handle	A010601 A010406 A010210 A010407 A010211 A010447 A010213 A010448 A010214 A010470 A010222 A010409 A010420 J010402 J010210 A010003	1	Milan Series, Aluminum Alloy, Screw Pack C110005/A110161 Berlin Series, Aluminum Alloy, Screw Pack C110005/A110161 Koln Series, Aluminum Alloy, Screw Pack C110005/A110161 Berlin Series, Aluminum Alloy, Screw Pack C110005/A110161 Koln Series, Aluminum Alloy, Screw Pack C110005/A110161 Berlin Series, Zinc Alloy, Screw Pack C110005/A110161 Koln Series, Zinc Alloy, Screw Pack C110005/A110161 Berlin Series, Zinc Alloy, Screw Pack C110005/A110161 Koln Series, Zinc Alloy, Screw Pack C110005/A110161 Berlin Handle Keyed, Screw Pack A110171 Koln 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 Koln Series, Exposed Spindle Length 25 mm, Screw Pack J110010 Chinese Traditional Huayun Series, Aluminum Alloy
2	Spindle Drive Gearbox	C020020 C020017	1	Hole Center to Attachment Surface: 11.5 mm Hole Center to Attachment Surface: 15 mm
3	Fail-Safe Corner Drive	C060010	1	Regular Lock Point
4	Stay	C020008 C020009	1	Sash Width: 450-750 mm Sash Width: 600-1,200 mm
5	Upper and Lower Hinges	C040005	1	80 kg
6	Keeper	A100127	1~3	
7	Tilt Strike Pack	C070003	1	
8	Tilt Bolt	C070006	1	
9	Sash Support Block	A080012 A080011	1	Without Bearing With Bearing
10	Limiting Stay	B040041 B040042	1	10" 14"
11	End lock Point	A090007	1	∅9.5x6.0 mm
12	Drain Cover	C120002	2	
13	Small Corner Drive	C060013	2	
14	Connecting Strip		3~5	Provided by Customer or Cmech
15	Handle Screw Pack	C110005	1	
16	Handle Screw Pack	J110010	1	Suitable for 28 Spindle Drive Handle and Turn Handle
17	Handle Screw Pack	A110160 A110161	1	Suitable for Spindle and Fork Drive Handle
18	Handle Screw Pack	A110171	1	Suitable for Spindle Drive Handle Keyed

TILT & TURN WINDOW HARDWARE SERIES

Fork Drive Handle with Concealed Hinge (90 kg) Configuration



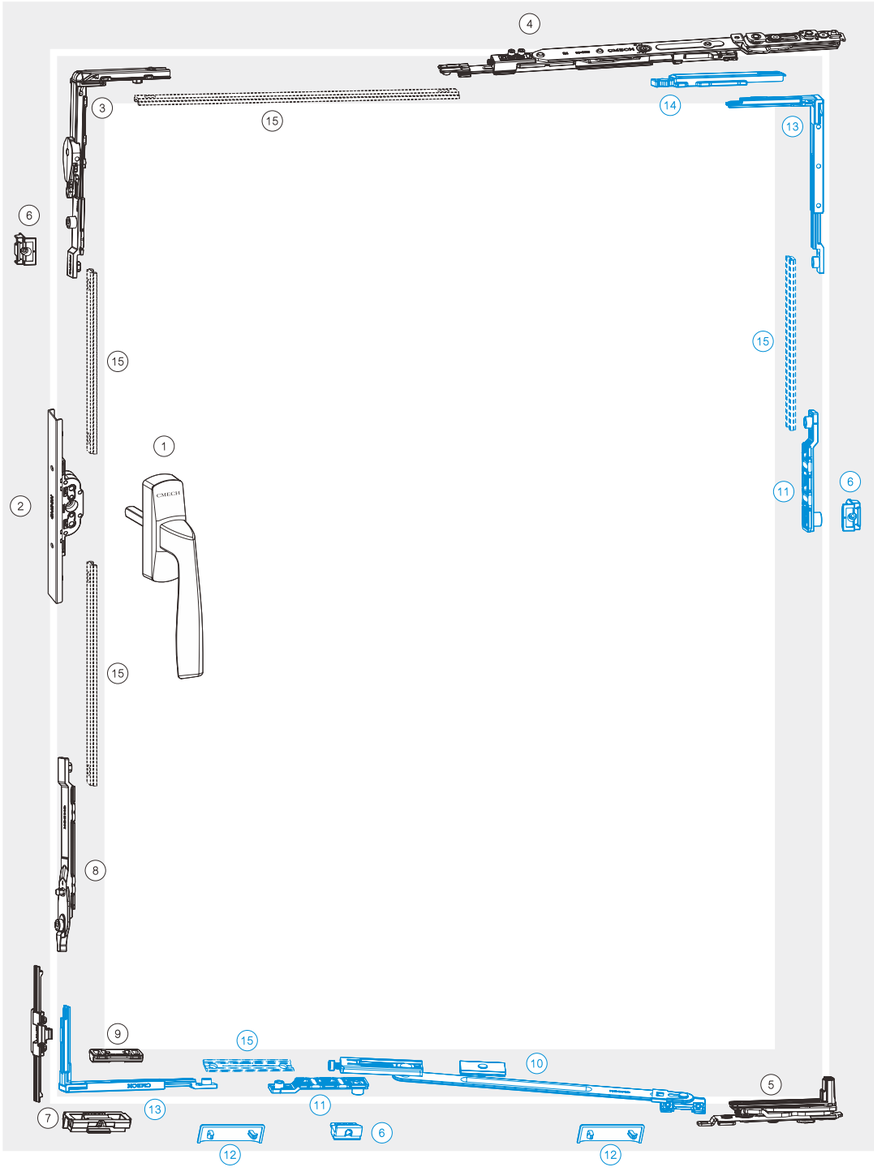
TILT & TURN WINDOW HARDWARE SERIES

Configuration Table - Fork Drive Handle with Concealed Hinge (90 kg)

No.	Description	P/N	Qty	Notes
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
2	Fork Drive Connector	B020004	1	
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
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
5	Concealed Lower Hinge Left Concealed Lower Hinge Right	C040045 C040046	1	Suitable for Left-Opening Sash Suitable for Right-Opening Sash
6	Keeper	A100127 C010005	1~2	Keeper Pry-Resistant Keeper
7	Tilt Strike Pack	C070003	1	
8	Tilt Bolt	C070006 C070005	1	Regular Lock Point Adjustable Pry-Resistant End Lock Point with Bearing
9	Sash Support Block	A080012 A080011	1	Without Bearing With Bearing
10	Limiting Stay	B040041 B040042	1	10" 14"
11	End lock Point	A090007	1	Ø9.5x6.0 mm
12	Drain Cover	C120002	2	
13	Small Corner Drive	C060013	1	
14	Corner Fitting Piece	C060012	1	For Use with Small Corner Drive
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



CMECH

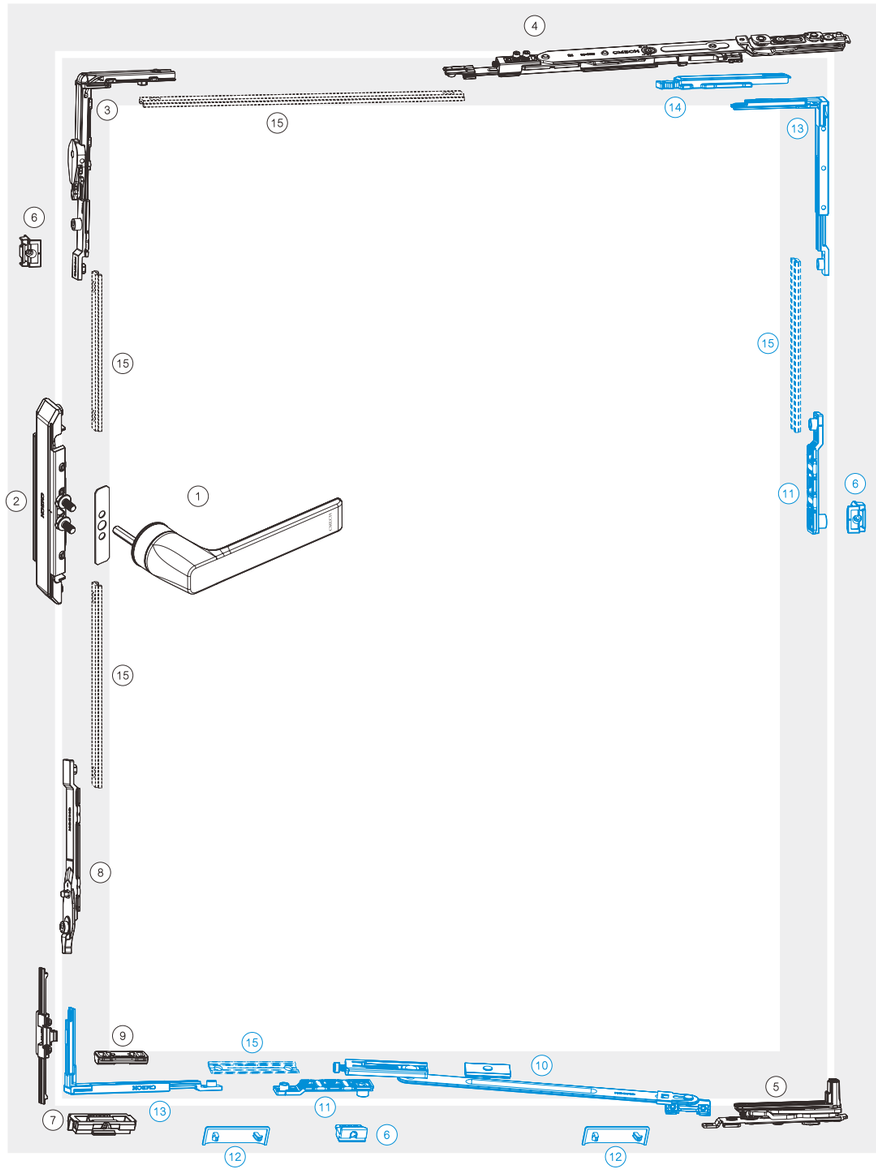
TILT & TURN WINDOW HARDWARE SERIES

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

No.	Description	P/N	Qty	Notes
1	Spindle Drive Handle	A010406 A010210 A010407 A010211 A010447 A010213 A010448 A010214 A010470 A010222 A010409 A010420 J010402 J010210 A010003	1	Berlin Series, Aluminum Alloy, Screw Pack C110005/A110161 Koln Series, Aluminum Alloy, Screw Pack C110005/A110161 Berlin Series, Aluminum Alloy, Screw Pack C110005/A110161 Koln Series, Aluminum Alloy, Screw Pack C110005/A110161 Berlin Series, Zinc Alloy, Screw Pack C110005/A110161 Koln Series, Zinc Alloy, Screw Pack C110005/A110161 Berlin Series, Zinc Alloy, Screw Pack C110005/A110161 Koln Series, Zinc Alloy, Screw Pack C110005/A110161 Berlin Handle Keyed, Screw Pack A110171 Koln 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 Koln Series, Exposed Spindle Length 25 mm, Screw Pack J110010 Chinese Traditional Huayun Series, Aluminum Alloy
2	Spindle Drive Gearbox	C020020 C020017	1	Hole Center to Attachment Surface: 11.5 mm Hole Center to Attachment Surface: 15 mm
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
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
5	Concealed Lower Hinge Left Concealed Lower Hinge Right	C040045 C040046	1	Suitable for Left-Opening Sash Suitable for Right-Opening Sash
6	Keeper	A100127 C010005	1~3	Keeper Pry-Resistant Keeper
7	Tilt Strike Pack	C070003	1	
8	Tilt Bolt	C070006 C070005	1	Regular Lock Point Adjustable Pry-Resistant End Lock Point with Bearing
9	Sash Support Block	A080012 A080011	1	Without Bearing With Bearing
10	Limiting Stay	B040041 B040042	1	10" 14"
11	End lock Point	A090007	2	Ø9.5x6.0 mm
12	Drain Cover	C120002	2	
13	Small Corner Drive	C060013	2	
14	Corner Fitting Piece	C060012	1	For Use with Small Corner Drive
15	Connecting Strip		3~5	Provided by Customer or Cmech
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	A110160 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

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



CMECH

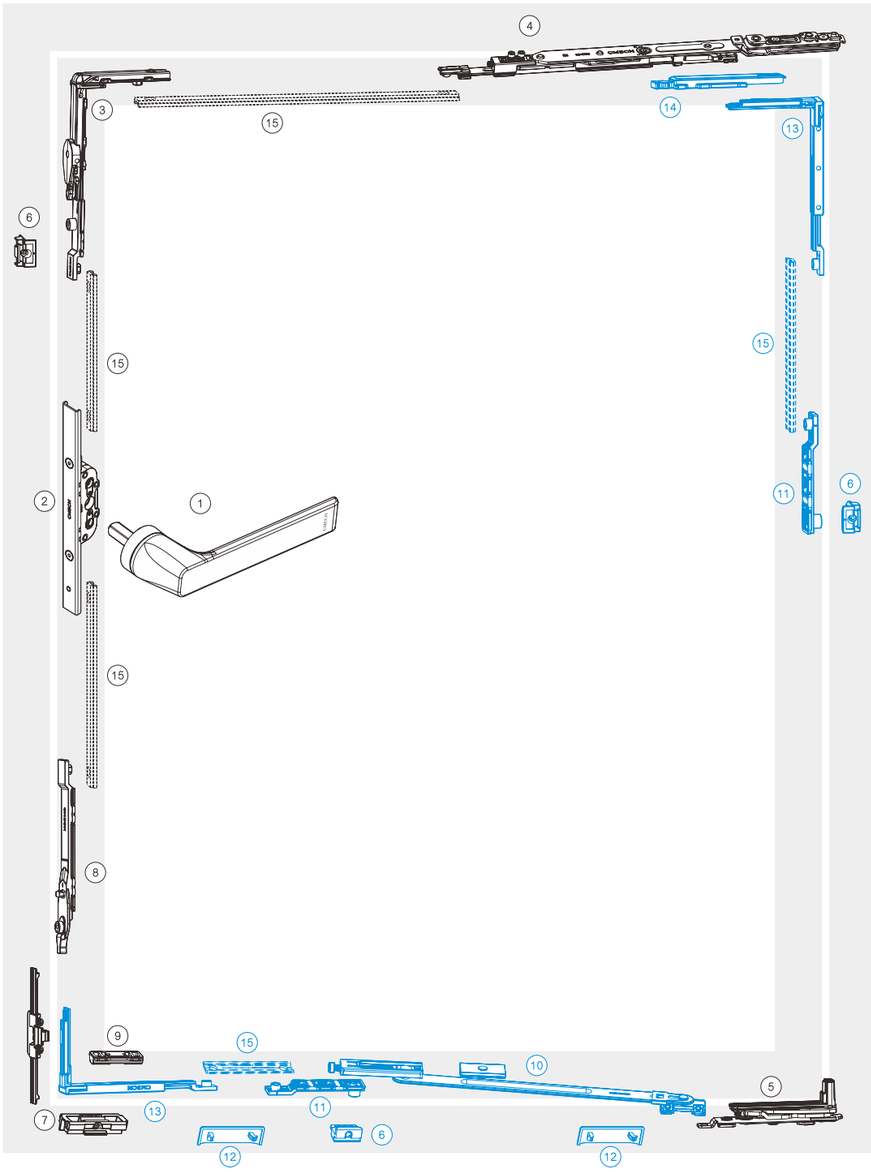
TILT & TURN WINDOW HARDWARE SERIES

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

No.	Description	P/N	Qty	Notes
1	Milan Handle	C010601	1	
2	Hexagon Spindle Drive Gearbox	C020016	1	
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
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
5	Concealed Lower Hinge Left Concealed Lower Hinge Right	C040045 C040046	1	Suitable for Left-Opening Sash Suitable for Right-Opening Sash
6	Keeper	A100127 C010005	1~4	Keeper Regular Keeper
7	Tilt Strike Pack	C070003	1	
8	Tilt Bolt	C070006 C070005	1	Regular Lock Point Adjustable Pry-Resistant End Lock Point with Bearing
9	Sash Support Block	A080012 A080011	1	Without Bearing With Bearing
10	Limiting Stay	B040041 B040042	1	10" 14"
11	End lock Point	A090007	1~2	Ø9.5x6.0 mm
12	Drain Cover	C120002	2	
13	Small Corner Drive	C060013	2	
14	Corner Fitting Piece	C060012	1	For Use with Small Corner Drive
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

Milan Handle Spindle Drive with Concealed Hinge (90 kg) Configuration



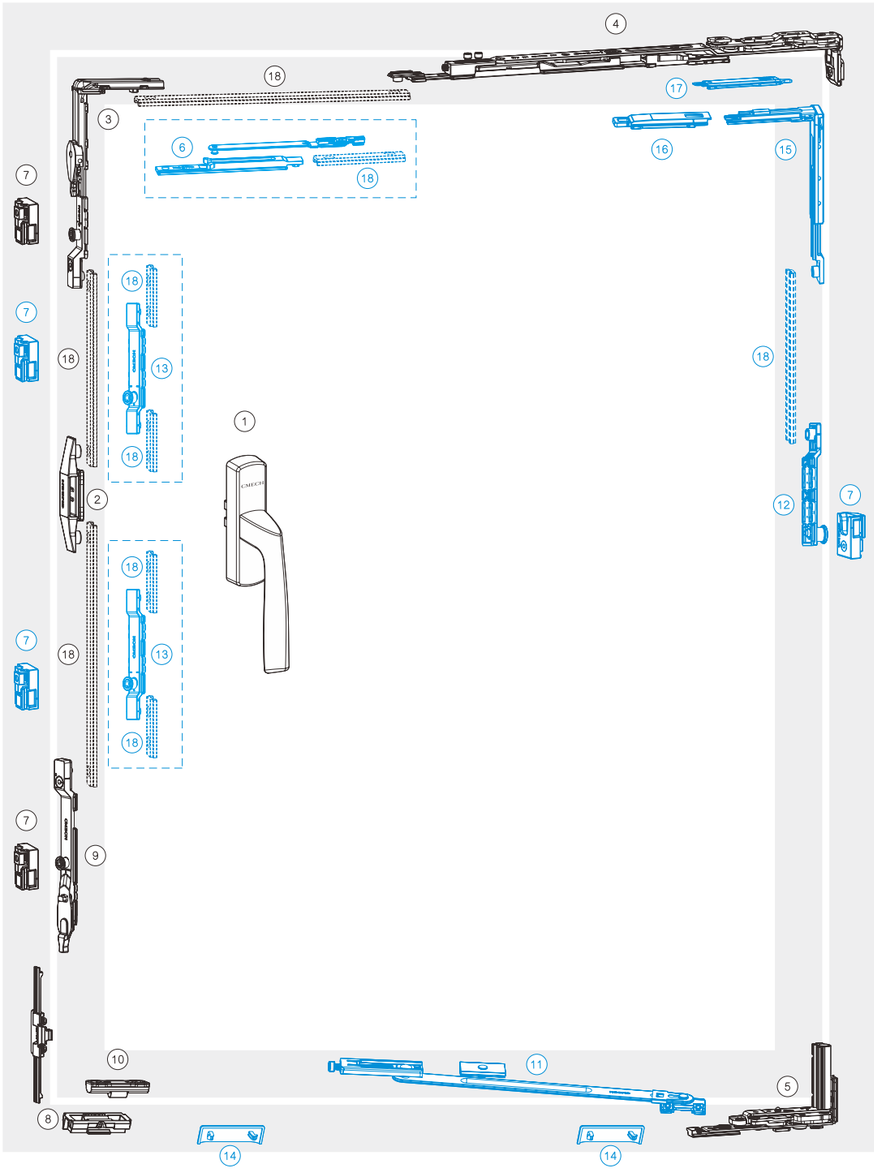
TILT & TURN WINDOW HARDWARE SERIES

Configuration Table - Milan Handle Spindle Drive with Concealed Hinge (90 kg)

No.	Description	P/N	Qty	Notes
1	Milan Handle	A010633 A010634 A010635	1	Outswing Casement Window Handle (Includes 26 mm Spindle) Outswing Casement Window Turn Handle (Left) (Includes 26 mm Spindle) Outswing Casement Window Turn Handle (Right) (Includes 26 mm Spindle)
2	Spindle Drive Gearbox	C020020 C020017	1	Hole Center to Attachment Surface: 11.5 mm Hole Center to Attachment Surface: 15 mm
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
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
5	Concealed Lower Hinge Left Concealed Lower Hinge Right	C040045 C040046	1	Suitable for Left-Opening Sash Suitable for Right-Opening Sash
6	Keeper	A100127 C010005	1~4	Keeper Regular Keeper
7	Tilt Strike Pack	C070003	1	
8	Tilt Bolt	C070006 C070005	1	Regular Lock Point
9	Sash Support Block	A080012 A080011	1	Without Bearing With Bearing
10	Limiting Stay	B040041 B040042	1	10° 14°
11	End lock Point	A090007	1~2	Ø9.5x6.0 mm
12	Drain Cover	C120002	2	
13	Small Corner Drive	C060013	2	
14	Corner Fitting Piece	C060012	1	For Use with Small Corner Drive
15	Connecting Strip		3~5	Provided by Customer or Cmech
16	Handle Screw Pack	A110237	1	Ram Screws Pack
17	Handle Screw Pack	A110238	1	Tapping Screws Pack

TILT & TURN WINDOW HARDWARE SERIES

Heavy Duty Fork Drive Handle with Concealed Hinge (100-130 kg) Configuration



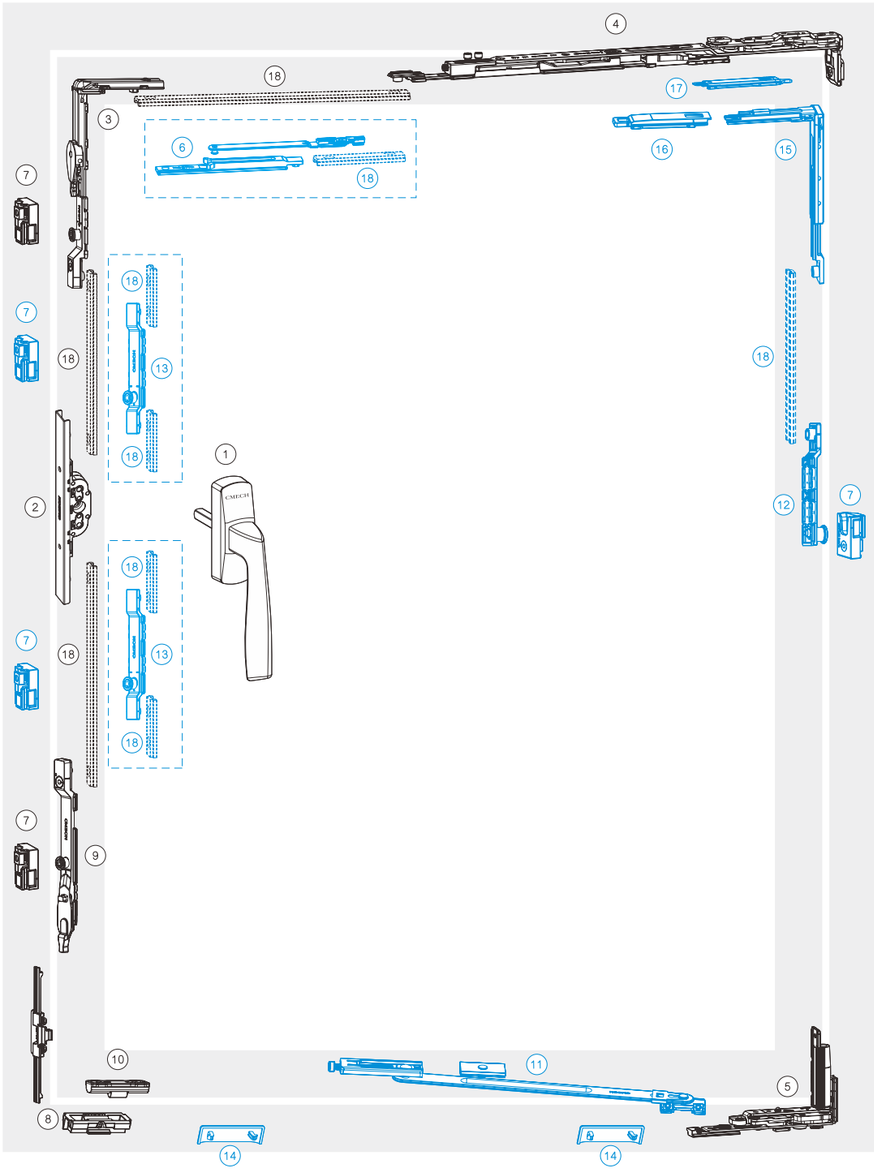
TILT & TURN WINDOW HARDWARE SERIES

Configuration Table - Heavy Duty Fork Drive Handle with Concealed Hinge (100-130 kg)

No.	Description	P/N	Qty	Notes
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
2	Fork Drive Connector	B020004	1	
3	Fail-Safe Corner Drive	C060011	1	Adjustable Pry-Resistant End Lock Point with Bearing
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
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	1	Suitable for Left-Opening Sash Suitable for Right-Opening Sash Suitable for Left-Opening Sash Suitable for Right-Opening Sash
6	Additional Limiting Stay	C020019	1~2	
7	Keeper	C100005	1~2	Regular Keeper
8	Tilt Strike Pack	C070003	1	
9	Heavy Duty Tilt Bolt	C070009	1	Adjustable Pry-Resistant End Lock Point with Bearing
10	Sash Support Block	A080011 A080012	1	With Bearing Without Bearing
11	Limiting Stay	B040041 B040042	1	10" 14"
12	End lock Point	A090032	1	Adjustable Pry-Resistant End Lock Point with Bearing
13	Central Lock Point	A090034	1~2	Ø9.5x6.0 mm
14	Drain Cover	C120002	2	
15	Small Corner Drive	C060013	1	
16	Corner Fitting Piece	C060012	1	For Use with Small Corner Drive
17	Shootbolt Pack	C070007	1	Option
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



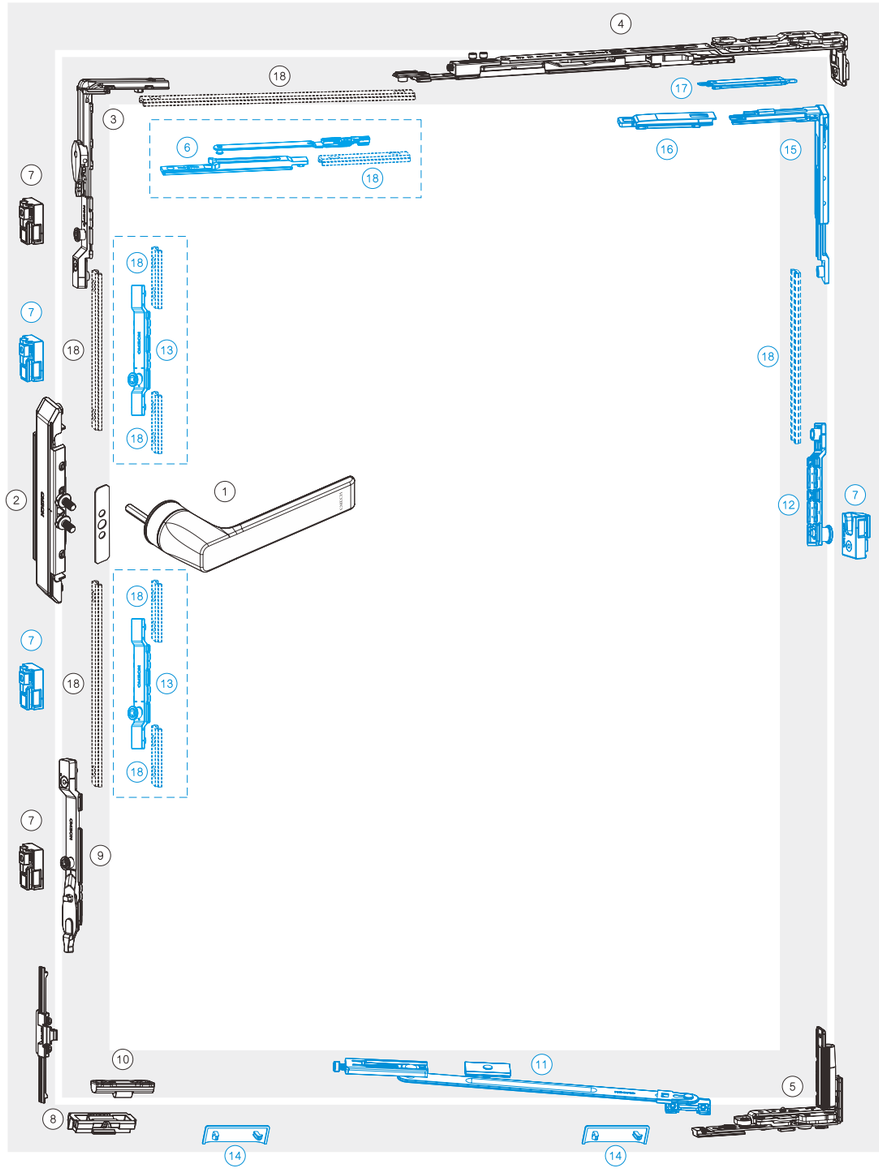
TILT & TURN WINDOW HARDWARE SERIES

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

No.	Description	P/N	Qty	Notes
1	Spindle Drive Handle	A010406 A010210 A010407 A010211 A010447 A010213 A010448 A010214 A010470 A010222 A010409 A010420 J010402 J010210 A010003	1	Berlin Series, Aluminum Alloy, Screw Pack C110005/A110161 Koln Series, Aluminum Alloy, Screw Pack C110005/A110161 Berlin Series, Aluminum Alloy, Screw Pack C110005/A110161 Koln Series, Aluminum Alloy, Screw Pack C110005/A110161 Berlin Series, Zinc Alloy, Screw Pack C110005/A110161 Koln Series, Zinc Alloy, Screw Pack C110005/A110161 Berlin Series, Zinc Alloy, Screw Pack C110005/A110161 Koln Series, Zinc Alloy, Screw Pack C110005/A110161 Berlin Handle Keyed, Screw Pack A110171 Koln 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 Koln Series, Exposed Spindle Length 25 mm, Screw Pack J110010 Chinese Traditional Huayun Series, Aluminum Alloy
2	Spindle Drive Gearbox	C020020 C020017	1	Hole Center to Attachment Surface: 11.5 mm Hole Center to Attachment Surface: 15 mm
3	Fail-Safe Corner Drive	C060011	1	Adjustable Pry-Resistant End Lock Point with Bearing
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
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	1	Suitable for Left-Opening Sash Suitable for Right-Opening Sash Suitable for Left-Opening Sash Suitable for Right-Opening Sash
6	Additional Limiting Stay	C020019	1~2	
7	Keeper	C100005	1~2	Regular Keeper
8	Tilt Strike Pack	C070003	1	
9	Heavy Duty Tilt Bolt	C070009	1	Adjustable Pry-Resistant End Lock Point with Bearing
10	Sash Support Block	A080011 A080012	1	With Bearing Without Bearing
11	Limiting Stay	B040041 B040042	1	10" 14"
12	End lock Point	A090032	1	Adjustable Pry-Resistant End Lock Point with Bearing
13	Central Lock Point	A090034	1~2	Ø9.5x6.0 mm
14	Drain Cover	C120002	2	
15	Small Corner Drive	C060013	1	
16	Corner Fitting Piece	C060012	1	For Use with Small Corner Drive
17	Shootbolt Pack	C070007	1	Option
18	Connecting Strip		3~4	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 Milan Handle & Hexagon Spindle Drive Gearbox with Concealed Hinge (130 kg) Configuration



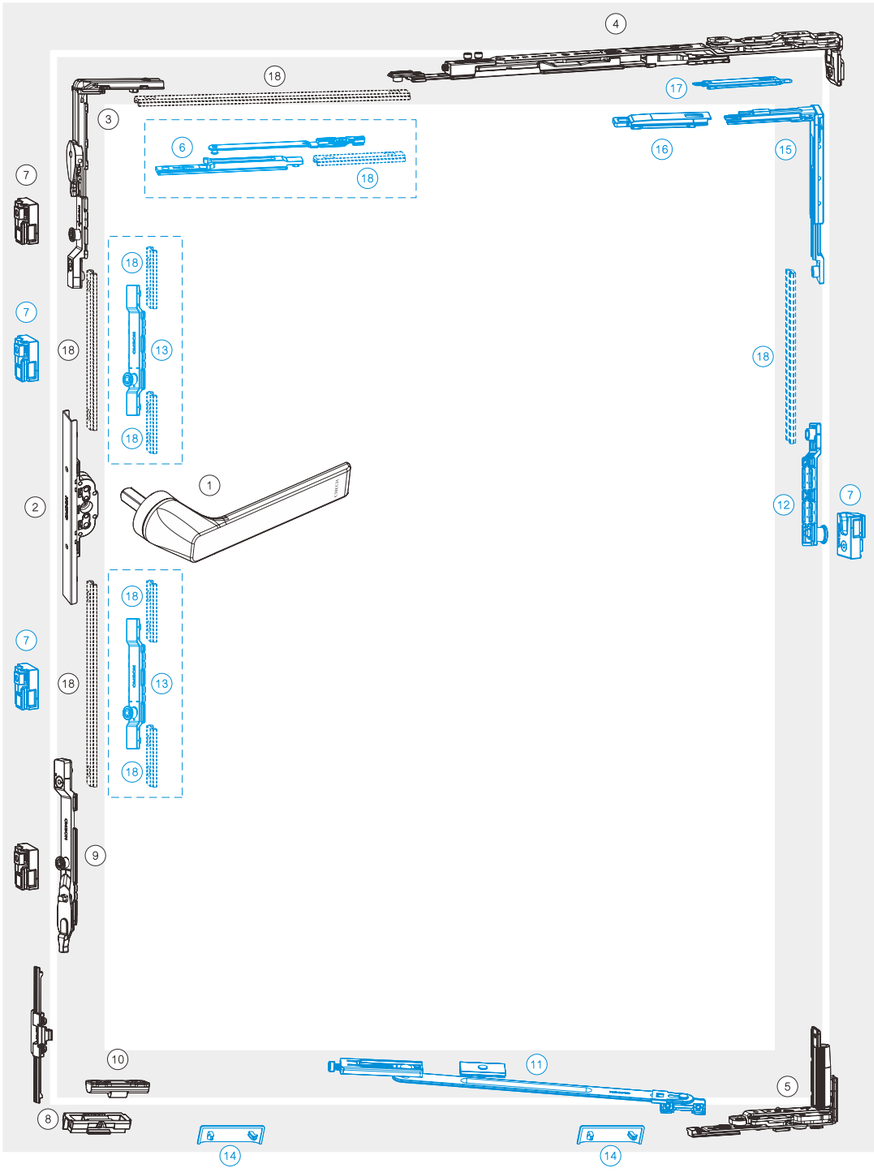
TILT & TURN WINDOW HARDWARE SERIES

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

No.	Description	P/N	Qty	Notes
1	Milan Handle	C010601	1	
2	Hexagon Spindle Drive Gearbox	C020016	1	
3	Fail-Safe Corner Drive	C060011	1	Adjustable Pry-Resistant End Lock Point with Bearing
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
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	1	Suitable for Left-Opening Sash Suitable for Right-Opening Sash Suitable for Left-Opening Sash Suitable for Right-Opening Sash
6	Additional Limiting Stay	C020019	1~2	
7	Keeper	C100005	1~2	Regular Keeper
8	Tilt Strike Pack	C070003	1	
9	Heavy Duty Tilt Bolt	C070009	1	Adjustable Pry-Resistant End Lock Point with Bearing
10	Sash Support Block	A080011 A080012	1	With Bearing Without Bearing
11	Limiting Stay	B040041 B040042	1	10" 14"
12	End lock Point	A090032	1	Adjustable Pry-Resistant End Lock Point with Bearing
13	Central Lock Point	A090034	1~2	Ø9.5x6.0 mm
14	Drain Cover	C120002	2	
15	Small Corner Drive	C060013	1	
16	Corner Fitting Piece	C060012	1	For Use with Small Corner Drive
17	Shootbolt Pack	C070007	1	Option
18	Connecting Strip		3~4	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



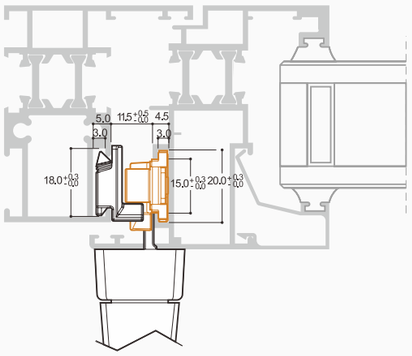
TILT & TURN WINDOW HARDWARE SERIES

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

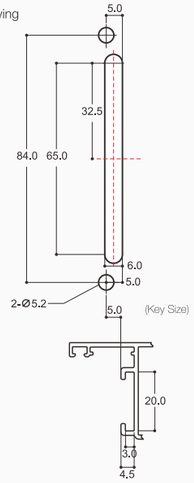
No.	Description	P/N	Qty	Notes
1	Milan Handle	A010606 A010607 A010608	1	Outswing Casement Window Handle (Includes 26 mm Spindle) Outswing Casement Window Turn Handle (Left) (Includes 26 mm Spindle) Outswing Casement Window Turn Handle (Right) (Includes 26 mm Spindle)
2	Spindle Drive Gearbox	C020020 C020017	1	Hole Center to Attachment Surface: 11.5 mm Hole Center to Attachment Surface: 15 mm
3	Fail-Safe Corner Drive	C060011	1	Adjustable Pry-Resistant End Lock Point with Bearing
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
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	1	Suitable for Left-Opening Sash Suitable for Right-Opening Sash Suitable for Left-Opening Sash Suitable for Right-Opening Sash
6	Additional Limiting Stay	C020019	1~2	
7	Keeper	C100005	1~2	Regular Keeper
8	Tilt Strike Pack	C070003	1	
9	Heavy Duty Tilt Bolt	C070009	1	Adjustable Pry-Resistant End Lock Point with Bearing
10	Sash Support Block	A080011 A080012	1	With Bearing Without Bearing
11	Limiting Stay	B040041 B040042	1	10" 14"
12	End lock Point	A090032	1	Adjustable Pry-Resistant End Lock Point with Bearing
13	Central Lock Point	A090034	1~2	Ø9.5x6.0 mm
14	Drain Cover	C120002	2	
15	Small Corner Drive	C060013	1	
16	Corner Fitting Piece	C060012	1	For Use with Small Corner Drive
17	Shootbolt Pack	C070007	1	Option
18	Connecting Strip		3~4	Provided by Customer or Cmech
16	Handle Screw Pack	A110237	1	Ram Screws Pack
17	Handle Screw Pack	A110238	1	Tapping Screws Pack

TILT & TURN WINDOW PROFILE AND DRILLING REQUIREMENTS

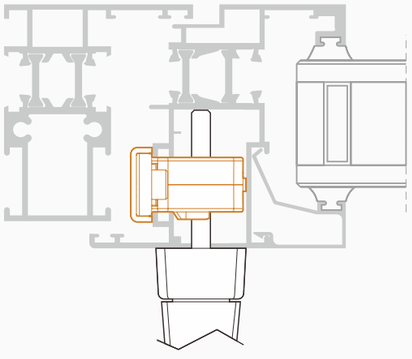
Tilt & Turn Window with C-Groove Profile Detail Drawing
Fork Drive Handle



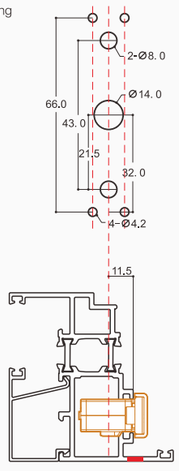
Drill Hole Drawing
Handle



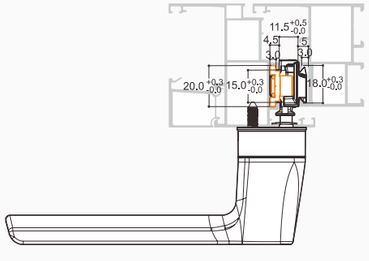
Tilt & Turn Window with C-Groove Profile Detail Drawing
Spindle Drive Handle



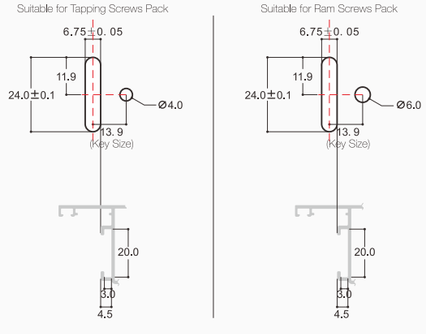
Drill Hole Drawing
Handle



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



Drill Hole Drawing
Handle



SCREW PACK SELECTIONS

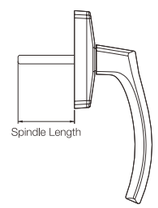
S Series/Fly Screen Handle		
P/N	Notes	Qty
A110179	Steel, Suitable for 26.7 mm Spindle	1
A110180	Steel, Suitable for 32.7 mm Spindle	1
A110181	Steel, Suitable for 37.7 mm Spindle	1
A110182	Steel, Suitable for 42.7 mm Spindle	1
A110183	Steel, Suitable for 52.7 mm Spindle	1
A110184	Steel, Suitable for 62.7 mm Spindle	1
A110185	Steel, Suitable for 72.7 mm Spindle	1
A110186	Steel, Suitable for 87.7 mm Spindle	1
A110187	Steel, Suitable for 102.7 mm Spindle	1
A110188	Steel, Suitable for 117.7 mm Spindle	1
A110292	Spindle, Steel, Suitable for 22.5 mm Spindle	1
A110293	Spindle, Steel, Suitable for 26.5 mm Spindle	1
A110294	Spindle, Steel, Suitable for 32.5 mm Spindle	1
A110295	Spindle, Steel, Suitable for 37.5 mm Spindle	1
A110296	Spindle, Steel, Suitable for 42.5 mm Spindle	1
A110297	Spindle, Steel, Suitable for 47.5 mm Spindle	1
A110298	Spindle, Steel, Suitable for 52.5 mm Spindle	1
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

Handle Screw Pack		
P/N	Notes	Qty
J110001	Stainless Steel, M5×0.8×25 mm Cross Screws	2
J110002	Stainless Steel, M5×0.8×35 mm Cross Screws	2
J110003	Stainless Steel, M5×0.8×45 mm Cross Screws	2
J110004	Stainless Steel, M5×0.8×55 mm Cross Screws	2
J110005	Stainless Steel, M5×0.8×60 mm Cross Screws	2
J110006	Stainless Steel, M5×0.8×65 mm Cross Screws	2
J110007	Stainless Steel, M5×0.8×70 mm Cross Screws	2
J110008	Stainless Steel, M5×0.8×80 mm Cross Screws	2
J110009	Steel, M5×0.8×25 mm Cross Screws	2
J110010	Steel, M5×0.8×35 mm Cross Screws	2
J110011	Steel, M5×0.8×45 mm Cross Screws	2
J110012	Steel, M5×0.8×55 mm Cross Screws	2
J110013	Steel, M5×0.8×60 mm Cross Screws	2
J110014	Steel, M5×0.8×65 mm Cross Screws	2
J110015	Steel, M5×0.8×70 mm Cross Screws	2
J110016	Steel, M5×0.8×80 mm Cross Screws	2
J110019	Steel, M5×0.8×95 mm Cross Screws	2

Spindle and Fork Drive Handle		
P/N	Notes	Qty
A110159	Steel, Suitable for 20 mm Spindle	1
A110160	Steel, Suitable for 25 mm Spindle	1
A110161	Steel, Suitable for 30 mm Spindle	1
A110162	Steel, Suitable for 40 mm Spindle	1
A110163	Steel, Suitable for 50 mm Spindle	1
A110164	Steel, Suitable for 60 mm Spindle	1
A110165	Steel, Suitable for 75 mm Spindle	1
A110166	Steel, Suitable for 90 mm Spindle	1
A110167	Steel, Suitable for 105 mm Spindle	1
A110168	Steel, Suitable for 120 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

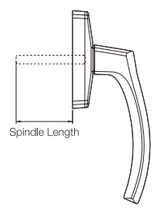
Handle with Cylinder		
P/N	Notes	Qty
A110169	Steel, Suitable for 18 mm Spindle	1
A110170	Steel, Suitable for 23 mm Spindle	1
A110171	Steel, Suitable for 28 mm Spindle	1
A110172	Steel, Suitable for 38 mm Spindle	1
A110173	Steel, Suitable for 48 mm Spindle	1
A110174	Steel, Suitable for 58 mm Spindle	1
A110175	Steel, Suitable for 73 mm Spindle	1
A110176	Steel, Suitable for 88 mm Spindle	1
A110177	Steel, Suitable for 103 mm Spindle	1
A110178	Steel, Suitable for 118 mm Spindle	1

Fixed Spindle



- 28 Spindle Drive Handle
- Turn Handle

Moveable Spindle

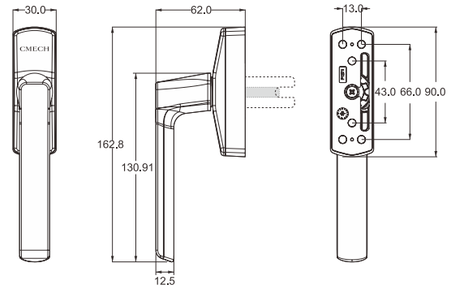


- Keyed Handle
- Spindle and Fork Drive Handle
- Fly Screen Handle
- S Series

HANDLE SELECTIONS

MILAN SERIES

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



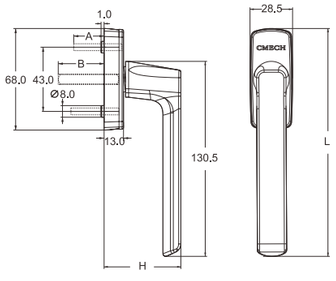
M Treatment

Silver 01 | Champagne 02 | Gold 11 | Bronze 12

Powder Coating

White 09 | Black 10 | Mat Black 17

S Series Milan Handle



P/N	Material	H	L	Suitable for
A010623-	Aluminum Alloy	51.4	152.5	Outswing Casement Windows, Inswing Casement Windows
A010630-	Aluminum Alloy	39.9	165.3	

M Treatment

Silver 01 | Champagne 02 | Gold 11 | Bronze 12

Powder Coating

White 09 | Black 10 | Mat Black 17

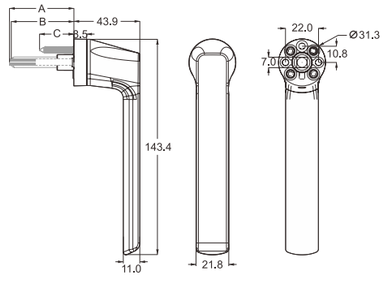
Screw Pack

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



M Treatment

Silver 01 | Champagne 02 | Gold 11 | Bronze 12

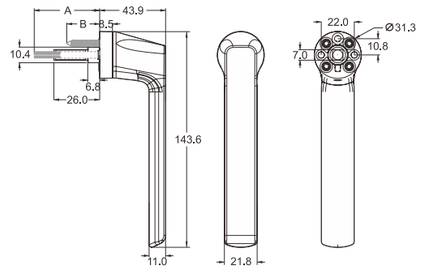
Powder Coating

White 09 | Black 10 | Mat Black 17

Screw Pack

P/N	A	B	C
A110239	20-5=15	20	ST4.2×14 Self-Tapping Screws
A110219	25-5=20	20	ST4.2×14 Self-Tapping Screws
A110220	30-5=25	25	ST4.2×14 Self-Tapping Screws
A110221	35-5=30	30	ST4.2×14 Self-Tapping Screws
A110222	45-5=40	40	ST4.2×14 Self-Tapping Screws
A110223	55-5=50	50	ST4.2×14 Self-Tapping Screws
A110224	65-5=60	60	ST4.2×14 Self-Tapping Screws
A110225	75-5=70	70	ST4.2×14 Self-Tapping Screws
A110226	85-5=80	80	ST4.2×14 Self-Tapping Screws
A110227	95-5=90	90	ST4.2×14 Self-Tapping Screws
A110240	20-5=15	20	M4×20 Ram Screws
A110228	25-5=20	20	M4×20 Ram Screws
A110229	30-5=25	25	M4×20 Ram Screws
A110230	35-5=30	30	M4×20 Ram Screws
A110231	45-5=40	40	M4×20 Ram Screws
A110232	55-5=50	50	M4×20 Ram Screws
A110233	65-5=60	60	M4×20 Ram Screws
A110234	75-5=70	70	M4×20 Ram Screws
A110235	85-5=80	80	M4×20 Ram Screws
A110236	95-5=90	90	M4×20 Ram Screws
A110249	50-5=45	45	M4×20 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	M4×30 Ram Screws
A110238	30-5=25	ST4.2×14 Self-Tapping Screws
A110252	25-5=20	M4×25 Ram Screws
A110253	22-5=17	M4×22.5 Ram Screws
A110254	20-5=15	M4×20 Ram Screws
A110255	25-5=20	ST4.2×14 Self-Tapping Screws
A110256	22-5=17	ST4.2×14 Self-Tapping Screws
A110257	20-5=15	ST4.2×14 Self-Tapping Screws

M Treatment

Silver 01 | Champagne 02 | Gold 11 | Bronze 12

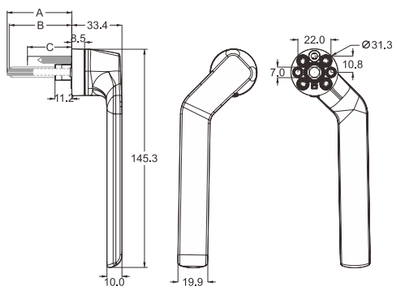
Powder Coating

White 09 | Black 10 | Mat Black 17

HANDLE SELECTIONS

MILAN SERIES

A010612-
L Series Milan Round-Base Handle (Left) without Spindle



M Treatment

Silver 01 | Champagne 02 | Gold 11 | Bronze 12

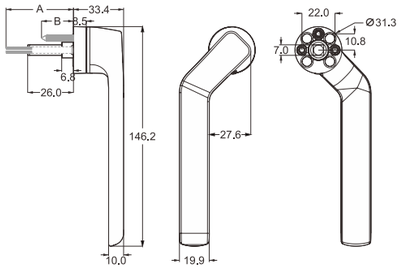
Powder Coating

White 09 | Black 10 | Mat Black 17

Screw Pack

P/N	A	B	C
A110239	20-5=15	20	ST4.2×14 Self-Tapping Screws
A110219	25-5=20	20	ST4.2×14 Self-Tapping Screws
A110220	30-5=25	25	ST4.2×14 Self-Tapping Screws
A110221	35-5=30	30	ST4.2×14 Self-Tapping Screws
A110222	45-5=40	40	ST4.2×14 Self-Tapping Screws
A110223	55-5=50	50	ST4.2×14 Self-Tapping Screws
A110224	65-5=60	60	ST4.2×14 Self-Tapping Screws
A110225	75-5=70	70	ST4.2×14 Self-Tapping Screws
A110226	85-5=80	80	ST4.2×14 Self-Tapping Screws
A110227	95-5=90	90	ST4.2×14 Self-Tapping Screws
A110240	20-5=15	20	M4×20 Ram Screws
A110228	25-5=20	20	M4×20 Ram Screws
A110229	30-5=25	25	M4×20 Ram Screws
A110230	35-5=30	30	M4×20 Ram Screws
A110231	45-5=40	40	M4×20 Ram Screws
A110232	55-5=50	50	M4×20 Ram Screws
A110233	65-5=60	60	M4×20 Ram Screws
A110234	75-5=70	70	M4×20 Ram Screws
A110235	85-5=80	80	M4×20 Ram Screws
A110236	95-5=90	90	M4×20 Ram Screws
A110249	50-5=45	45	M4×20 Ram Screws
A110258	/	25	/
A110259	/	30	/
A110260	/	50	/
A110261	/	60	/

A010615-
L Series Milan Round-Base Handle (Left) with 26 mm-Spindle



M Treatment

Silver 01 | Champagne 02 | Gold 11 | Bronze 12

Powder Coating

White 09 | Black 10 | Mat Black 17

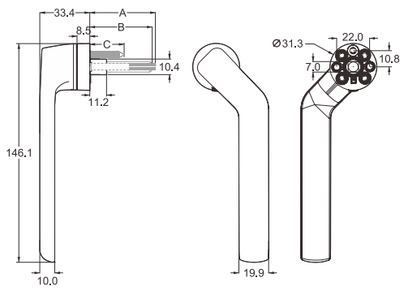
Screw Pack

P/N	A	B
A110237	30-5=25	M4×30 Ram Screws
A110238	30-5=25	ST4.2×14 Self-Tapping Screws
A110252	25-5=20	M4×25 Ram Screws
A110253	22-5=17	M4×22.5 Ram Screws
A110254	20-5=15	M4×20 Ram Screws
A110255	25-5=20	ST4.2×14 Self-Tapping Screws
A110256	22-5=17	ST4.2×14 Self-Tapping Screws
A110257	20-5=15	ST4.2×14 Self-Tapping Screws

HANDLE SELECTIONS

MILAN SERIES

A010613-
Milan Round-Base Handle (Right) without Spindle



M Treatment

Silver 01 | Champagne 02 | Gold 11 | Bronze 12

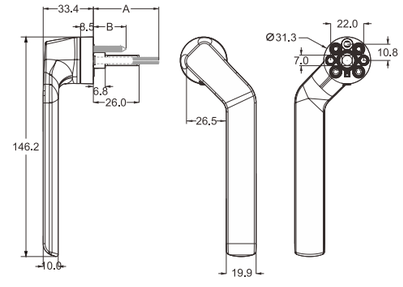
Powder Coating

White 09 | Black 10 | Mat Black 17

Screw Pack

P/N	A	B	C
A110239	20-5=15	20	ST4.2×14 Self-Tapping Screws
A110219	25-5=20	20	ST4.2×14 Self-Tapping Screws
A110220	30-5=25	25	ST4.2×14 Self-Tapping Screws
A110221	35-5=30	30	ST4.2×14 Self-Tapping Screws
A110222	45-5=40	40	ST4.2×14 Self-Tapping Screws
A110223	55-5=50	50	ST4.2×14 Self-Tapping Screws
A110224	65-5=60	60	ST4.2×14 Self-Tapping Screws
A110225	75-5=70	70	ST4.2×14 Self-Tapping Screws
A110226	85-5=80	80	ST4.2×14 Self-Tapping Screws
A110227	95-5=90	90	ST4.2×14 Self-Tapping Screws
A110240	20-5=15	20	M4×20 Ram Screws
A110228	25-5=20	20	M4×20 Ram Screws
A110229	30-5=25	25	M4×20 Ram Screws
A110230	35-5=30	30	M4×20 Ram Screws
A110231	45-5=40	40	M4×20 Ram Screws
A110232	55-5=50	50	M4×20 Ram Screws
A110233	65-5=60	60	M4×20 Ram Screws
A110234	75-5=70	70	M4×20 Ram Screws
A110235	85-5=80	80	M4×20 Ram Screws
A110236	95-5=90	90	M4×20 Ram Screws
A110249	50-5=45	45	M4×20 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	/

A010616-
Milan Round-Base Handle (Right) with 26 mm-Spindle



M Treatment

Silver 01 | Champagne 02 | Gold 11 | Bronze 12

Powder Coating

White 09 | Black 10 | Mat Black 17

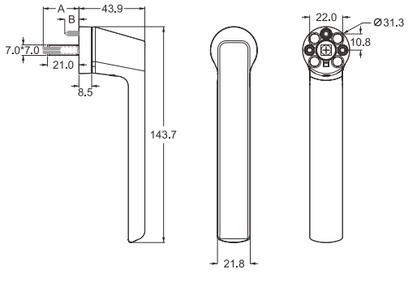
Screw Pack

P/N	A	B
A110237	30-5=25	M4×30 Ram Screws
A110238	30-5=25	ST4.2×14 Self-Tapping Screws
A110252	25-5=20	M4×25 Ram Screws
A110253	22-5=17	M4×22.5 Ram Screws
A110254	20-5=15	M4×20 Ram Screws
A110255	25-5=20	ST4.2×14 Self-Tapping Screws
A110256	22-5=17	ST4.2×14 Self-Tapping Screws
A110257	20-5=15	ST4.2×14 Self-Tapping Screws

HANDLE SELECTIONS

MILAN SERIES

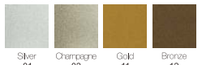
A010624-
L series Milan Round-Base Handle with 21 mm-Spindle



Screw Pack

P/N	A	B
A110237	30-5=25	M4×30 Ram Screws
A110238	30-5=25	ST4.2×14 Self-Tapping Screws
A110252	25-5=20	M4×25 Ram Screws
A110253	22-5=17	M4×22.5 Ram Screws
A110254	20-5=15	M4×20 Ram Screws
A110255	25-5=20	ST4.2×14 Self-Tapping Screws
A110256	22-5=17	ST4.2×14 Self-Tapping Screws
A110257	20-5=15	ST4.2×14 Self-Tapping Screws

M Treatment

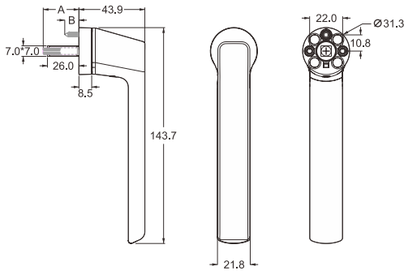


Silver 01 | Champagne 02 | Gold 11 | Bronze 12

Powder Coating

White 09 | Black 10 | Mat Black 17

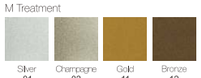
A010633-
L series Milan Round-Base Handle with 26 mm-Spindle



Screw Pack

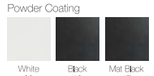
P/N	A	B
A110237	30-5=25	M4×30 Ram Screws
A110238	30-5=25	ST4.2×14 Self-Tapping Screws
A110252	25-5=20	M4×25 Ram Screws
A110253	22-5=17	M4×22.5 Ram Screws
A110254	20-5=15	M4×20 Ram Screws
A110255	25-5=20	ST4.2×14 Self-Tapping Screws
A110256	22-5=17	ST4.2×14 Self-Tapping Screws
A110257	20-5=15	ST4.2×14 Self-Tapping Screws

M Treatment



Silver 01 | Champagne 02 | Gold 11 | Bronze 12

Powder Coating

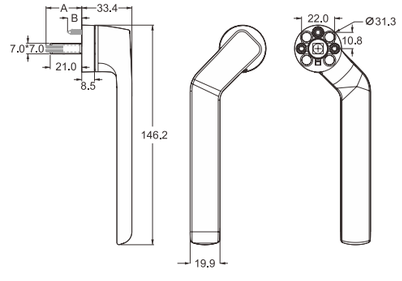


White 09 | Black 10 | Mat Black 17

HANDLE SELECTIONS

MILAN SERIES

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



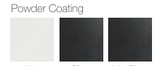
Screw Pack

P/N	A	B
A110237	30-5=25	M4×30 Ram Screws
A110238	30-5=25	ST4.2×14 Self-Tapping Screws
A110252	25-5=20	M4×25 Ram Screws
A110253	22-5=17	M4×22.5 Ram Screws
A110254	20-5=15	M4×20 Ram Screws
A110255	25-5=20	ST4.2×14 Self-Tapping Screws
A110256	22-5=17	ST4.2×14 Self-Tapping Screws
A110257	20-5=15	ST4.2×14 Self-Tapping Screws

M Treatment

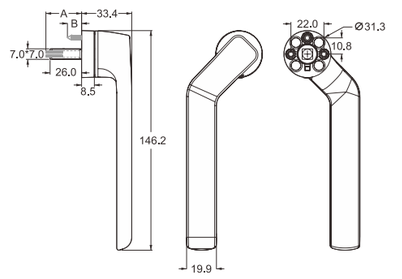
Silver 01 | Champagne 02 | Gold 11 | Bronze 12

Powder Coating



White 09 | Black 10 | Mat Black 17

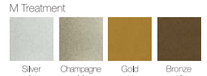
A010634-
L Series Milan Round-Base Handle (Left) with 26 mm-Spindle



Screw Pack

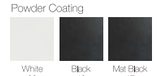
P/N	A	B
A110237	30-5=25	M4×30 Ram Screws
A110238	30-5=25	ST4.2×14 Self-Tapping Screws
A110252	25-5=20	M4×25 Ram Screws
A110253	22-5=17	M4×22.5 Ram Screws
A110254	20-5=15	M4×20 Ram Screws
A110255	25-5=20	ST4.2×14 Self-Tapping Screws
A110256	22-5=17	ST4.2×14 Self-Tapping Screws
A110257	20-5=15	ST4.2×14 Self-Tapping Screws

M Treatment



Silver 01 | Champagne 02 | Gold 11 | Bronze 12

Powder Coating

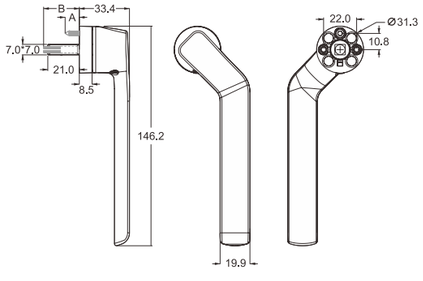


White 09 | Black 10 | Mat Black 17

HANDLE SELECTIONS

MILAN SERIES

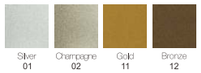
A010626-
L Series Milan Round-Base Handle (Right) with 21 mm-Spindle



Screw Pack

P/N	A	B
A110237	30-5=25	M4×30 Ram Screws
A110238	30-5=25	ST4.2×14 Self-Tapping Screws
A110252	25-5=20	M4×25 Ram Screws
A110253	22-5=17	M4×22.5 Ram Screws
A110254	20-5=15	M4×20 Ram Screws
A110255	25-5=20	ST4.2×14 Self-Tapping Screws
A110256	22-5=17	ST4.2×14 Self-Tapping Screws
A110257	20-5=15	ST4.2×14 Self-Tapping Screws

M Treatment

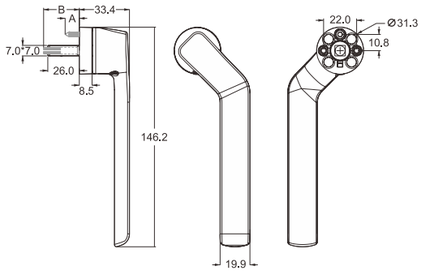


Silver 01 | Champagne 02 | Gold 11 | Bronze 12

Powder Coating

White 09 | Black 10 | Mat Black 17

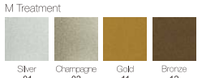
A010635-
L Series Milan Round-Base Handle (Right) with 26 mm-Spindle



Screw Pack

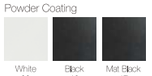
P/N	A	B
A110237	30-5=25	M4×30 Ram Screws
A110238	30-5=25	ST4.2×14 Self-Tapping Screws
A110252	25-5=20	M4×25 Ram Screws
A110253	22-5=17	M4×22.5 Ram Screws
A110254	20-5=15	M4×20 Ram Screws
A110255	25-5=20	ST4.2×14 Self-Tapping Screws
A110256	22-5=17	ST4.2×14 Self-Tapping Screws
A110257	20-5=15	ST4.2×14 Self-Tapping Screws

M Treatment



Silver 01 | Champagne 02 | Gold 11 | Bronze 12

Powder Coating

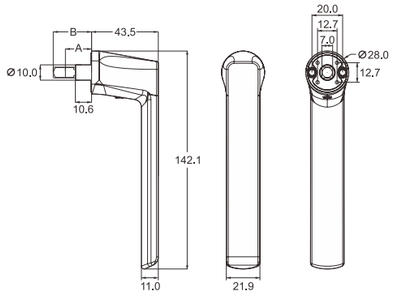


White 09 | Black 10 | Mat Black 17

HANDLE SELECTIONS

MILAN SERIES

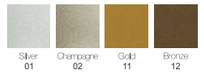
A010617-
P Series Milan Baseless Handle with 25 mm-Spindle



Screw Pack

P/N	A	B
A110266	M4×20 5.3 Cross Recessed Pan Head Screws	19.4mm
A110267	M4×25 5.3 Cross Recessed Pan Head Screws	19.4mm
A110268	M4×30 5.3 Cross Recessed Pan Head Screws	24.4mm
A110269	M4×35 5.3 Cross Recessed Pan Head Screws	29.4mm
A110270	M4×45 5.3 Cross Recessed Pan Head Screws	39.4mm
A110271	M4×50 5.3 Cross Recessed Pan Head Screws	44.4mm
A110272	M4×55 5.3 Cross Recessed Pan Head Screws	49.4mm
A110273	M4×65 5.3 Cross Recessed Pan Head Screws	59.4mm
A110274	M4×75 5.3 Cross Recessed Pan Head Screws	69.4mm
A110275	M4×85 5.3 Cross Recessed Pan Head Screws	79.4mm
A110276	M4×95 5.3 Cross Recessed Pan Head Screws	89.4mm

M Treatment

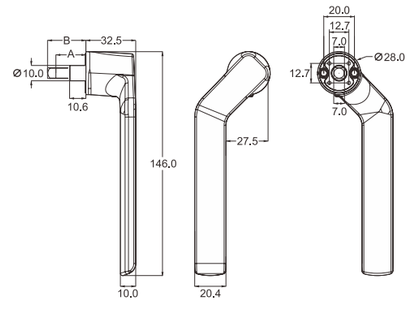


Silver 01 | Champagne 02 | Gold 11 | Bronze 12

Powder Coating

White 09 | Black 10 | Mat Black 17

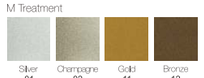
A010618-
P Series Milan Baseless Handle (Left) with 25 mm-Spindle



Screw Pack

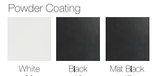
P/N	A	B
A110266	M4×20 5.3 Cross Recessed Pan Head Screws	19.4mm
A110267	M4×25 5.3 Cross Recessed Pan Head Screws	19.4mm
A110268	M4×30 5.3 Cross Recessed Pan Head Screws	24.4mm
A110269	M4×35 5.3 Cross Recessed Pan Head Screws	29.4mm
A110270	M4×45 5.3 Cross Recessed Pan Head Screws	39.4mm
A110271	M4×50 5.3 Cross Recessed Pan Head Screws	44.4mm
A110272	M4×55 5.3 Cross Recessed Pan Head Screws	49.4mm
A110273	M4×65 5.3 Cross Recessed Pan Head Screws	59.4mm
A110274	M4×75 5.3 Cross Recessed Pan Head Screws	69.4mm
A110275	M4×85 5.3 Cross Recessed Pan Head Screws	79.4mm
A110276	M4×95 5.3 Cross Recessed Pan Head Screws	89.4mm

M Treatment



Silver 01 | Champagne 02 | Gold 11 | Bronze 12

Powder Coating

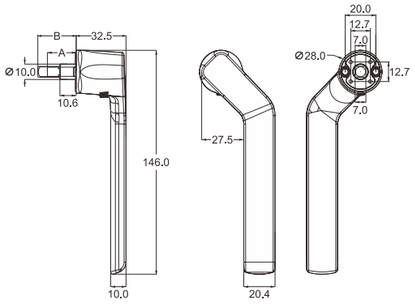


White 09 | Black 10 | Mat Black 17

HANDLE SELECTIONS

MILAN SERIES

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



M Treatment

Silver 01 | Champagne 02 | Gold 11 | Bronze 12

Powder Coating

White 09 | Black 10 | Mat Black 17

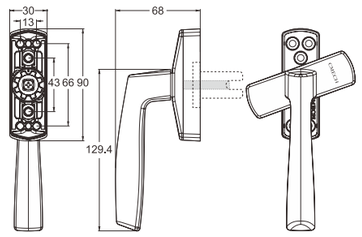
Screw Pack

P/N	A	B
A110266	M4×20 5.3 Cross Recessed Pan Head Screws	19.4mm
A110267	M4×25 5.3 Cross Recessed Pan Head Screws	19.4mm
A110268	M4×30 5.3 Cross Recessed Pan Head Screws	24.4mm
A110269	M4×35 5.3 Cross Recessed Pan Head Screws	29.4mm
A110270	M4×45 5.3 Cross Recessed Pan Head Screws	39.4mm
A110271	M4×50 5.3 Cross Recessed Pan Head Screws	44.4mm
A110272	M4×55 5.3 Cross Recessed Pan Head Screws	49.4mm
A110273	M4×65 5.3 Cross Recessed Pan Head Screws	59.4mm
A110274	M4×75 5.3 Cross Recessed Pan Head Screws	69.4mm
A110275	M4×85 5.3 Cross Recessed Pan Head Screws	79.4mm
A110276	M4×95 5.3 Cross Recessed Pan Head Screws	89.4mm

HANDLE SELECTIONS

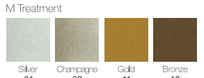
BERLIN SERIES

Spindle and Fork Drive Handle



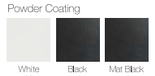
P/N	Material	Suitable for	Suitable for
A010447-	Zinc Alloy	Offset Fork Drive, Spindle Drive	Outswing Casement Windows Inswing Casement Windows Outswing Awning Windows Tilt & Turn Windows Gliding Doors
A010406-	Aluminum Alloy		
A010448-	Zinc Alloy	Central Fork Drive, Spindle Drive	
A010407-	Aluminum Alloy		

M Treatment



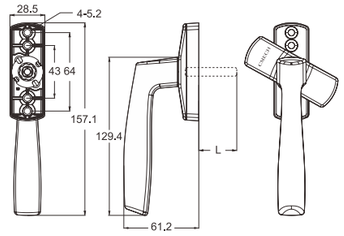
Silver 01 | Champagne 02 | Gold 11 | Bronze 12

Powder Coating



White 09 | Black 10 | Mat Black 17

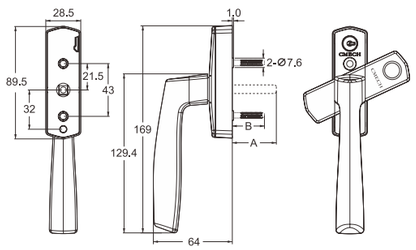
Spindle Drive Handle (Type W)



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

Note: Screw Pack J110001~J110019

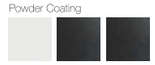
A010470-
Spindle Drive Handle Keyed
(Outswing Casement Windows, Inswing Casement Windows, Outswing Awning Windows, Hopper Windows, Tilt & Turn Windows)



M Treatment

Silver 01 | Champagne 02 | Gold 11 | Bronze 12

Powder Coating



White 09 | Black 10 | Mat Black 17

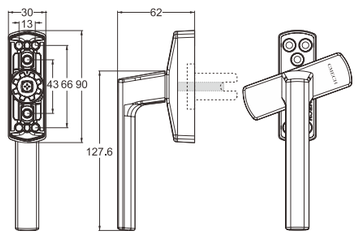
Spindle Screw Pack Selection List

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

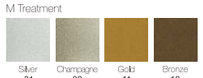
KOLN SERIES

Spindle and Fork Drive Handle



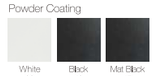
P/N	Material	Suitable for	Suitable for
A010213-	Zinc Alloy	Offset Fork Drive, Spindle Drive	Outswing Casement Windows Inswing Casement Windows Outswing Awning Windows Tilt & Turn Windows Gliding Doors
A010210-	Aluminum Alloy		
A010214-	Zinc Alloy	Central Fork Drive, Spindle Drive	
A010211-	Aluminum Alloy		

M Treatment



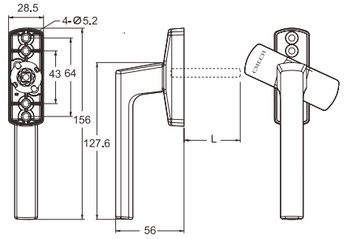
Silver 01 | Champagne 02 | Gold 11 | Bronze 12

Powder Coating



White 09 | Black 10 | Mat Black 17

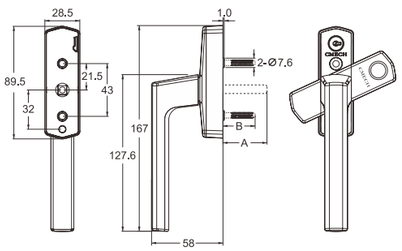
Spindle Drive Handle (Type W)



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

Note: Screw Pack J110001~J110019

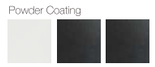
A010222-
Spindle Drive Handle Keyed
(Outswing Casement Windows, Inswing Casement Windows, Outswing Awning Windows, Hopper Windows, Tilt & Turn Windows)



M Treatment

Silver 01 | Champagne 02 | Gold 11 | Bronze 12

Powder Coating



White 09 | Black 10 | Mat Black 17

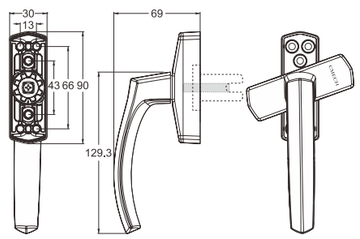
Spindle Screw Pack Selection List

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

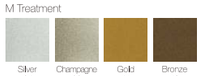
NEW YORK SERIES

Spindle and Fork Drive Handle



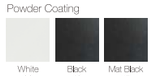
P/N	Material	Suitable for	Suitable for
A010124-	Zinc Alloy	Offset Fork Drive, Spindle Drive	Outswing Casement Windows Inswing Casement Windows Outswing Awning Windows Tilt & Turn Windows Gliding Doors
A010107-	Aluminum Alloy		
A010125-	Zinc Alloy	Central Fork Drive, Spindle Drive	
A010108-	Aluminum Alloy		

M Treatment



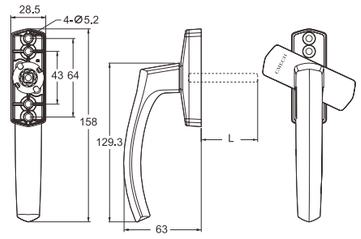
Silver 01 | Champagne 02 | Gold 11 | Bronze 12

Powder Coating



White 09 | Black 10 | Mat Black 17

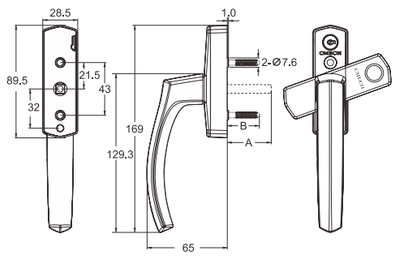
Spindle Drive Handle (Type W)



P/N	L	Material	Suitable for
J010201-	15	Zinc Alloy	Outswing Casement Windows Inswing Casement Windows Outswing Awning Windows Hopper Windows
J010202-	25		
J010203-	35		
J010204-	45		
J010205-	50		
J010206-	55		
J010207-	60		
J010208-	70		

Note: Screw Pack J110001~J110019

A010132-
Spindle Drive Handle Keyed
(Outswing Casement Windows, Inswing Casement Windows, Outswing Awning Windows, Hopper Windows, Tilt & Turn Windows)



M Treatment

Silver 01 | Champagne 02 | Gold 11 | Bronze 12

Powder Coating

White 09 | Black 10 | Mat Black 17

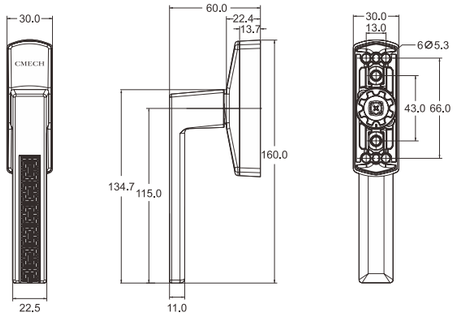
Spindle Screw Pack Selection List

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

CHINESE TRADITIONAL HUAYUN SERIES

Spindle and Fork Drive Handle



P/N	Material	Suitable for
A010003-	Aluminum Alloy	Outswing Casement Windows, Outswing Awning Windows, Inswing Casement Windows, Tilt & Turn Windows

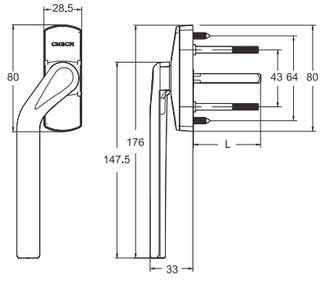
E Treatment

Antique Brass
14

HANDLE SELECTIONS

TURN HANDLE

Turn Handle (Left)



M Treatment

Silver 01 | Champagne 02 | Gold 11 | Bronze 12

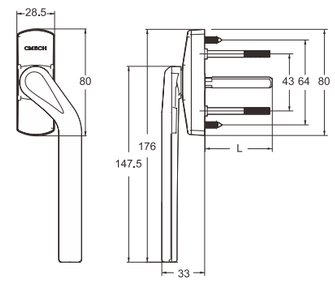
Powder Coating

White 09 | Black 10 | Mat Black 17

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

Note: Screw Pack J110001~J110019

Turn Handle (Right)



M Treatment

Silver 01 | Champagne 02 | Gold 11 | Bronze 12

Powder Coating

White 09 | Black 10 | Mat Black 17

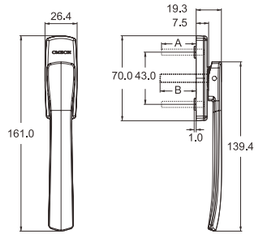
P/N	L	Material	Suitable for
A010419-	20	Zinc Alloy	Outswing Casement Windows Inswing Casement Windows Outswing Awning Windows
A010420-	30		
A010421-	40		
A010422-	50		
A010423-	55		
A010424-	60		
A010425-	65		
A010426-	75		
A010427-	90		
A010428-	105		
A010429-	120		
A010433-	135		

Note: Screw Pack J110001~J110019

HANDLE SELECTIONS

FLY SCREEN HANDLE
A010004

Suitable for: Outswing Casement Windows



Screw Pack

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

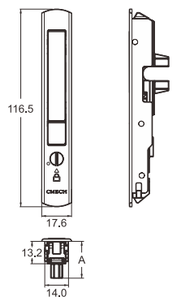
Silver 01 · Champagne 02 · Gold 11 · Bronze 12

Powder Coating

White 09 · Black 10 · Mat Black 17

ANTI-MISOPERATION RECESSED HANDLE

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



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

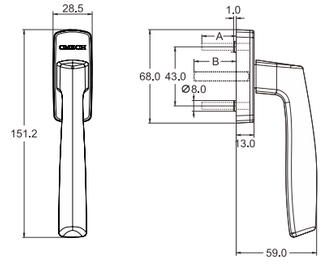
Powder Coating

Silver C11A · Champagne C11B · Gold C11C · Bronze C11D · White 09 · Black 10 · Mat Black 17

HANDLE SELECTIONS

S SERIES

A010460-
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

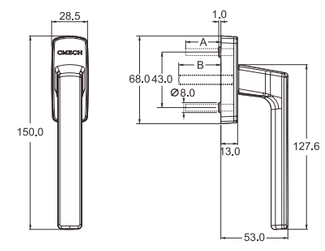
M Treatment

Silver 01 · Champagne 02 · Gold 11 · Bronze 12

Powder Coating

White 09 · Black 10 · Mat Black 17

A010219-
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

M Treatment

Silver 01 · Champagne 02 · Gold 11 · Bronze 12

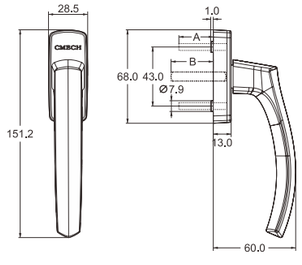
Powder Coating

White 09 · Black 10 · Mat Black 17

HANDLE SELECTIONS

S SERIES

A010129-
New York 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

M Treatment

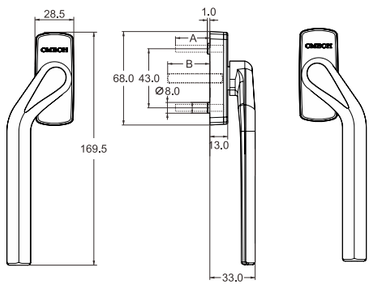
Silver 01 | Champagne 02 | Gold 11 | Bronze 12

Powder Coating

White 09 | Black 10 | Mat Black 17

A010461-
Turn Handle (Left)
(Outswing Casement Windows,
Inswing Casement Windows)

A010462-
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

M Treatment

Silver 01 | Champagne 02 | Gold 11 | Bronze 12

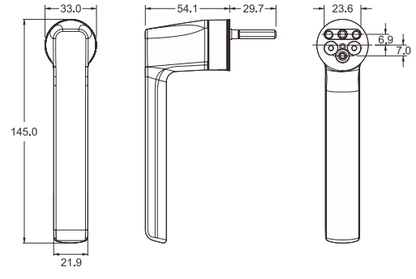
Powder Coating

White 09 | Black 10 | Mat Black 17

HANDLE SELECTIONS

MILAN SERIES

C010601-
Hexagon Spindle Drive Handle
(Tilt & Turn Windows)



Screw Pack

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

M Treatment

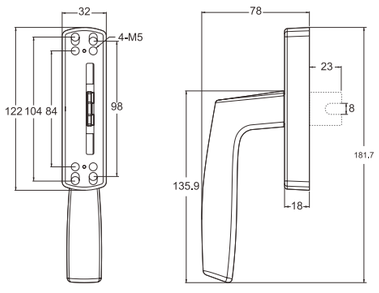
Silver 01 | Champagne 02 | Gold 11 | Bronze 12

Powder Coating

White 09 | Black 10 | Mat Black 17

MILAN SERIES

Fork Drive Handle (Type TT)



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

M Treatment

Silver 01 | Champagne 02 | Gold 11 | Bronze 12

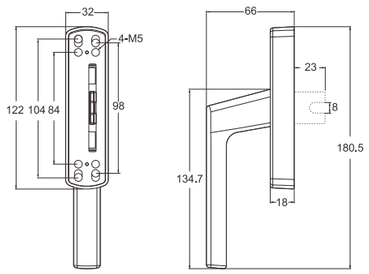
Powder Coating

White 09 | Black 10 | Mat Black 17

HANDLE SELECTIONS

KOLN SERIES

Fork Drive Handle (Type TT)

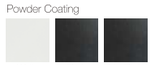


P/N	Material	Suitable for
C010201-	Zinc Alloy	Tilt & Turn Windows Inswing Casement Windows
C010202-	Aluminum Alloy	

M Treatment

Silver 01 | Champagne 02 | Gold 11 | Bronze 12

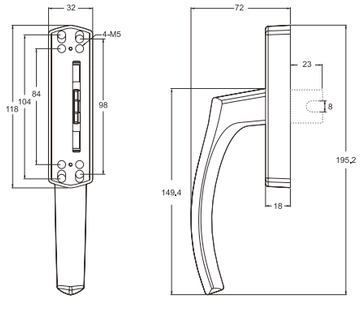
Powder Coating



White 09 | Black 10 | Mat Black 17

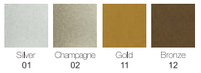
NEW YORK SERIES

Fork Drive Handle (Type TT)



P/N	Material	Suitable for
C010101-	Zinc Alloy	Tilt & Turn Windows Inswing Casement Windows
C010102-	Aluminum Alloy	

M Treatment



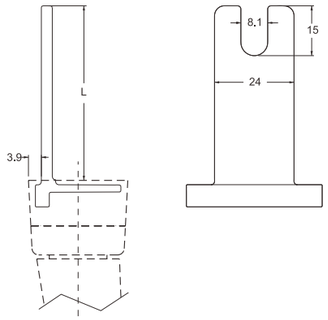
Silver 01 | Champagne 02 | Gold 11 | Bronze 12

Powder Coating

White 09 | Black 10 | Mat Black 17

FORK DRIVES

Offset Fork Drive Dimensions and Selections

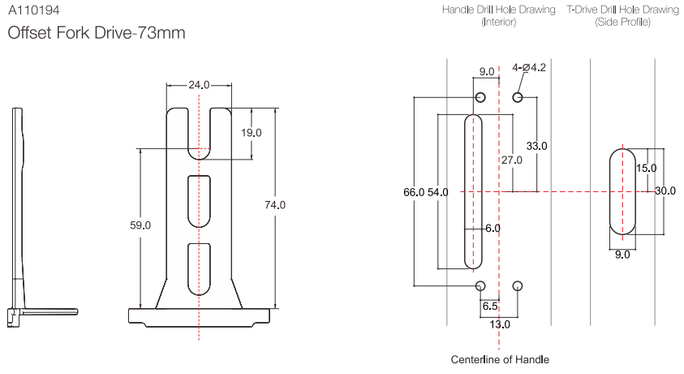


P/N	L	Specifications
A110097	21	21x3.9
A110098	27	27x3.9
A110099	31	31x3.9
A110100	33	33x3.9
A110101	41	41x3.9
A110102	45	45x3.9
A110103	37	37x3.9
A110104	49	49x3.9
A110105	53	53x3.9
A110106	63	63x3.9

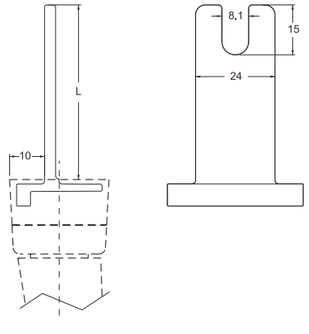
Note: The Offset Fork Drive must be specified with a Type W handle with an offset gasket (included with handle screw pack).

A110194

Offset Fork Drive-73mm



Central Fork Drive Dimensions and Selections

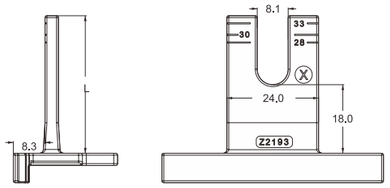


P/N	L	Specifications
A110107	21	21x10
A110108	27	27x10
A110109	31	31x10
A110110	33	33x10
A110111	41	41x10
A110112	45	45x10
A110113	37	37x10
A110114	49	49x10
A110115	53	53x10
A110116	63	63x10

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

FORK DRIVES

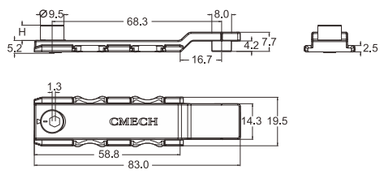
Offset Fork Drive Dimensions and Selections
Suitable for Tilt & Turn Window



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

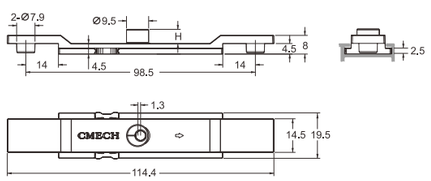
LOCK POINTS

End Lock Point

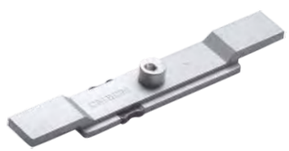


P/N	H
A090007	6.2 mm
A090008	7.2 mm

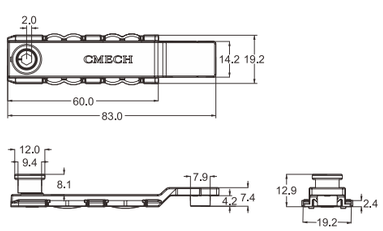
Central Lock Point



P/N	H
A090009	6.0 mm
A090010	7.0 mm

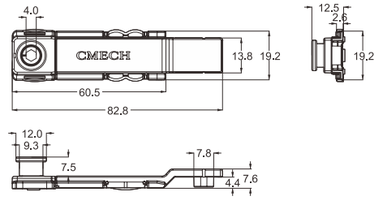


A090032
Pry-Resistant End Lock Point with Bearing

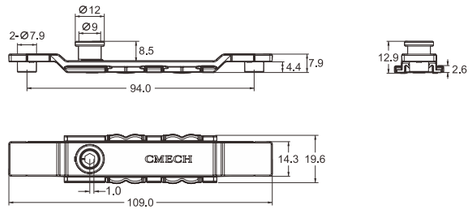


LOCK POINTS

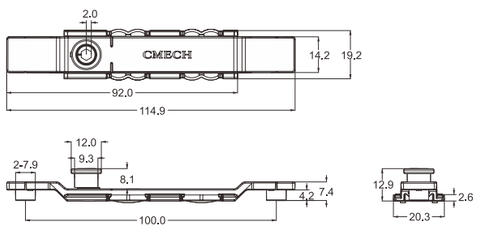
A090048
Pry-Resistant End Lock Point (L Series)



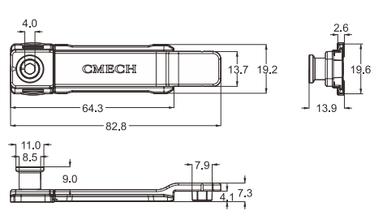
A090033
Pry-Resistant Central Lock Point with Bearing



A090034
Pry-Resistant Central Lock Point with Bearing

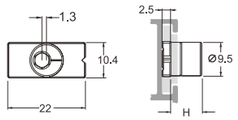


A090049
Pry-Resistant End Lock Point (S Series)



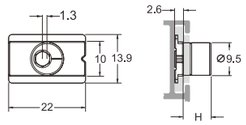
LOCK POINTS

Single-Stage Active Lock Point



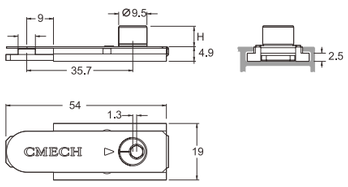
P/N	H
A090011	8.7 mm
A090012	9.7 mm

Dual-Stage Active Lock Point



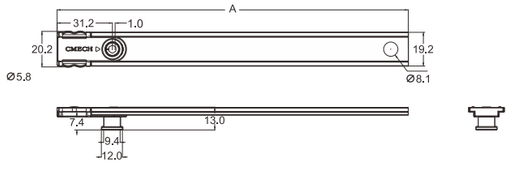
P/N	H
A090002	8.75 mm
A090003	8.1 mm

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

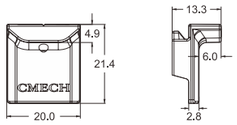
Unit: mm

Lock Point Selections

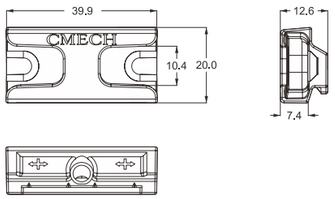
P/N	Description	Product	Suitable Sash Profile and Connecting Strip Combinations: Connecting Strip	Sash Profile	Connecting Strip	Sash Profile	Connecting Strip	Sash Profile	Connecting Strip	Sash Profile	Connecting Strip	Sash Profile
A090001	Lock Point (Ø9.5x6.0 mm)		×	×	×	×	×	×	×	×	×	×
A090005	Lock Point (Ø9.5x7.0 mm)		×	×	×	×	×	×	×	×	×	×
A090007	End Lock Point (Ø9.5x6.0 mm)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
A090008	End Lock Point (Ø9.5x7.0 mm)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
A090009	Central Lock Point (Ø9.5x6.0 mm)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
A090010	Central Lock Point (Ø9.5x7.0 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)		×	×	×	×	×	×	×	×	×	×
A090032	Pry-Resistant End Lock Point with Bearing		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
A090034	Pry-Resistant Central Point with Bearing		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
A090048	Pry-Resistant End Lock Point (L Series)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
A090049	Pry-Resistant End Lock Point (S Series)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
A090033	Pry-Resistant Central Point with Bearing		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

KEEPERS

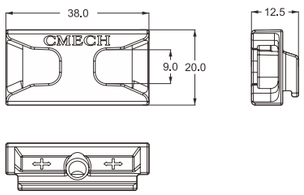
A100127
Keepers



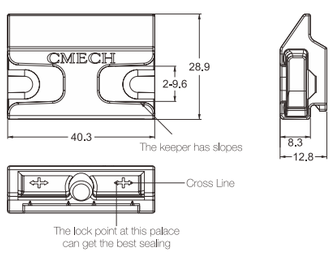
A100125
Pry-Resistant Keepers with Bearing (L Series)



A100126
Pry-Resistant Keepers with Bearing (S Series)

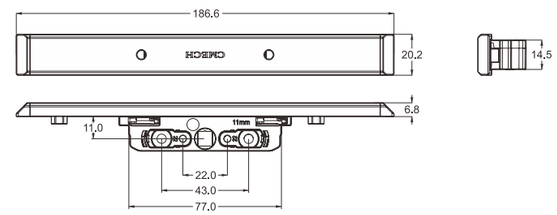


A100123
Pry-Resistant Keepers with Bearing (K-Groove)

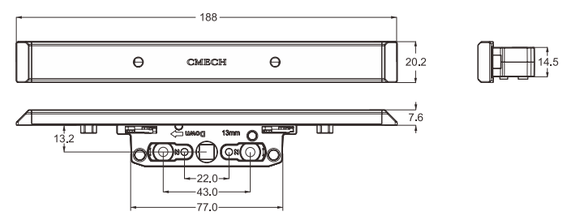


TRANSMISSION MACHANISM

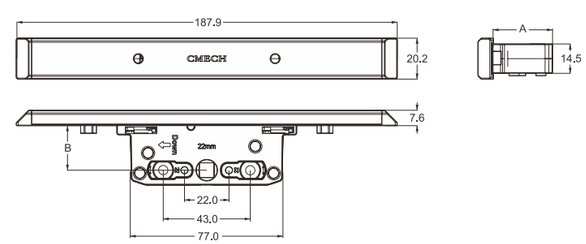
A020142
11mm Fly Screen Drive Gearbox (L Series)



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



Bi-Directional Spindle Drive Gearbox (L Series)

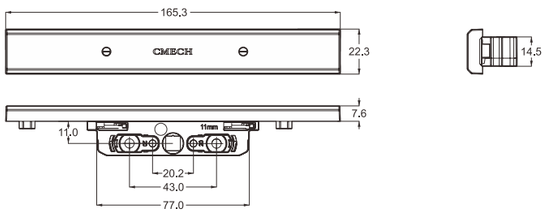


P/N	A	B
A020146	24.7 mm	22 mm
A020148	27.7 mm	25 mm
A020150	32.7 mm	30 mm
A020152	37.7 mm	35 mm

TRANSMISSION MACHANISM

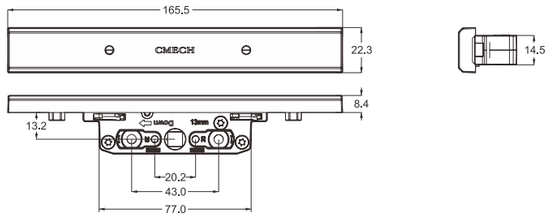
A020141

11mm Fly Screen Drive Gearbox (P Series)

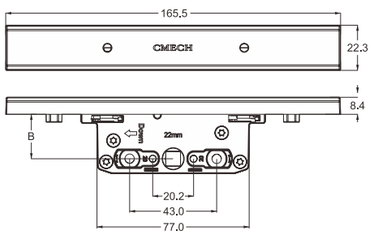


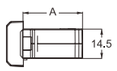
A020143

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



Bi-Directional Spindle Drive Gearbox (P Series)



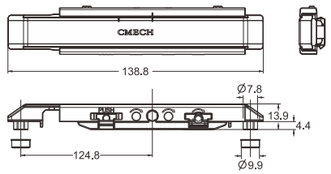


P/N	A	B
A020145	29.2 mm	22 mm
A020147	32.2 mm	25 mm
A020149	37.2 mm	30 mm
A020151	42.2 mm	35 mm

TRANSMISSION MACHANISM

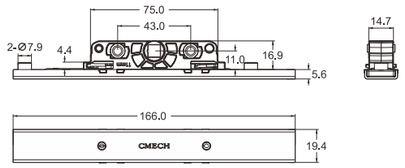
B020003

Hexagon Spindle Drive Gearbox



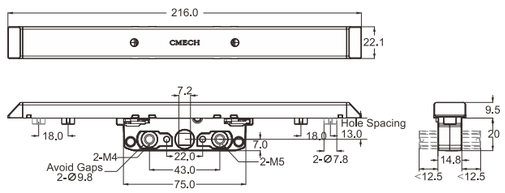
A020119

11mm Fly Screen Drive Gearbox

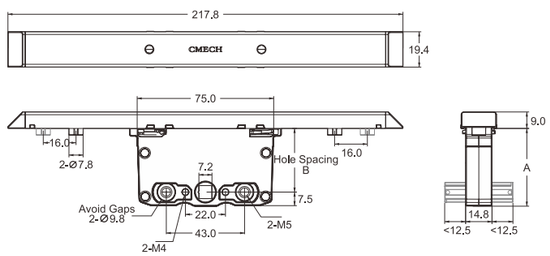


A020134

13 mm Bi-Directional Spindle Drive Gearbox



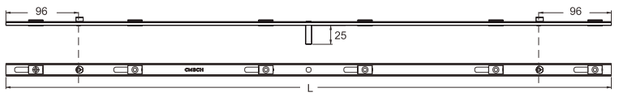
Bi-Directional Spindle Drive Gearbox



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

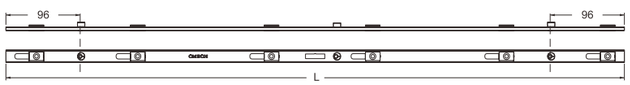
TRANSMISSION MACHANISM

Surface Mount Drive Gear



P/N	L
A020050	410 mm
A020051	600 mm
A020052	800 mm
A020053	1000 mm
A020061	1300 mm

Surface Mount Drive Gear

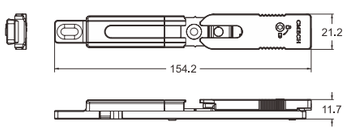


P/N	L
A020062	410 mm
A020063	600 mm
A020064	800 mm
A020065	1000 mm

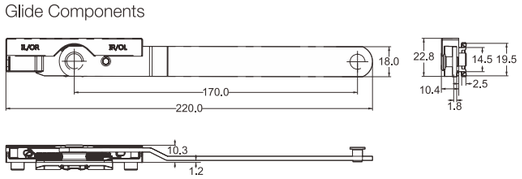
B040072

Ventilation Assist

Glide Components



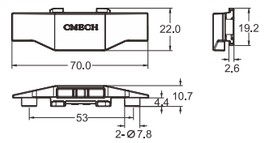
Glide Components



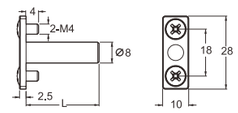
T-DRIVES AND ACCESSORIES

B020004

Fork Drive Connector



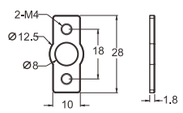
Standard T-Drive



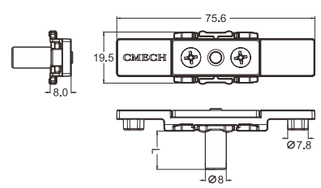
P/N	L
A020029	20 mm
A020030	24 mm
A020031	28 mm

A110120

Threaded Screw Plate



Reinforced T-Drive

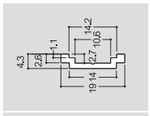
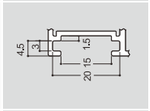
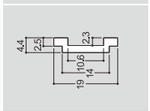
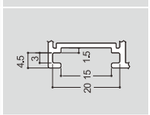
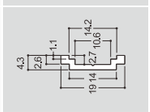
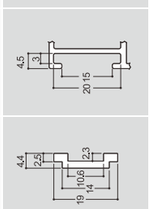


P/N	L
A020115	14.5 mm
A020116	18.5 mm
A020117	22.5 mm
A020126	26.5 mm
A020127	30.5 mm
A020128	34.5 mm
A020129	11.5 mm

T-DRIVE SELECTION TABLE

Unit: mm

T-Drive Selections

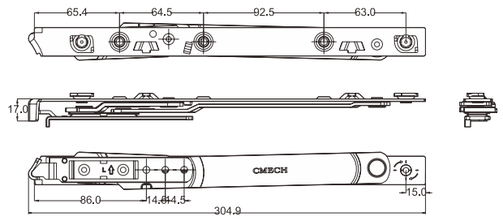
P/N	Description	Product	Suitable Sash Profile and Connecting Strip Combinations					
			Sash Profile	Connecting Strip	Sash Profile	Connecting Strip	Sash Profile	Connecting Strip
								
A020029 A020031	Standard T-Drive (Connected Directly to the Aluminum Connecting Strip)		✓	✓	✓	✓	✓	✓
A020029 A020031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

FRICTION HINGES

A040181

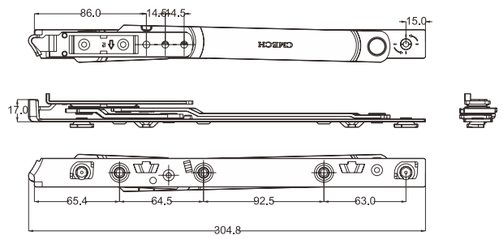
12" Free-Mill Friction Hinge Left (S Series)

Suitable for Sash Width: 350-600 mm



12" Free-Mill Friction Hinge Right (S Series)

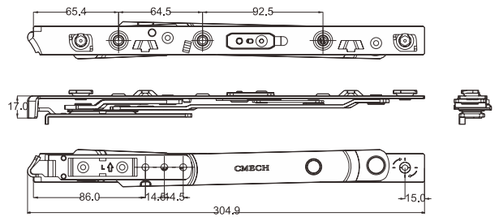
Suitable for Sash Width: 350-600 mm



A040182

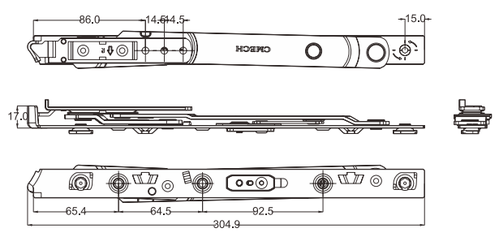
12" Free-Mill Friction Hinge Left (Adjustable) (S Series)

Suitable for Sash Width: 350-600 mm



12" Free-Mill Friction Hinge Right (Adjustable) (S Series)

Suitable for Sash Width: 350-600 mm

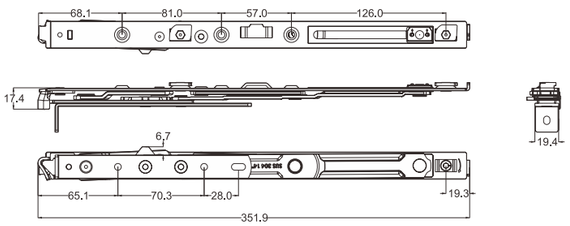


FRICTION HINGES

A040148

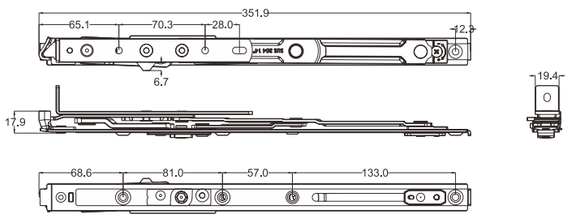
14" Upper Left Friction Hinge-C-Groove

Suitable for Sash Width: 400-750 mm



14" Bottom Left Friction Hinge-C-Groove

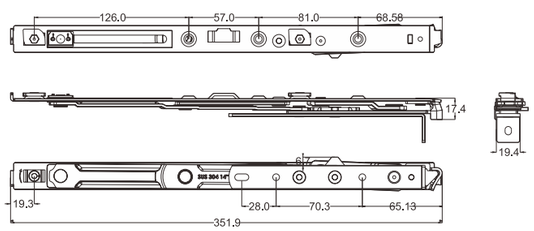
Suitable for Sash Width: 400-750 mm



A040149

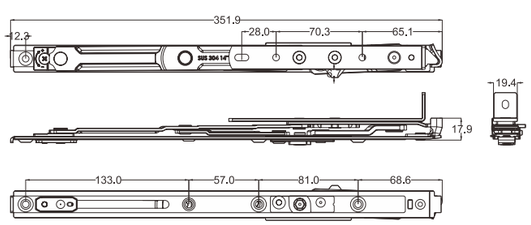
14" Upper Right Friction Hinge-C-Groove

Suitable for Sash Width: 400-750 mm



14" Bottom Right Friction Hinge-C-Groove

Suitable for Sash Width: 400-750 mm

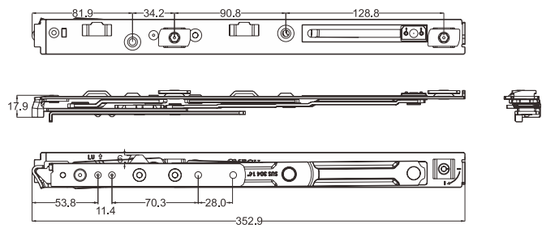


FRICTION HINGES

A040165

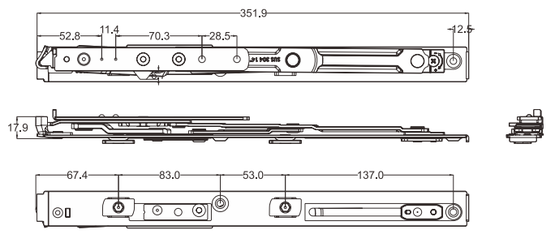
14" Upper Left Friction Hinge-K-Groove

Suitable for Sash Width: 400-750 mm



14" Bottom Left Friction Hinge-K-Groove

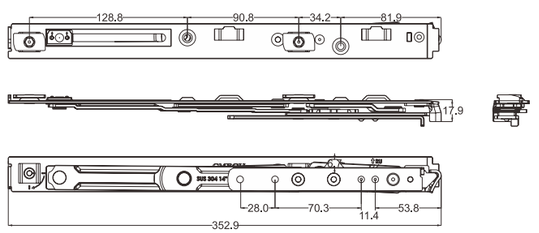
Suitable for Sash Width: 400-750 mm



A040166

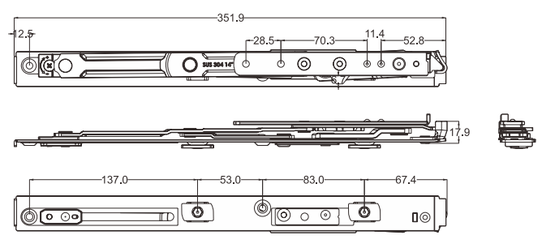
14" Upper Right Friction Hinge-K-Groove

Suitable for Sash Width: 400-750 mm



14" Bottom Right Friction Hinge-K-Groove

Suitable for Sash Width: 400-750 mm

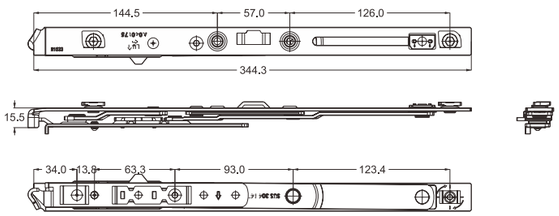


FRICTION HINGES

A040175

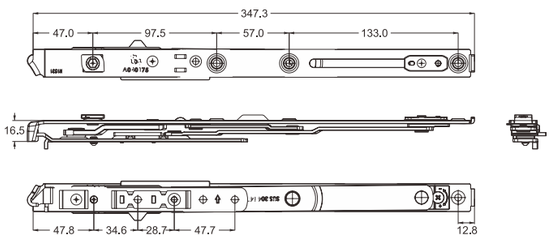
14" Free-Mill Friction Up Hinge Left (L Series) (C-Groove)

Suitable for Sash Width: 400-750 mm



14" Free-Mill Friction Lower Hinge Left (L Series) (C-Groove)

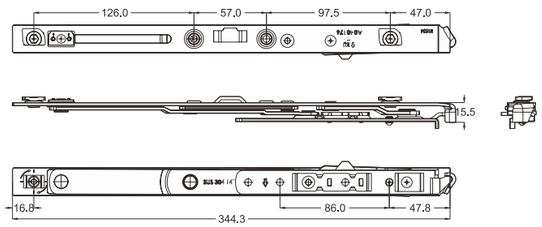
Suitable for Sash Width: 400-750 mm



A040176

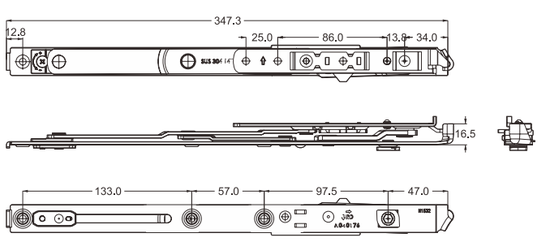
14" Free-Mill Friction Up Hinge Right (L Series) (C-Groove)

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

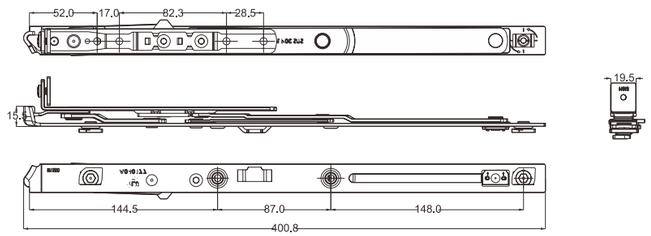


FRICTION HINGES

A040177

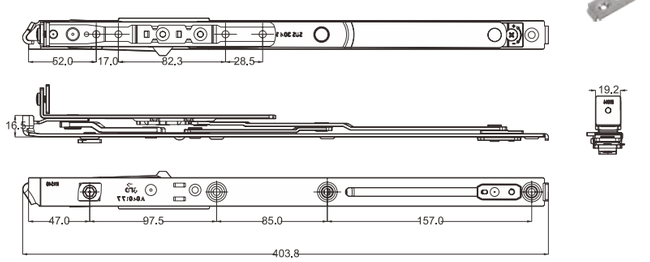
16" Free-Mill Friction Up Hinge Left

Suitable for Sash Width: 500-800 mm



16" Free-Mill Friction Lower Hinge Left

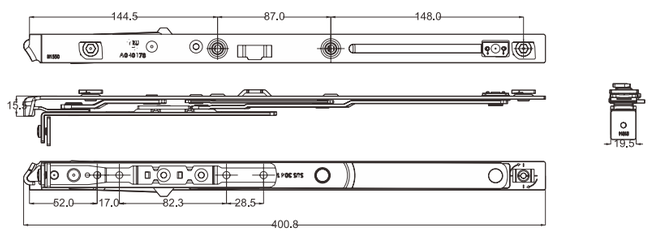
Suitable for Sash Width: 500-800 mm



A040178

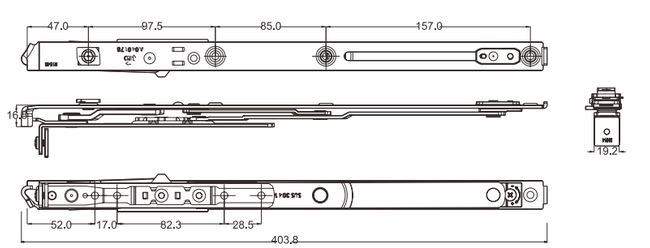
16" Free-Mill Friction Up Hinge Right

Suitable for Sash Width: 500-800 mm



16" Free-Mill Friction Lower Hinge Right

Suitable for Sash Width: 500-800 mm

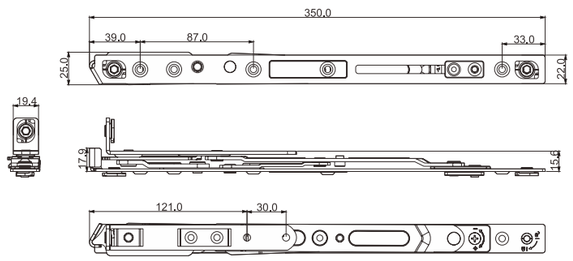


FRICTION HINGES

A040193

14" Free-Mill Friction Hinge (50 kg)

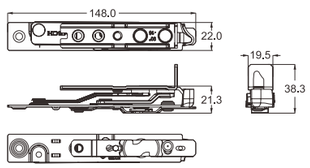
Suitable for Sash Width: 400-750 mm



B040076

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

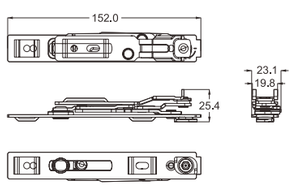
Suitable for Sash Width: 400-750 mm



B040079

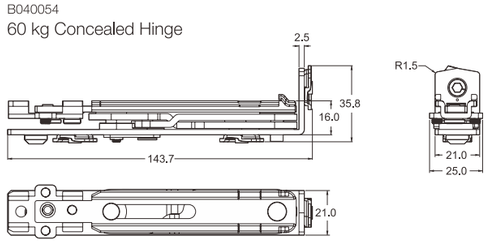
165° Fly Screen Friction Hinge(S Series) (C-Groove)

Suitable for Sash Width: 400-750 mm



B040054

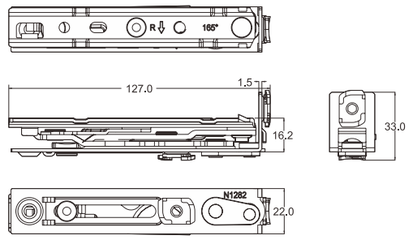
60 kg Concealed Hinge

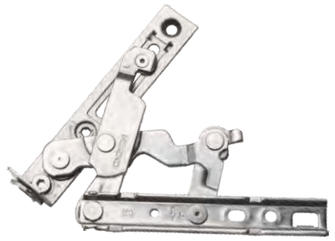


HINGES

B040037

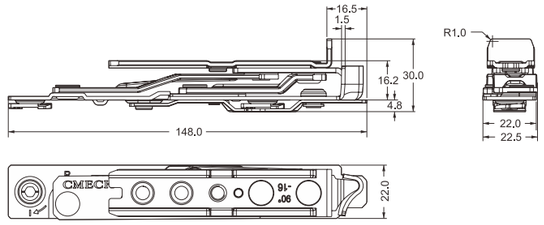
165° Fly Screen Friction Hinge





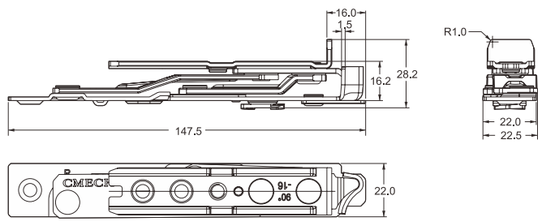
B040038

90° Fly Screen Friction Hinge (Inswing Casement Window)



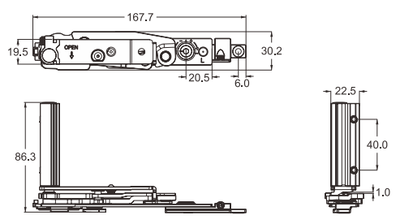
B040039

90° Fly Screen Friction Hinge (Not Adjustable)



B040073

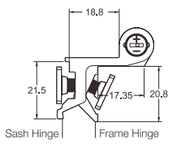
100 kg Hinge

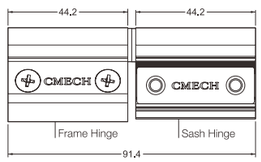


HINGES

B040036

45 kg Hinge





M Treatment

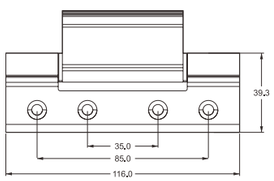
Silver	Champagne	Gold	Bronze
01	02	11	12

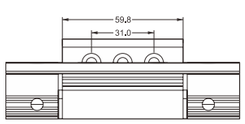
Powder Coating

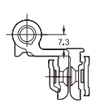
White	Black	Mat Black
09	10	17

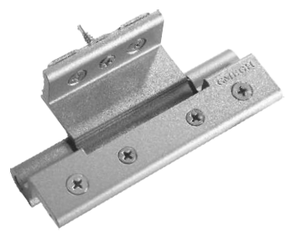
B040059

80 kg Hinge









M Treatment

Silver	Champagne	Gold	Bronze
01	02	11	12

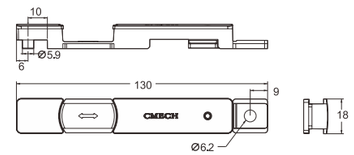
Powder Coating

White	Black	Mat Black
09	10	17

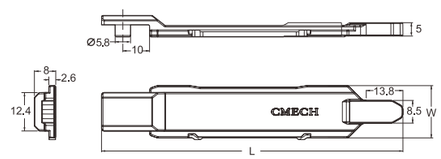
FRENCH CASEMENT WINDOW ACCESSORIES

A020055

Operating Lever



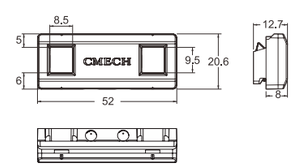
Shootbolt



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

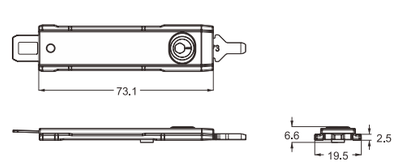
A100112

Shootbolt Bracket



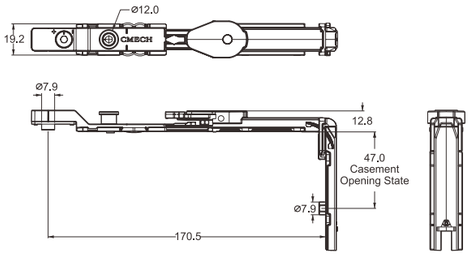
C070007

Shootbolt Pack

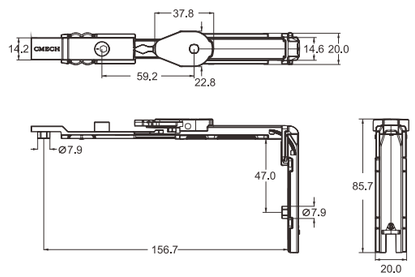


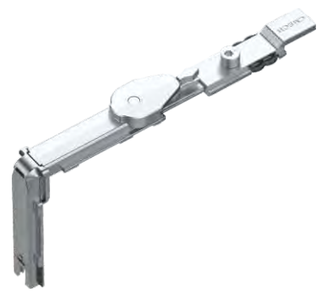
TILT & TURN WINDOW HARDWARE

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

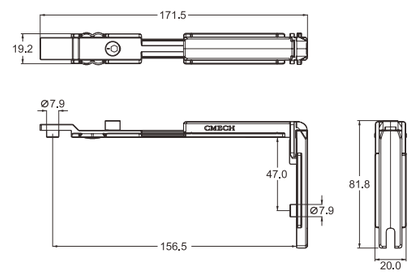


C060010
Fail-Safe Corner Drive

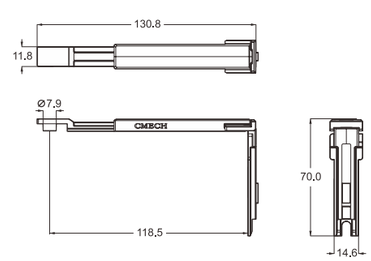




C060009
Corner Drive

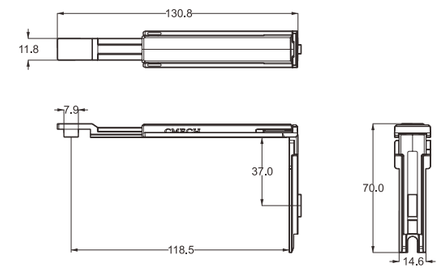


C060004
Small Corner Drive

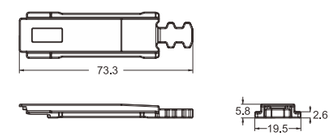


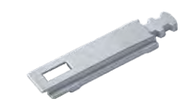
TILT & TURN WINDOW HARDWARE

C060013
Small Corner Drive

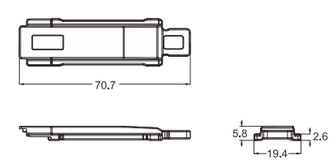


C060006
Corner Fitting Piece





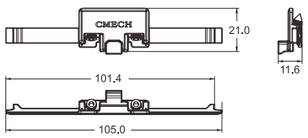
C060012
Small Corner Fitting Piece



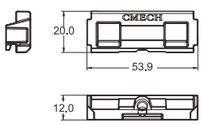
TILT & TURN WINDOW HARDWARE

C070003
Tilt Strike Pack

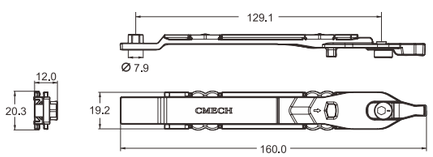
Tilt Striker



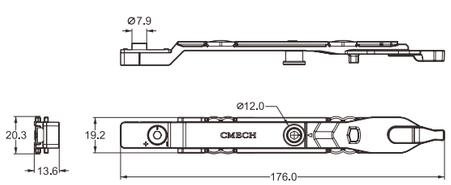
Run Up Block



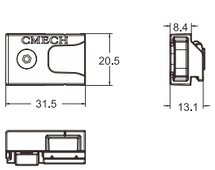
C070006
Tilt Bolt



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

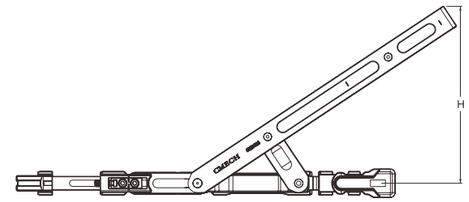


C100005
Pry-Resistant Keeper



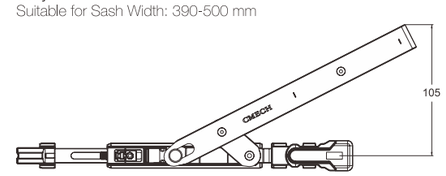
TILT & TURN WINDOW HARDWARE

Stay

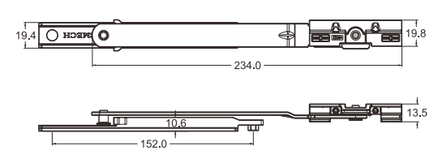


P/N	H	Instructions
C020008	147 mm	Sash Width: 450-750 mm
C020009	158 mm	Sash Width: 600-1,200 mm

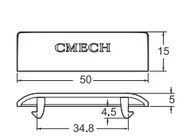
C020005
Stay
Suitable for Sash Width: 390-500 mm



C020019
Additional Limiting Stay

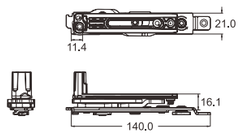


C120002
Drain Cover

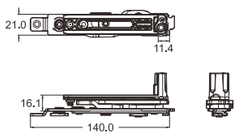


TILT & TURN WINDOW HARDWARE

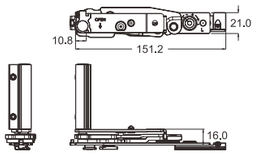
C040045
Concealed Lower Hinge Left (90 kg)



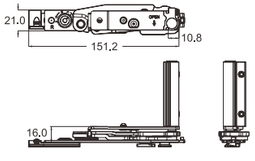
C040046
Concealed Lower Hinge Right (90 kg)



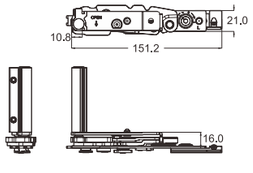
C040037
Concealed Lower Hinge Left (100 kg)



C040038
Concealed Lower Hinge Right (130 kg)

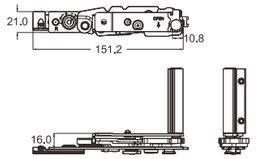


C040035
Concealed Lower Hinge Left (130 kg)

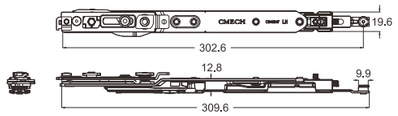


TILT & TURN WINDOW HARDWARE

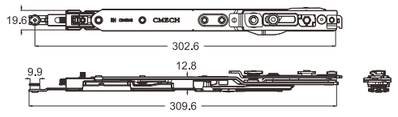
C040036
Concealed Lower Hinge Right (130 kg)



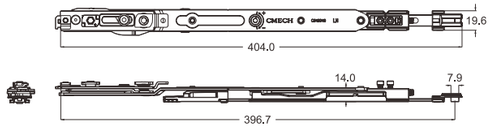
C040047
400 Upper Hinge Left (80 kg)



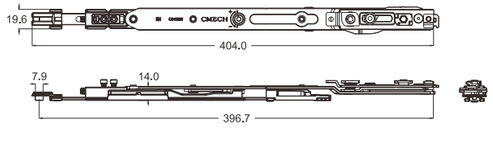
C040048
400 Upper Hinge Right (80 kg)



C040049
490 Upper Hinge Left (90 kg)

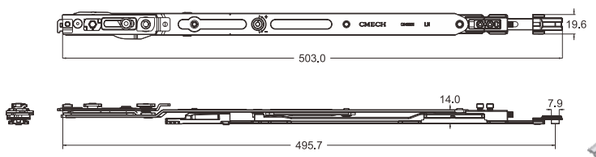


C040050
490 Upper Hinge Right (90 kg)

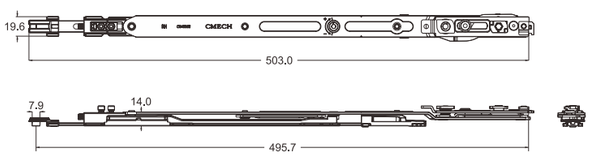


TILT & TURN WINDOW HARDWARE

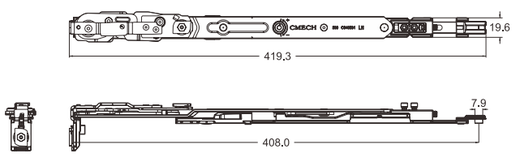
C040051
650 Upper Hinge Left (90 kg)



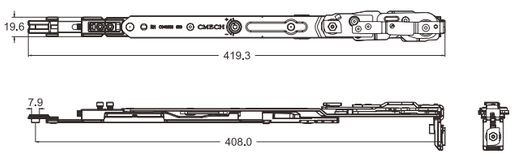
C040052
650 Upper Hinge Right (90 kg)



C040031
500 Upper Hinge Left (130 kg)

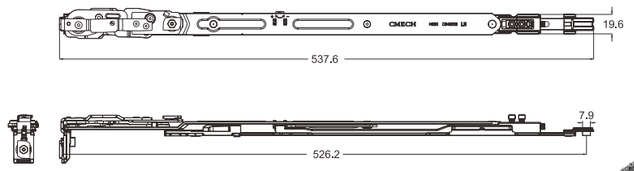


C040032
500 Upper Hinge Right (130 kg)

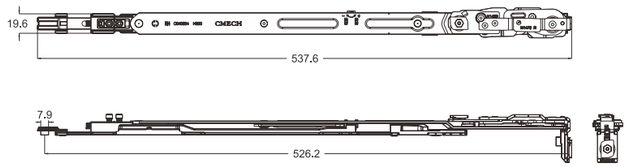


TILT & TURN WINDOW HARDWARE

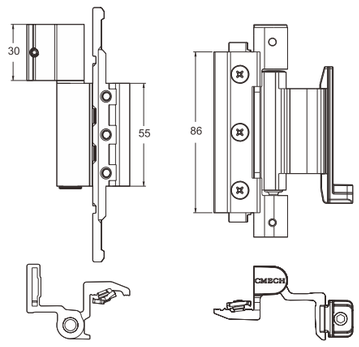
C040033
650 Upper Hinge Left (130 kg)



C040034
650 Upper Hinge Right (130 kg)



C040005
Upper and Lower Hinges



M Treatment

Silver	Champagne	Gold	Bronze
01	02	11	12

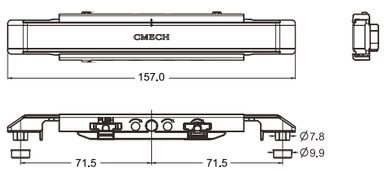
Powder Coating

White	Black	Mat Black
09	10	17

TILT & TURN WINDOW HARDWARE

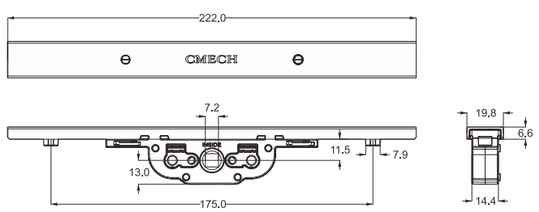
C020016

Hexagon Spindle Drive Gearbox



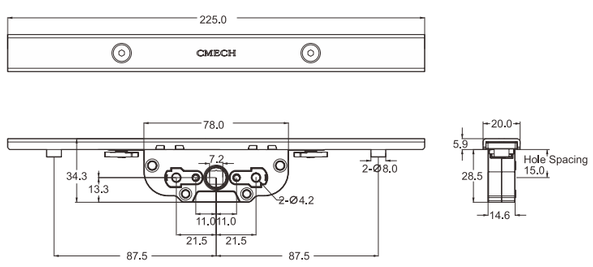
C020020

11.5 mm Spindle Drive Gearbox



C020017

15 mm Spindle Drive Gearbox

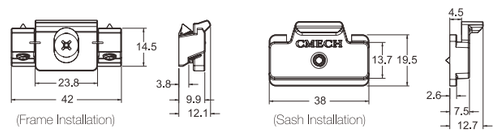


OTHER ACCESSORIES

A100121

Hidden Lock

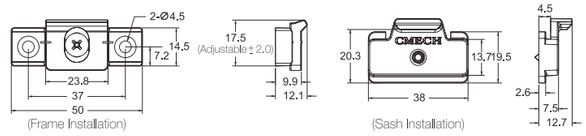
Suitable for Double-Sided C-Groove



A100104

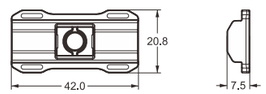
Hidden Lock

Suitable for Single-Sided C-Groove



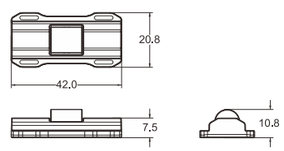
A080012

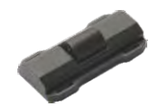
Sash Support Block



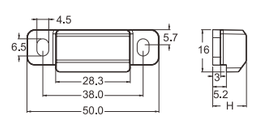
A080011

Sash Support Block (With Bearing)





Frame Support Block

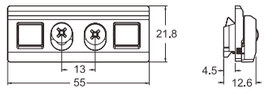


P/N	H
A080003	12.8
A080004	8.3

OTHER ACCESSORIES

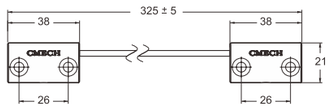
A120005

Frame Support Block with Guide Wheels



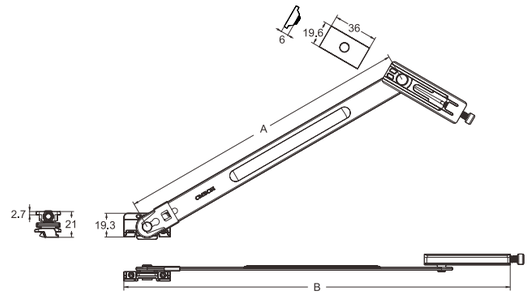
A120003

Safety Catch System Hardware



LIMITING STAYS

Limiting Stay

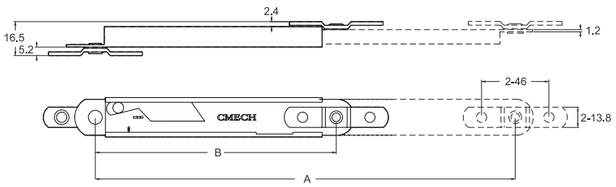


Specifications

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

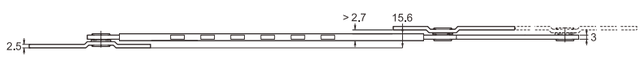
LIMITING STAYS

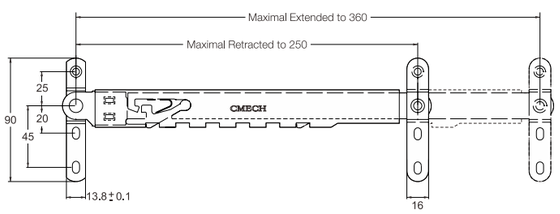
Limiting Stay



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



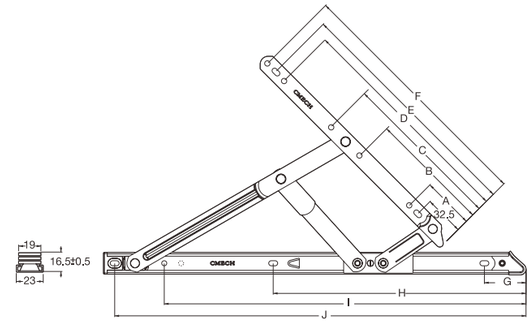


P/N	Directions	Size/in.
H040086	Left & Right	14

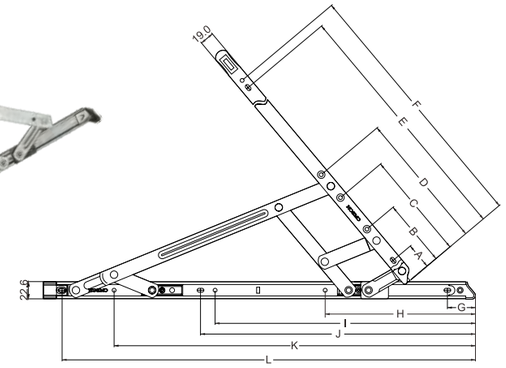
FRICTION HINGES

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	650	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
A040181	Left & Right	12	4	1,800	400	45	86	-
A040182	Left & Right	12	4	1,800	400	45	86	-

Installation Sizes

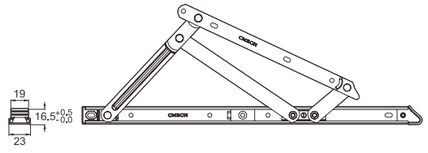
P/N	Direction	Size (in.)	Stack Height (mm)	A	Specifications (mm)										
					B	C	D	E	F	G	H	I	J	K	L
A040131	Left & Right	10	16.5	46	66.5	106.5	-	198	210.5	35.5	213.5	-	255.5	-	-
A040132	Left & Right	12	16.5	46	66.5	126.5	-	223	235	35.5	226.5	252.5	304.5	-	-
A040133	Left & Right	14	16.5	46	97.5	147.5	-	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

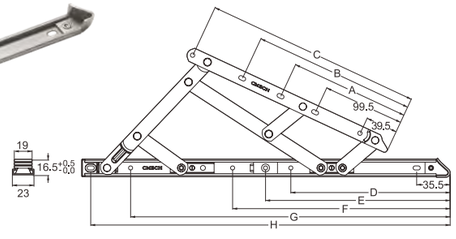
FRICTION HINGES

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	H
H040057	Left & Right	12	16.5	-	132.5	174.5	167	188	225	259	301.5
H040058	Left & Right	14	16.5	-	158.5	200.5	182	206	247.5	303.5	348.5
H040059	Left & Right	16	16.5	-	200.5	242.5	174.5	207.5	249	365.5	409.5
H040060	Left & Right	18	16.5	-	226.5	268.5	181.5	214.5	256	410.5	454.5
H040061	Left & Right	20	16.5	-	259.5	301.5	163	193	234.5	463.5	508.5
H040062	Left & Right	22	16.5	-	290.5	332.5	166	196.5	238	509.5	554.5
H040063	Left & Right	24	16.5	-	322.5	364.5	170.5	199.5	406	553.5	598.5
H040064	Left & Right	26	16.5	232.5	365.5	407.5	175.5	205.5	455	602.5	654.5
H040065	Left & Right	28	16.5	247.5	396.5	438.5	178.5	210.5	504	651.5	703.5

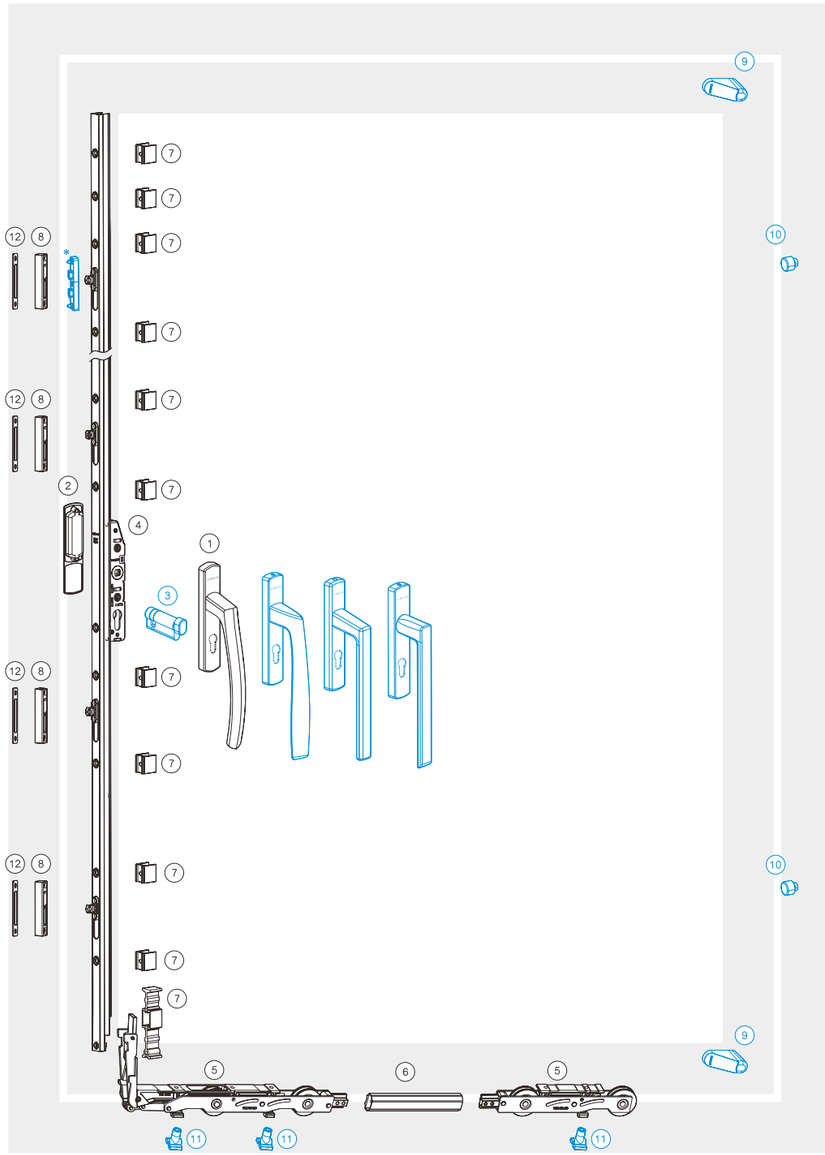
Lift & Slide Door Hardware

- 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

LIFT & SLIDE DOOR HARDWARE SERIES

Spindle Drive Handle (Type LS) Configuration (300 kg)



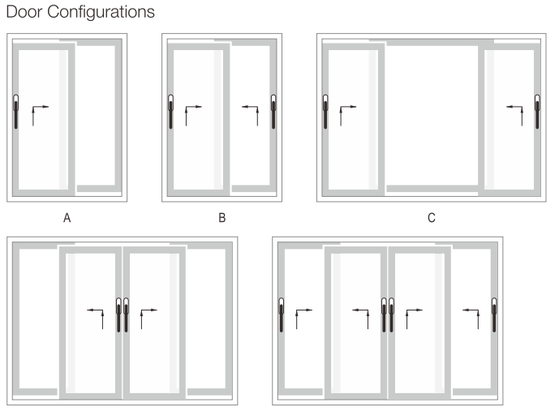
∗ Installation tool used to mark strike hole position F120003

LIFT & SLIDE DOOR HARDWARE SERIES

Configuration Table - Spindle Drive Handle (Type LS) (300 kg)

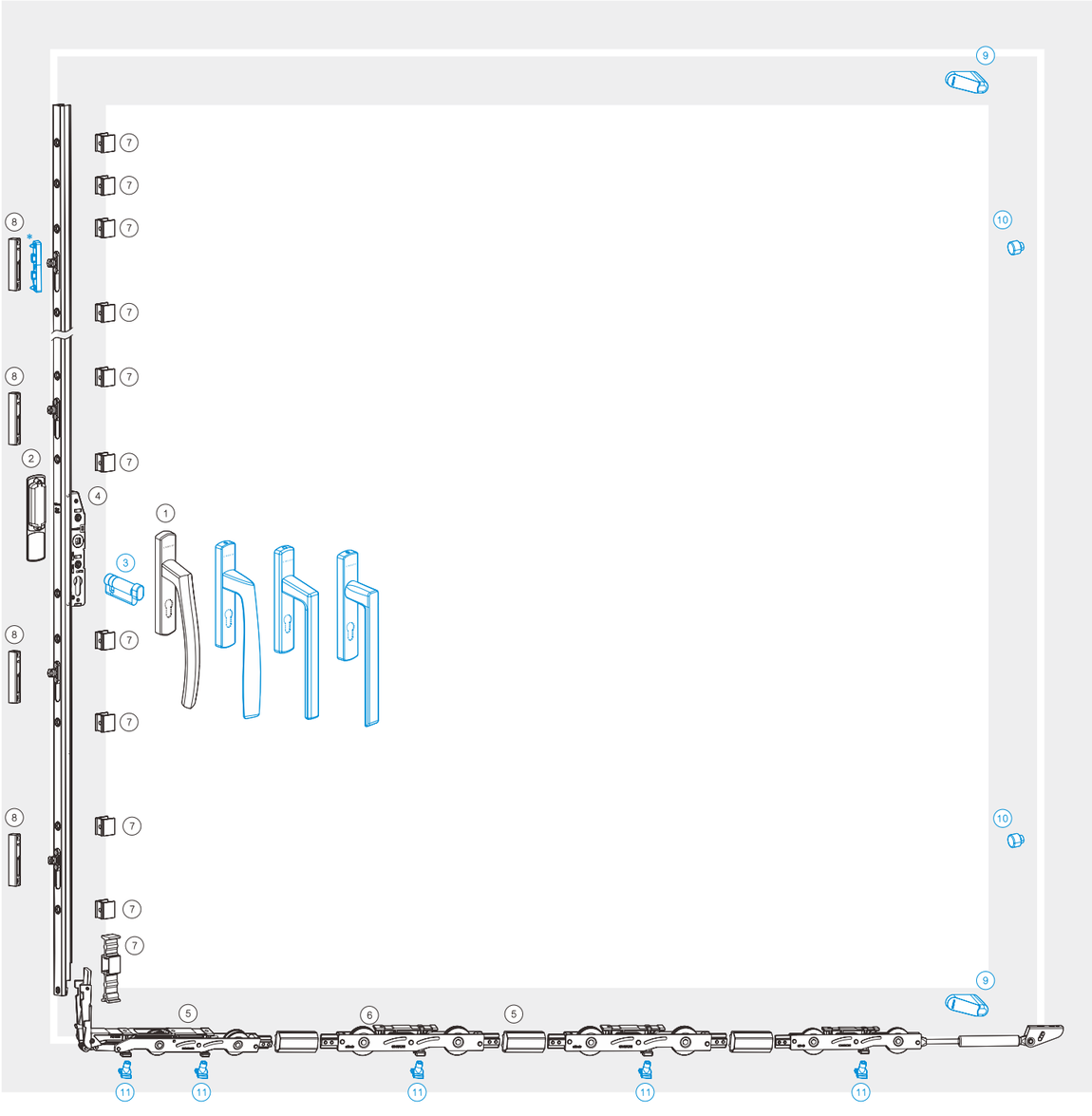
No.	Description	P/N	Qty					Notes
			A	B	C	D	E	
1	Spindle Drive Handle (Type LS)	F800001 F800002 F800004 F800022 F800023 F800025 F800031	1	2	2	2	4	Multiple Types Available
2	Recessed Handle	F010601 F010602	1	2	2	2	4	V Series U Series
3	Cylinder		1	2	2	1	3	
4	Espagnolette with Tilt Lock Point	F020008 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
5	Front and Rear Rollers	F800016	1	2	2	2	4	Channel Width 22 mm
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
7	Spacer Pack	F140009 F140003	1	2	2	2	4	Plastic Spacer Height 12 mm Plastic Spacer Height 17 mm
8	Locking Keeper	F100006 F100007 F100008 F100010 F100011 F100012 F100013 F100015	4	8	8	4	12	
9	Panel Stop	F080001	0	1	0	0	2	Installation Height: 42 mm
10	Rubber Stop	F080002	1	0	1	2	0	Hole Size Ø13 mm (2 Pack)
11	Keeper Spacer	F110008	1	2	2	2	4	
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)



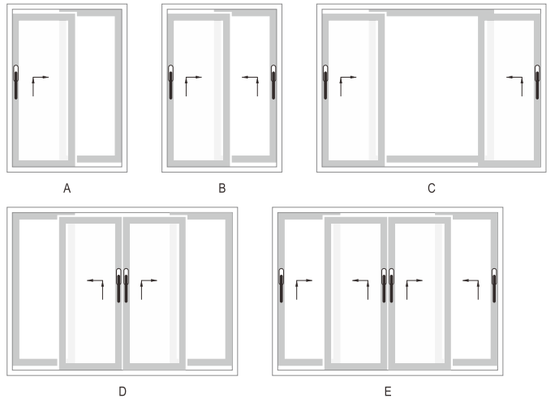
∗ Installation tool used to mark strike hole position F120003

LIFT & SLIDE DOOR HARDWARE SERIES

Configuration Table - Spindle Drive Handle (Type LS) (450 kg)

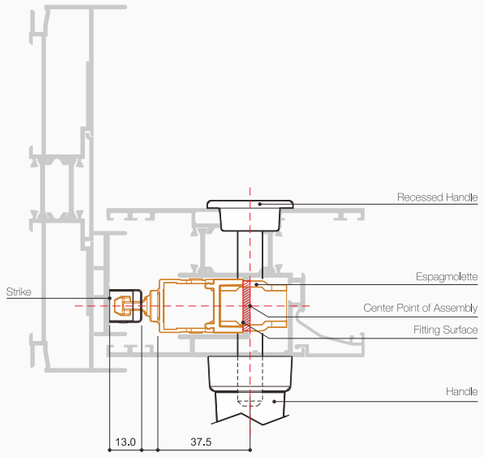
No.	Description	P/N	Qty A	Qty B	Qty C	Qty D	Qty E	Notes	
1	Spindle Drive Handle (Type LS)	F800001 F800002 F800004 F800022 F800023 F800025 F800031	1	2	2	2	4	Multiple Types Available	
2	Recessed Handle	F010601 F010602	1	2	2	2	4	V Series U Series	
3	Cylinder		1	2	2	1	3		
4	Espagnolette with Tilt Lock Point	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	
5	Front and Rear Rollers	F050004	1	2	2	2	4	Channel Width 22 mm	
6	Auxilary Rollers	F500003	1	2	2	2	4	One Additional Roller for Sash Width 1200 mm, Two Additional Roller for Sash Width 1200 mm	P121
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	P121
8	Spacer Pack	F140009 F140003	1	2	2	2	4	Plastic Spacer Height 12 mm Plastic Spacer Height 17 mm	P122
9	Locking Keeper	F100006 F100007 F100008 F100010 F100011 F100012 F100013 F100015	4	8	8	4	12		P123
10	Panel Stop	F080001	0	1	0	0	2	Installation Height: 42 mm	P122
11	Rubber Stop	F080002	1	0	1	2	0	Hole Size Ø13 mm (2 Pack)	P124
12	Keeper Spacer	F110008	1	2	2	2	4		P124
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	

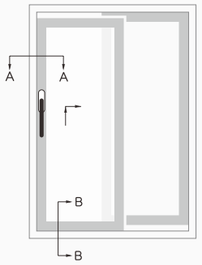
Door Configurations



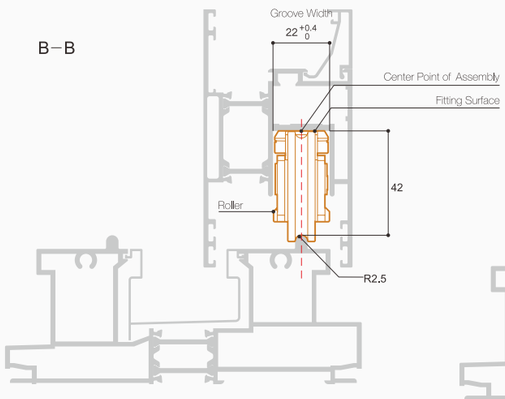
LIFT & SLIDE DOOR PROFILE REQUIREMENTS

A–A

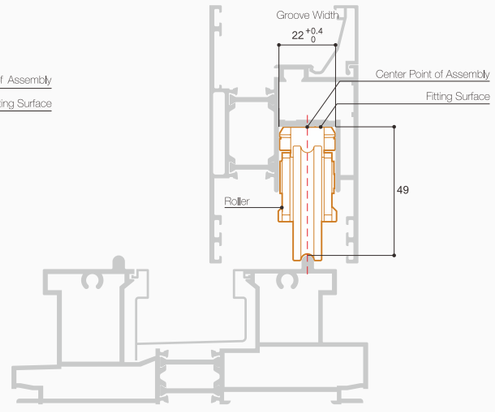




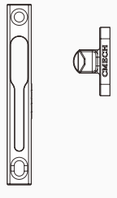
B–B



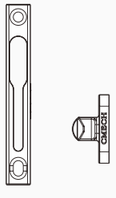
Locked Roller Carriage



Raised Roller Carriage

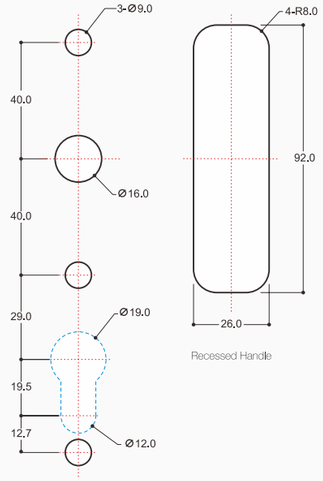


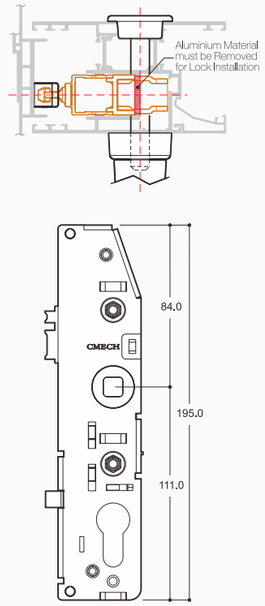
Lift Position of The Lock Point and Keeper

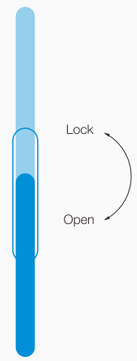


Close Position of The Lock Point and Keeper

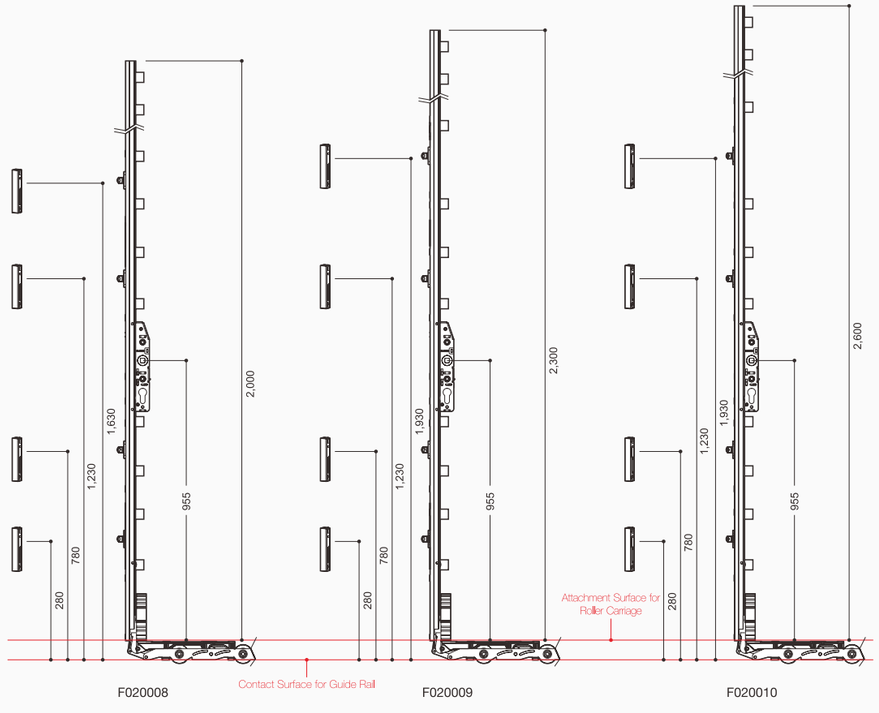
LIFT & SLIDE DOOR DRILLING INSTRUCTIONS







Handle Operation



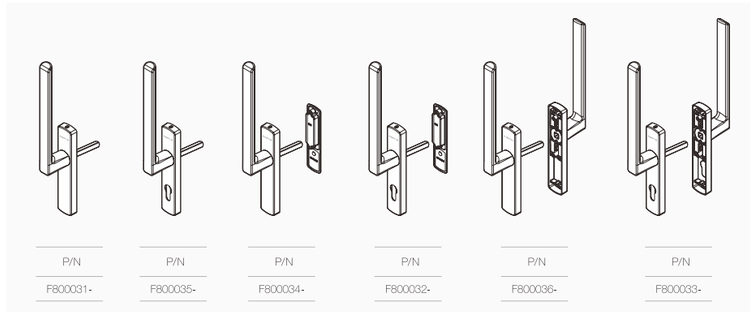
SCREW PACK SELECTIONS

Spindle Screw Pack			
P/N	Description	Specifications	Qty
F110023	10×10×50 Spindle Screw Pack	50	1
F110024	10×10×55 Spindle Screw Pack	55	1
F110025	10×10×60 Spindle Screw Pack	60	1
F110026	10×10×65 Spindle Screw Pack	65	1
F110027	10×10×70 Spindle Screw Pack	70	1
F110028	10×10×75 Spindle Screw Pack	75	1
F110029	10×10×80 Spindle Screw Pack	80	1
F110030	10×10×85 Spindle Screw Pack	85	1
F110031	10×10×90 Spindle Screw Pack	90	1
F110032	10×10×95 Spindle Screw Pack	95	1
F110033	10×10×100 Spindle Screw Pack	100	1
F110034	10×10×105 Spindle Screw Pack	105	1
F110035	10×10×115 Spindle Screw Pack	115	1
F110047	10×10×120 Spindle Screw Pack	120	1

Handle Screw Pack			
P/N	Description	Specifications	Qty
F110036	M5×40 Cross Screws	40	2
F110037	M5×50 Cross Screws	50	2
F110038	M5×55 Cross Screws	55	2
F110039	M5×60 Cross Screws	60	2
F110040	M5×65 Cross Screws	65	2
F110041	M5×70 Cross Screws	70	2
F110042	M5×75 Cross Screws	75	2
F110043	M5×80 Cross Screws	80	2
F110044	M5×85 Cross Screws	85	2
F110045	M5×90 Cross Screws	90	2
F110046	M5×95 Cross Screws	95	2

HANDLE SELECTIONS

MILAN SERIES
Spindle Drive Handle (Type LS)

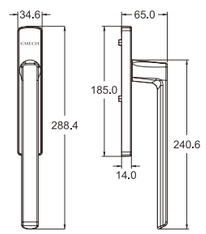


M Treatment

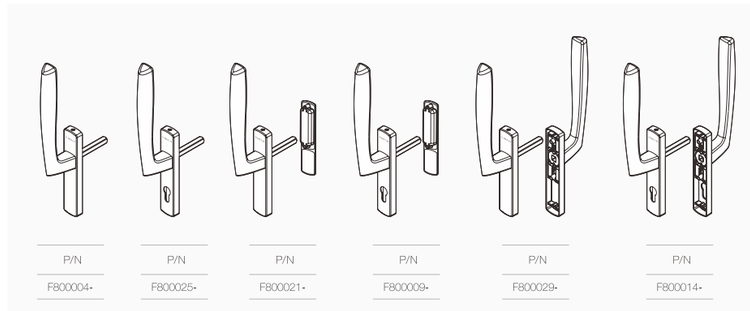
Silver 01 · Champagne 02 · Gold 11 · Bronze 12

Powder Coating

White 09 · Black 10 · Mat Black 17



BERLIN SERIES
Spindle Drive Handle (Type LS)

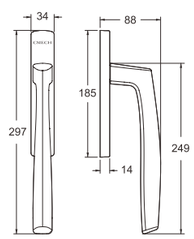


M Treatment

Silver 01 · Champagne 02 · Gold 11 · Bronze 12

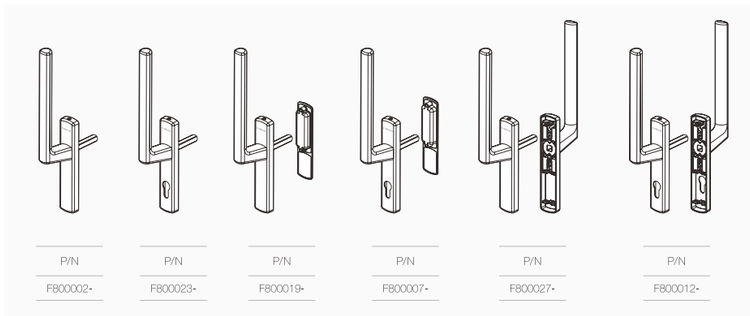
Powder Coating

White 09 · Black 10 · Mat Black 17



HANDLE SELECTIONS

KOLN SERIES
Spindle Drive Handle (Type LS)

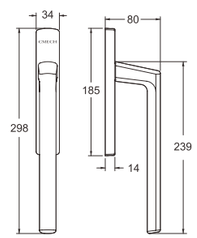


M Treatment

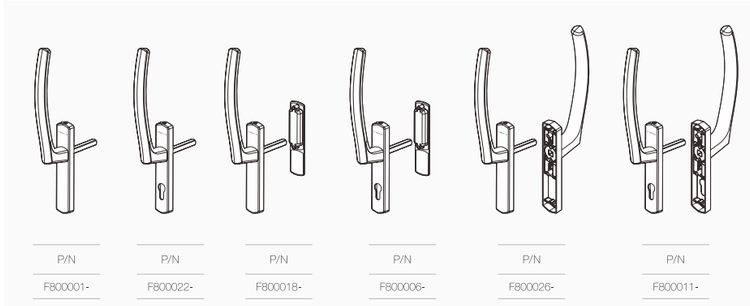
Silver	Champagne	Gold	Bronze
01	02	11	12

Powder Coating

White	Black	Mat Black
09	10	17



NEW YORK SERIES
Spindle Drive Handle (Type LS)

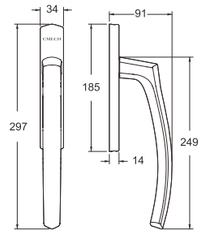


M Treatment

Silver	Champagne	Gold	Bronze
01	02	11	12

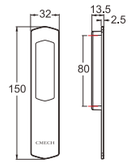
Powder Coating

White	Black	Mat Black
09	10	17



LIFT & SLIDE DOOR HARDWARE

F010601
Recessed Handle (V Series)



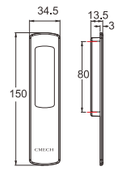
M Treatment

Silver	Champagne	Gold	Bronze
01	02	11	12

Powder Coating

White	Black	Mat Black
09	10	17

F010602
Recessed Handle (U Series)



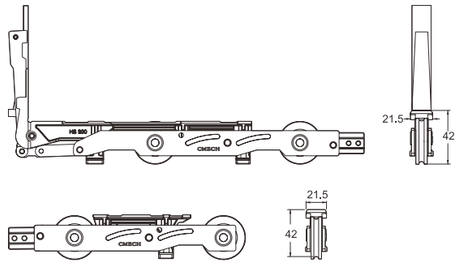
M Treatment

Silver	Champagne	Gold	Bronze
01	02	11	12

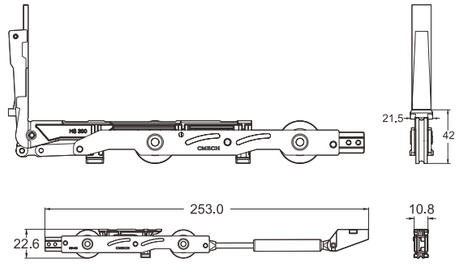
Powder Coating

White	Black	Mat Black
09	10	17

F800016
Front and Rear Rollers

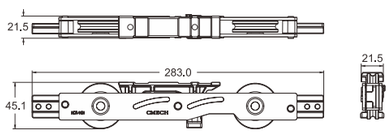


F050004
Front and Rear Rollers

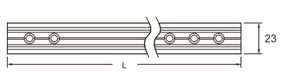


LIFT & SLIDE DOOR HARDWARE

F050003
Auxiliary Roller

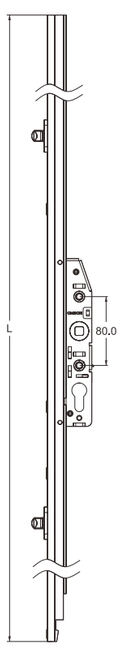


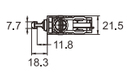
Connecting Rod



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

Espagnolette with Tilt Lock Point

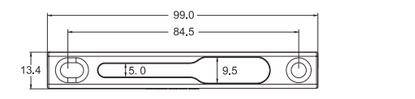




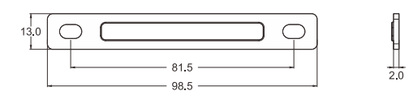
P/N	Door Panel Height Range	Espagnolette Length Spec (L)
F020008	1,800-2,100 mm	2,000 mm
F020009 F020016 F020019	2,101-2,400 mm	2,300 mm
F020010 F020017 F020020	2,401-2,700 mm	2,600 mm

LIFT & SLIDE DOOR HARDWARE

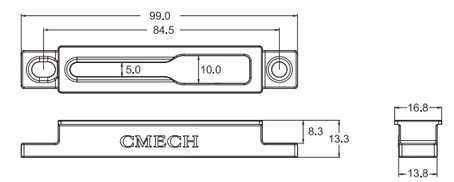
F100006
13 Keeper



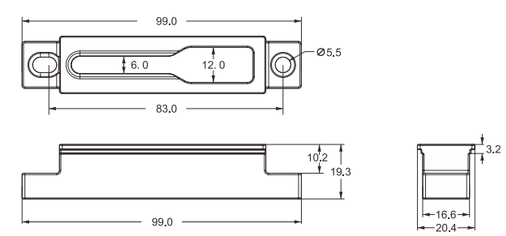
F140010
Spacer Pack



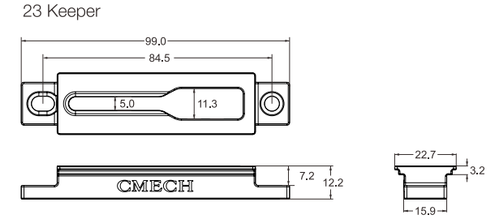
F100007
17 Keeper



F100010
21 Keeper

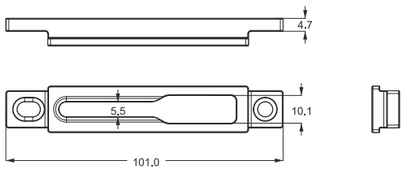


F100008
23 Keeper

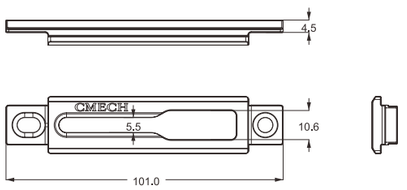


LIFT & SLIDE DOOR HARDWARE

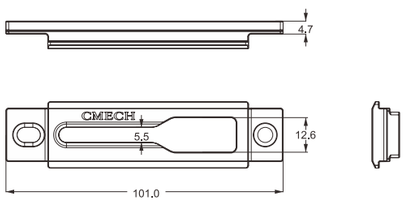
F100011
1710 Keeper



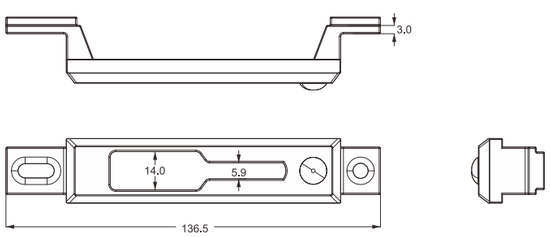
F100012
2109 Keeper



F100013
2410 Keeper

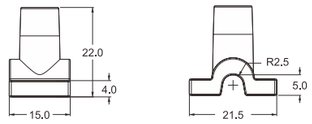


F100015
2424 Keeper

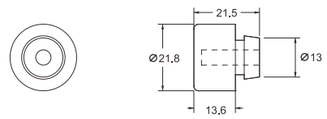


LIFT & SLIDE DOOR HARDWARE

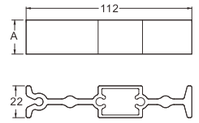
F110008
Rest Block



F080002
Rubber Stop

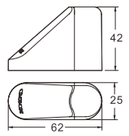


Spacer Pack
1 Long Spacer and 10 Short Spacers Per Pack



P/N	A
F140003	17 mm
F140009	12 mm

F080001
Panel Stop



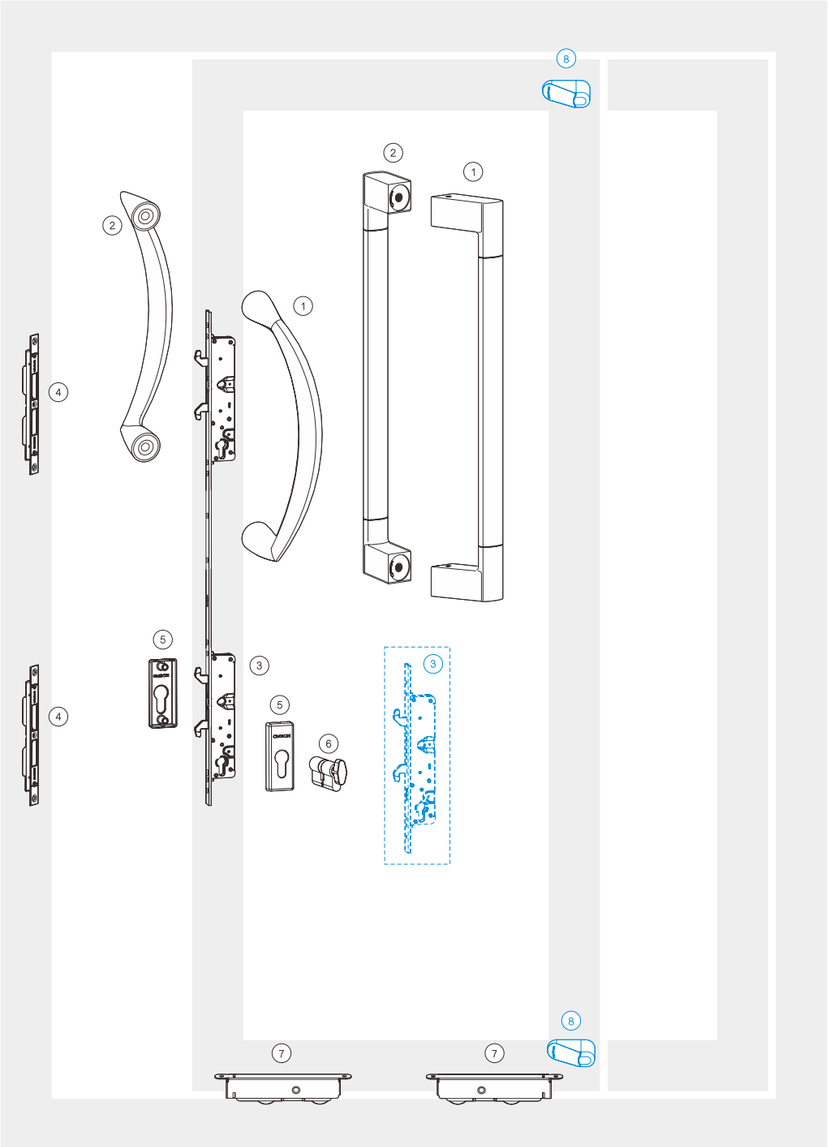
Gliding Door Hardware

- 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



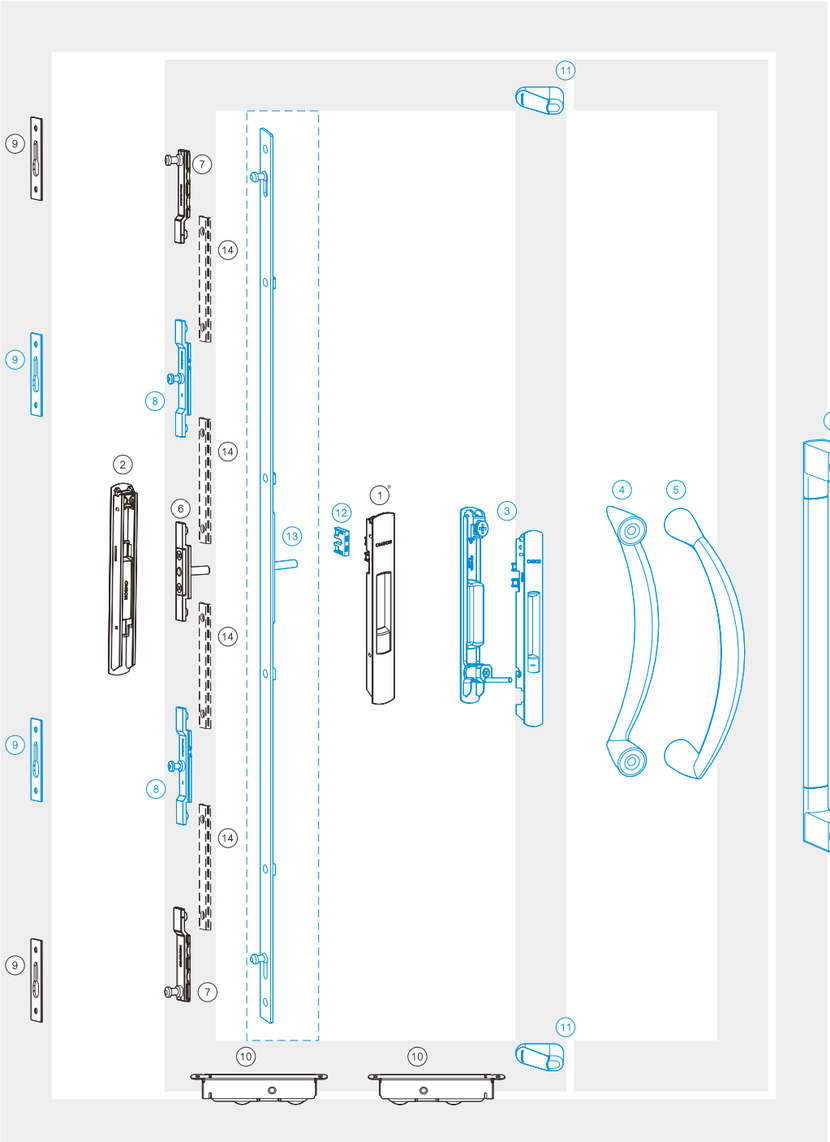
GLIDING DOOR HARDWARE SERIES

Configuration Table - Multi-Point Hook Lock

No.	Description	P/N	Qty	Notes	
1	Interior Handle	E010106 E010114 E010601	1	London Series; Hole Center to Attachment Surface: 260 mm; Height:70 mm London Series; Hole Center to Attachment Surface: 600 mm Milan Series; Hole Center to Attachment Surface: 400 mm	
2	Exterior Handle	E010101 E010115 E010603	1	London Series; Hole Center to Attachment Surface: 260 mm; Height:70 mm London Series; Hole Center to Attachment Surface: 600 mm Milan Series; Hole Center to Attachment Surface: 400 mm	
3	Multi-Point Hook Lock	E030017 E030016	1	Single Lock Body Double Lock Body	P152
4	Multi-Point Hook Lock Bracket	E100018	1 2	Single Lock Body Double Lock Body	P152
5	Cylinder Cover	E140001 E140002	1	Set Single	P146
6	Cylinder				P211、P212
7	Roller		2	Multiple Types Available	P157、P158、P159、P160
8	Panel Stop	F080001	1		P122
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

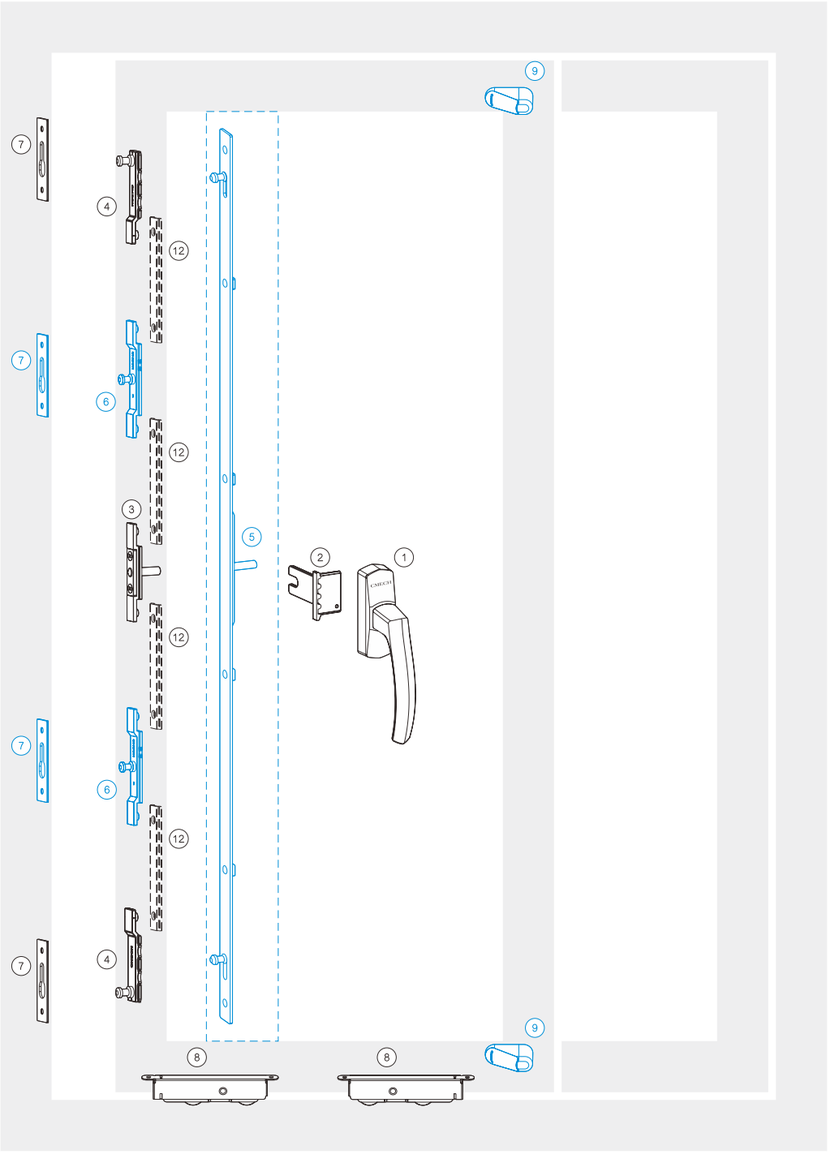
GLIDING DOOR HARDWARE SERIES

Configuration Table - Multi-Point Lock Recessed Handle

No.	Description	P/N	Qty	Notes
1	Multi-Point Lock Recessed Handle	E010024 E010026 E010032 E010039 E010040 E010041 E010042	1	Interior Keyed Recessed Handle Recessed Handle without Key Multi-Point Lock Recessed Handle Plus Multi-Point Lock Recessed Handle (Heavy-duty Double Side) Multi-Point Lock Recessed Handle (Heavy-duty Single Side) Multi-Point Lock Recessed Handle (Heavy-duty Single Interior Side) Multi-Point Lock Recessed Handle (Heavy-duty Single Exterior Side)
2	Fixed Recessed Handle	E010019 E010023 E010033	1	Aluminum Alloy Zinc Alloy Fixed Recessed Handle Plus(Aluminum Alloy)
3	Multi-Point Lock Recessed Handle	E010025 E010034		Exterior Keyed Recessed Handle Exterior Keyed Multi-point Lock Recessed Handle Plus
4	Exterior Handle	E010101 E010115 E010603	1	London Series; Hole Center to Attachment Surface: 260 mm; Height:70 mm London Series; Hole Center to Attachment Surface: 600 mm Milan Series; Hole Center to Attachment Surface: 400 mm
5	Interior Handle	E010106 E010114 E010601	1	London Series; Hole Center to Attachment Surface: 260 mm; Height:70 mm London Series; Hole Center to Attachment Surface: 600 mm Milan Series; Hole Center to Attachment Surface: 400 mm
6	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
7	End Lock Point	E090001 E090003 E090007 E090009 E090011	2	Adjustable End Lock Point(Heavy-duty)
8	Double-Ended Lock Point	E090002 E090004 E090006 E090008 E090012	0~2	Adjustable Central Lock Point(Heavy-duty)
9	Strike	E100001 E100006 E100009 E100011 E100013 E100015 E100016 E100017 E100019	2~4	
10	Roller		2	Multiple Types Available
11	Panel Stop	F080001	1	
12	Recessed Handle Fork Drive Extender	E120002 E010035	1	Lock Recessed Handle Fork Drive Extender for Recessed Handle Plus
13	Drive Gear	E030014 E030015	1	Width: 22 mm Width: 16 mm
14	Connecting Strip			Provided by Customer or Cmech
15	Screw Pack			

GLIDING DOOR HARDWARE SERIES

Fork Drive Handle Configuration



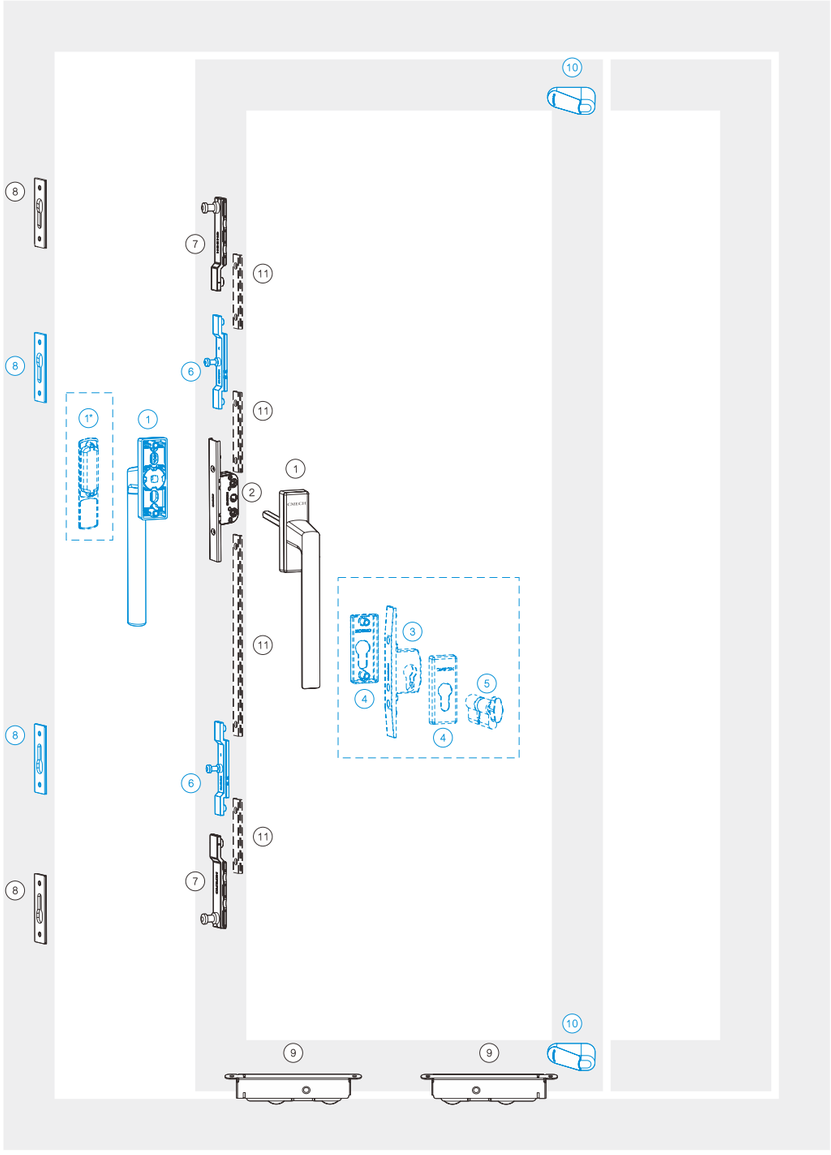
GLIDING DOOR HARDWARE SERIES

Configuration Table - Fork Drive Handle

No.	Description	P/N	Qty	Notes
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 Koln Series, Suitable for Central Fork Drive, Aluminum Alloy Koln 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
2	Fork Drive	A110107 A110108 A110109 A110110	1	21 mm 27 mm 31 mm 33 mm
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
4	End Lock Point	E090001 E090003 E090007 E090009 E090011	2	Adjustable End Lock Point(Heavy-duty)
5	Drive Gear	E030014 E030015	1	Width: 22 mm Width: 16 mm
6	Double-Ended Lock Point	E090002 E090004 E090006 E090008 E090012	0~2	Adjustable Central Lock Point(Heavy-duty)
7	Strike	E100001 E100006 E100009 E100011 E100013 E100015 E100016 E100017 E100019	2~4	
8	Roller		2	Multiple Types Available
9	Panel Stop	F080001	1	
10	Connecting Strip			Provided by Customer or Cmech
11	Screw Pack			

GLIDING DOOR HARDWARE SERIES

Spindle Drive Handle Configuration



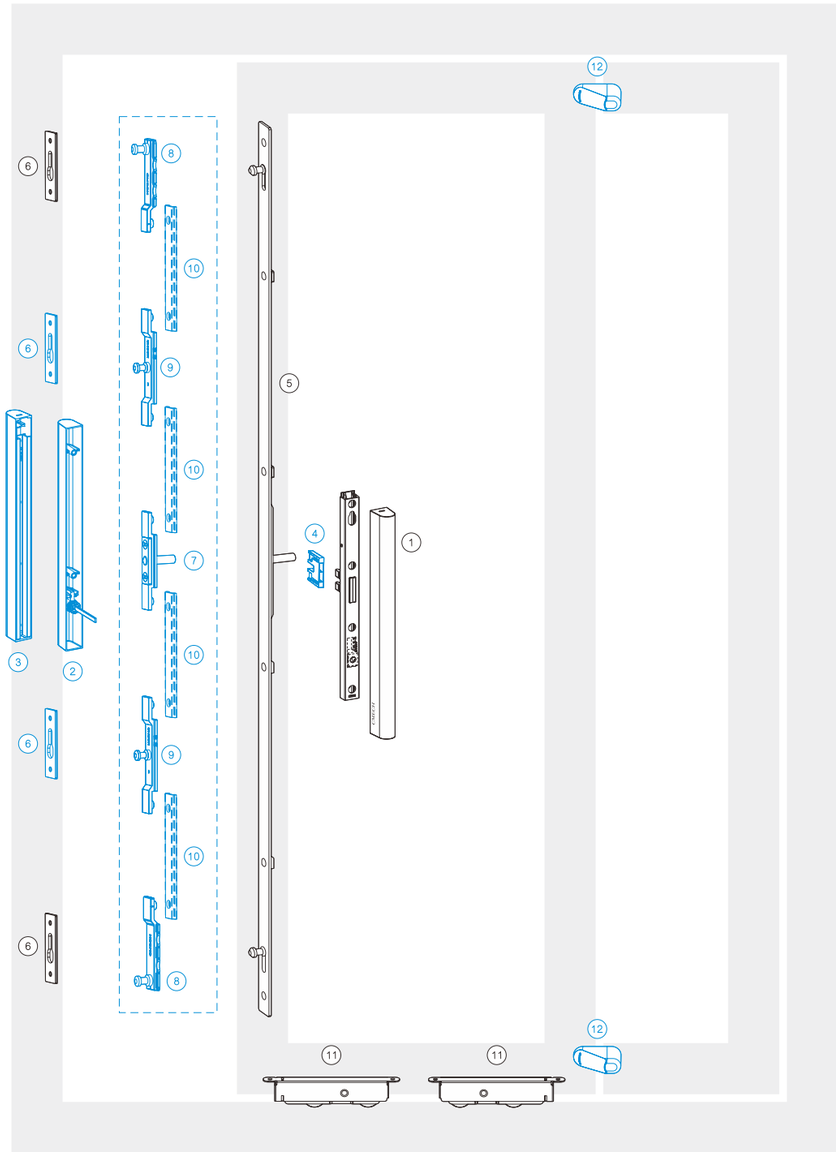
GLIDING DOOR HARDWARE SERIES

Configuration Table - Spindle Drive Handle

No.	Description	P/N	Qty	Notes
1	Spindle Drive Handle (Type SD)	E010201 E010203 E010202 E010204	1	Koln Series Single Handle; Width: 32 mm Koln Series Single Handle; Width: 37 mm Koln Series Handle Set; Width: 32 mm Koln Series Handle Set; Width: 37 mm
1*	Recessed Handle (U Series)	F010602	1	
2	Bi-Directional Spindle Drive Gearbox	A020101 A020103	1	Hole Center to Attachment Surface: 25 mm Hole Center to Attachment Surface: 30 mm
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
4	Cylinder Cover	E140001 E140002	1	Set Single
5	Cylinder		1	Suitable for Locking Gearbox Housing
6	Double-Ended Lock Point	E090002 E090004 E090006 E090008 E090012	0~2	Adjustable Central Lock Point(Heavy-duty)
7	End Lock Point	E090001 E090003 E090007 E090009 E090011	2	Adjustable End Lock Point(Heavy-duty)
8	Strike	E100001 E100006 E100009 E100011 E100013 E100015 E100016 E100017 E100019	2~4	
9	Roller		2	Multiple Types Available
10	Panel Stop	F080001	1	
11	Connecting Strip			Provided by Customer or Cmech
12	Screw Pack			

GLIDING DOOR HARDWARE SERIES

Metro Handle Configuration



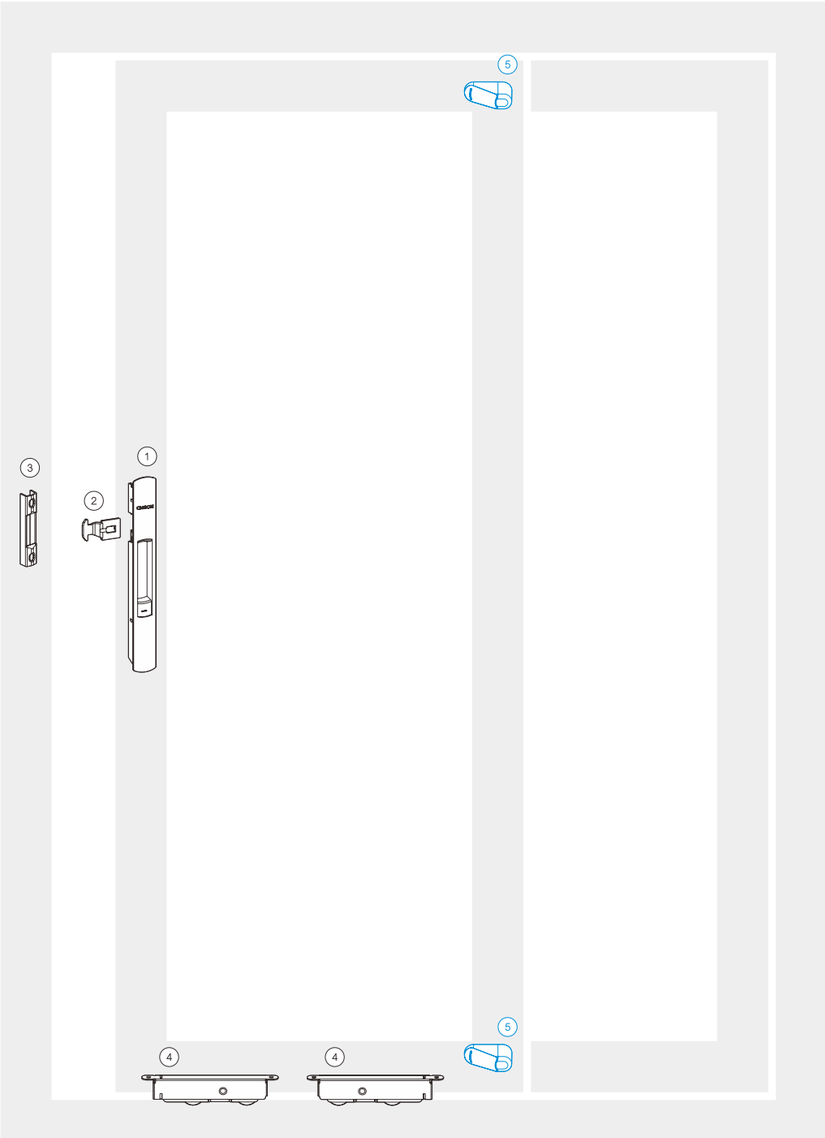
GLIDING DOOR HARDWARE SERIES

Configuration Table - Metro Handle

No.	Description	P/N	Qty	Notes
1	Metro Handle	E010036	1	Height: 30 mm
2	Metro Handle Set Key	E010037	1	Height: 30 mm
3	Fixed Metro Handle	E010004	1	Height: 30 mm
4	Metro Handle Fork Drive Extender	E120001		
5	Drive Gear	E030014 E030015	1	Width: 22 mm Width: 16 mm
6	Strike	E100001 E100006 E100009 E100011 E100013 E100015 E100016 E100017 E100019	2~4	
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
8	End Lock Point	E090001 E090003 E090007 E090009 E090011	2	Adjustable End Lock Point(Heavy-duty)
9	Double-Ended Lock Point	E090002 E090004 E090006 E090008 E090012	0~2	Adjustable Central Lock Point(Heavy-duty)
10	Connecting Strip			Provided by Customer or Cmech
11	Roller		2	Multiple Types Available
12	Panel Stop	F080001	1	
13	Screw Pack			

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
1	Single-Point Lock Recessed Handle	E010030	1	
2	Hook Lock	P110002 P110003 P110004 P110005 P110006 P110007 P110008 P110009 P110010 P110011 P110012 P110013 P110014 P110015	1	Multiple Types Available
3	Strike	P100001 P100005 P100006 P100007 P100008	1	
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 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)	E050001 E050002 E050003 E050004 E050007 E050008 E050011 E050013 E050020 E050021 E050024 E050025 E050026 E050005 E050006 E050009 E050010 E050012 E050014 E050015 E050017 E050018	2	1628-2934-R2.5-150 kg 1220-2127-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-R2.5-120 kg 323-23-R2.5-60 kg 1521-2027-R2.5-120 kg 1621-2028-R2.5-120 kg 1517-1923-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
5	Panel Stop	F080001	1	
6	Screw Pack			

GLIDING DOOR & WINDOW SCREW PACK SELECTION TABLE

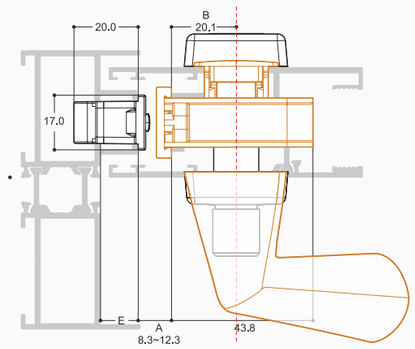
Screw Pack Selections

Product \ P/N	E110001	E110005	E110006	E110009	E110010	E110011	E110012	E110014	E110017	E110020	E110024	A110078	E110028
300 London Handle Set	1												
Single London Handle										1			
Fork Drive Handle (Type W)												1	
Spindle Drive Handle (Interior)							1						
Spindle Drive Handle (Interior + Exterior)						2							
Metro Handle				1									
Metro Handle + Recessed Handle								1					
Fixed Metro Handle + Recessed Handle									1				
Cylinder Cover (Interior)					1								
Cylinder Cover (Interior + Exterior)						1							
Multi-Point Hook Lock (Single Lock Body) + Keeper		3											
Multi-Point Hook Lock (Double Lock Body) + Keeper		6											
Drive Gear		3											
Strike		1											
Roller (Type R)-1628R			1										
Roller (Type R)-1220R				1/2									
Roller (Type R)-2826R				1									
Roller (Type R)-2426R				1									
Roller (Type V)-2826V				1									
Roller (Type V)-2426V				1									
Roller (Type R)-1521R				1/2									
Roller (Type R)-1621R				1/2									
Roller (Type R)-1517R				1/2									
Roller (Type R)-1215R				1/2									
Roller (Type R)-2226R											1		
200 kg Roller-1525													1

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

GLIDING DOOR PROFILE AND DRILLING REQUIREMENTS

- Single London Handle
- Multi-Point Hook Lock (Single Lock Body)

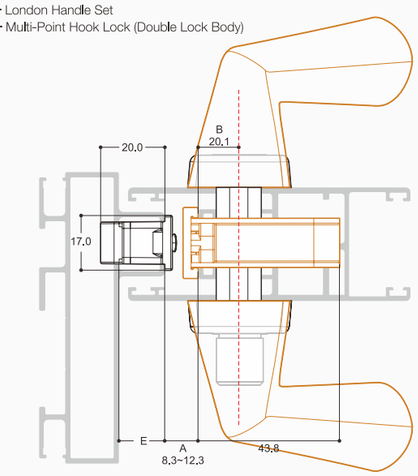


A: The gap between the surface of the locking bracket and the mounting surface of the lock body

B: The distance between the lock body mounting surface and the centerline

E: Distance between installed surface of lock base and bottom of profile groove

- London Handle Set
- Multi-Point Hook Lock (Double Lock Body)

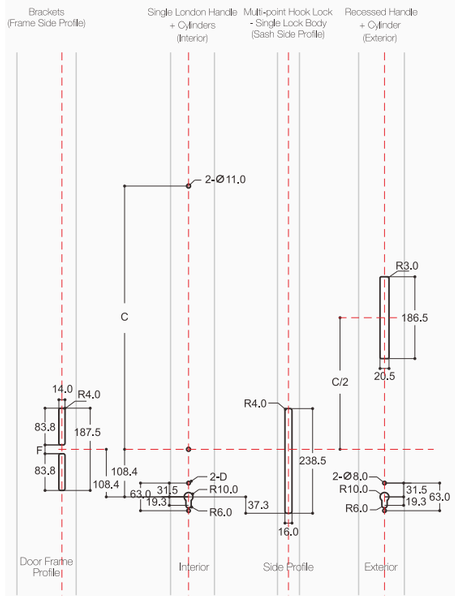


A: The gap between the surface of the locking bracket and the mounting surface of the lock body

B: The distance between lock body mounting surface and the centerline

E: Distance between installed surface of lock base and bottom of profile groove

Drill Hole Drawing

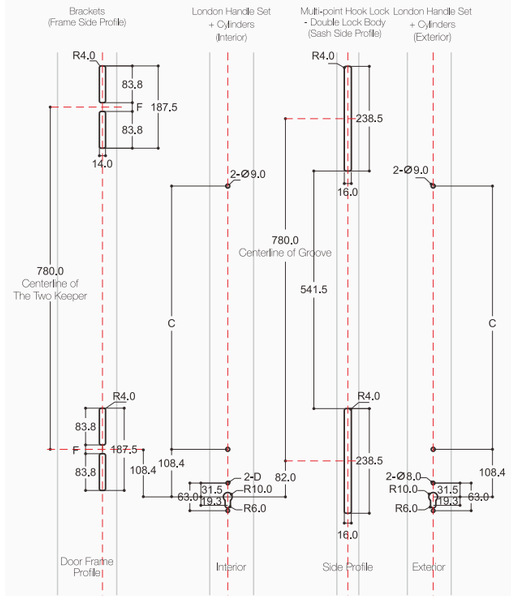


C: Small London handle screw hole distance 260 mm, large London handle screw hole distance 600 mm

D: Single sided - Interior: Ø 4.0, Exterior: no holes
Dual sided - Interior: Ø 6.0, Exterior: Ø 8.0

F: If E ≥ 12.5mm, F=20 mm
If E<12.5mm, F=0

Drill Hole Drawing



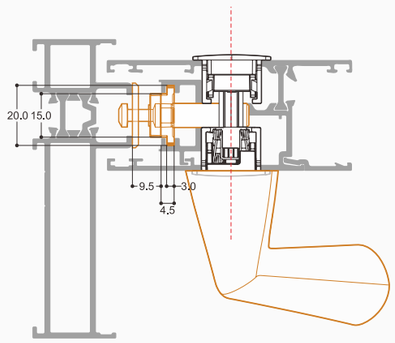
C: Small London handle screw hole distance 260 mm, large London handle screw hole distance 600 mm

D: Single sided - Interior: Ø 4.0, Exterior: no holes
Dual sided - Interior: Ø 6.0, Exterior: Ø 8.0

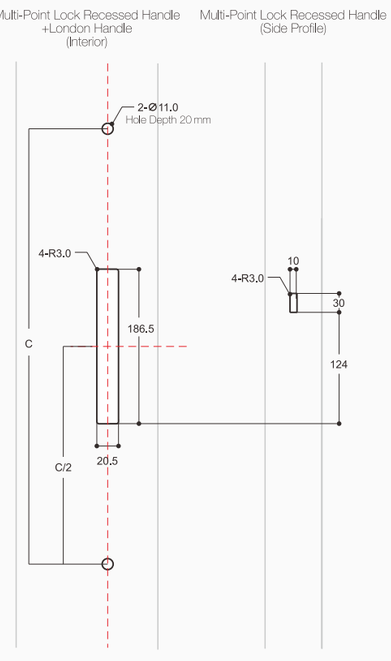
F: If E ≥ 12.5mm, F=20 mm
If E<12.5mm, F=0

GLIDING DOOR PROFILE AND DRILLING REQUIREMENTS

- Single London Handle+Multi-Point Lock Recessed Handle
- Fixed Recessed Handle

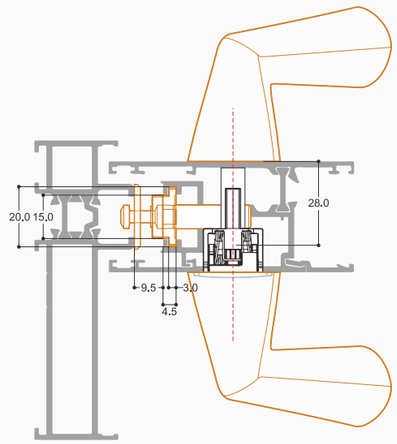


Drill Hole Drawing

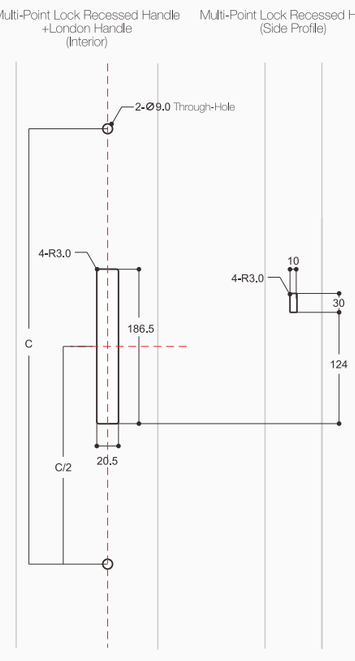


C: Small London handle screw hole distance 260 mm,
large London handle screw hole distance 600 mm

- London Handle Set+Multi-Point Lock Recessed Handle



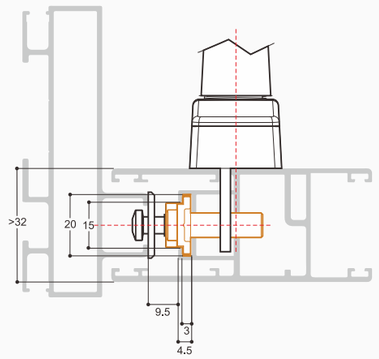
Drill Hole Drawing



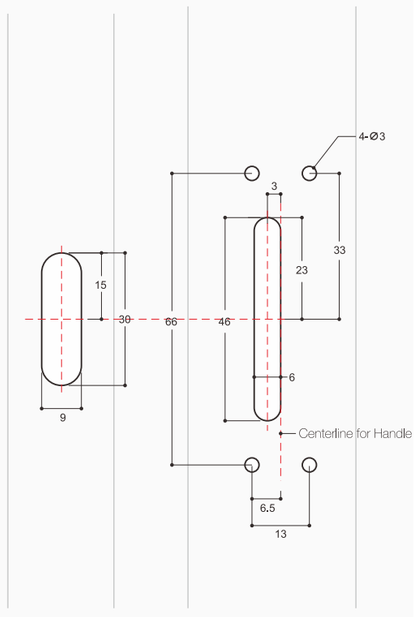
C: Small London handle screw hole distance 260 mm,
large London handle screw hole distance 600 mm

GLIDING DOOR PROFILE AND DRILLING REQUIREMENTS

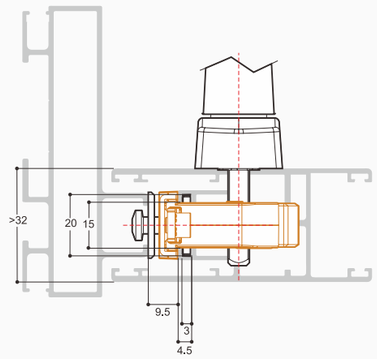
- Fork Drive Handle+T-Drive



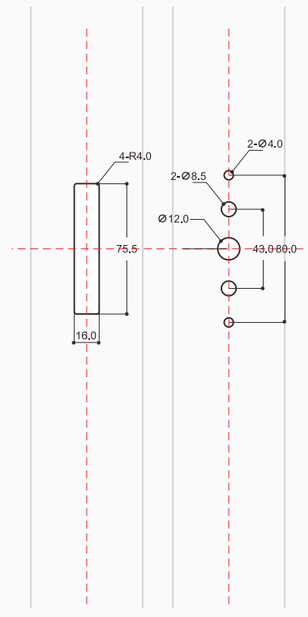
Drill Hole Drawing



- Spindle Drive Handle+Spindle Drive Gearbox

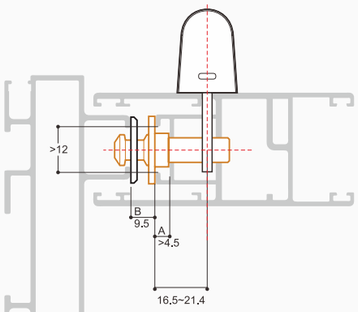


Drill Hole Drawing: Suitable for E010201



GLIDING DOOR PROFILE AND DRILLING REQUIREMENTS

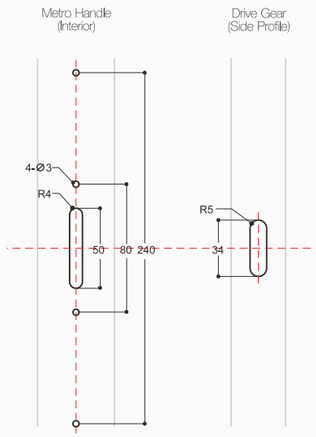
Single Metro Handle + Drive Gear (Width: 22 mm)



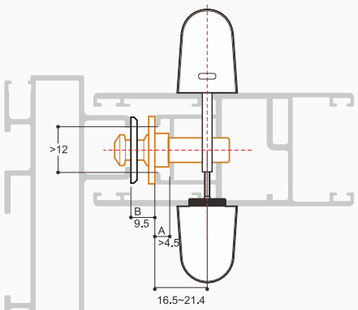
A: Required space for drive gear to function

B: The distance between the strike surface and the drive gear mount surface

Drill Hole Drawing



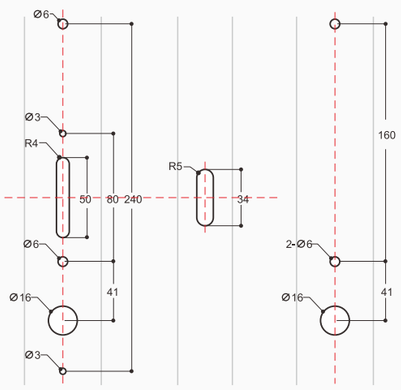
Metro Handle Set + Drive Gear (Width: 22 mm)



A: Required space for drive gear to function

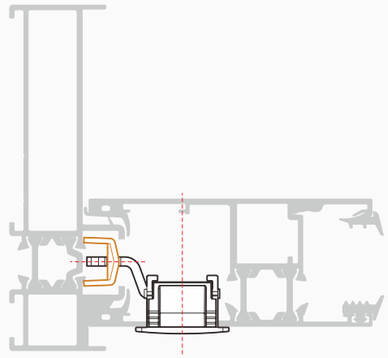
B: The distance between the strike surface and the drive gear mount surface

Drill Hole Drawing

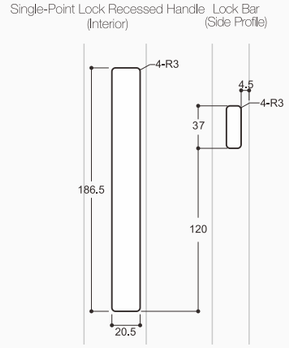


GLIDING DOOR PROFILE AND DRILLING REQUIREMENTS

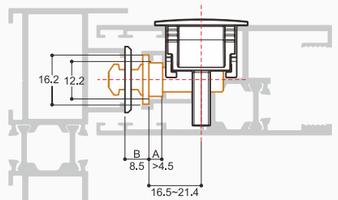
Single-Point Lock Recessed Handle



Drill Hole Drawing



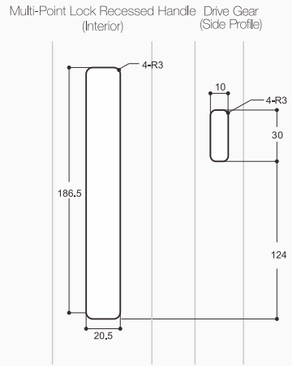
Multi-Point Lock Recessed Handle+Drive Gear (Width: 16 mm)



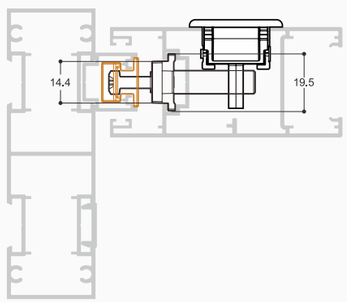
A: Required space for drive gear to function

B: The distance between the strike surface and the drive gear mount surface

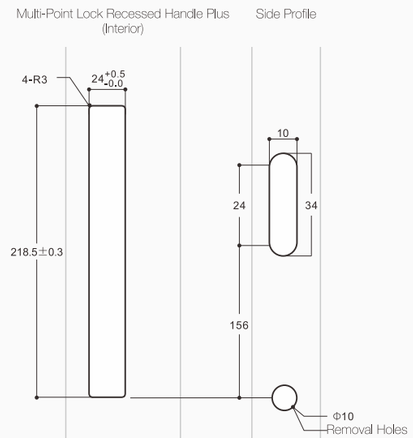
Drill Hole Drawing



Multi-Point Lock Recessed Handle Plus+Intermediate Drive

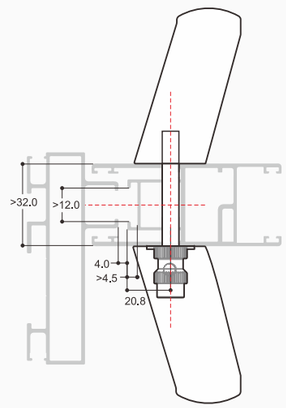


Drill Hole Drawing

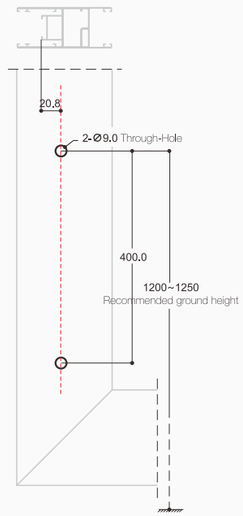


GLIDING DOOR PROFILE AND DRILLING REQUIREMENTS

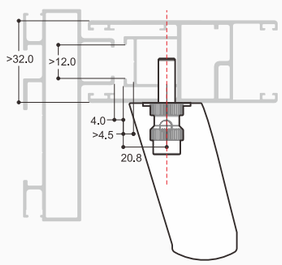
400 Milan Handle Set



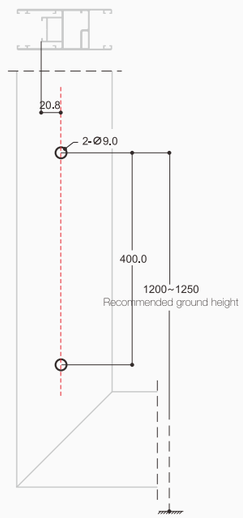
Drill Hole Drawing



400 Single Milan Handle

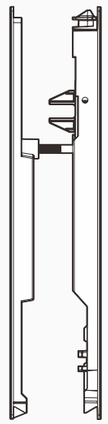


Drill Hole Drawing

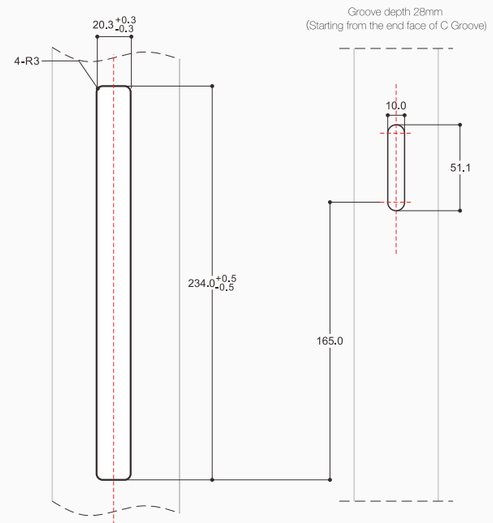


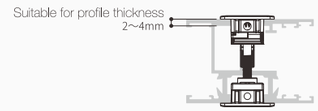
GLIDING DOOR PROFILE AND DRILLING REQUIREMENTS

Multi-Point Hook Lock Single Lock Body (Heavy-duty)



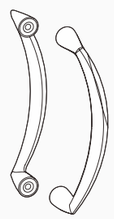
Drill Hole Drawing

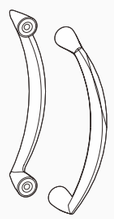




HANDLE SELECTIONS

LONDON HANDLE





P/N	Height
E010115-	70 (Exterior)
E010114-	70 (Interior)

P/N	Height
E010117-	70 (Interior+Exterior)

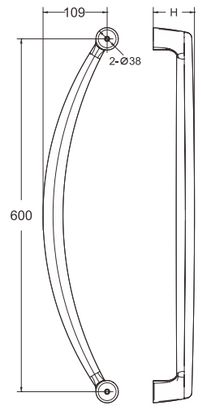
*Includes Screw Pack; The Outer Handle Cannot be Installed Separately

M Treatment

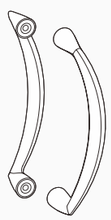
Silver 01 · Champagne 02 · Gold 11 · Bronze 12

Powder Coating

White 09 · Black 10 · Mat Black 17



LONDON HANDLE



P/N	Height
E010101-	70 (Exterior)
E010106-	70 (Interior)

P/N	Height
E010112-	50 (Interior)

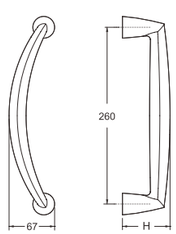
*Screw Pack Options P139; The Outer Handle Cannot be Installed Separately

M Treatment

Silver 01 · Champagne 02 · Gold 11 · Bronze 12

Powder Coating

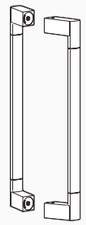
White 09 · Black 10 · Mat Black 17



HANDLE SELECTIONS

MILAN SERIES

400 Handle



P/N	Height
E010601-	68 (Interior)

P/N	Height
E010602-	68 (Interior+Exterior)

P/N	Height
E010603-	68 (Exterior)

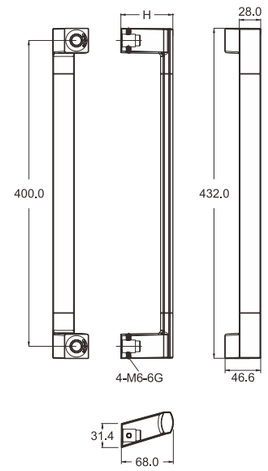
*Includes Screw Pack

M Treatment

Silver 01 · Champagne 02 · Gold 11 · Bronze 12

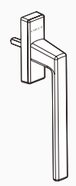
Powder Coating

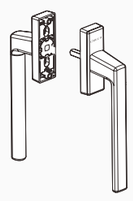
White 09 · Black 10 · Mat Black 17

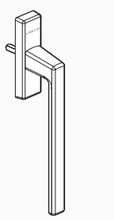


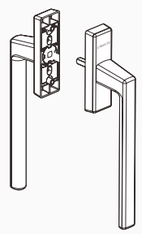
KOLN SERIES

Spindle Drive Handle (Type SD)









P/N	W x H
E010201-	32 x 63

P/N	W x H
E010202-	32 x 63

P/N	W x H
E010203-	37 x 69

P/N	W x H
E010204-	37 x 69

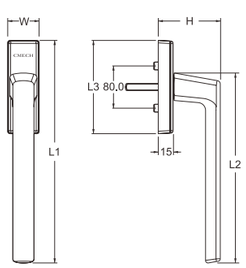
P/N	L1(mm)	L2(mm)	L3(mm)
E010201	226.8	193.2	95.0
E010202	226.8	193.2	95.0
E010203	279.4	234.4	120.0
E010204	279.4	234.4	120.0

M Treatment

Silver 01 · Champagne 02 · Gold 11 · Bronze 12

Powder Coating

White 09 · Black 10 · Mat Black 17



HANDLE SELECTIONS

METRO HANDLE

P/N	Description
E010036-	Metro Handle

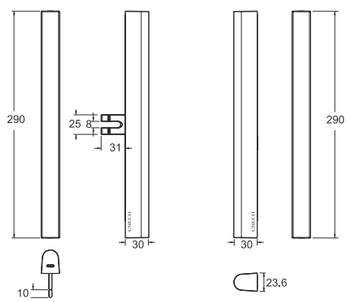
P/N	Description
E010004-	Fixed Metro Handle

M Treatment

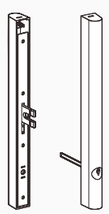
Silver	Champagne	Gold	Bronze
01	02	11	12

Powder Coating

White	Black	Mat Black
09	10	17



METRO HANDLE SET WITH CYLINDER



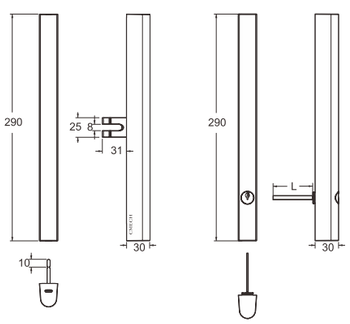
P/N	L
E010037-	53.8
E010038-	79.3

M Treatment

Silver	Champagne	Gold	Bronze
01	02	11	12

Powder Coating

White	Black	Mat Black
09	10	17



HANDLE SELECTIONS

EXTERIOR KEYED MULTI-POINT LOCK RECESSED HANDLE PLUS

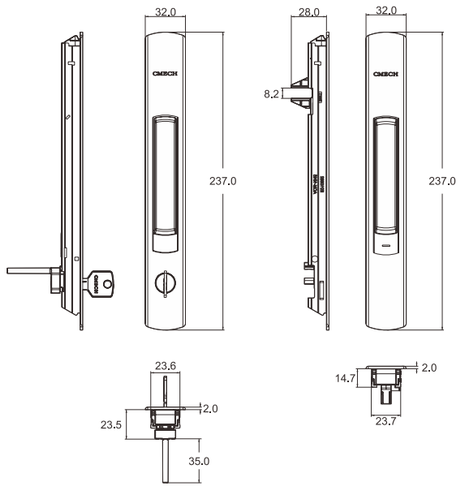
P/N
E010034-

M Treatment

Silver	Champagne	Gold	Bronze
01	02	11	12

Powder Coating

White	Black	Mat Black
09	10	17



MULTI-POINT LOCK RECESSED HANDLE PLUS

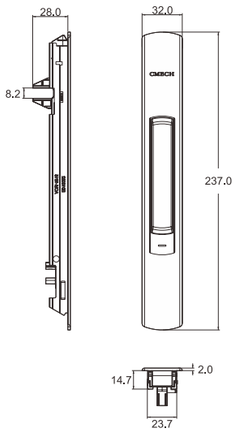
P/N
E010032-

M Treatment

Silver	Champagne	Gold	Bronze
01	02	11	12

Powder Coating

White	Black	Mat Black
09	10	17



HANDLE SELECTIONS

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

P/N

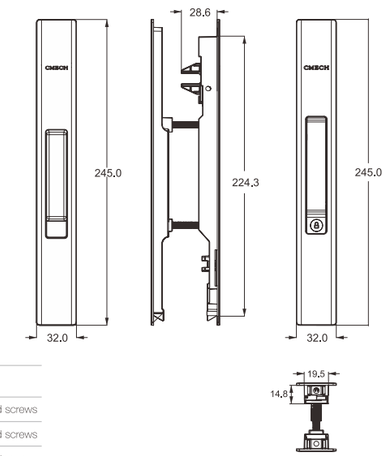
E010039-

M Treatment

Silver 01 | Champagne 02 | Gold 11 | Bronze 12

Powder Coating

White 09 | Black 10 | Mat Black 17



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

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

P/N

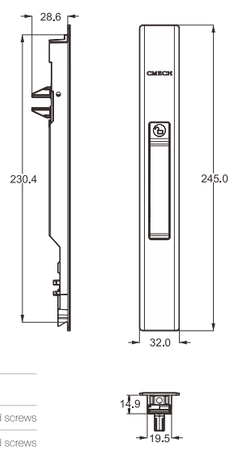
E010040-

M Treatment

Silver 01 | Champagne 02 | Gold 11 | Bronze 12

Powder Coating

White 09 | Black 10 | Mat Black 17



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

HANDLE SELECTIONS

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

P/N

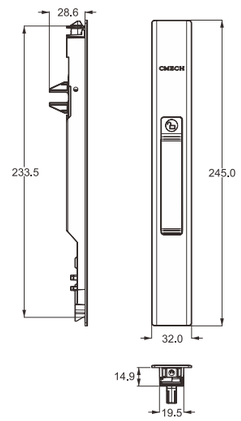
E010041-

M Treatment

Silver 01 | Champagne 02 | Gold 11 | Bronze 12

Powder Coating

White 09 | Black 10 | Mat Black 17



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

P/N

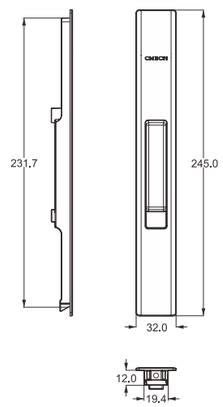
E010042-

M Treatment

Silver 01 | Champagne 02 | Gold 11 | Bronze 12

Powder Coating

White 09 | Black 10 | Mat Black 17



HANDLE SELECTIONS

FIXED RECESSED HANDLE PLUS

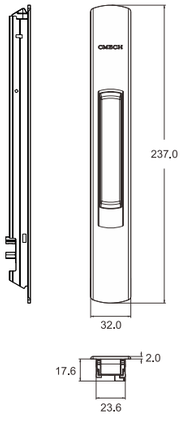
P/N
E010033-

M Treatment

Silver 01 | Champagne 02 | Gold 11 | Bronze 12

Powder Coating

White 09 | Black 10 | Mat Black 17



SINGLE-POINT LOCK RECESSED HANDLE

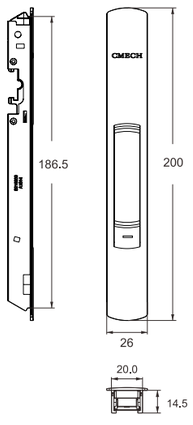
P/N
E010030-

M Treatment

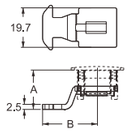
Silver 01 | Champagne 02 | Gold 11 | Bronze 12

Powder Coating

White 09 | Black 10 | Mat 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
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

HANDLE SELECTIONS

MULTI-POINT LOCK RECESSED HANDLE

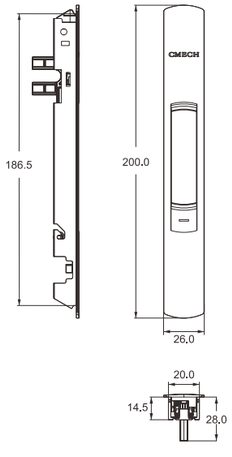
P/N
E010026-

M Treatment

Silver 01 | Champagne 02 | Gold 11 | Bronze 12

Powder Coating

White 09 | Black 10 | Mat Black 17



MULTI-POINT LOCK RECESSED HANDLE

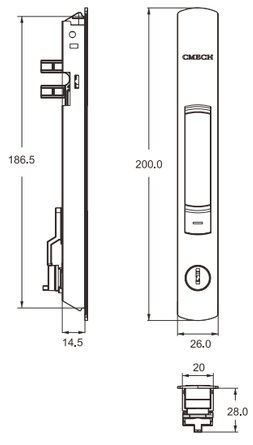
P/N	Description
E010024-	With Cylinders (Interior)

M Treatment

Silver 01 | Champagne 02 | Gold 11 | Bronze 12

Powder Coating

White 09 | Black 10 | Mat Black 17

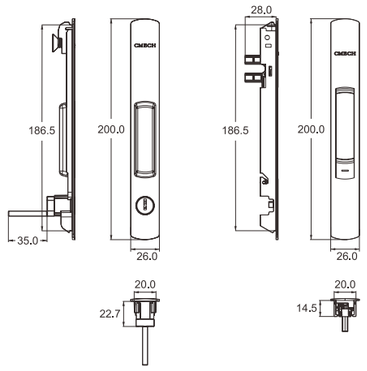


HANDLE SELECTIONS

MULTI-POINT LOCK RECESSED HANDLE

E010025

Multi-Point Lock Recessed Handle - Exterior with Key



M Treatment

Silver	Champagne	Gold	Bronze
01	02	11	12

Powder Coating

White	Black	Mat Black
09	10	17

FIXED RECESSED HANDLE

E010019

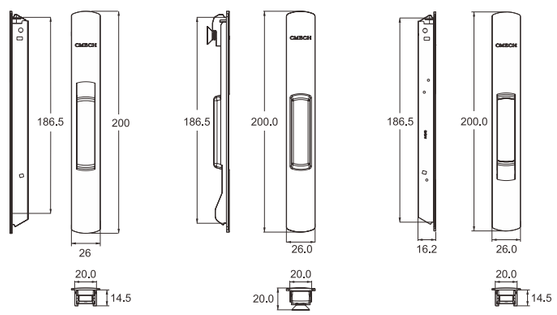
Fixed Recessed Handle

E010023

Fixed Recessed Handle

E010031

Fixed Recessed Handle



M Treatment

Silver	Champagne	Gold	Bronze
01	02	11	12

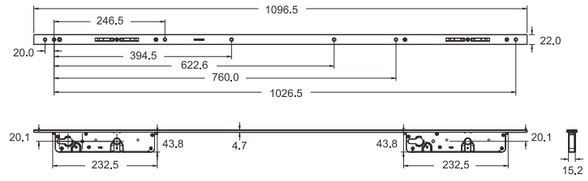
Powder Coating

White	Black	Mat Black
09	10	17

LOCKING HARDWARE

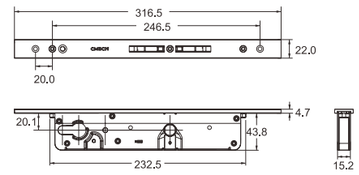
E030016

Multi-Point Hook Lock - Double Lock Body



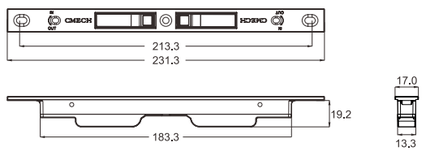
E030017

Multi-Point Hook Lock - Single Lock Body

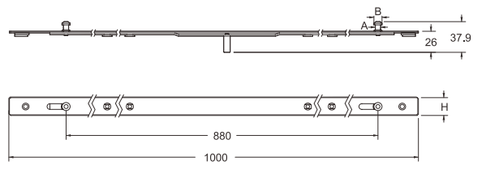


E100018

Multi-Point Hook Lock Bracket



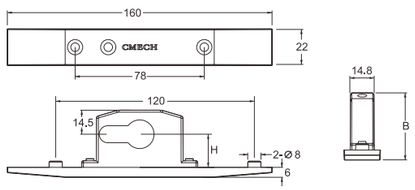
Drive Gear



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

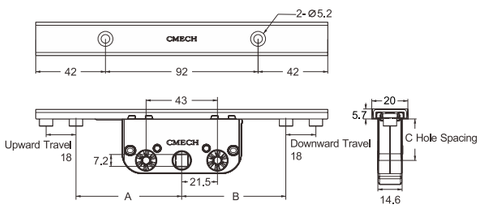
GEARBOXES

Locking Gearbox Housing



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

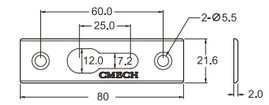
Bi-Directional Spindle Drive Gearbox



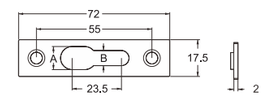
P/N	A	B	C
A020101	62.7 mm	63.7 mm	25 mm
A020103	62.7 mm	62.7 mm	30 mm

STRIKES AND BRACKETS

E100001
Strike

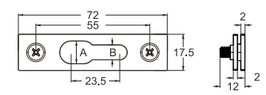


Strike



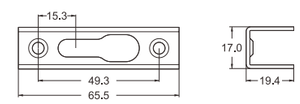
P/N	A	B
E100006	11 mm	7.2 mm
E100009	9.25 mm	5.5 mm

Strike

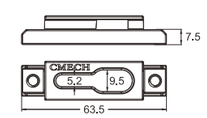


P/N	A	B
E100011	11 mm	7.2 mm
E100013	9.25 mm	5.5 mm

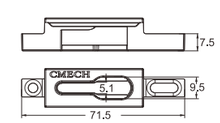
E100019
Strike (Type U)



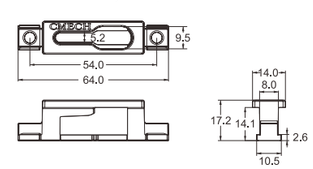
E100015
Pre-Assembly Keeper



E100016
After-Assembly Keeper



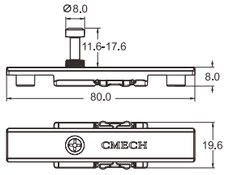
E100017
Pre-Assembly Keeper



LOCK POINTS

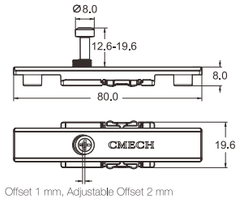
E090008

Height Adjustable Central Lock Point



E090006

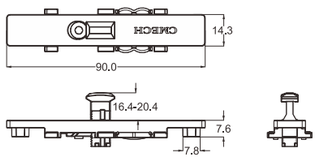
Offset Adjustable Central Lock Point



Offset 1 mm, Adjustable Offset 2 mm

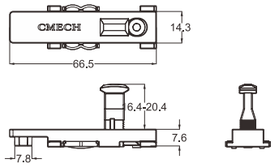
E090012

Adjustable Central Lock Point (Heavy-duty)



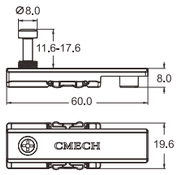
E090011

Adjustable End Lock Point (Heavy-duty)



E090009

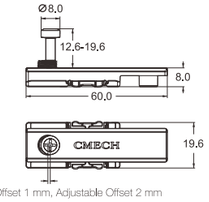
Height Adjustable End Lock Point



LOCK POINTS

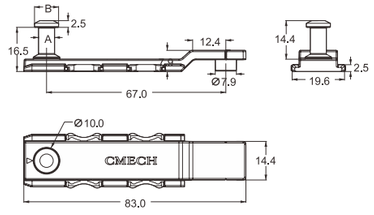
E090007

Offset Adjustable End Lock Point



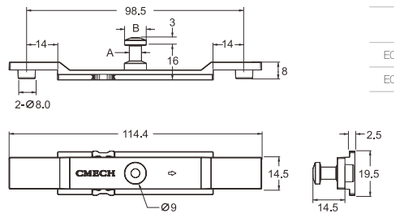
Offset 1 mm, Adjustable Offset 2 mm

End Lock Point



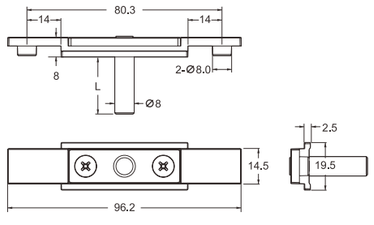
P/N	Specifications	
	A	B
E090001	Ø6.0	Ø9.0
E090003	Ø4.0	Ø8.0

Double-Ended Lock Point



P/N	Specifications	
	A	B
E090002	Ø6.0	Ø9.0
E090004	Ø4.0	Ø8.0

Intermediate Drive

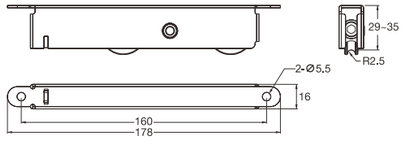


P/N	L
E020001	23.5 mm
E020010	15.5 mm
E020011	19.5 mm
E020012	27.5 mm
E020013	31.5 mm
E020014	35.5 mm
E020019	39.5 mm
E020020	43.5 mm
E020021	47.5 mm

ROLLER CARRIAGES

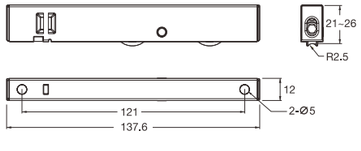
E050001

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

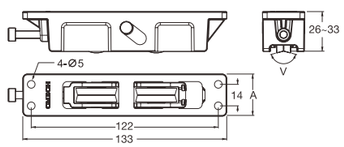


E050002

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

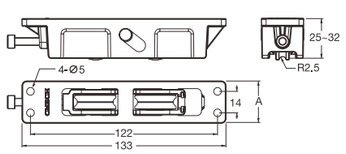


Roller (Type V)



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)

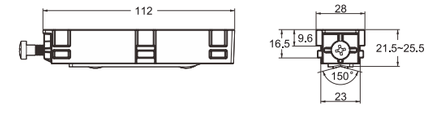


P/N	Description	A	Max. Load	Material
E050003	2426-2532-R2.5-80 kg	24 mm	80 kg	Nylon
E050004	2426-2532-R2.5-120 kg	24 mm	120 kg	Zinc Alloy
E050007	2826-2532-R2.5-80 kg	28 mm	80 kg	Nylon
E050008	2826-2532-R2.5-120 kg	28 mm	120 kg	Zinc Alloy

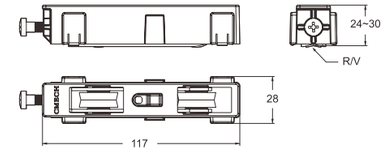
ROLLER CARRIAGES

E050012

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

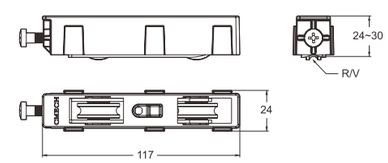


Roller-120 kg



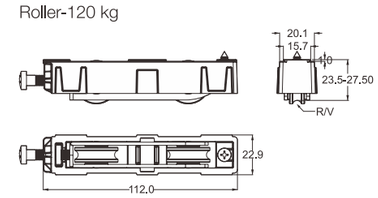
P/N	Description	Max. Load	Material	R/V-Angle
E050011	2824-2430-R2.5-120 kg	120 kg	Nylon	R2.5
E050014	2824-2430-V160-120 kg	120 kg	Nylon	160°

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

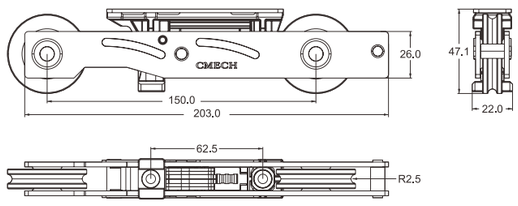


P/N	Description	Max. Load	Material	R/V-Angle
E050020	2323-2226-R2.5-120 kg	120 kg	Nylon	R2.5
E050018	2323-2226-V150-120 kg	120 kg	Nylon	150°

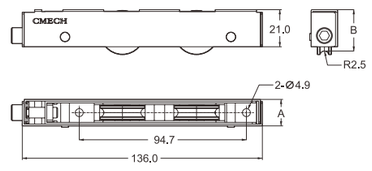
ROLLER CARRIAGES

E050022

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



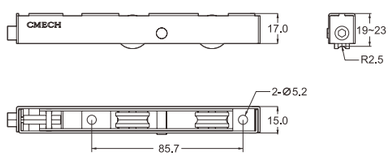
Roller (Type R)



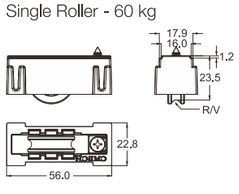
P/N	Description	A	B	Max. Load	Material
E050024	1521-2027-R2.5-120 kg	15 mm	23~31	120 kg	Stainless Steel
E050025	1621-2028-R2.5-120 kg	16 mm	23~31	120 kg	Stainless Steel

E050026

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



Single Roller - 60 kg

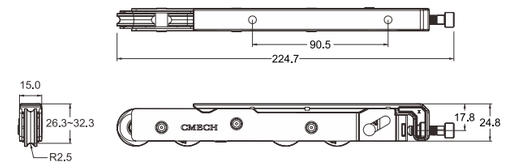


P/N	Description	Max. Load	Material	R/V-Angle
E050021	2323-23-R2.5-60 kg	60 kg	Nylon	R2.5
E050017	2323-23-V150-60 kg	60 kg	Nylon	150°

ROLLER CARRIAGES

E050027

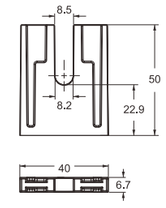
Roller -1525-2632-R2.5-200 kg



OTHER ACCESSORIES

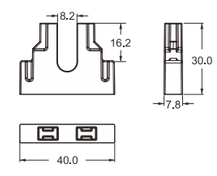
E120001

Metro Handle Fork Drive Extender



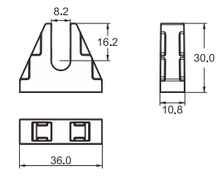
E120002

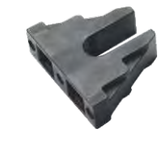
Recessed Handle Fork Drive Extender



E010035

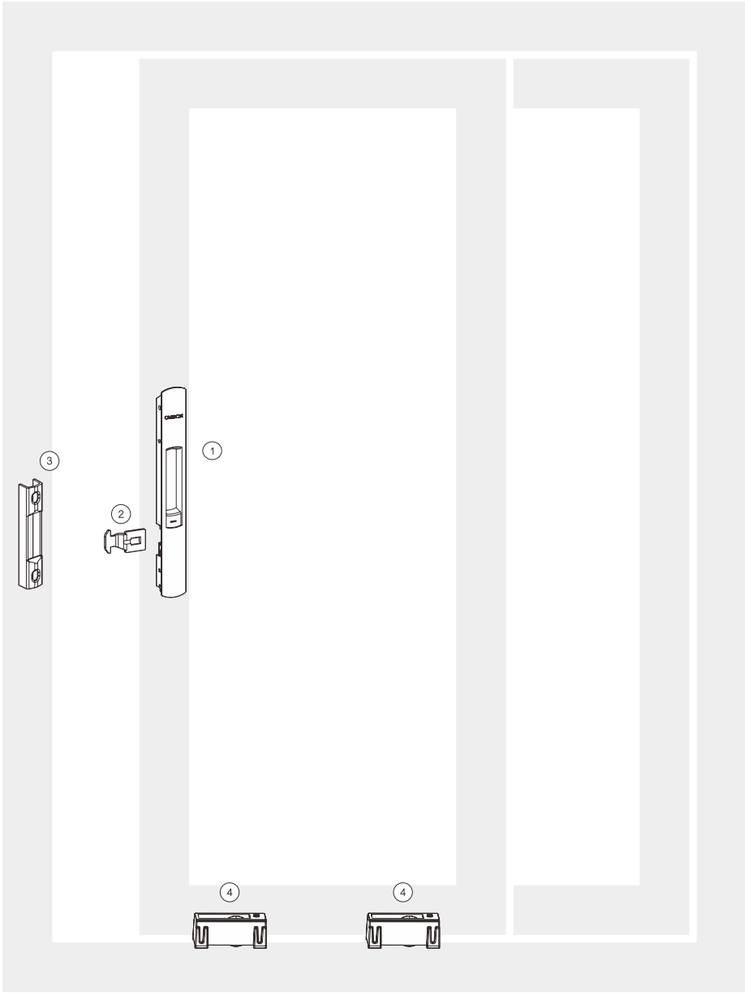
Fork Drive Extender for Recessed Handle Plus





GLIDING WINDOW HARDWARE SERIES

Bump Lock Recessed Pull Handle

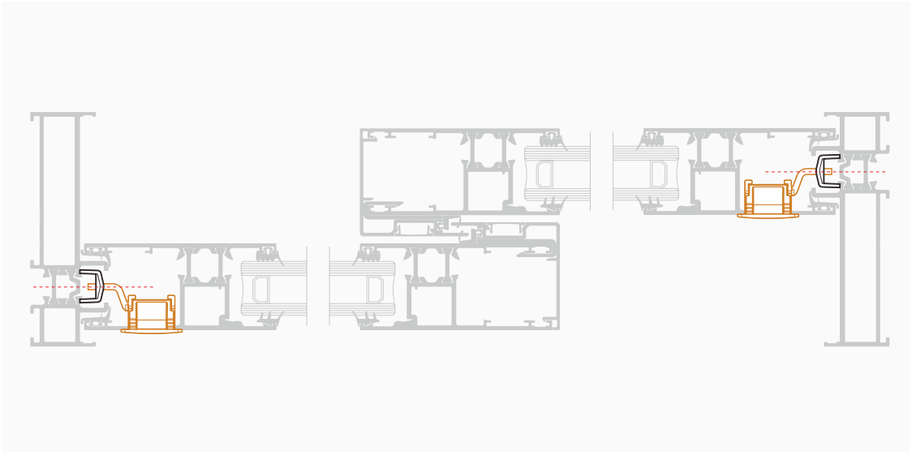


GLIDING WINDOW HARDWARE SERIES

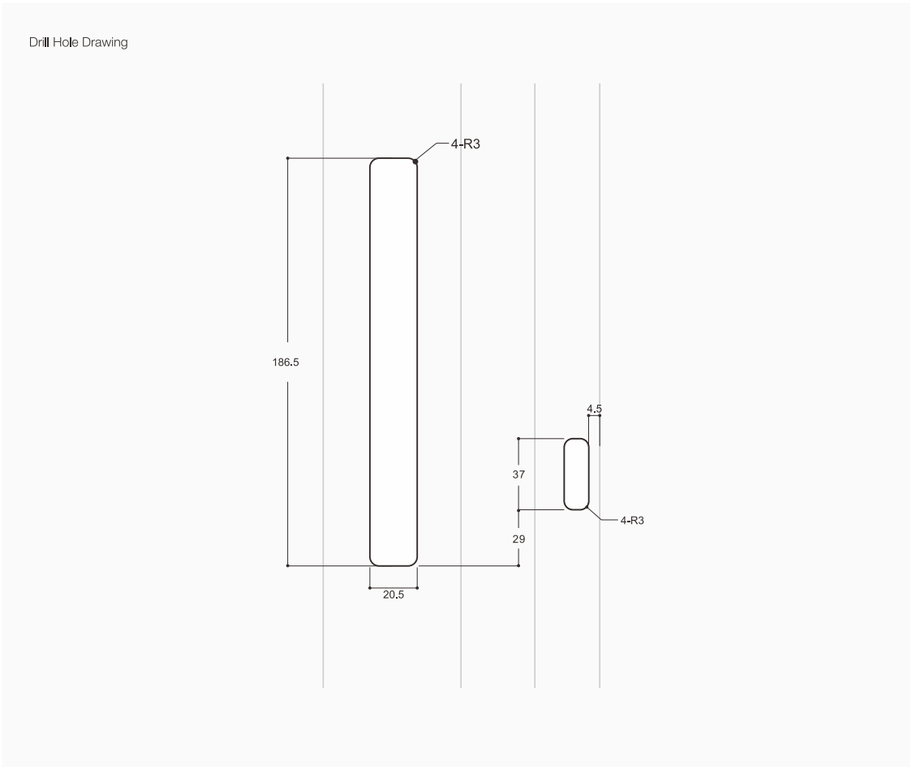
Configuration Table - Bump Lock Recessed Pull Handle

No.	Description	P/N	Qty	Notes
1	Bump Lock Recessed Pull Handle	P010026 P010027	1	
2	Hook Lock	P110002 P110003 P110004 P110005 P110006 P110007 P110008 P110009 P110010 P110011 P110012 P110013 P110014 P110015	1	Multiple Types Available
3	Locking Bracket	P100001 P100005 P100006 P100007 P100008	1	Bracket Clip Bracket 10V Bracket 16V Bracket 16 Flat Bracket
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) Roller (Type V)	E050001 E050002 E050003 E050004 E050007 E050008 E050011 E050013 E050020 E050021 E050024 E050025 P050001 E050005 E050006 E050009 E050010 E050012 E050014 E050015 E050017 E050018	2	1628-2934-R2.5-150 kg 1320-2127-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-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 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
5	Screw Pack			

GLIDING WINDOW PROFILE AND DRILLING REQUIREMENTS



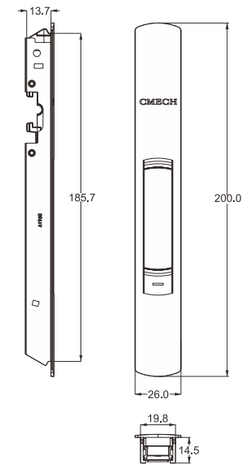
Drill Hole Drawing



GLIDING WINDOW HARDWARE

P010026

Bump Lock Recessed Pull Handle



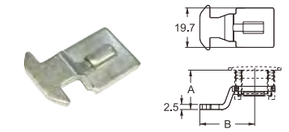
M Treatment

Silver 01 | Champagne 02 | Gold 11 | Bronze 12

Powder Coating

White 09 | Black 10 | Mat Black 17

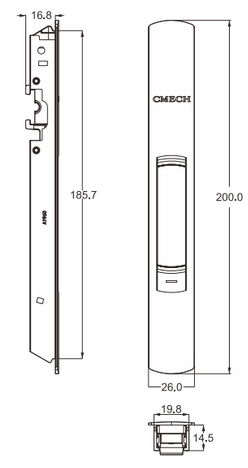
Hook Lock



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

P010027

Bump Lock Recessed Pull Handle



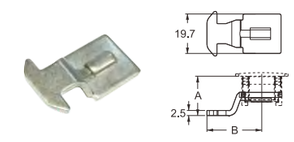
M Treatment

Silver 01 | Champagne 02 | Gold 11 | Bronze 12

Powder Coating

White 09 | Black 10 | Mat Black 17

Hook Lock

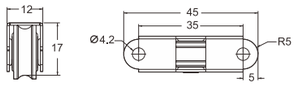


P/N	Specifications	
	A	B
P110002	19.5 mm	27.1 mm
P110003	17.5 mm	29.1 mm
P110004	15.5 mm	31.1 mm
P110005	22.5 mm	24.1 mm
P110006	14.5 mm	31.1 mm
P110007	19.5 mm	35.1 mm
P110008	14.5 mm	23.1 mm
P110009	14.0 mm	24.2 mm
P110011	15.0 mm	21.2 mm
P110013	15.0 mm	24.2 mm
P110014	15.0 mm	27.2 mm
P110015	17.0 mm	20.2 mm

GLIDING WINDOW HARDWARE

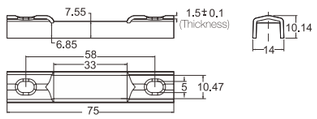
P050001

Roller-1215-17-R2.5-60 kg



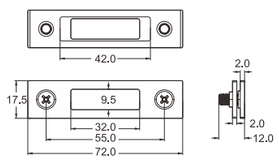
P100001

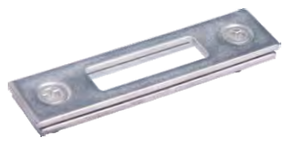
Locking Bracket



P100005

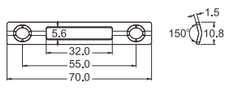
Clip Bracket





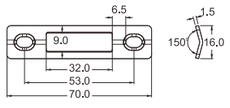
P100006

10V Bracket



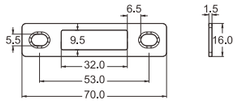
P100007

16V Bracket

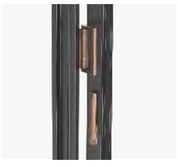


P100008

16 Flat Bracket



Bi-Folding Door Hardware

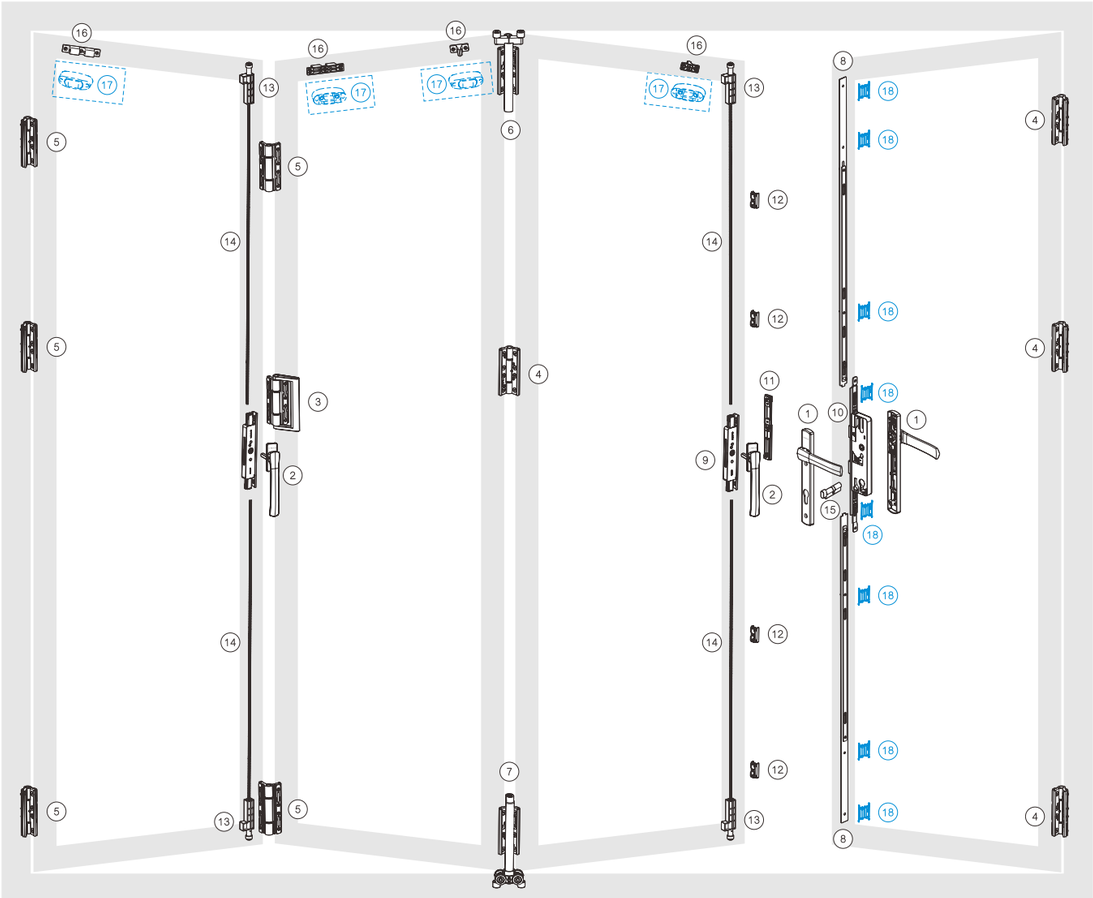


- The rollers are made of high quality stainless steel and special wear-resisting material, with high load-bearing, anti-fracture, longevity and light moving operation force
- Hinge has double anti-burglar function (metal end cover and internal anti-burglar pin) with adjustable and fixed series, which 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

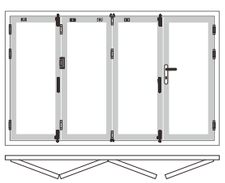
Bi-Folding Door		Applicable Range
Sash Width (Single)	(mm)	500-900
Sash Height (Single)	(mm)	1,900-3,500
Load-bearing	(kg)	≤120

BI-FOLDING DOOR HARDWARE SERIES

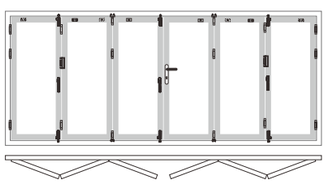
431 Configuration



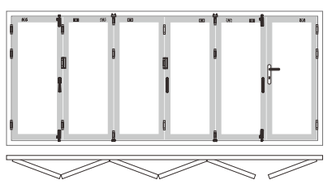
Door Configurations



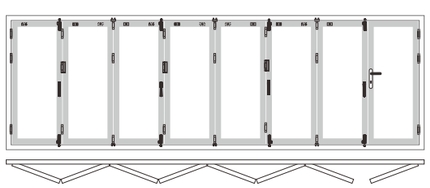
431



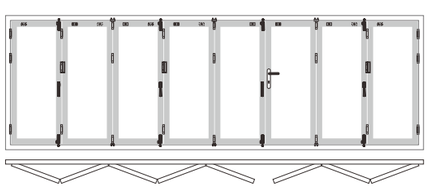
633



651



871



853

BI-FODING DOOR HARDWARE SERIES

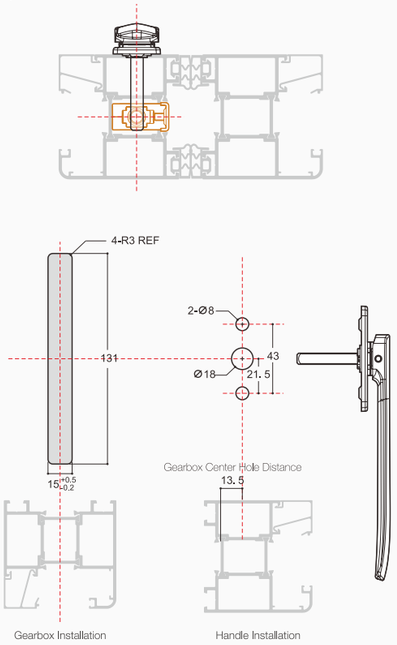
Configuration Table

No.	Description	P/N	Qty					Notes
			431	633	651	871	853	
1	Flat Handle Set (with Cylinder)	G010005	1	1	1	1	1	Casement Sash
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
3	Fixed Hinge with Handle	G040002	1	2	2	3	3	
4	Adjustable Hinge	G040001	4	2	4	4	2	
5	Fixed Hinge	G040003	5	10	8	11	13	
6	Guide Roller	G050002	1	2	2	3	3	
7	Weight Bearing Roller	G050001	1	2	2	3	3	
8	Pry-Resistant Espagnolette Bolt with Bearing	G020004 G020002 G020003	2	2	2	2	2	1,200 mm 960 mm 1,080 mm
9	Spindle Drive Gearbox	G020001	2	3	3	4	4	
10	Multi-Point Lock Body	D030037 D030036	1	1	1	1	1	22×330×33 Multi-Point Lock Body (V2.0, Used with a Steel Transmission Rod) 22×330×28 Multi-Point Lock Body (V2.0, Used with a Steel Transmission Rod)
11	Adjustable Main Strike	G100001 G100002	1	1	1	1	1	Suitable for Thermal Aluminum Profiles Suitable for Non-Thermal Aluminum Profiles
12	Pry-Resistant Keepers	A100116	4	4	4	4	4	
13	Shootbolt	G070001	4	6	6	8	8	
14	Shootbolt Connecting Rod	G020005 G020007	4	6	6	8	8	L=1500 mm L=2000 mm
15	Cylinder		1	1	1	1	1	
16	Adjustable Panel Stop	G080002	2	4	4	6	6	
17	Magnetic Panel Stop	G080001	2	4	4	6	6	
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
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	4	6	6	8	8	Suitable for G010008, M5×45 mm Cross Countersunk Head Self-Tapping Screws Suitable for G010006, M5×35 mm Cross Countersunk Head Self-Tapping Screws Suitable for G010007, M5×40 mm Cross Countersunk Head Self-Tapping Screws Suitable for G010009, M5×50 mm Cross Countersunk Head Self-Tapping Screws
21	Handle Screw Pack	G110008 D000082	1	1	1	1	1	Suitable for G010010 M5×63 Suitable for G010005
22	Handle Spindle Screw Pack	D000062	1	1	1	1	1	Suitable for G010005

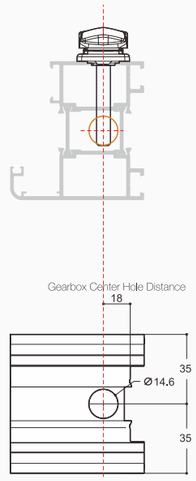
PROFILE AND DRILLING REQUIREMENTS

Flat Handle, Bi-Directional Gearbox Drill Hole Drawing

Flat Handle+Spindle Drive Gearbox

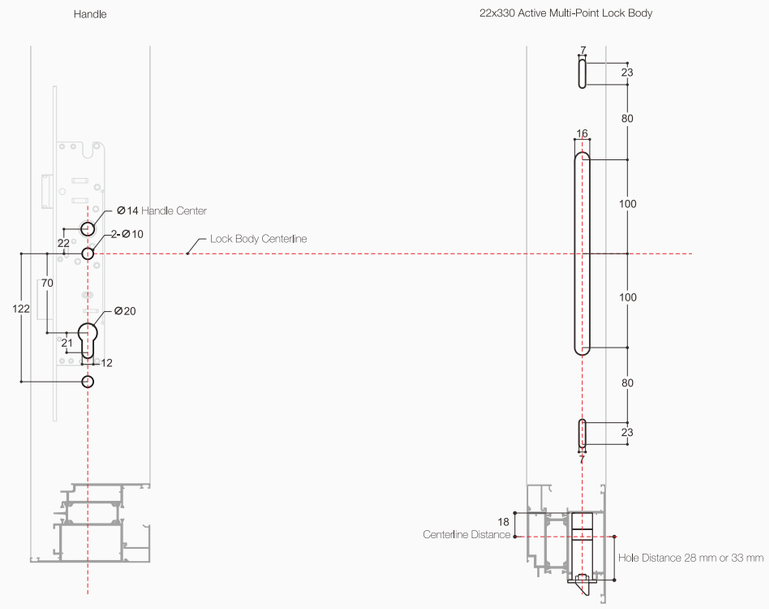


Shootbolt Drill Hole Drawing



Upper and lower sash drill holes for Shootbolt installation on handle side.
The Shootbolt Strike shall be pre-assembled in the sash.

Drill Hole Drawing



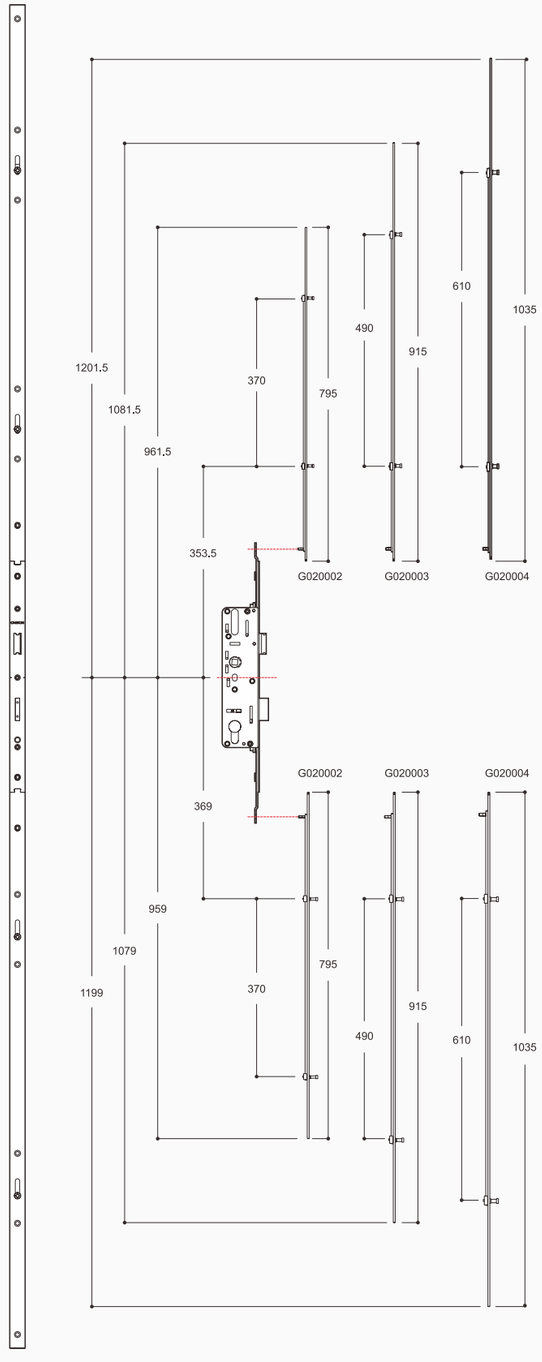
ESPAGNOLETTE BOLT SELECTION

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

Espagnolette Bolt Measurements

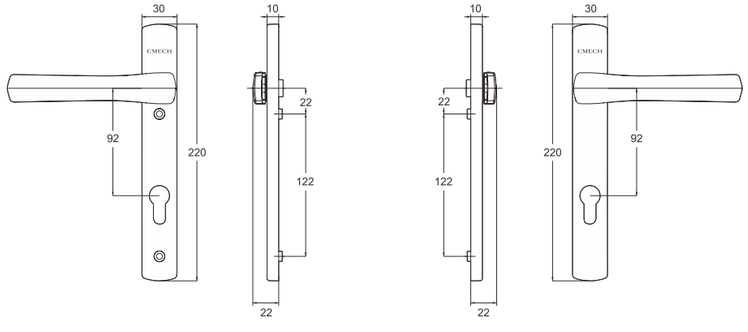
P/N	Specifications	Description
G020002	22x960 mm	Lock Point with Bearing
G020003	22x1,080 mm	Lock Point with Bearing
G020004	22x1,200 mm	Lock Point with Bearing

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



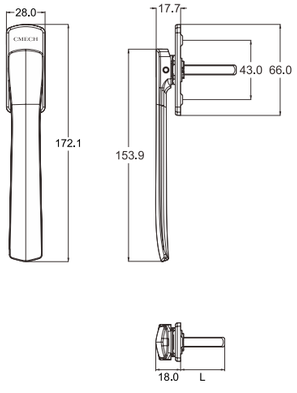
M Treatment

Silver 01 | Champagne 02 | Gold 11 | Bronze 12

Powder Coating

White 09 | Black 10 | Mat Black 17

FLAT HANDLE



P/N	L
G010006-	32
G010007-	37
G010008-	42
G010009-	47
G010010-	60

M Treatment

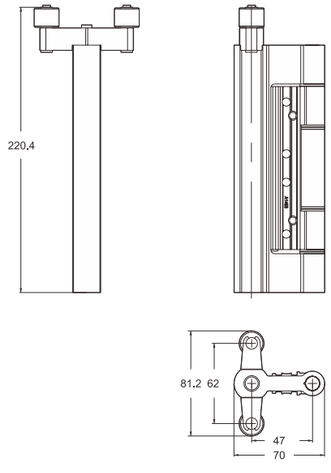
Silver 01 | Champagne 02 | Gold 11 | Bronze 12

Powder Coating

White 09 | Black 10 | Mat Black 17

HINGES

G050002
Guide Roller



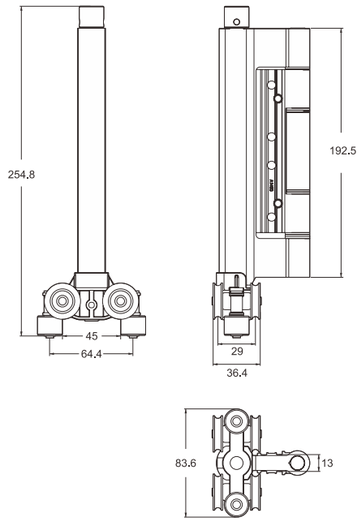
M Treatment

Silver 01 | Champagne 02 | Gold 11 | Bronze 12

Powder Coating

White 09 | Black 10 | Mat Black 17

G050001
Weight Bearing Roller



M Treatment

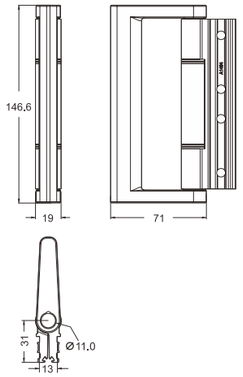
Silver 01 | Champagne 02 | Gold 11 | Bronze 12

Powder Coating

White 09 | Black 10 | Mat Black 17

HINGES

G040002
Fixed Hinge with Handle



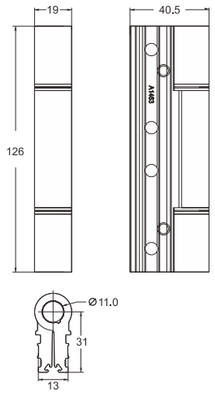
M Treatment

Silver	Champagne	Gold	Bronze
01	02	11	12

Powder Coating

White	Black	Mat Black
09	10	17

G040001
Adjustable Hinge



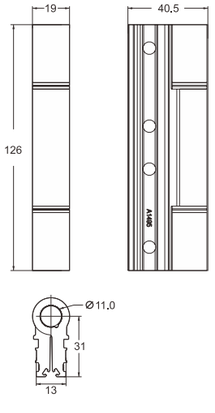
M Treatment

Silver	Champagne	Gold	Bronze
01	02	11	12

Powder Coating

White	Black	Mat Black
09	10	17

G040003
Fixed Hinge



M Treatment

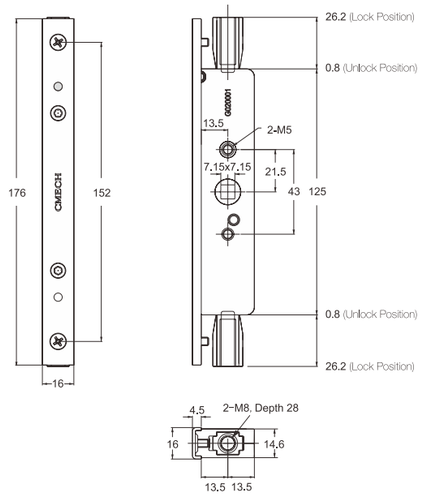
Silver	Champagne	Gold	Bronze
01	02	11	12

Powder Coating

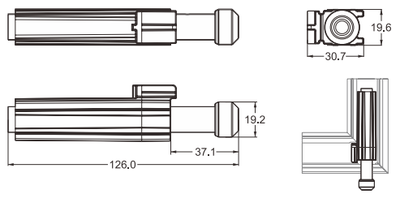
White	Black	Mat Black
09	10	17

SHOOT BOLT

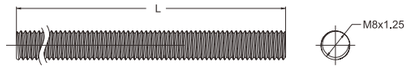
G020001
Spindle Drive Gearbox



G070001
Shootbolt



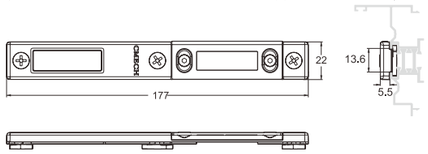
Shootbolt Connecting Rod



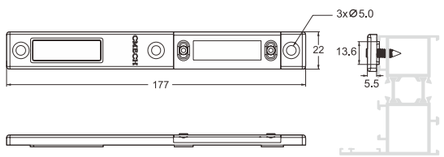
P/N	L	Instructions
G020005	1500 mm	Standard Configuration
G020007	2000 mm	Optionall
-	Others	Customization

LOCKING HARDWARE

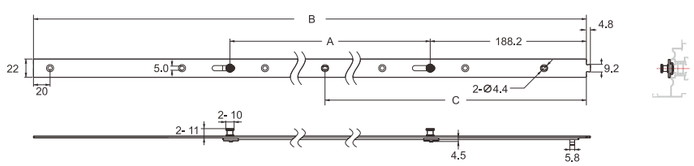
G100001
Adjustable Main Strike
(Suitable for Thermal Aluminum Profiles, Supplied Screw Pack)



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

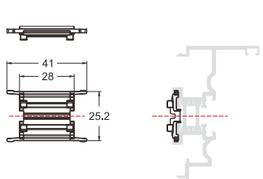


Pry-Resistant Espagnolette Bolt with Bearing



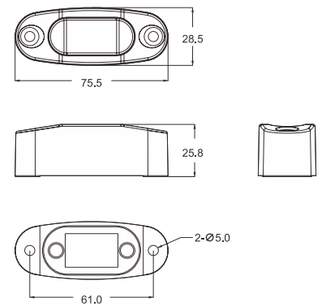
P/N	Specifications			Instructions
	A	B	C	
G020002	370 mm	795 mm	-	304SS
G020003	490 mm	915 mm	441 mm	304SS
G020004	610 mm	1,035 mm	501 mm	304SS

G120001
Espagnolette Bolt Back Plate

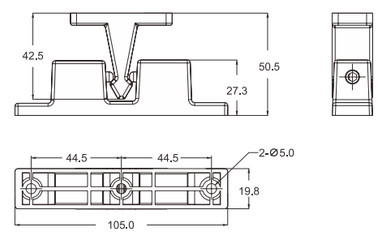


PANEL STOP

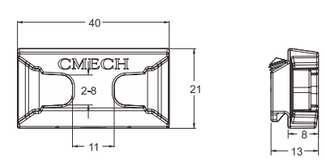
G080001
Magnetic Panel Stop



G080002
Adjustable Panel Stop



A100116
Pry-Resistant Keepers



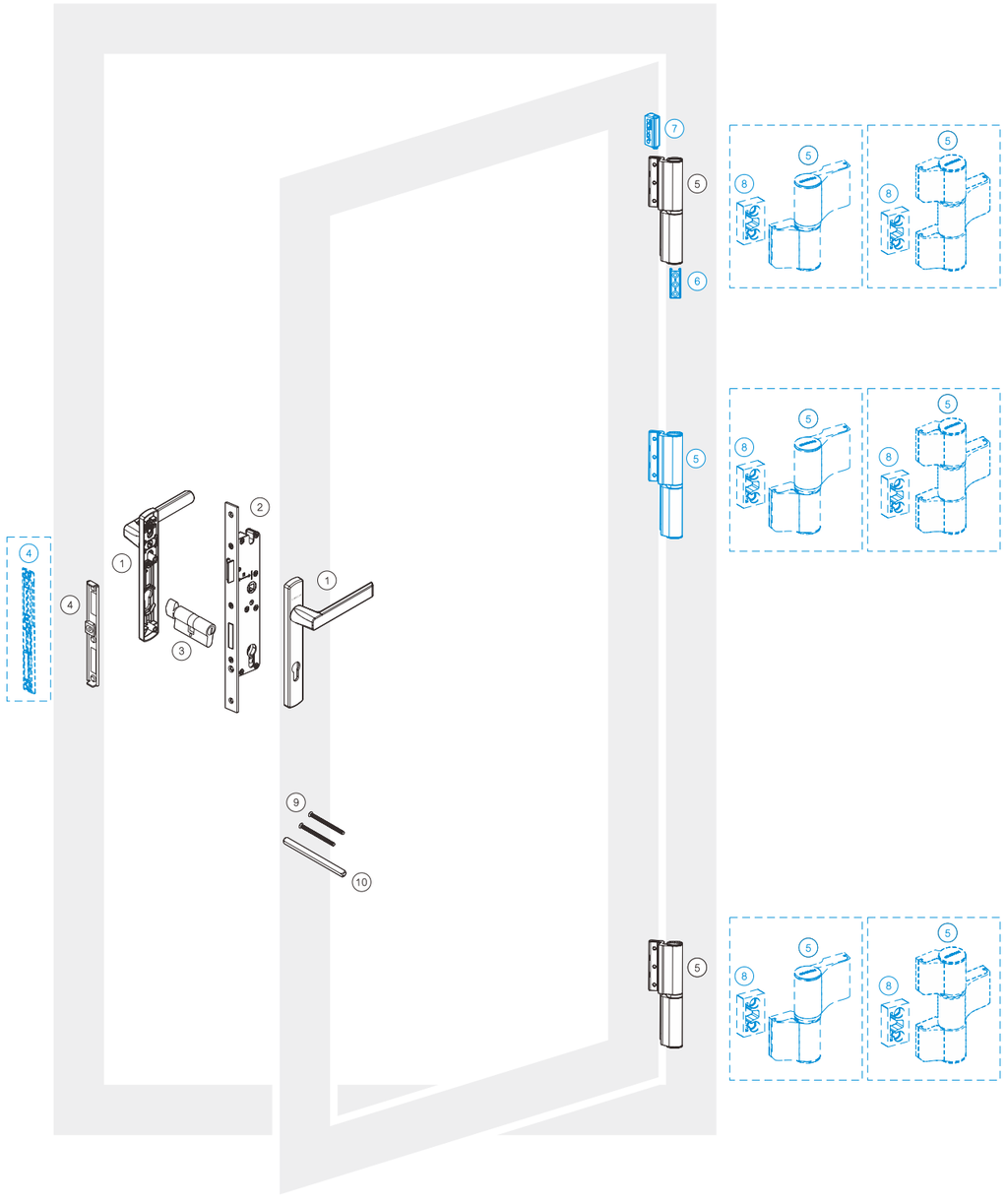
Hinged Door Hardware

- 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



CMECH

HINGED DOOR HARDWARE SERIES

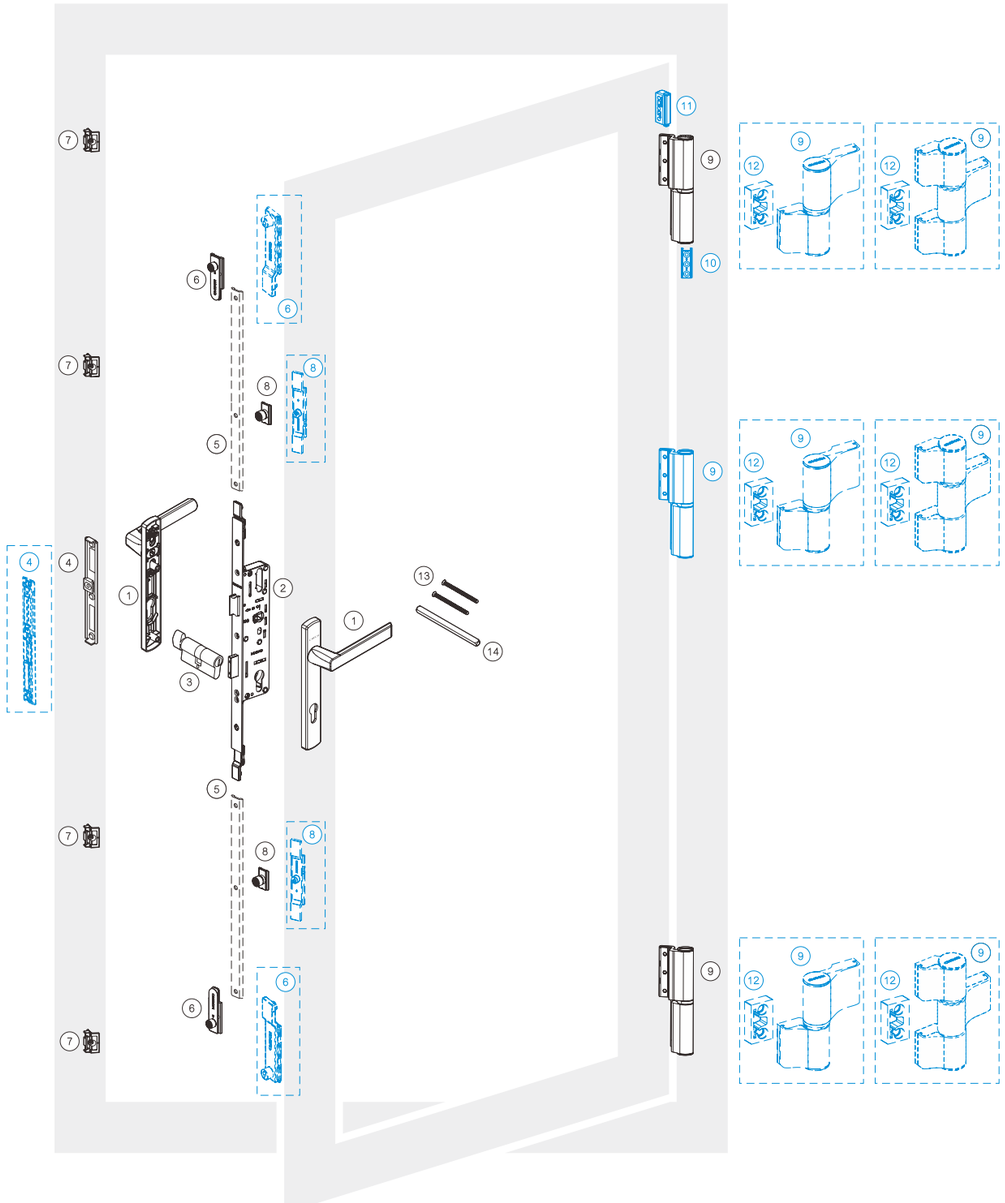
Configuration Table - Single-Panel with Single-Point Lock

No.	Description	P/N	Qty	Notes
1	Spindle Drive Handle (Type D)	D010601 D010433 D010233 D010133 D010602 D010434 D010234 D010134	1	Milan Handle with Cylinder Berlin Handle with Cylinder Koln Handle with Cylinder New York Handle with Cylinder Milan Handle without Cylinder Berlin Handle without Cylinder Koln Handle without Cylinder New York Handle without Cylinder
2	Lock Body	D030040 D030041	1	Lock Distance: 28 mm, Plate: 22x300 mm Lock Distance: 33 mm, Plate: 22x300 mm
3	Cylinder		1	
4	Adjustable Strike	D100012 G100001 G100002	1	
5	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
6	Anti Slide Clamping Block	D000049	1	Suitable for 120 kg Reinforced Hinge
7	Sash Height Adjusting Block	D000007	1	Suitable for 120 kg Reinforced Hinge
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
9	Handle Screw Pack		1	
10	Spindle Screw Pack		1	

*Flat Handle is Available

HINGED DOOR HARDWARE SERIES

Single-Panel with Multi-Point Lock + Connecting Strip Configuration



HINGED DOOR HARDWARE SERIES

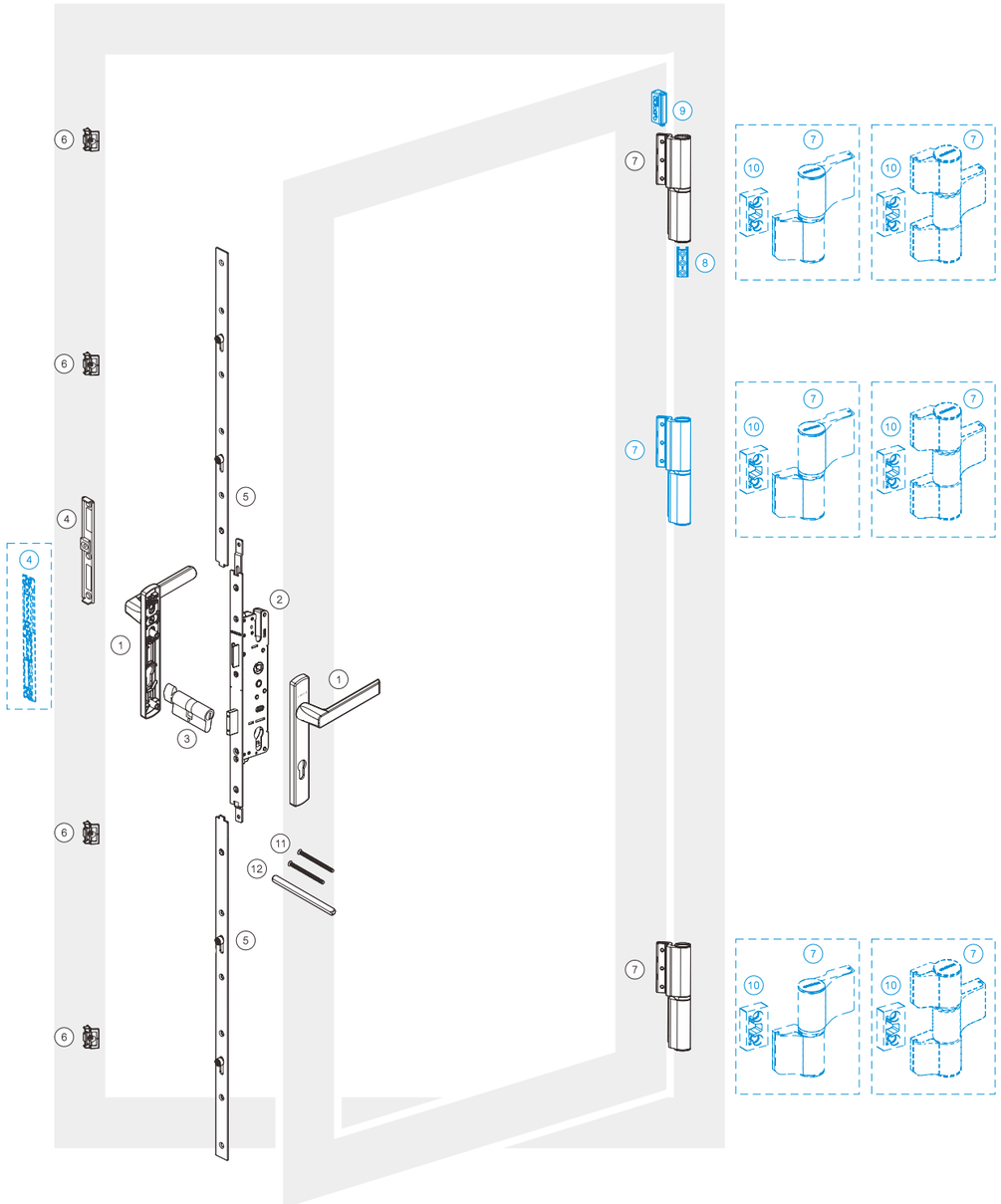
Configuration Table - Single-Panel with Multi-Point Lock + Connecting Strip

No.	Description	P/N	Qty	Notes
1	Spindle Drive Handle (Type D)	D010601 D010433 D010233 D010133 D010602 D010434 D010234 D010134	1	Milan Handle with Cylinder Berlin Handle with Cylinder Koln Handle with Cylinder New York Handle with Cylinder Milan Handle without Cylinder Berlin Handle without Cylinder Koln Handle without Cylinder New York Handle without Cylinder
2	Lock Body	D030038 D030039 D030042	1	Lock Distance: 28 mm, Plate: 22x395 mm Lock Distance: 33 mm, Plate: 22x395 mm Lock Distance: 38 mm, Plate: 22x395 mm
3	Cylinder		1	
4	Adjustable Strike	D100012 G100001 G100002	1	
5	Connecting Strip			Provided by Customer or Cmech
6	Lock Point	A090001 A090005 A090007 A090008	2	Ø9.5x6.0 mm Ø9.5x7.0 mm End Lock Point Ø9.5x6.0 mm End Lock Point Ø9.5x7.0 mm
7	Keeper	A100127 A100122	2~4	Keeper Pry-Resistant Keeper with Bearing
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
9	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
10	Anti Slide Clamping Block	D000049	1	Suitable for 120 kg Reinforced Hinge
11	Sash Height Adjusting Block	D000007	1	Suitable for 120 kg Reinforced Hinge
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
13	Handle Screw Pack		1	
14	Spindle Screw Pack		1	

*Flat Handle is Available

HINGED DOOR HARDWARE SERIES

Single-Panel with Multi-Point Lock + Espagnolette Bolt Configuration



HINGED DOOR HARDWARE SERIES

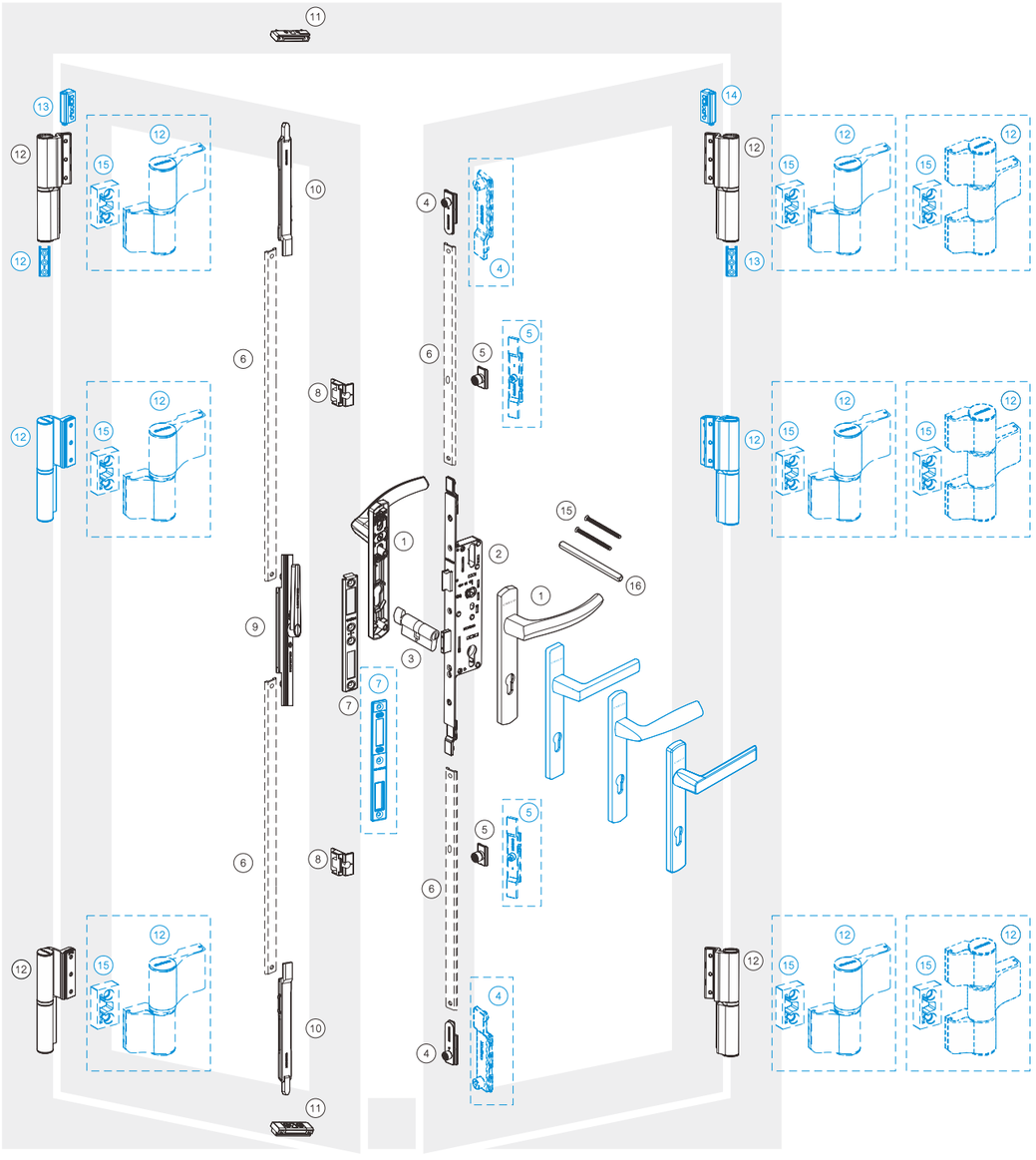
Configuration Table - Single-Panel with Multi-Point Lock + Espagnolette Bolt

No.	Description	P/N	Qty	Notes
1	Spindle Drive Handle (Type D)	D010601 D010433 D010233 D010133 D010602 D010434 D010234 D010134	1	Milan Handle with Cylinder Berlin Handle with Cylinder Koln Handle with Cylinder New York Handle with Cylinder Milan Handle without Cylinder Berlin Handle without Cylinder Koln Handle without Cylinder New York Handle without Cylinder
2	Lock Body	D030036 D030037	1	Lock Distance: 28 mm, Plate: 22x330 mm Lock Distance: 33 mm, Plate: 22x330 mm
3	Cylinder		1	
4	Adjustable Strike	D100012 G100001 G100002	1	
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
6	Keeper	A100127	2~4	
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
8	Anti Slide Clamping Block	D000049	1	Suitable for 120 kg Reinforced Hinge
9	Sash Height Adjusting Block	D000007	1	Suitable for 120 kg Reinforced Hinge
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
11	Handle Screw Pack		1	
12	Spindle Screw Pack		1	

*Flat Handle is Available

HINGED DOOR HARDWARE SERIES

Double-Panel with Multi-Point Lock + Connecting Strip Configuration



CMECH

HINGED DOOR HARDWARE SERIES

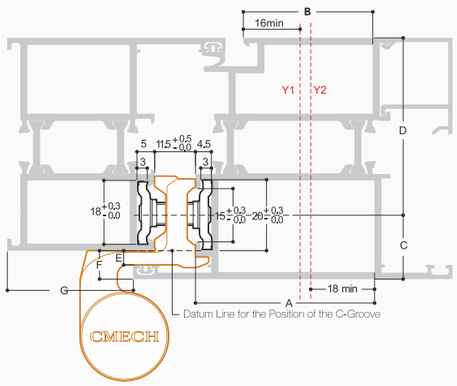
Configuration Table - Double-Panel with Multi-Point Lock + Connecting Strip

No.	Description	P/N	Qty	Notes
1	Spindle Drive Handle (Type D)	D010601 D010433 D010233 D010133 D010602 D010434 D010234 D010134	1	Milan Handle with Cylinder Berlin Handle with Cylinder Koln Handle with Cylinder New York Handle with Cylinder Milan Handle without Cylinder Berlin Handle without Cylinder Koln Handle without Cylinder New York Handle without Cylinder
2	Lock Body	D030038 D030039 D030042	1	Lock Distance: 28 mm, Plate: 22x395 mm Lock Distance: 33 mm, Plate: 22x395 mm Lock Distance: 38 mm, Plate: 22x395 mm
3	Cylinder		1	
4	Lock Point	A090001 A090005 A090007 A090008	2	Ø9.5x6.0 mm Ø9.5x7.0 mm End Lock Point Ø9.5x6.0 mm End Lock Point Ø9.5x7.0 mm
5	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
6	Connecting Strip			Provided by Customer or Cmech
7	Adjustable Strike	D100012 G100001 G100002	1	
8	Keeper	A100127 A100122	2~4	Keeper Pry-Resistant Keeper with Bearing
9	Bi Directional Shootbolt Connector	D070010 D070011	1	
10	Shootbolt	A070001 A070003 D070012	2	19.6 mmx156 mm 19.6 mmx90 mm
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
12	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
13	Anti Slide Clamping Block	D000049	1	Suitable for 120 kg Reinforced Hinge
14	Sash Height Adjusting Block	D000007	1	Suitable for 120 kg Reinforced Hinge
15	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
16	Handle Screw Pack		1	
17	Spindle Screw Pack		1	

*Flat Handle is Available

HINGED DOOR PROFILE AND DRILLING REQUIREMENTS

Hinged Door with a C-Groove Profile Diagram
Single Panel



Relationship Between Profile and Hardware:

A: Determines the maximum width allowable for the lock body

A & B: Determines the horizontal hole spacing of the lock body as well as the allowable width of the handle plate, with the centerline of the holes of the chosen lock body requiring to be between lines Y1 and Y2

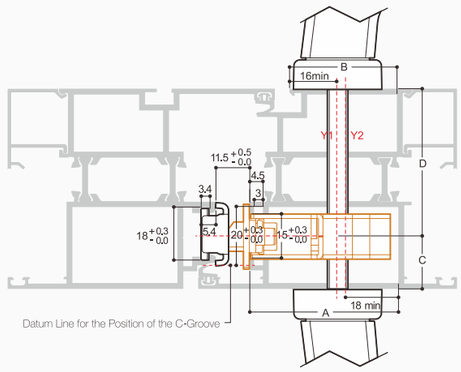
C & D: Determines the length of the spindle, the length of the cylinder, and the size ratio

E: The hinge channels determine the wall thickness of the hinge (does not affect the flush-fit hinge)

F: Determines the hole spacing of the hinge or the gasket thickness of the flush-fit hinge

G: Determines the permitted width and hole spacing of the lower hinge mounting for the flush-fit hinge

Hinged Door with a C-Groove Profile Diagram
Double Panel



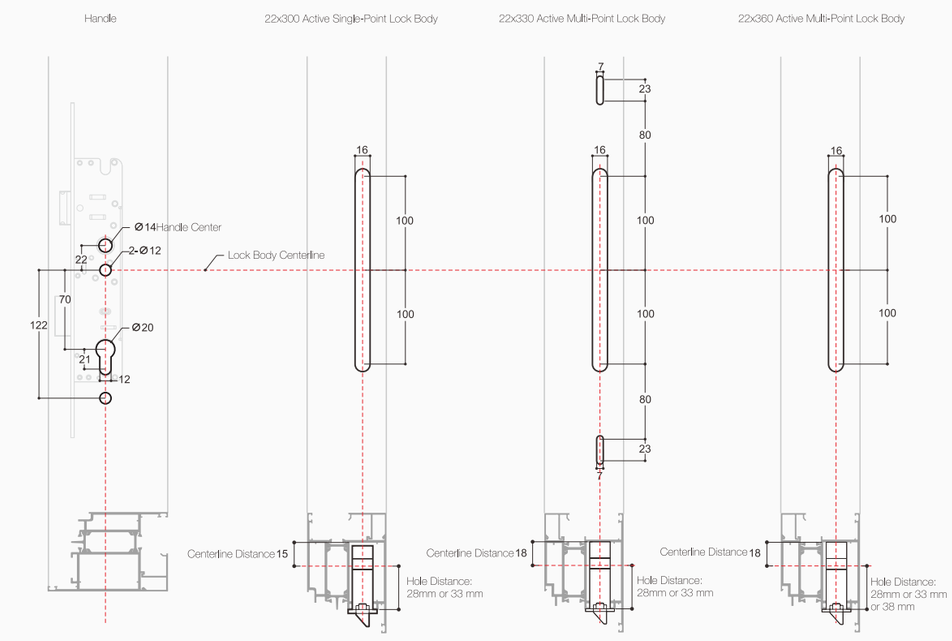
Relationship Between Profile and Hardware:

A: Determines the maximum width allowable for the lock body

A & B: Determines the horizontal hole spacing of the lock body as well as the allowable width of the handle plate, with the centerline of the holes for the chosen lock body requiring to be between lines Y1 and Y2

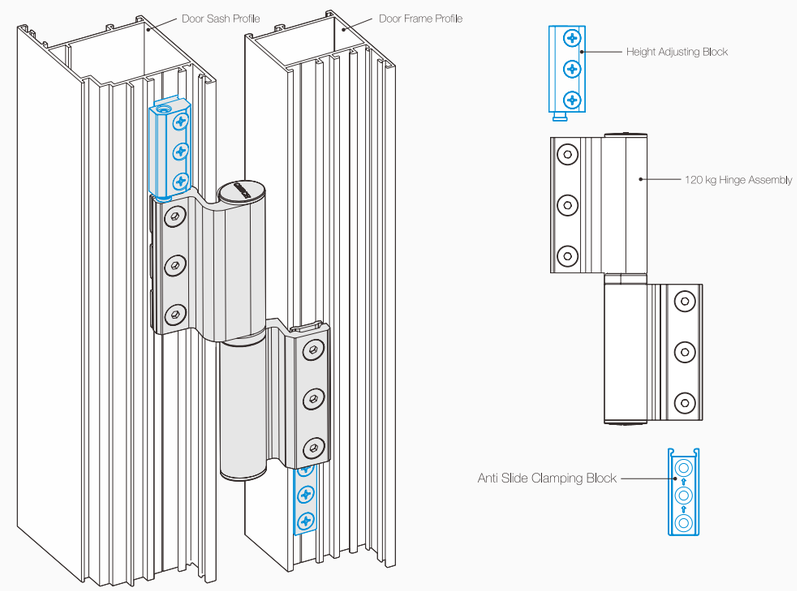
C & D: Determines the length of the spindle, the length of the cylinder, and the size ratio

Drill Hole Drawing

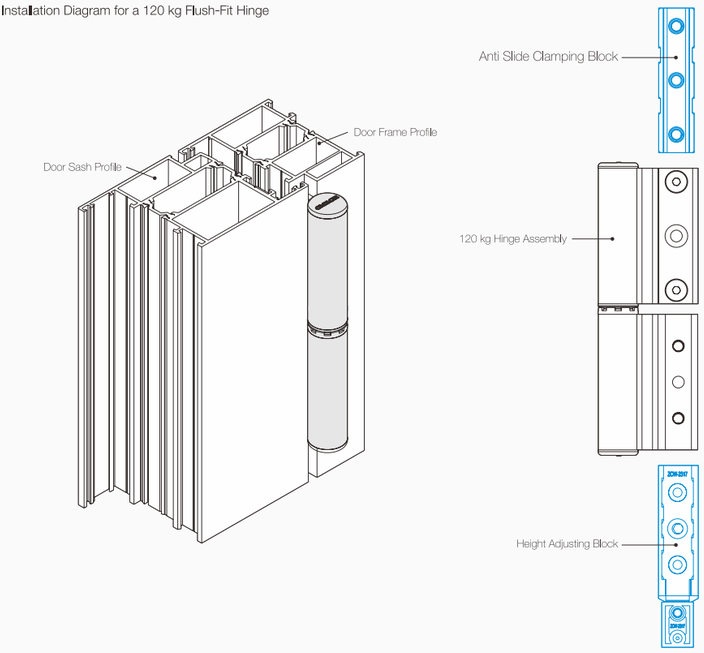


HINGE INSTALLATION INSTRUCTIONS

Installation Diagram for a 120 kg Reinforced Hinge

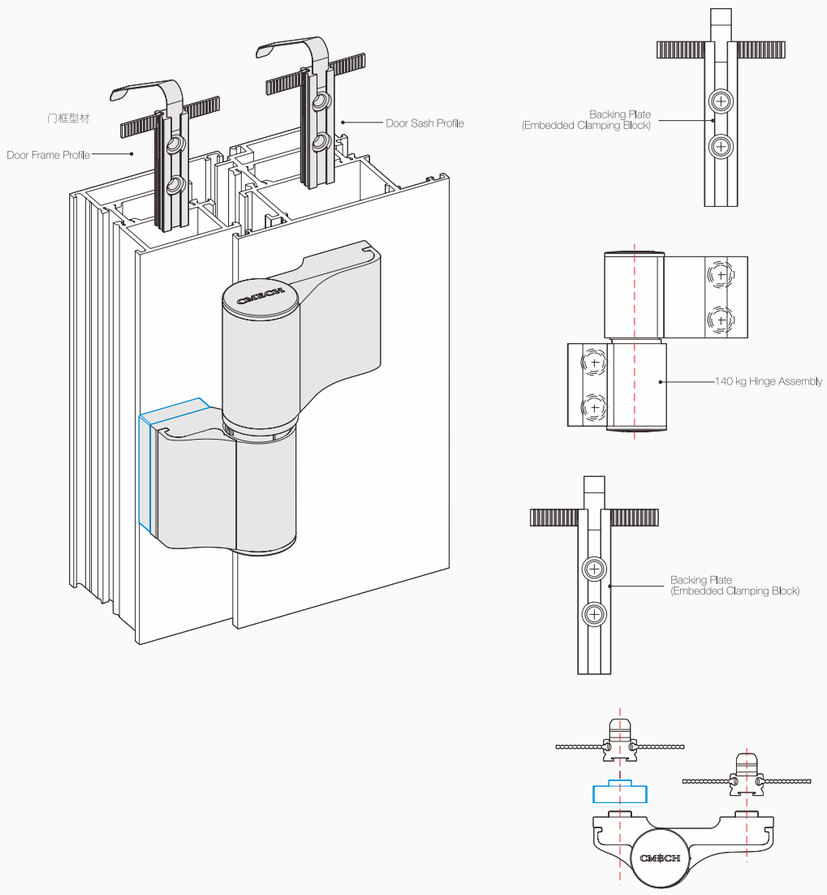


Installation Diagram for a 120 kg Flush-Fit Hinge



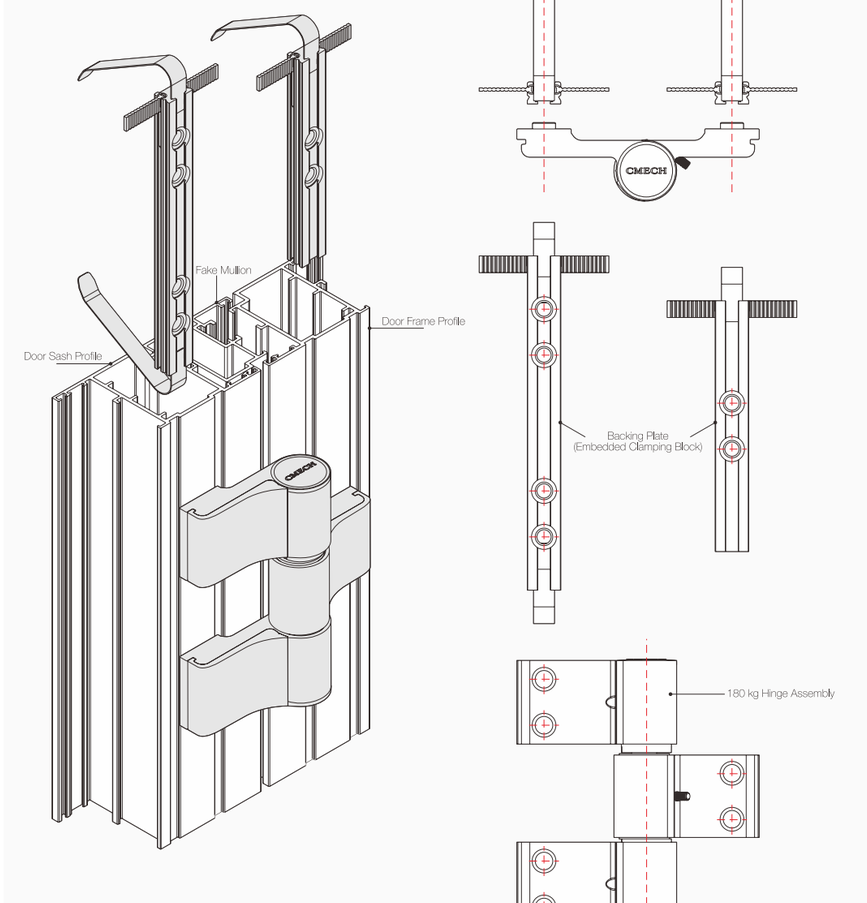
HINGE INSTALLATION INSTRUCTIONS

Installation Diagram for a 140 kg Flush-Fit Hinge



HINGE INSTALLATION INSTRUCTIONS

Installation Diagram for a 180 kg Flush-Fit Hinge



CONNECTING STRIP CUTTING AND DRILLING INSTRUCTIONS

(For a 22x359 Active Multi-Point Lock Body)

1. Dimensions for Aluminum Connecting Strip

L1=A-199

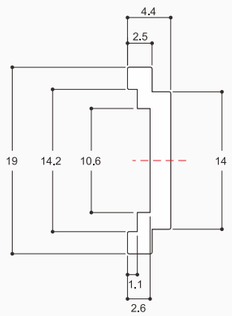
L2=B-199-37

L3=C-215

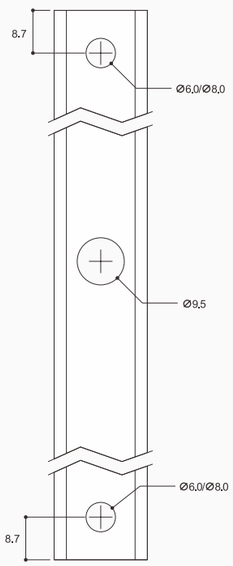
L4=D-215-37

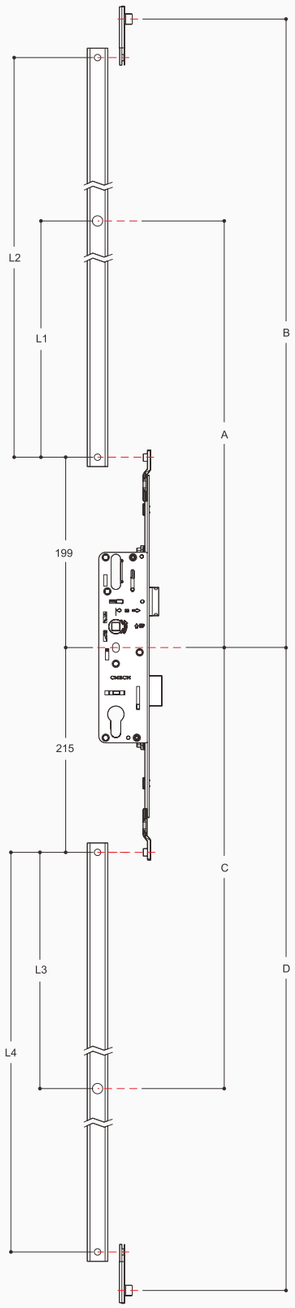
(Note: The Sizes of A, B, C, D are Chosen by Door Manufacturer)

2. Sectional View of Aluminum Connecting Strip



3. Drill Hole Drawing for Aluminum Connecting Strip





ESPAGNOLETTE BOLT SELECTION

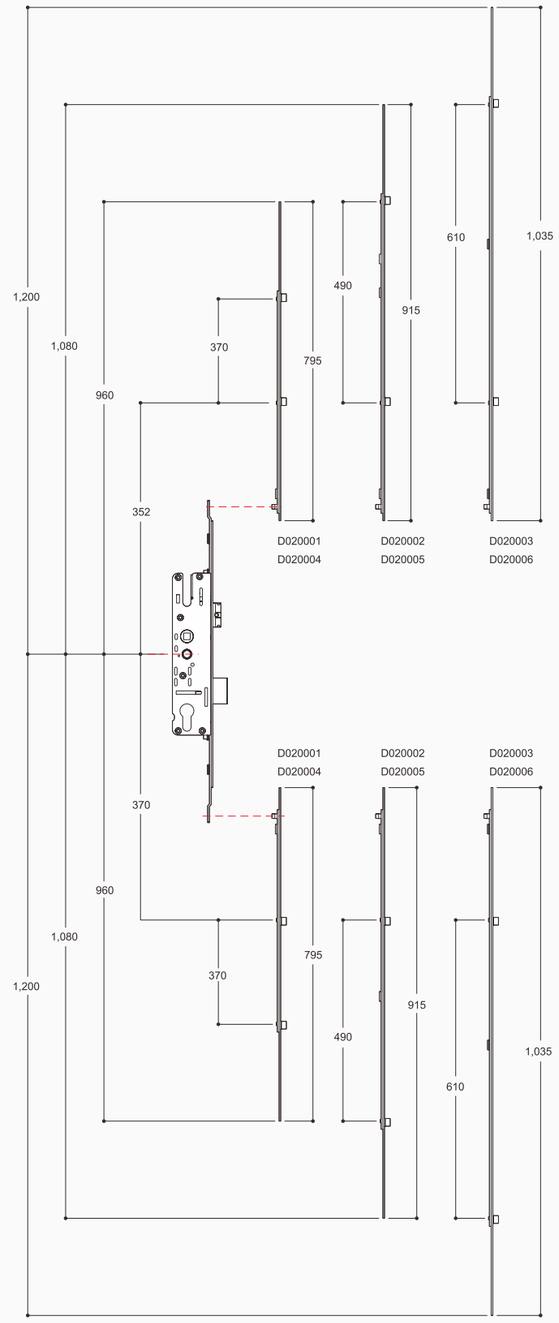
(For a 22x330 Active Multi-Point Lock Body)

Espagnolette Bolt Measurements

P/N	Spec/mm	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.

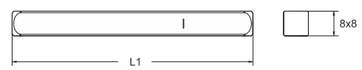


SPINDLE SELECTION

P/N	Specifications
D000051	32 mm
D000052	35 mm
D000053	38 mm
D000054	41 mm
D000055	46 mm
D000056	51 mm
D000057	55 mm
D000058	57 mm
D000059	60 mm

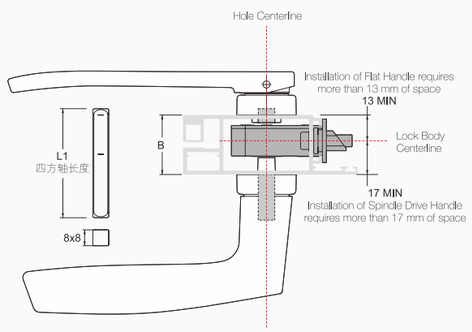
P/N	Specifications
D000060	65 mm
D000061	70 mm
D000062	75 mm
D000063	80 mm
D000064	85 mm
D000065	90 mm
D000066	95 mm
D000067	100 mm
D000068	105 mm

P/N	Specifications
D000069	110 mm
D000070	115 mm
D000071	125 mm
D000072	135 mm
D000090	120 mm
D000091	130 mm
D000092	150 mm
D000094	140 mm
D000095	145 mm



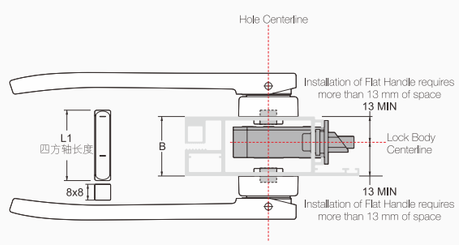
Formula for Calculating the Spindle Length:

A. Flat handle matched with Spindle Drive Handle



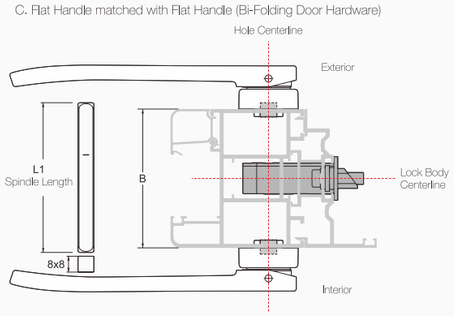
Formula for Calculating the Spindle Length:
B --- Profile Sash Thickness
L1 --- Spindle Length
L1 = B+30
L1 Size Range: +0.5, -2.0
Select the required lengths of the standard parts according to the Size L1.
If unavailable, they will need to be customized.

B. Flat Handle matched with Flat Handle



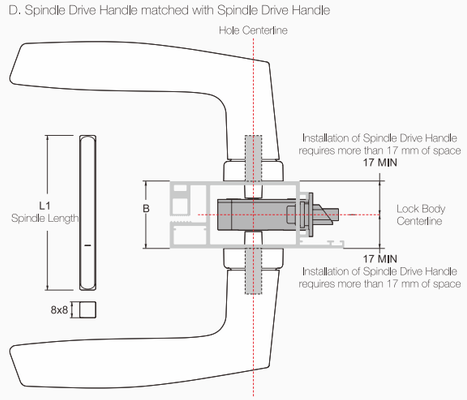
Formula for Calculating the Spindle Length:
B --- Profile Sash Thickness
L1 --- Spindle Length
L1 = B+19
L1 Size Range: +0.5, -2.0
Select the required lengths of the standard parts according to the Size L1.
If unavailable, they will need to be customized.

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

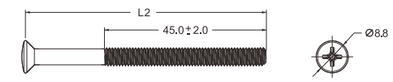


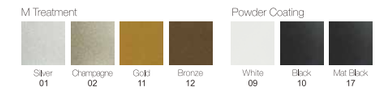
Formula for Calculating the Spindle Length:
B --- Profile Sash Thickness
L1 --- Spindle Length
L1 = B+40
L1 Size Range: +1.5, -4.0
Select the required lengths of the standard parts according to the Size L1.
If unavailable, they will need to be customized.

SCREW PACK SELECTION

P/N	Specifications
D000073	40 mm
D000074	45 mm
D000075	47.5 mm
D000076	50 mm
D000077	52.5 mm
D000078	55 mm
D000079	60 mm
D000080	65 mm
D000081	70 mm

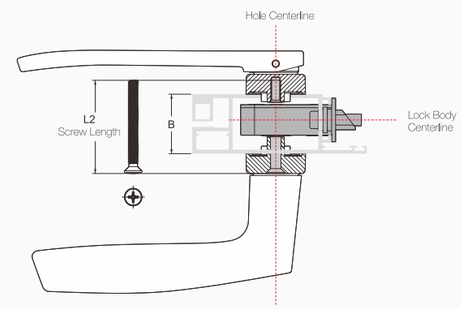
P/N	Specifications
D000082	75 mm
D000083	80 mm
D000084	85 mm
D000085	90 mm
D000086	95 mm
D000087	100 mm
D000088	105 mm
D000089	110 mm
D000096	115 mm
D000097	120 mm





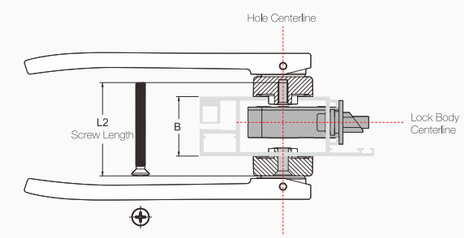
Formula for Calculating the Screw Length:

A. Exterior Flat Handle matched with interior Spindle Drive Handle



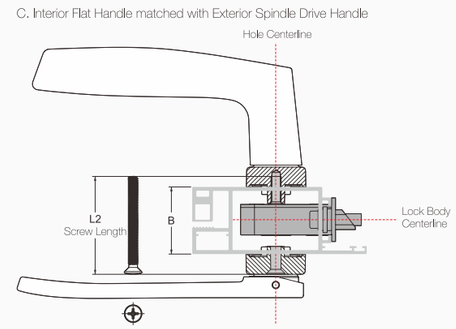
Formula for Calculating the Screw Length:
B --- Profile Sash Thickness
L2 --- Screw Length
L2 = B+16.5
L2 Size Range: +0.5, -3.0
Select the required lengths of the standard parts according to the Size L2.
If unavailable, they will need to be customized.

B. Exterior Flat Handle matched with Interior Flat Handle



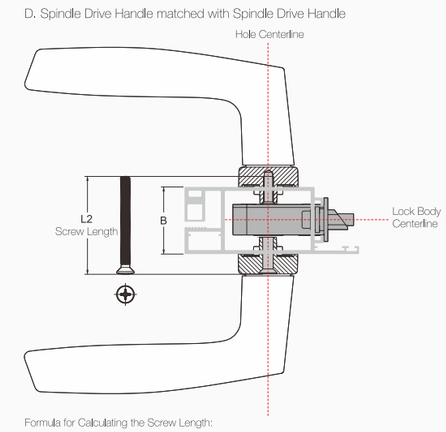
Formula for Calculating the Screw Length:
B --- Profile Sash Thickness
L2 --- Screw Length
L2 = B+16.5
L2 Size Range: +0.5, -3.0
Select the required lengths of the standard parts according to the Size L2.
If unavailable, they will need to be customized.

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.

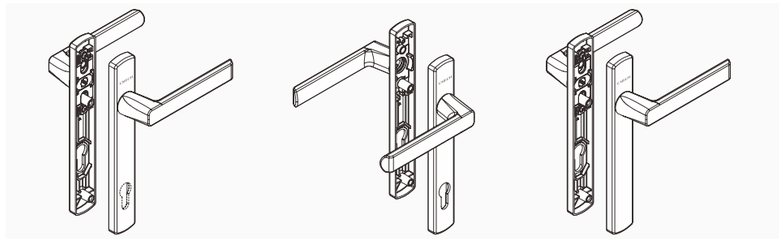
D. Spindle Drive Handle matched with Spindle Drive Handle



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)

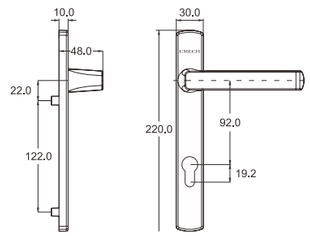
P/N	Description
D010605-	Single Side without Cylinder (Interior)
D010606-	Single Side without Cylinder (Exterior)

M Treatment

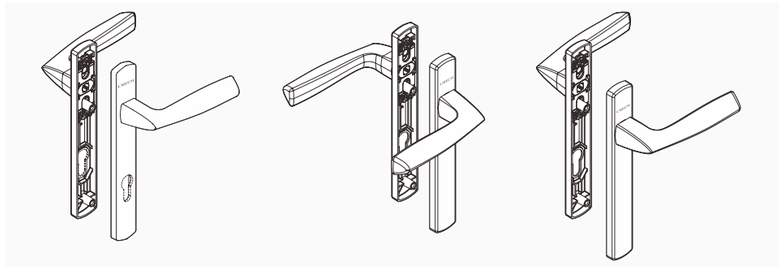
Silver 01 | Champagne 02 | Gold 11 | Bronze 12

Powder Coating

White 09 | Black 10 | Mat Black 17



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)

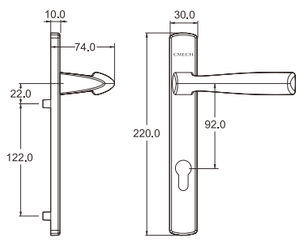
P/N	Description
D010431-	Single Side Fixed without Cylinder (Right Handle, Exterior)
D010432-	Single Side Fixed without Cylinder (Left Handle, Interior)

M Treatment

Silver 01 | Champagne 02 | Gold 11 | Bronze 12

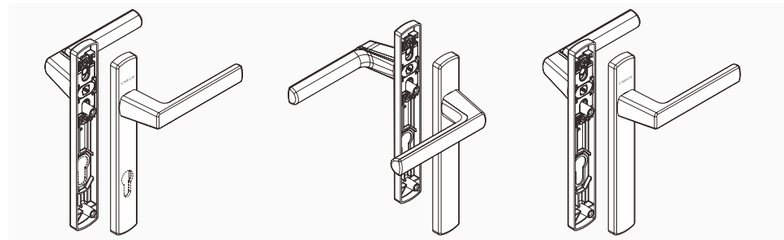
Powder Coating

White 09 | Black 10 | Mat Black 17



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)

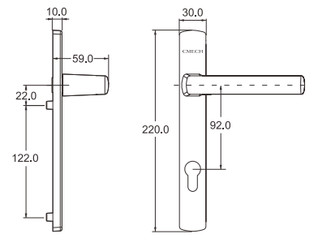
P/N	Description
D010231-	Single Side Fixed without Cylinder (Right Handle, Exterior)
D010232-	Single Side Fixed without Cylinder (Left Handle, Interior)

M Treatment

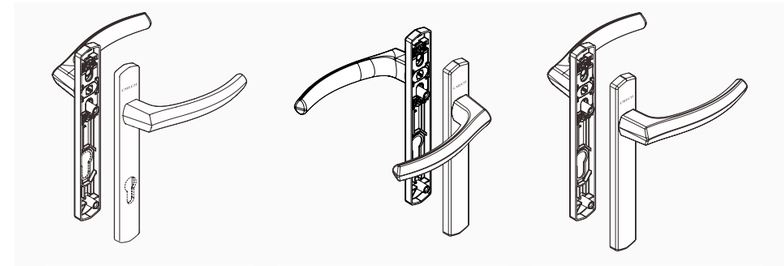
Silver 01 | Champagne 02 | Gold 11 | Bronze 12

Powder Coating

White 09 | Black 10 | Mat Black 17



NEW YORK SERIES
Spindle Drive Handle (Type D)



P/N	Description
D010133-	Double Side with Cylinder
D010134-	Double Side without Cylinder

P/N	Description
D010129-	Single Side Fixed without Cylinder (Left Handle, Exterior)
D010130-	Single Side Fixed without Cylinder (Right Handle, Interior)

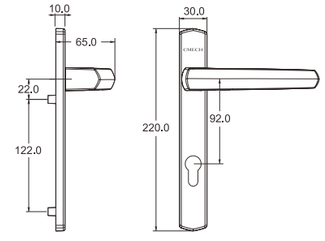
P/N	Description
D010131-	Single Side Fixed without Cylinder (Right Handle, Exterior)
D010132-	Single Side Fixed without Cylinder (Left Handle, Interior)

M Treatment

Silver 01 | Champagne 02 | Gold 11 | Bronze 12

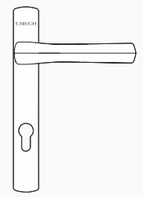
Powder Coating

White 09 | Black 10 | Mat Black 17

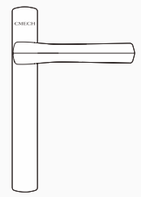


HANDLE SELECTIONS

FLAT HANDLE



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



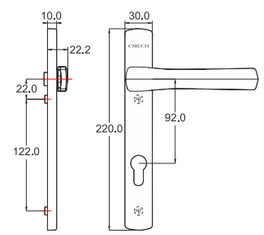
P/N	Description
D010445-	Single Side without Cylinder (Interior)
D010446-	Single Side without Cylinder (Exterior)

M Treatment

Silver	Champagne	Gold	Bronze
01	02	11	12

Powder Coating

White	Black	Mat Black
09	10	17



DOOR HANDLES SELECTION TABLE

Door Handles Selection Table

P/N	Description	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable	Note
									Hinged Door
D010601	With Cylinder -Milan Series	√	√						Can be Matched with Flat Handle
D010603	With Cylinder (Interior)-Milan Series		√						Can be Matched with Flat Handle
D010604	With Cylinder (Exterior)-Milan Series	√		Optional					Hinged Door
D010602	Without Cylinder -Milan Series						√		Can be Matched with Flat Handle
D010605	Without Cylinder (Interior)-Milan Series							Optional	Can be Matched with Flat Handle
D010606	Without Cylinder (Exterior)-Milan Series						√		Can be Matched with Flat Handle
D010607	With Cylinder(Interior) +Flat Handle(Exterior)		√		√				Hinged Door or Casement Door with Flyscreen
D010608	With Cylinder(Exterior) +Flat Handle(Interior)	√				Optional			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	Fixed	Fixed	Fixed	Fixed	Fixed	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable	Note
D010427	Fixed without Cylinder (Left Handle)-Berlin Series	✓														Left Hand Door (Exterior View)
D010428	Fixed without Cylinder (Right Handle)-Berlin Series		✓													Right Hand Door (Exterior View)
D010429	Fixed without Cylinder (Left Handle, Exterior)-Berlin Series			✓												Select as Required
D010430	Fixed without Cylinder (Right Handle, Interior)-Berlin Series				✓											Select as Required
D010431	Fixed without Cylinder (Right Handle, Exterior)-Berlin Series					✓										Select as Required
D010432	Fixed without Cylinder (Left Handle, Interior)-Berlin Series						✓									Select as Required
D010433	With Cylinder -Berlin Series							✓	✓							Hinged Door
D010435	With Cylinder(Interior) -Berlin Series								✓			Optional				Can be Matched with Flat Handle
D010436	With Cylinder(Exterior) -Berlin Series							✓					Optional			Can be Matched with Flat Handle
D010434	Without Cylinder -Berlin Series									✓	✓					Hinged Door
D010437	Without Cylinder(Interior) -Berlin Series										✓			Optional		Can be Matched with Flat Handle
D010438	Without Cylinder(Exterior) -Berlin Series									✓					Optional	Can be Matched with Flat 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										Optional			✓		Can be Matched with Hinged Door Handle

Door Handles Selection Table

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

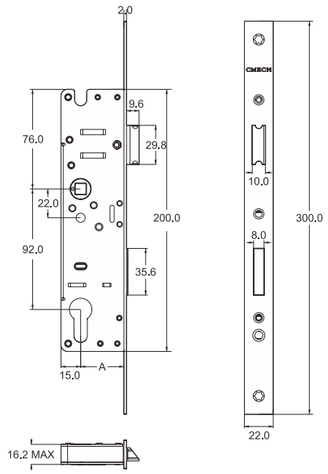
DOOR HANDLES SELECTION TABLE

Door Handles Selection Table

P/N	Description	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable	Note
D010127	Fixed without Cylinder (Left Handle)-New York Series	✓															Left Hand Door (Exterior View)
D010128	Fixed without Cylinder (Right Handle)-New York Series		✓														Right Hand Door (Exterior View)
D010129	Fixed without Cylinder (Left Handle, Exterior)-New York Series			✓													Select as Required
D010130	Fixed without Cylinder (Right Handle, Interior)-New York Series				✓												Select as Required
D010131	Fixed without Cylinder (Right Handle, Exterior)-New York Series					✓											Select as Required
D010132	Fixed without Cylinder (Left Handle, Interior)-New York Series						✓										Select as Required
D010133	With Cylinder -New York Series													✓			Hinged Door
D010135	With Cylinder(Interior) -New York Series												✓				Can be Matched with Flat Handle
D010136	With Cylinder(Exterior) -New York Series													✓			Can be Matched with Flat Handle
D010134	Without Cylinder -New York Series											✓					Hinged Door
D010137	Without Cylinder(Interior) -New York Series														✓		Can be Matched with Flat Handle
D010138	Without Cylinder(Exterior) -New York Series															Optional	Can be Matched with Flat Handle
D010419	With Cylinder (Interior) +Flat Handle																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															✓	Can be Matched with Hinged Door Handle
D010426	Without Cylinder (Exterior) +Flat Handle																Can be Matched with Hinged Door Handle

LOCK BODIES

22x300 Active Single-Point Lock Body

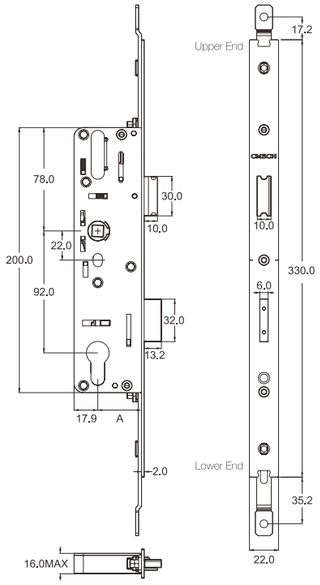


Installation & Optional Sizes are Available

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



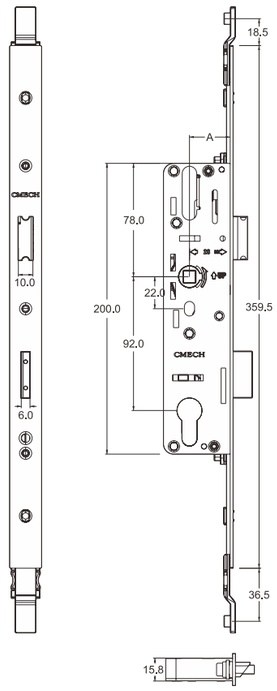
Installation & Optional Sizes are Available

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

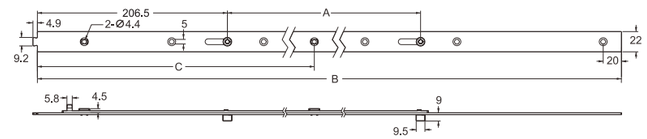


Installation & Optional Sizes are Available

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

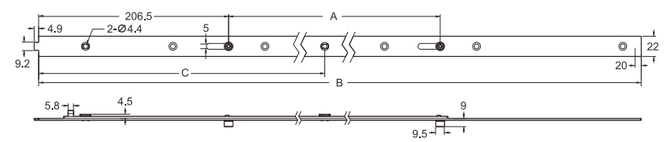
LOCKING HARDWARE

Espagnolette Bolt



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

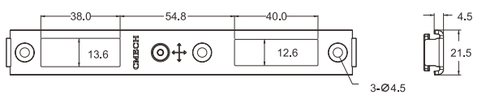
Espagnolette Bolt with Bearing



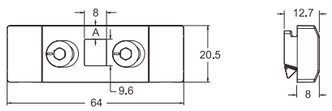
P/N	A	B	C	Material
D020004	370	795	-	304SS
D020005	490	915	441	304SS
D020006	610	1,035	501	304SS

KEEPERS AND OTHER ACCESSORIES

D100012
Adjustable Strike

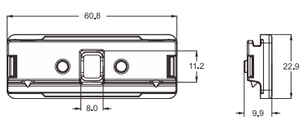


Adjustable Shootbolt Bracket (C-Groove)

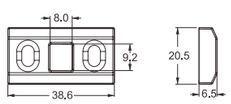


P/N	A
D070003	6 mm
D070004	5 mm

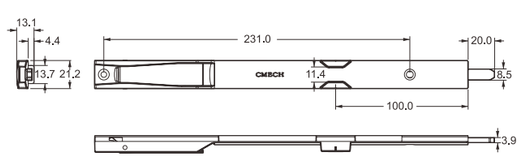
D070013
Shootbolt Bracket

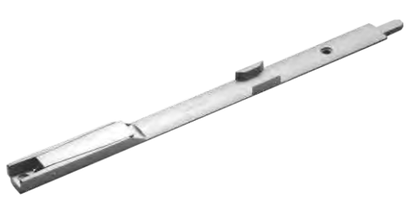


D070007
Shootbolt Bracket (Grooveless)



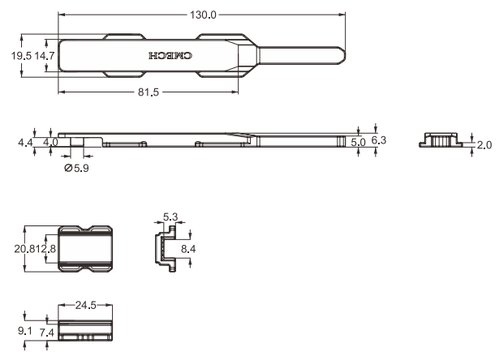
D070006
Shootbolt



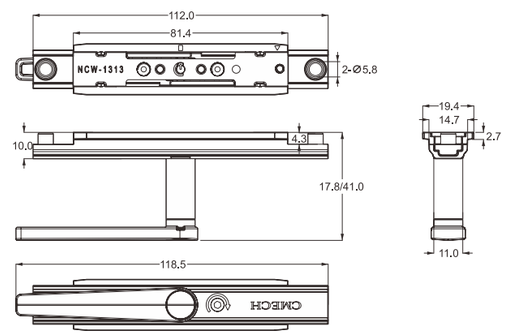


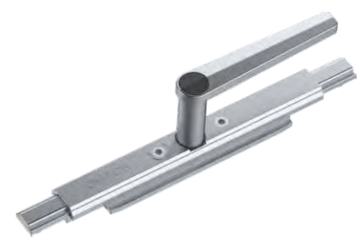
KEEPERS AND OTHER ACCESSORIES

D070012
Shootbolt Part

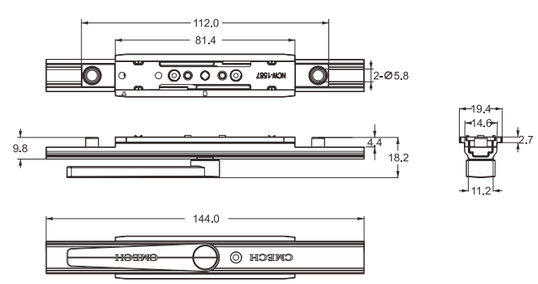


D070010
Bi Directional Shootbolt Connector



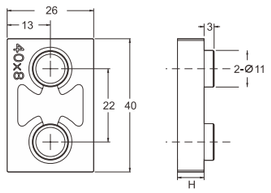


D070011
Bi Directional Shootbolt Connector



KEEPERS AND OTHER ACCESSORIES

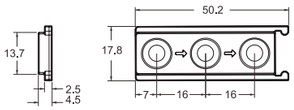
Flush-Fit Hinge Gasket

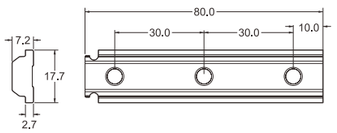


P/N	H	Descriptions
D140001	7	7x40
D140002	8	8x40
D140003	8.5	8.5x40
D140004	10	10x40
D140005	11	11x40

D000049

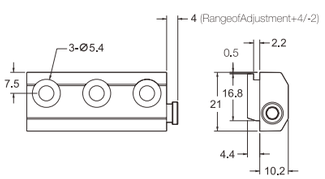
Anti Slide Clamping Block





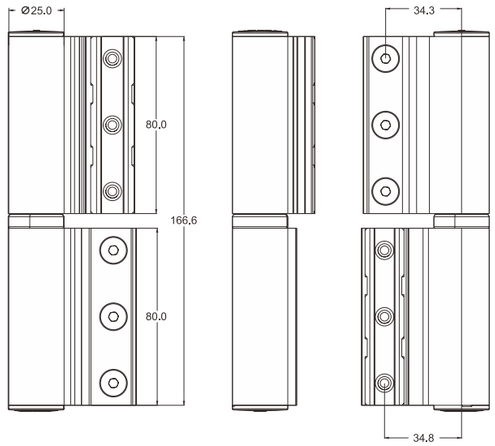
D000007

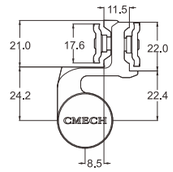
Sash Height Adjusting Block



HINGES

120 kg Reinforced Hinge



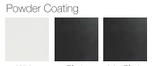


P/N	Descriptions
D040017-	Left
D040018-	Right

M Treatment

Silver 01 | Champagne 02 | Gold 11 | Bronze 12

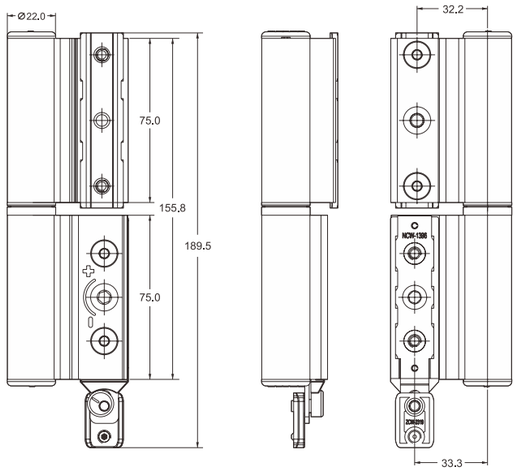
Powder Coating

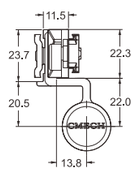


White 09 | Black 10 | Mat Black 17

HINGES

120 kg Flush-Fit Hinge





P/N	Descriptions
D040019-	Left
D040020-	Right

M Treatment

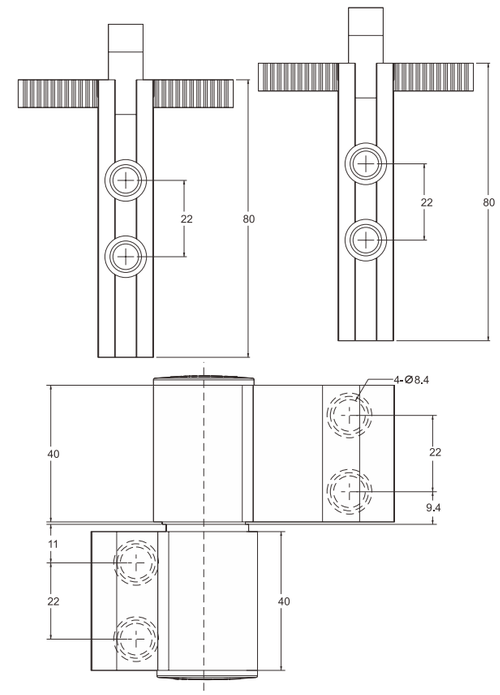
Silver 01 | Champagne 02 | Gold 11 | Bronze 12

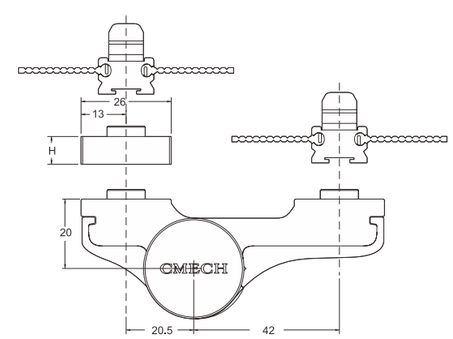
Powder Coating

White 09 | Black 10 | Mat Black 17

HINGES

140 kg Flush-Fit Hinge





Determined by Sleeve Bearing
Between 19.5-21.5

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

M Treatment

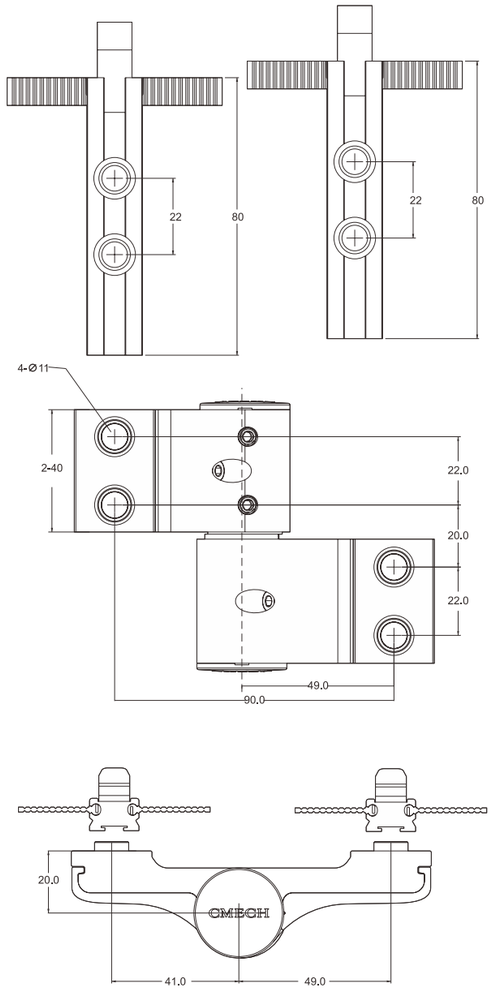
Silver 01 | Champagne 02 | Gold 11 | Bronze 12

Powder Coating

White 09 | Black 10 | Mat Black 17

HINGES

140 kg Flush-Fit Hinge



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

M Treatment

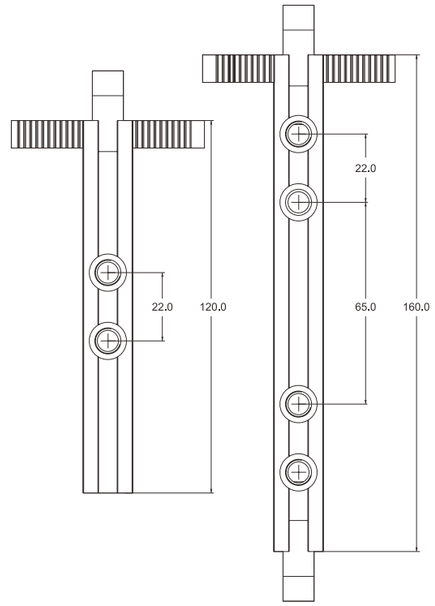
Silver 01 · Champagne 02 · Gold 11 · Bronze 12

Powder Coating

White 09 · Black 10 · Mat Black 17

HINGES

180 kg Flush-Fit Hinge



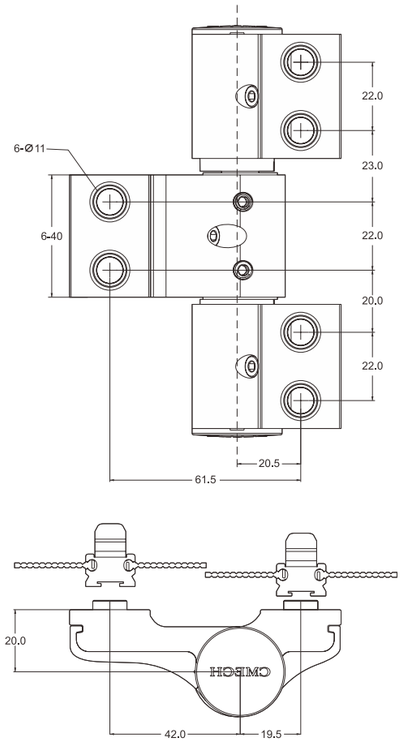
P/N	Description
D040014-	180 kg Flush-Fit Hinge (3 Sections / Centreline Distance 61.5 mm)

M Treatment

Silver 01 · Champagne 02 · Gold 11 · Bronze 12

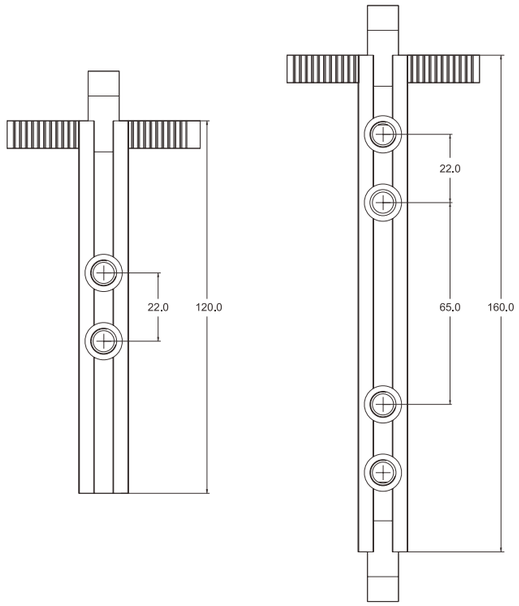
Powder Coating

White 09 · Black 10 · Mat Black 17

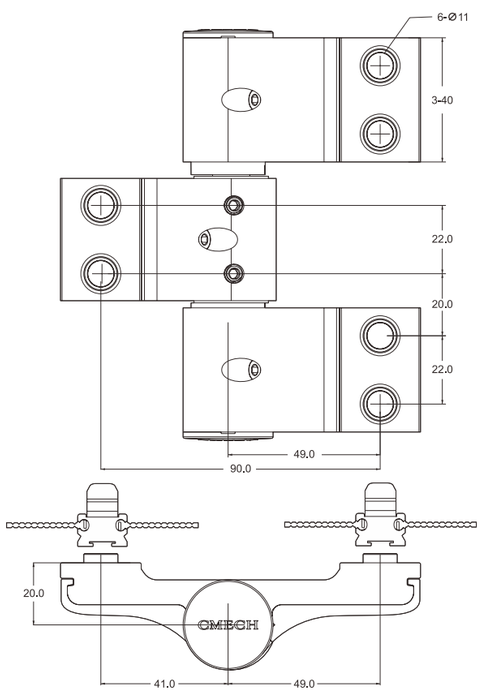


HINGES

180 kg Flush-Fit Hinge



P/N	Description
D040015-	180 kg Flush-Fit Hinge (3 Sections / Centreline Distance 90 mm)



M Treatment

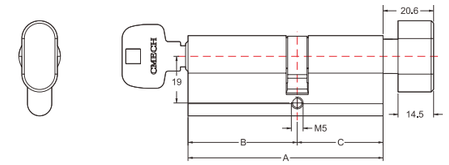
Silver	Champagne	Gold	Bronze
01	02	11	12

Powder Coating

White	Black	Mat Black
09	10	17

CYLINDERS

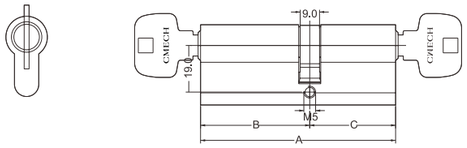
Oval Thumb Turn Brass Cylinder



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	R50 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	R25×35mm	60	35	25
D130167	R50×40mm	90	40	50
D130168	R90×30mm	120	30	90
D130169	R30×90mm	120	90	30
D130170	R85×35mm	120	35	85
D130171	R35×85mm	120	85	35
D130172	R95×30mm	125	30	95
D130173	R30×95mm	125	95	30
D130174	R90×35mm	125	35	90
D130175	R35×90mm	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	R65×40 mm	105	40	65
D130154	R45×55 mm	100	55	45
D130155	R55×45 mm	100	45	55
D130159	R25×30 mm	55	30	25
D130160	R30×25 mm	55	25	30
D130179	R40×70 mm	110	70	40

CYLINDERS

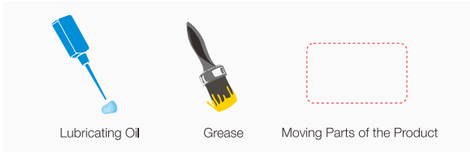
Double-Sided Keyed Brass Cylinder



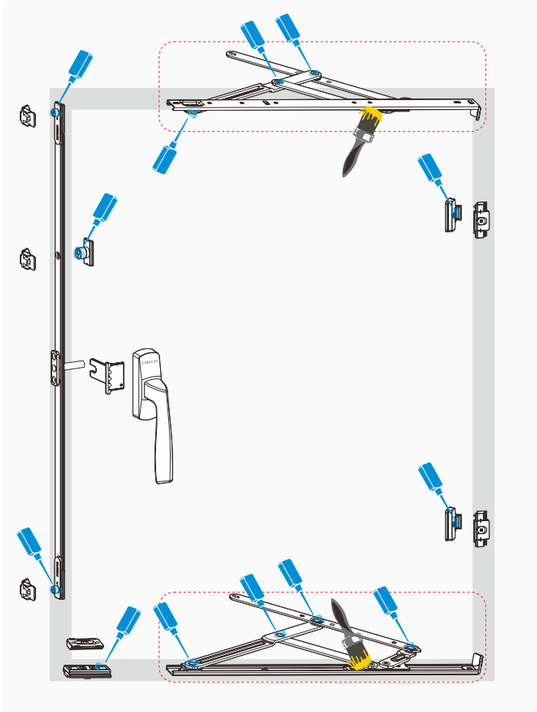
P/N	Description	Specifications		
		A	B	C
D130402	R35.5 x 35.5 mm	71	35.5	35.5
D130409	R30 x 50 mm	80	50	30
D130412	R30 x 55 mm	85	55	30
D130415	R30 x 60 mm	90	60	30
D130418	R45 x 45 mm	90	45	45
D130419	R30 x 65 mm	95	65	30
D130420	R30 x 70 mm	100	70	30
E130403	R40 x 40 mm	80	40	40
F130405	R45 x 35 mm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

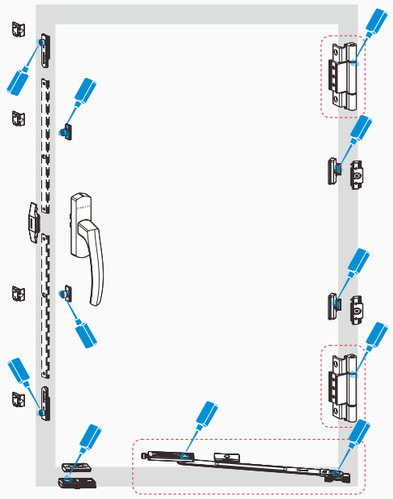


Outswing Casement Window Hardware

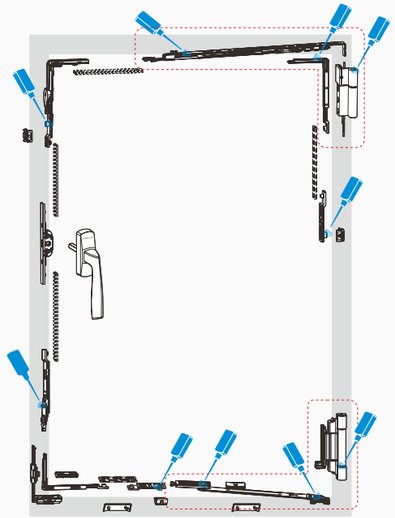


MAINTENANCE

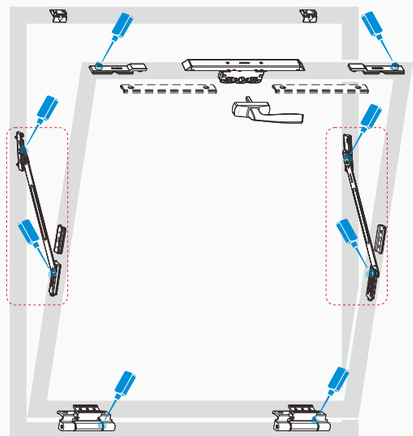
Inswing Casement Window Hardware



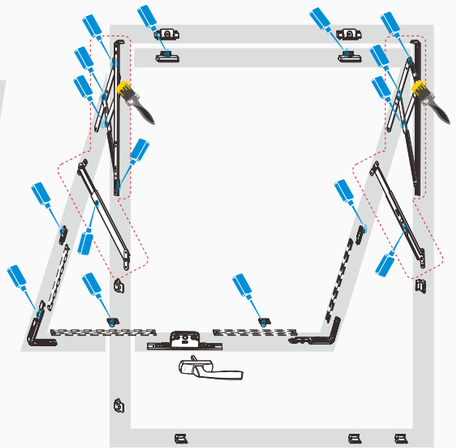
Tilt & Turn Window Hardware



Hopper Window Hardware

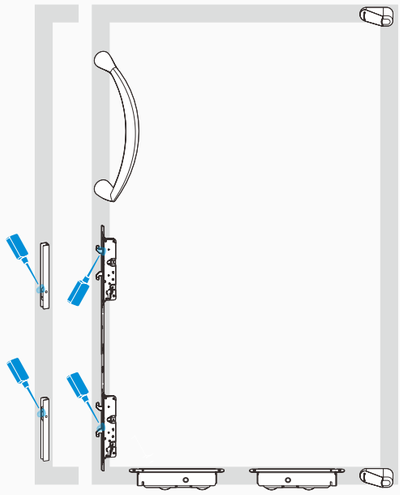


Outswing Awning Window Hardware

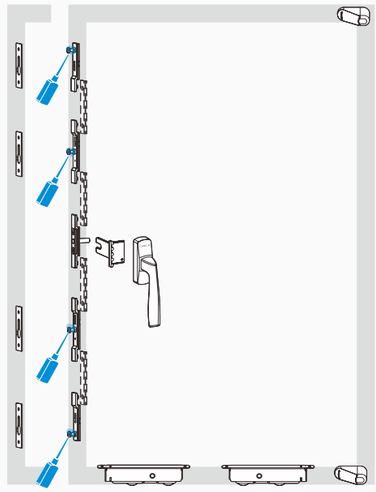


MAINTENANCE

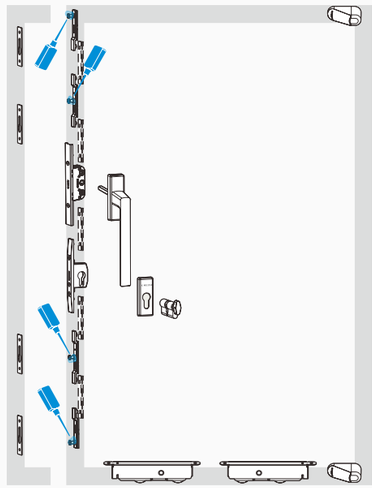
Gliding Door Hardware
London Handle + Hook Lock Configuration



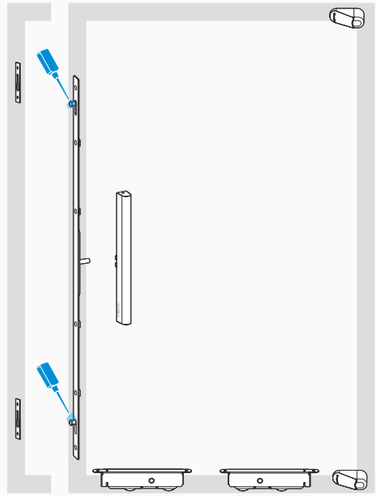
Gliding Door Hardware
T-Drive Configuration



Gliding Door Hardware
Spindle Drive Configuration

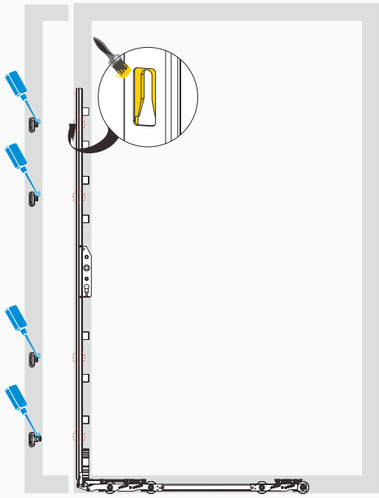


Gliding Door Hardware
Drive Gear Configuration

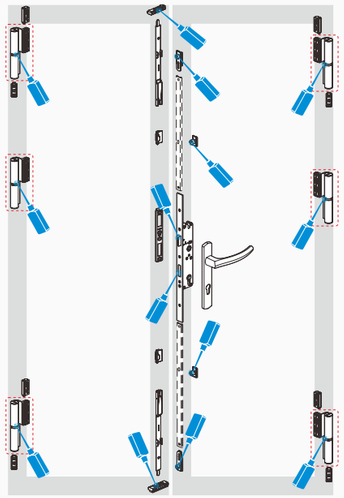


MAINTENANCE

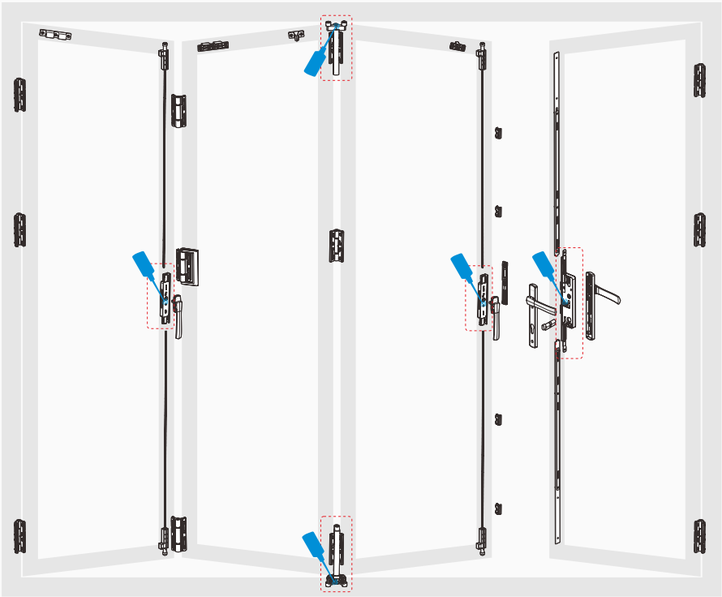
Lift & Slide Door Hardware



Hinged Door Hardware



Bi-Folding Door Hardware



HAEN202404

SALES CENTERS

Sales Contact

Cmech distributes Globally.
Sales inquiries: sales@cmech.com
www.cmech.com

China Sales Contact

Guangzhou
2 Feng Guang Road, Zhongxin Town
Zeng Cheng District, Guangdong 511365, China
Tel: +86 (20) 6173 6919
Fax: +86 (20) 6173 6519

CMECH

www.cmech.com