



B

BROMBAL
HARDWARE



DISCOVER FREEDOM TO CREATE

The world's
first luxury
thermally broken
metal windows & doors



WINDOW & DOOR HARDWARE

All hardware on Brombal windows and doors is manufactured through CNC Manufacturing or Die Casting, for precise fitting and high-quality parts.

CNC PROCESS

Handles manufactured through CNC production are available in stainless steel, brass, Cor-Ten, and painted steel (both liquid and powder paintings).

THE PROCESS

CNC (computer numerical control) is an automated production process in which machine control commands are assigned to a computer to execute automated production. The CNC process replaces manual operation of machines and results in high precision. Exact dimensions of the part are defined by CAD (computer-aided design) software which create machine directives through CAM (computer-aided manufacturing) software. This information is loaded into the CNC machine and the post processor software transforms these directives into specific commands for the machine to manufacture the specific part.



In the 1940s-1950s, numerical control (NC) machines equipped with motorized tools, used a system to follow points directed on punched tape. These machines evolved with computer technology creating CNC machines that have revolutionized manufacturing. Today, CNC machines often incorporate many different tools in a single unit to automatically create parts, while some machines require a person or robot to aid in production. With a highly automated and precise system, CNC manufacturing results in hardware that closely matches the CAD specification, and is capable of producing complex parts.

DIE CASTING PROCESS

Handles manufactured through die cast production are available in brass and painted steel (both liquid and powder paintings).

THE PROCESS

Die casting produces hardware through a process in which molten metal is forced under high pressure into a reusable mold cavity. This process results in hardware with a great surface finish and with consistent dimensions. The equipment for die casting was first created in 1838 and the process of die casting is still used today to produce intricate parts at an affordable price when produced in larger quantities.



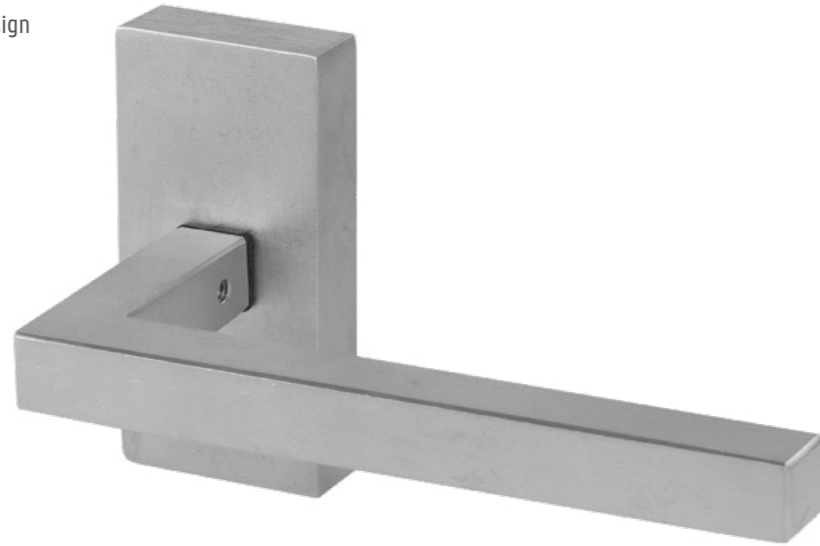
The four-step process to high pressure die casting: 1. Die preparation 2. Filling 3. Ejection 4. Shakeout. Two dies are used to meet in the parting line, the cover die half and the ejector die half. The mold cavity is lubricated to help control temperature and aid in casting removal. The dies are closed and under high pressure, molten metal is injected until the cavity is filled; the pressure is then maintained until solidification of the casting when the dies can be opened to remove the casting and scraps. By using die casting with high pressure injection, the entire cavity fills quickly to create precise hardware parts before any part of the casting has a chance to harden early and create abnormalities.

We use an 8mm spindle so that hardware from different suppliers can be used. Note: Hardware must first be approved for compatibility.

OS2 & EBE

SQUARE DOOR HANDLE

This handle with a refined edge is perfect for minimal and modern design

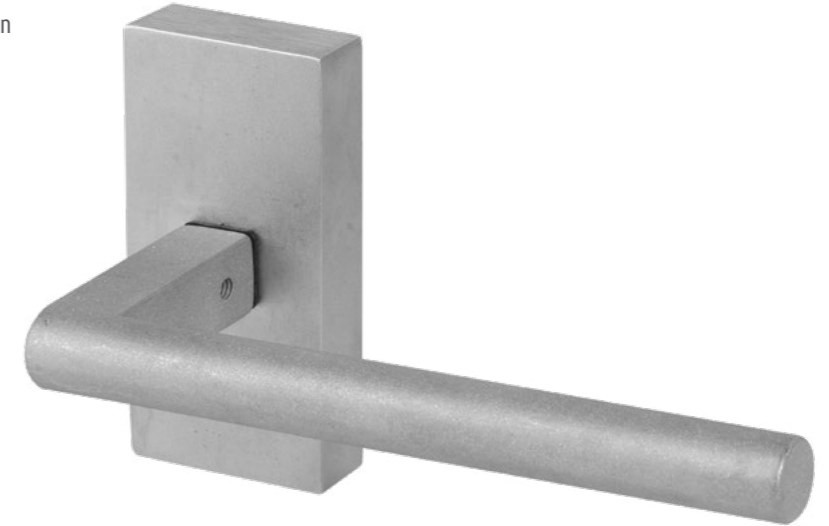


SYSTEM	WINDOWS & DOORS TYPOLOGY
OS2	Doors / Vertical Pivot / Bifold
EBE	

OS2 & EBE

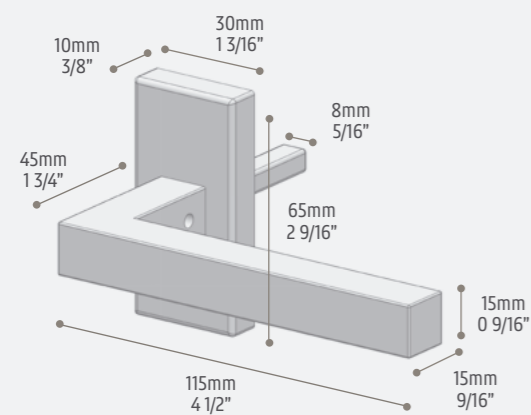
ROUND DOOR HANDLE

This handle with a round shape is perfect for classic and elegant design

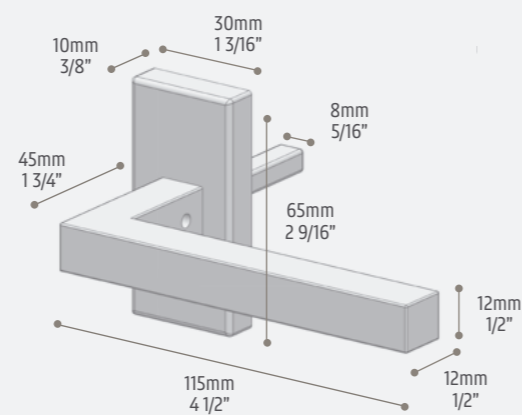


SYSTEM	WINDOWS & DOORS TYPOLOGY
OS2	Doors / Vertical Pivot / Bifold
EBE	

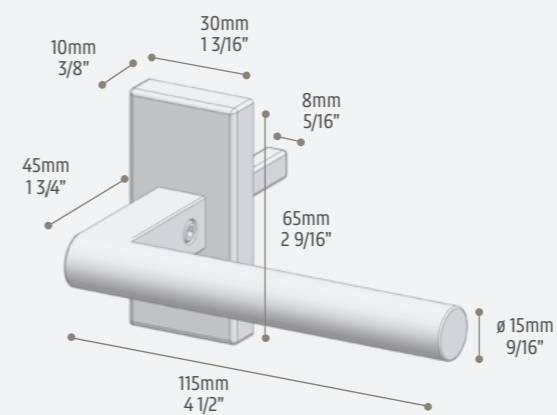
art. 001 - WIDE



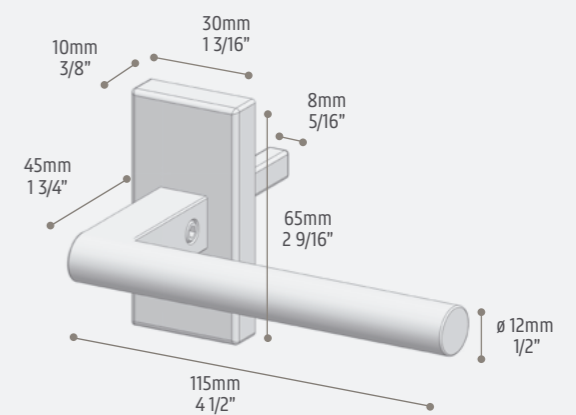
art. 001 - NARROW



art. 002 - WIDE



art. 002 - NARROW



Stainless steel
scotch brite

Stainless steel
glass blasted
blackened

Burnished brass

Cor-Ten

Painted

Stainless steel
scotch brite

Stainless steel
glass blasted
blackened

Burnished brass

Painted

OS2

SQUARE WINDOW HANDLE

This handle with a refined edge is perfect for minimal and modern design



SYSTEM	WINDOWS & DOORS TYPOLOGY
OS2	Casement / Hopper

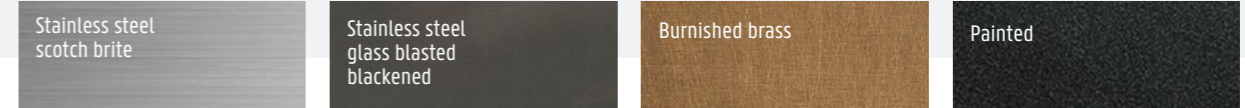
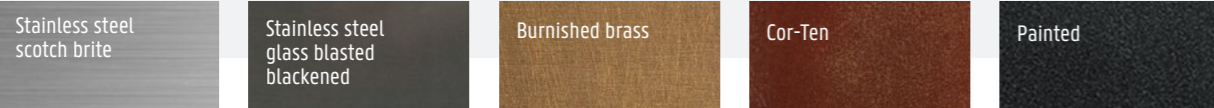
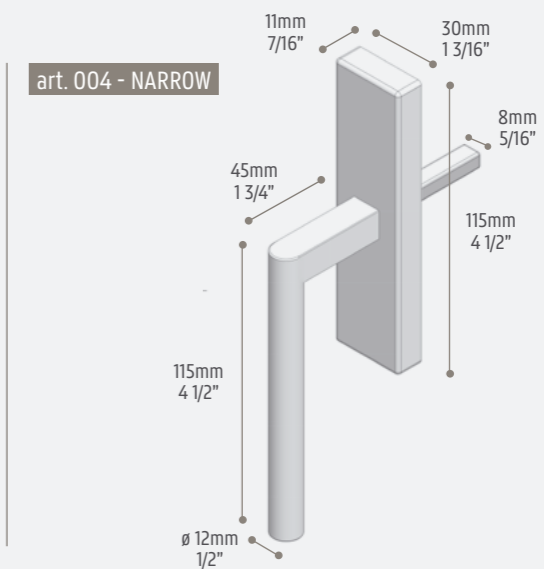
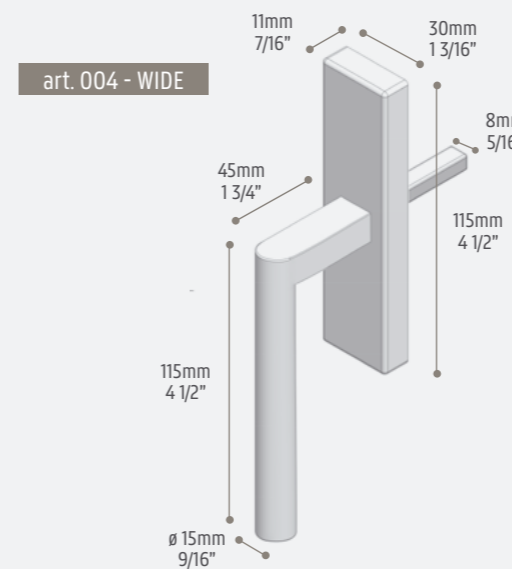
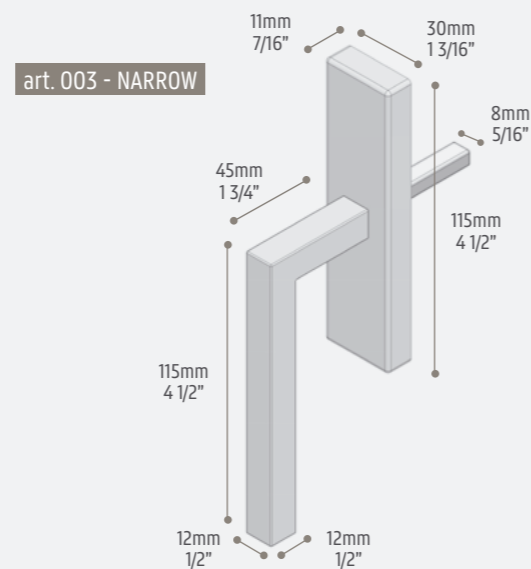
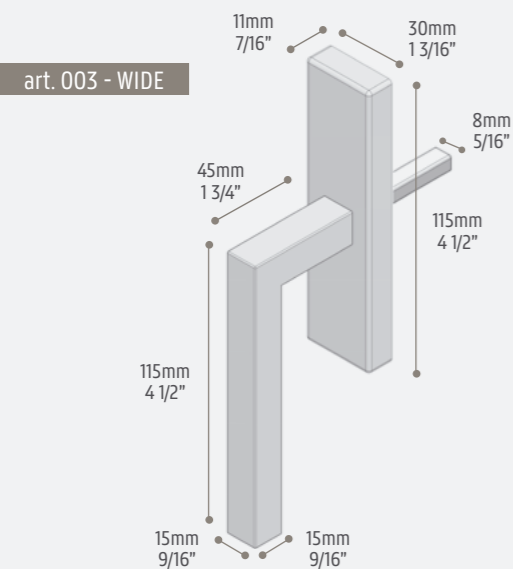
OS2

ROUND WINDOW HANDLE

This handle with a round shape is perfect for classic and elegant design



SYSTEM	WINDOWS & DOORS TYPOLOGY
OS2	Casement / Hopper



OS2

OFFSET SQUARE WINDOW HANDLE

This handle with a refined edge is perfect for minimal and modern design. The shape allows the handle to be installed very close to the wall.



SYSTEM	WINDOWS & DOORS TYPOLOGY
OS2	Casement

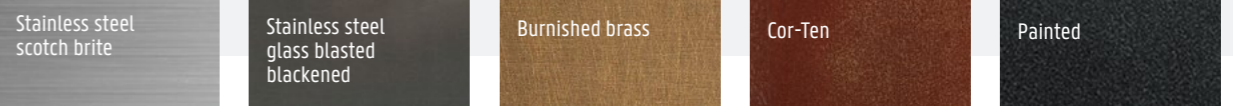
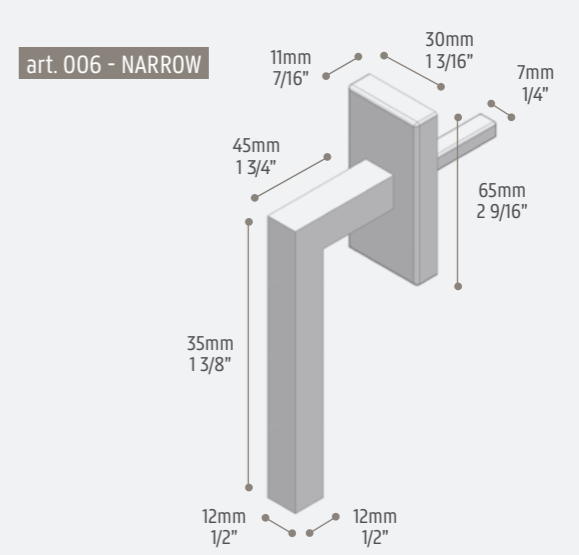
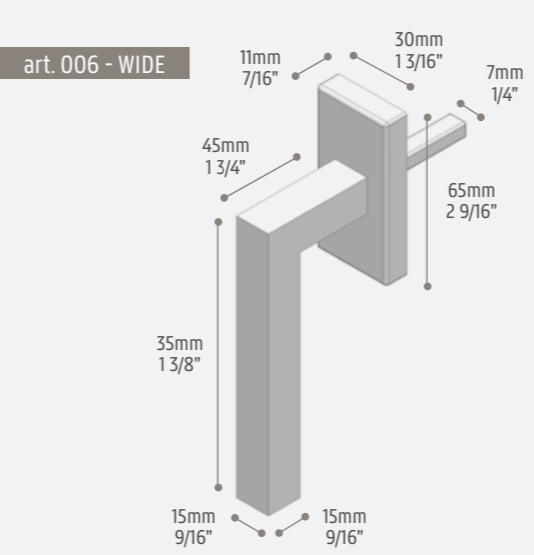
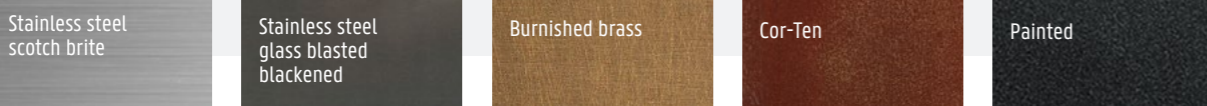
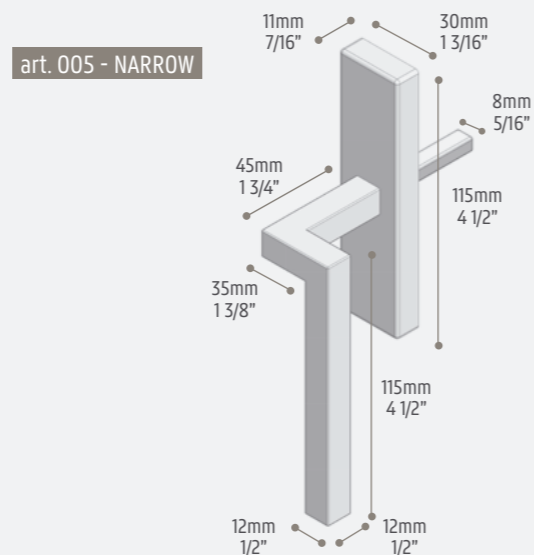
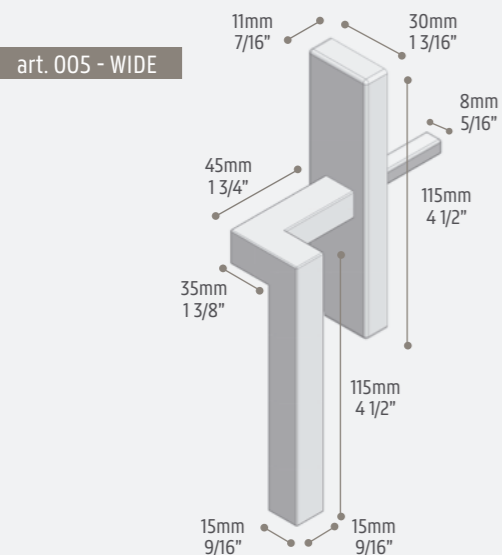
EBE

SQUARE WINDOW HANDLE

This handle with a refined edge is perfect for minimal and modern design.



SYSTEM	WINDOWS & DOORS TYPOLOGY
EBE	Casement / Hopper (only with internal glazing bead)



EBE

ROUND WINDOW HANDLE

This handle with a round shape is perfect for classic and elegant design



SYSTEM	WINDOWS & DOORS TYPOLOGY
EBE	Casement / Hopper (only with internal glazing bead)

EBE

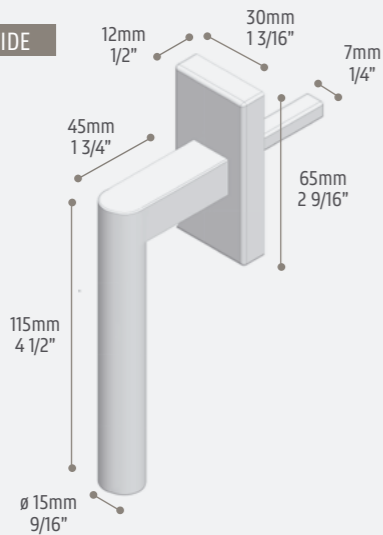
OFFSET SQUARE WINDOW HANDLE

This handle with a refined edge is perfect for minimal and modern design. The shape allows the handle to be installed very close to the wall

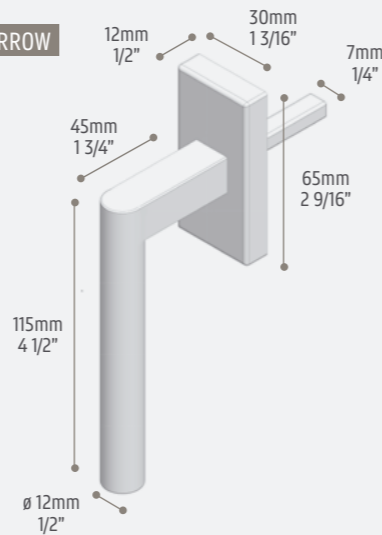


SYSTEM	WINDOWS & DOORS TYPOLOGY
EBE	Casement

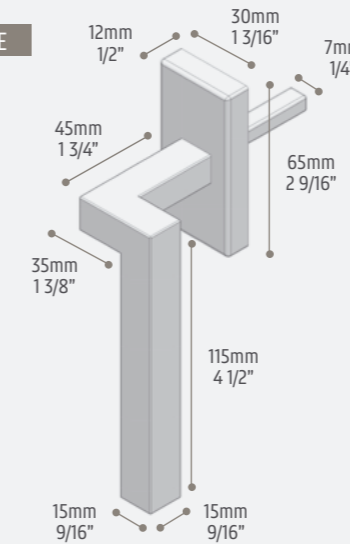
art. 007 - WIDE



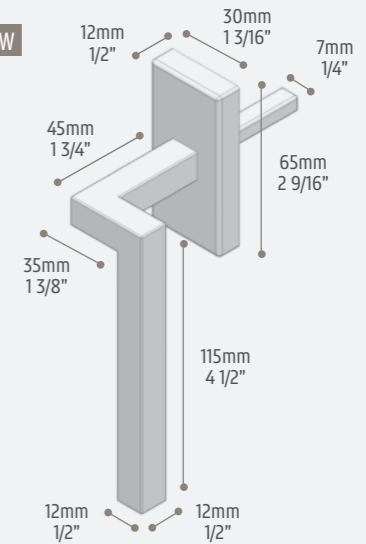
art. 007 - NARROW



art. 008 - WIDE



art. 008 - NARROW



Stainless steel
scotch brite

Stainless steel
glass blasted
blackened

Burnished brass

Painted

Stainless steel
scotch brite

Stainless steel
glass blasted
blackened

Burnished brass

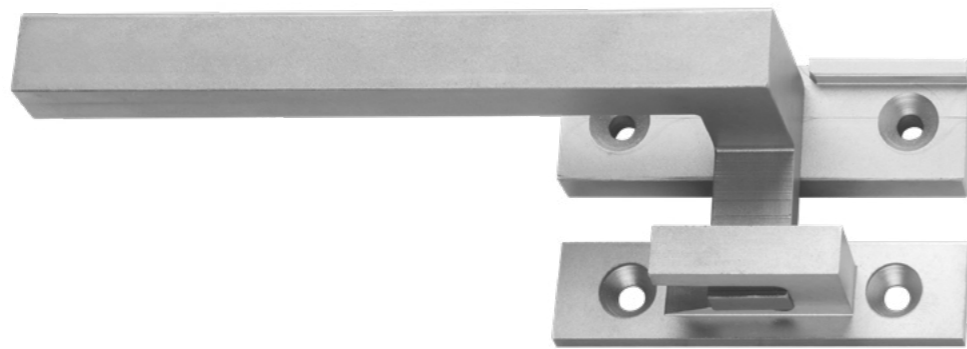
Cor-Ten

Painted

OS2 & EBE

SQUARE CAM HANDLE

This cam handle with a refined edge is perfect for minimal and modern design

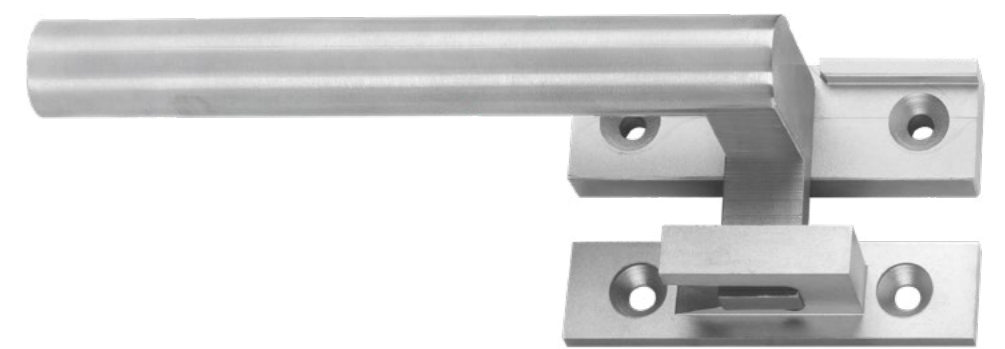


SYSTEM	WINDOWS & DOORS TYPOLOGY
OS2	Awning
EBE	

OS2 & EBE

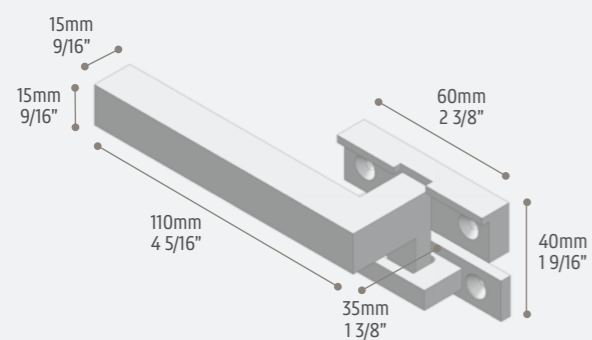
ROUND CAM HANDLE

This cam handle with a round shape is perfect for classic and elegant design

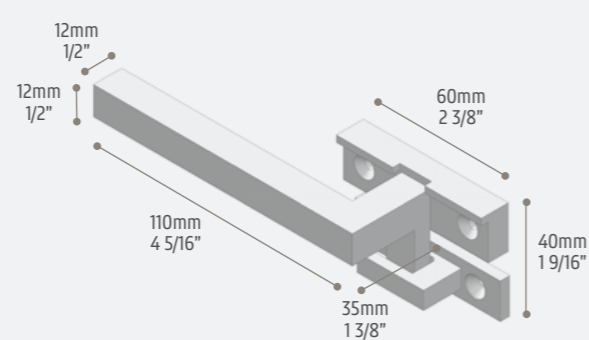


SYSTEM	WINDOWS & DOORS TYPOLOGY
OS2	Awning
EBE	

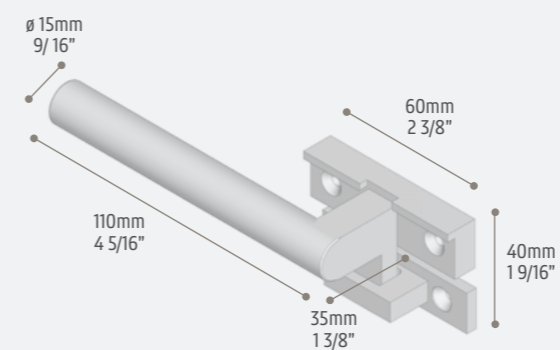
art. 009 - WIDE



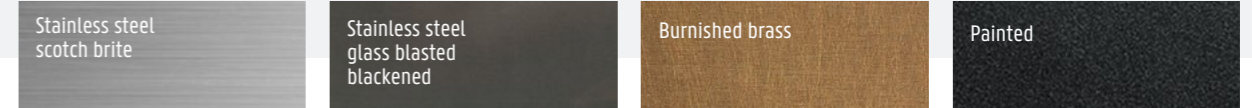
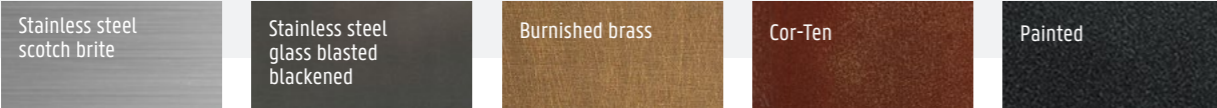
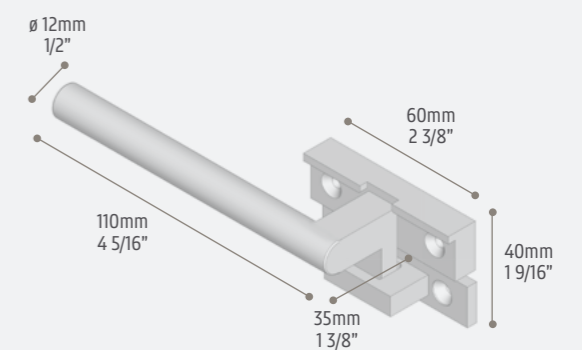
art. 009 - NARROW



art. 010 - WIDE



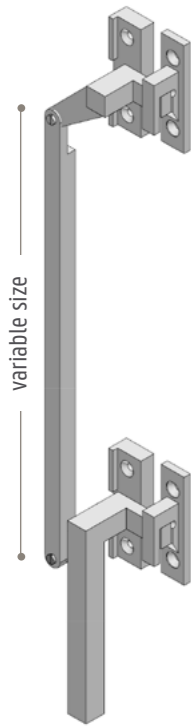
art. 010 - NARROW



OS2 & EBE

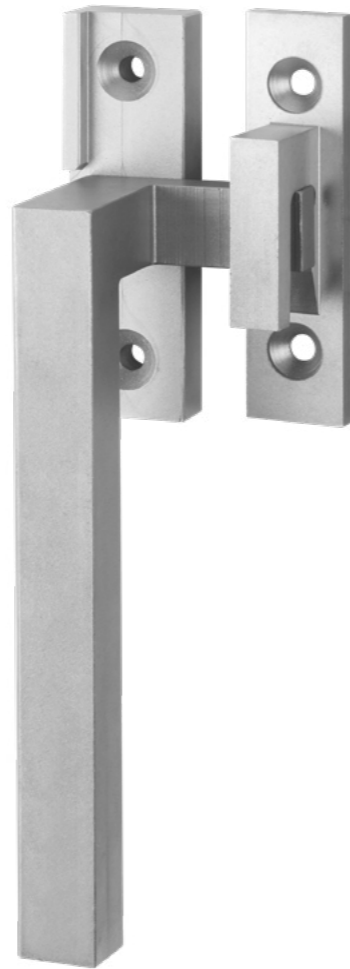
SQUARE CAM HANDLE

This cam handle with a refined edge is perfect for minimal and modern design



MULTIPOINT OPTIONS

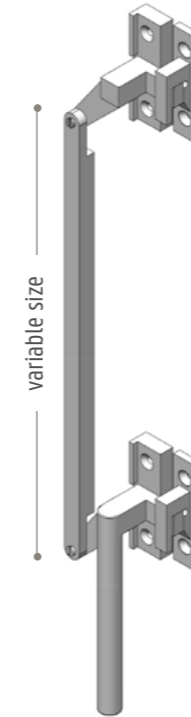
SYSTEM	WINDOWS & DOORS TYPOLOGY
OS2	Casement
EBE	



OS2 & EBE

ROUND CAM HANDLE

This cam handle with a round shape is perfect for classic and elegant design

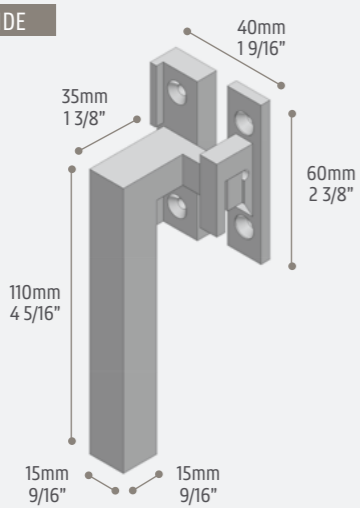


MULTIPOINT OPTIONS

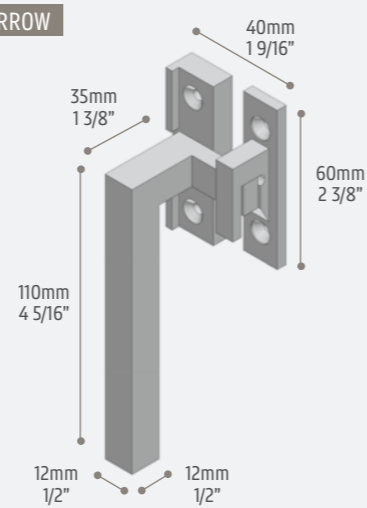
SYSTEM	WINDOWS & DOORS TYPOLOGY
OS2	Casement
EBE	



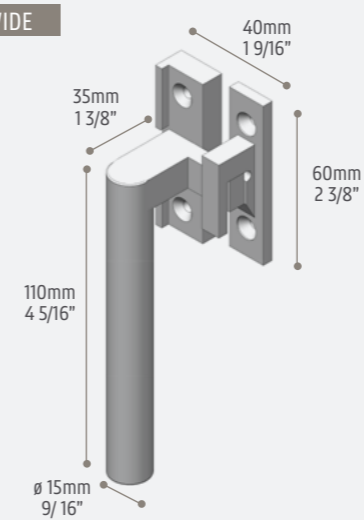
art. 011 - WIDE



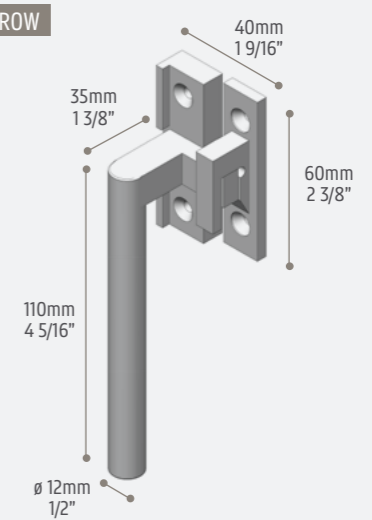
art. 011 - NARROW



art. 012 - WIDE



art. 012 - NARROW



Stainless steel scotch brite

Stainless steel glass blasted blackened

Burnished brass

Cor-Ten

Painted

Stainless steel scotch brite

Stainless steel glass blasted blackened

Burnished brass

Cor-Ten

Painted

OS2

PUSH BAR + SINGLE POINT HANDLE

This underscreen push bar allows the windows to be opened and operated without the need for wickets in your screen. It features a gasketed saddle for weather sealing.

WINDOW LIMIT DIMENSION

- 1 PULL + 1 PUSH until 3'6"
- 2 PULL + 1 PUSH from 3'6" to 4'6"
- 2 PULL + 2 PUSH from 4'6" to 5'6"

maximum weight 100kg / 220 lb



SYSTEM	WINDOWS & DOORS TYPOLOGY
OS2	Awning

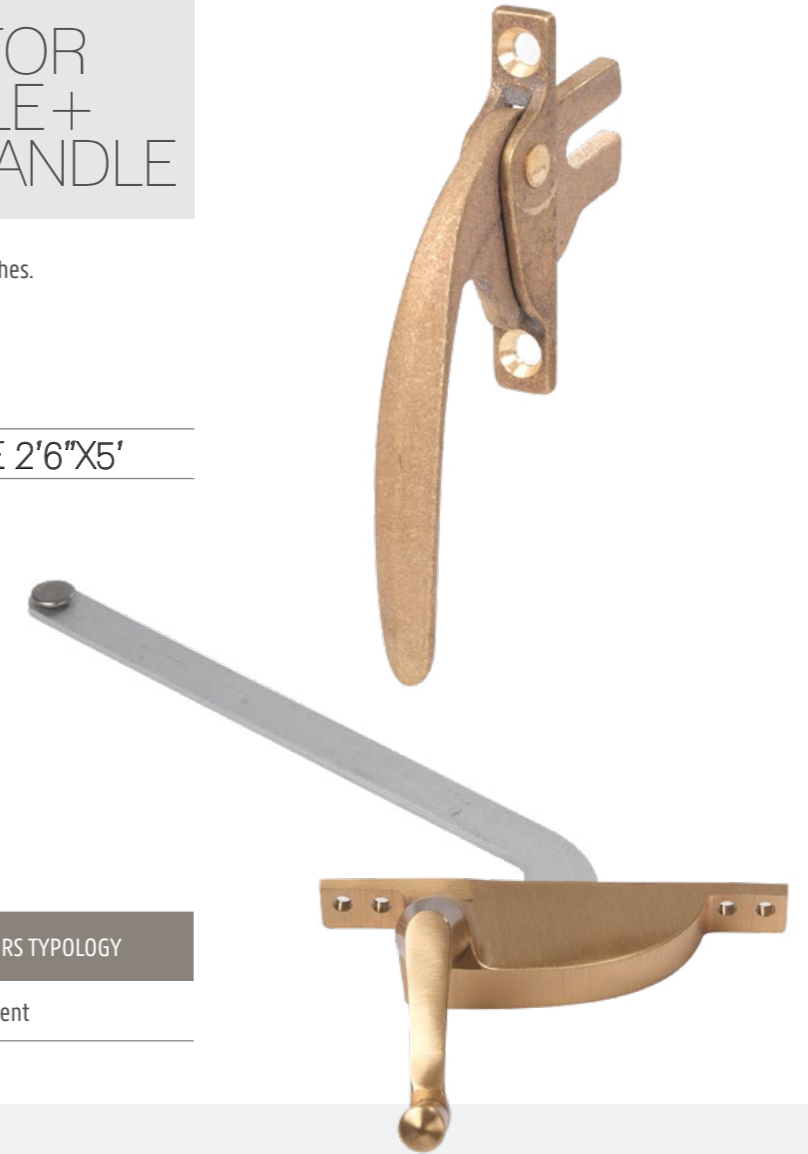
OS2

ROTO OPERATOR CRANK HANDLE + MULTIPOINT HANDLE

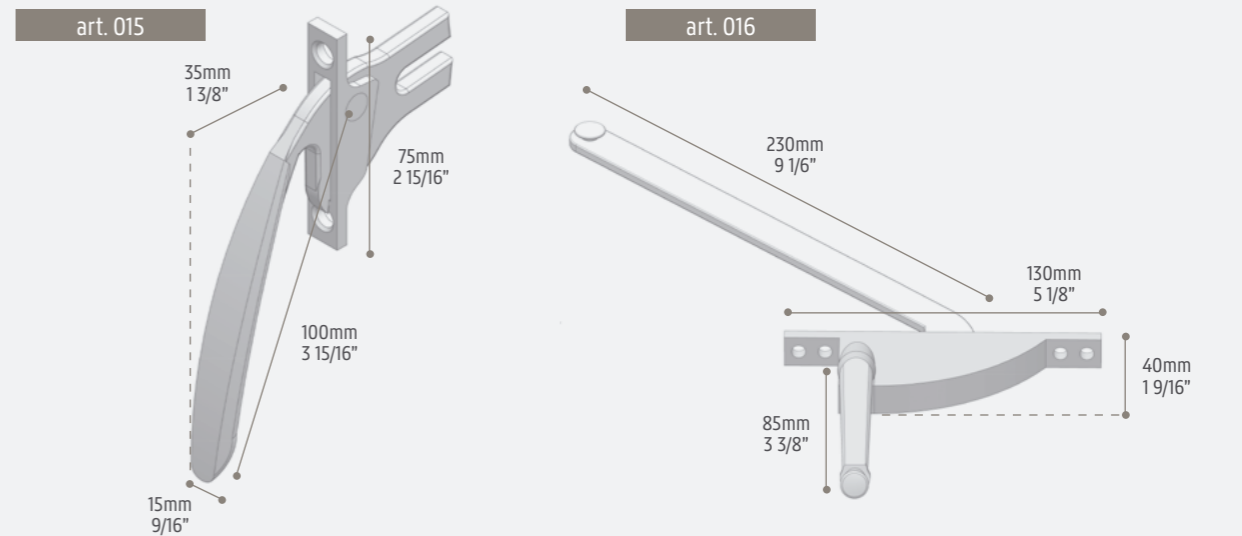
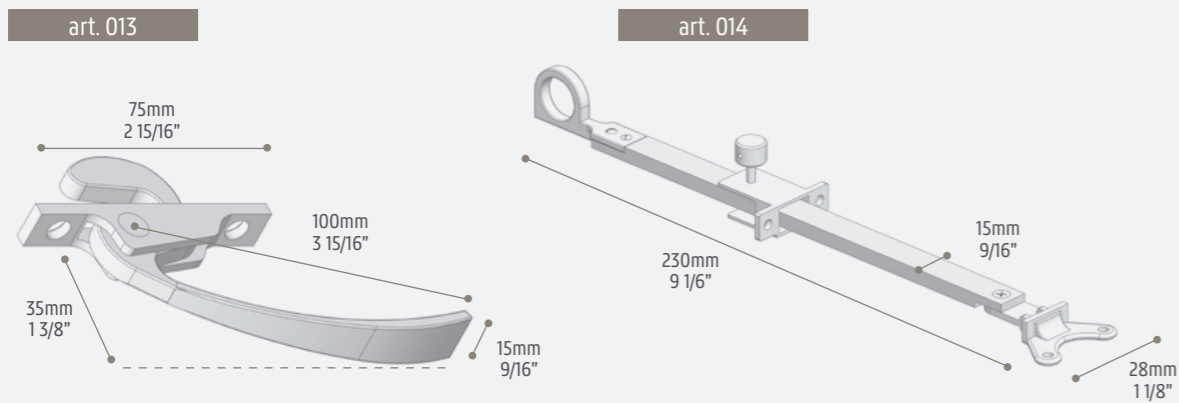
The roto operator works effectively for sashes.

MAXIMUM WINDOW SIZE 2'6"X5'

Without a screen any handle can be used.



SYSTEM	WINDOWS & DOORS TYPOLOGY
OS2	Casement



OS2

CUSTOM HARDWARE

VENETO HANDLE

The Veneto handle with its round edge and curved shape is perfect for a simplistic and comfortable design where the frame remains the statement piece.
With stepped escutcheon plate.



SYSTEM	WINDOWS & DOORS TYPOLOGY
OS2	Doors / Vertical Pivot

OS2 & EBE

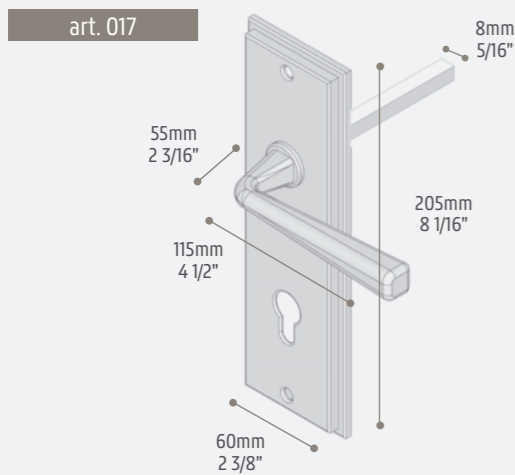
CUSTOM HARDWARE

VENETIAN HANDLE

The Venetian handle with its ornate design is a statement piece perfect for classic style.
With double stepped framed escutcheon plate.

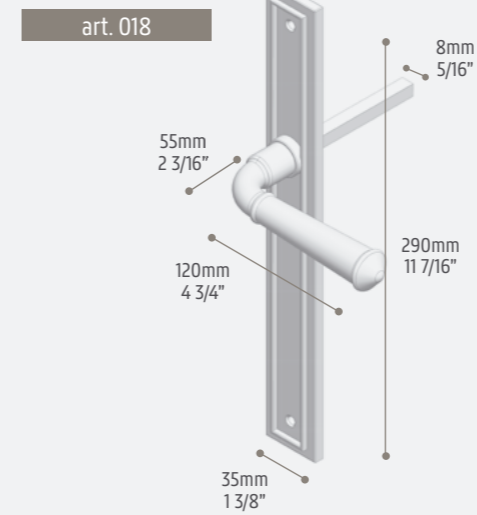


SYSTEM	WINDOWS & DOORS TYPOLOGY
OS2	Doors / Vertical Pivot / Bifold Casement
EBE	



Burnished brass

Painted



Burnished brass

Painted

EBE
SQUARE
LIFT-SLIDE
DOOR HANDLE

This handle with a refined edge
is perfect for minimal and modern design



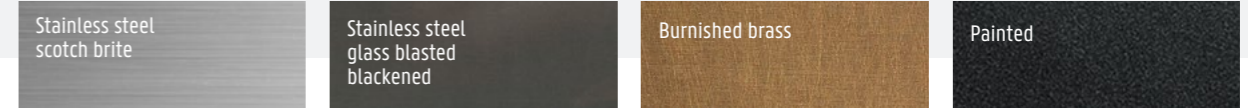
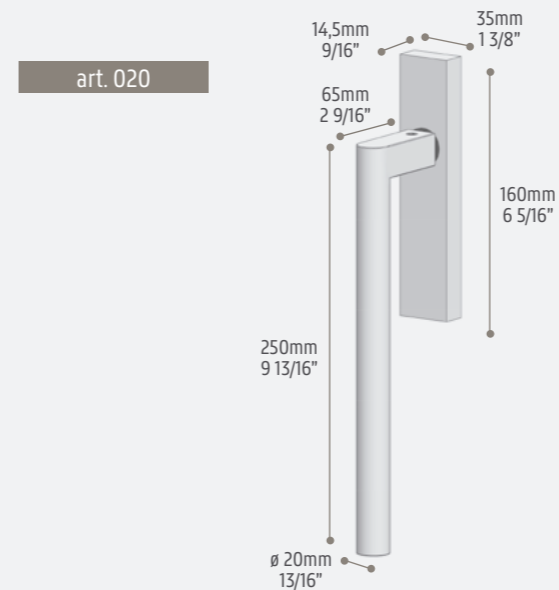
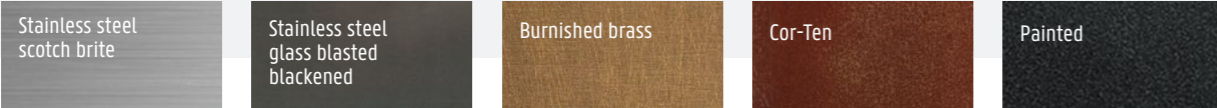
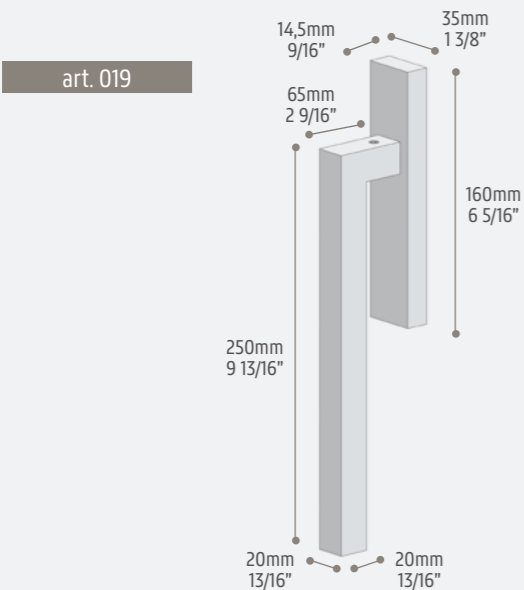
SYSTEM	WINDOWS & DOORS TYPOLOGY
EBE	Lift and Slide Doors

EBE
ROUND
LIFT-SLIDE
DOOR HANDLE

This handle with a round shape
is perfect for classic and elegant design



SYSTEM	WINDOWS & DOORS TYPOLOGY
EBE	Lift and Slide Doors



EBE

CUSTOM HARDWARE

VENETIAN LIFT-SLIDE DOOR HANDLE

The Venetian lift and slide door handle with its ornate design is a statement piece perfect for classic style.
With double stepped framed escutcheon plate.



SYSTEM	WINDOWS & DOORS TYPOLOGY
EBE	Lift and Slide Doors

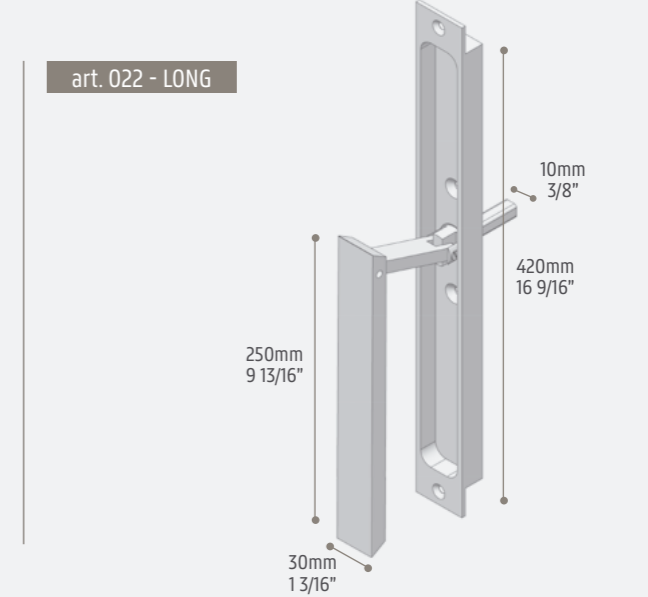
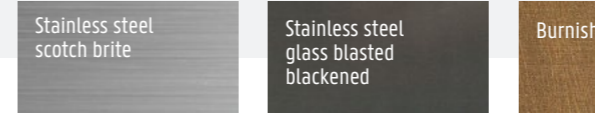
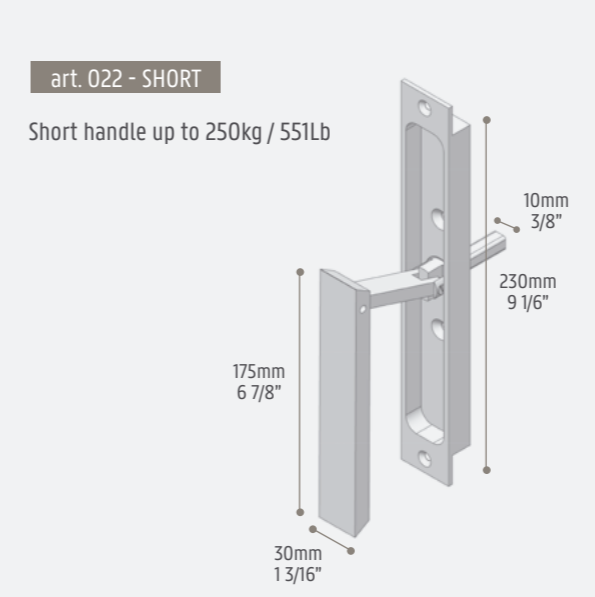
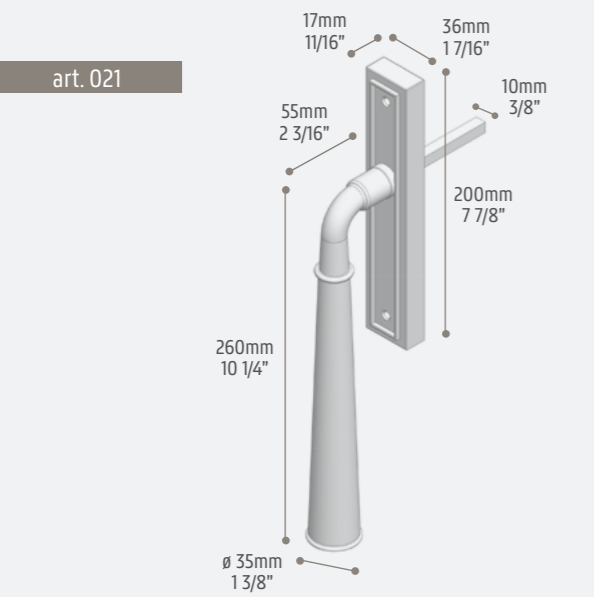
EBE

FLUSH LIFT-SLIDING DOOR HANDLE

This handle is completely hidden inside the frame of the lift-slide door. Perfect for essential and minimal design.



SYSTEM	WINDOWS & DOORS TYPOLOGY
EBE	Lift and Slide Doors



WINDOWS & DOORS ACCESSORIES

FRICTION ARM

art. 023



Stainless steel 316

LIFT & SLIDE ACCESSORIES

PULL HANDLE

art. 026 - SHORT



art. 026 - LONG



Stainless steel scotch brite Stainless steel glass blasted blackened Burnished brass Cor-Ten Painted

THUMB-TURN

art. 024



art. 025



Stainless steel scotch brite Stainless steel glass blasted blackened Burnished brass Cor-Ten Painted

EDGE PULL HANDLE

art. 027

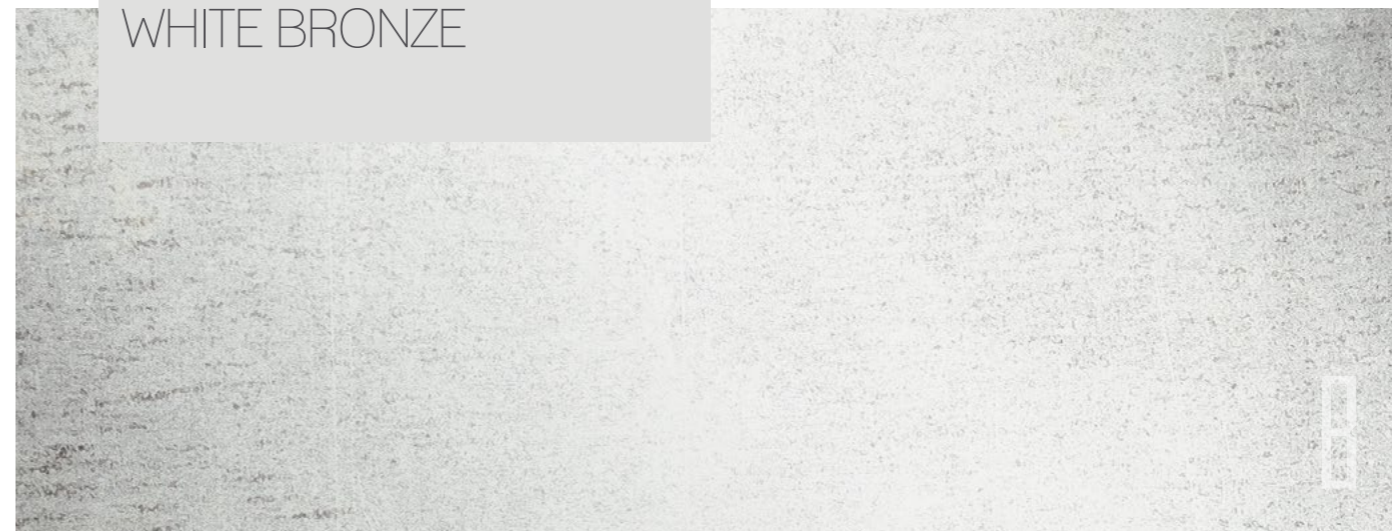


Raw stainless steel Blackened stainless steel Burnished brass

STAINLESS STEEL
SCOTCH BRITE



WHITE BRONZE



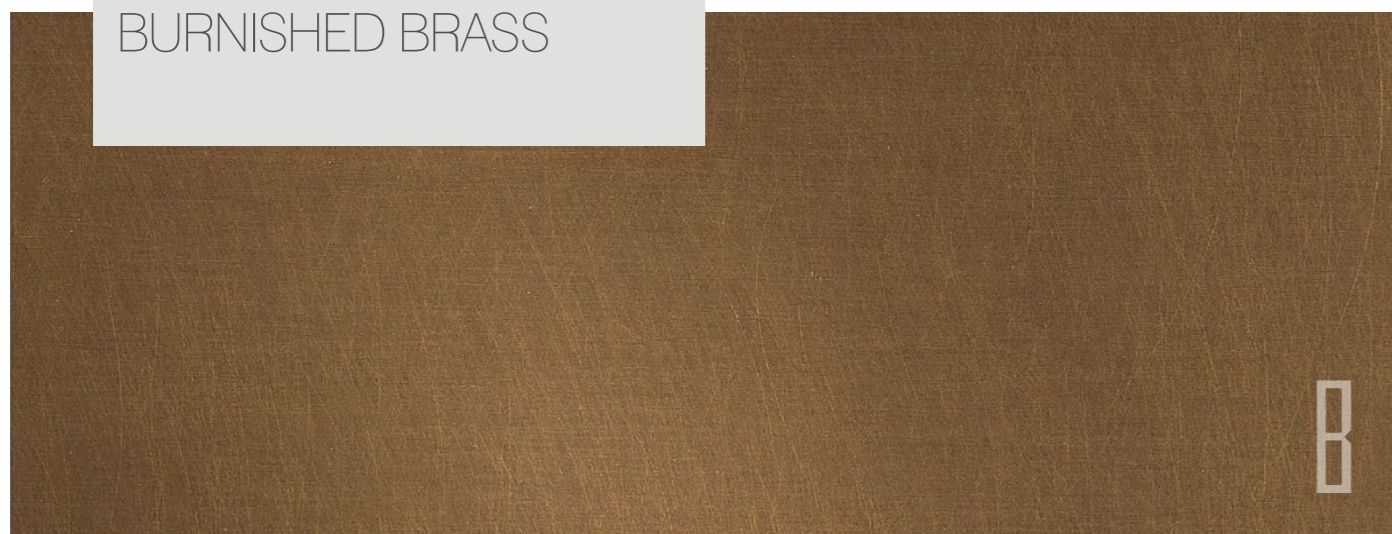
STAINLESS STEEL GLASS
BLASTED BLACKENED



COR-TEN

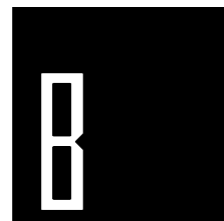


BURNISHED BRASS



PAINTED





BROMBAL

LUXURY METAL WINDOWS AND DOORS

Discover freedom to create.

EUROPE

www.brombal.it
info@brombal.it
+39 0423 566189

NORTH AMERICA

www.brombalusa.com
sales@brombalusa.com
+1 855 287 2258

OCEANIA

www.brombaloceania.com
info@brombaloceania.com
+64 21 661016



BROMBAL