



TECHNOLOGY IN MOTION

MACO EMOTION

Handles



Catalogue

No

Item number



Spindle length



Handle height



Rosette width



Profile depth



Spindle size



Surface



Packer thickness

W

Overall component width

L

Overall component length



Packing unit

PC

Profile cylinder (PC)

RC

Round cylinder (RC)

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1 Technical and general information

1.1 How to use the catalogue

If not otherwise specified, all dimensions are stated in millimetres and packing units in items per box.

Delivery only in whole packaging units - if small quantities are ordered, they are automatically rounded up to the specified packaging unit!

All illustrations are symbolic only and do not claim to be a technically correct match with the hardware components.

The content of this document is constantly being updated, so regular comparison is necessary (please note the date on the back of the document).

The current version is downloadable from our website (www.maco.eu).

Further technical documents are available in our Technical Online Catalogue (<https://ecat.maco.eu>).

No liabilities are accepted for possible printing errors, mistakes or changes.

Please send comments or suggestions about our catalogues by email to feedback@maco.eu.

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1.2 Information on product liability

According to the defined manufacturer's liability described in the "product liability law" (§ 1), the following information regarding handles and lever handles for windows and balcony doors should be observed. Non-compliance exempts the manufacturer of his liability.

1.2.1 Product information and intended use

Handles and lever-handles for windows and balcony doors in the sense of this definition are operational elements for Turn-Only and Tilt&Turn hardware as well as door locks. These are used to move locking components, that is to say; to open, tilt and close windows and balcony doors. Differing applications do not correspond to its specified application. In special cases the fabricator must be sure that the product he has selected is suitable for the intended installation and that the functionality is warranted in the intended application.

MACO handles and lever-handles are supplied as follows:

- Window handles
- Lockable window handles
- Handle / escutcheon cover sets
- Long-plate lever-handle sets
- T-handles, service handles (removable) and Escutcheon cover for service handle
- Handles for Tilt&Slide systems
- Handles for Lift&Slide systems
- Finger pulls

1.2.2 Product installation

The installation of MACO handles and lever-handles is only to be carried out by qualified personnel. The lugs' drill holes are to be drilled in the specified size and position, spindles must have the necessary contact in the sprocket or lever-handle, handles and lever-handles must be mounted in a smooth running and distortion-free manner and screws with the correct length are to

be used. Pay heed to the permanent and firm connection of escutcheon covers or long-plates to windows and balcony-doors.

At all costs avoid the use of force (e.g. a hammer) during installation.

1.2.3 Intended use and misuse

Misuse - therefore not the specified product utilisation - of handles and lever-handles for windows and balcony doors occurs in particular if:

- The force effects exceed normal operational forces by hand, e.g. blocking the operational or locking components.
- Additional loads are created or tools are used (external levers, striking tools, etc.);
- Combinations are created with other components that are not suitable; e.g. handles, lever-handles and pins from other manufacturers;
- Mechanical damage has been caused to the surface-finish e.g. with sharp objects;
- The surface-finish has been damaged by corrosive or abrasive substances (acids, caustic solutions, scouring agents, aggressive household cleaning agents, etc.);
- Soiling for example through builder's dust, lime, plaster, cement and mortar.

1.2.4 Product maintenance

In order to warrant perfect operation of the MACO handles and lever-handles,

- the necessary information and instructions are to be handed over to the appropriate persons;
- the normative references and standards are to be observed;
- MACO handles and lever-handles are to be used in accordance with their stipulated specification of use;
- the manufacturers mandatory regulations regarding the

- combination of hardware components are to be adhered;
- the care and maintenance instructions are to be adhered;
 - the correction of defects may only be carried out by specialised personnel.

1.2.5 Product performance

If the product performances have not been specifically determined in our catalogues and brochures, the requirements of the individual products must be individually agreed upon with us. The product performance information refers only to the use of original MACO parts. The performance capability of handles and lever-handles is dependent among other things on operational frequency, operational manner, environmental influences, maintenance and care.

1.2.6 Surface finishes and care

The surface-finish of MACO handles and lever-handles is carried out using the most modern procedures and ongoing quality assurance. Other materials (e.g. rings) can cause surface-finish damage when in daily use and with it lead to adverse aesthetical effects. Incorrect handling and inadequate care lead to surface-finish damages and with it corrosion. Handles and

lever-handles are to be mounted only upon completion of building and painting work. Only warm water and soft cloths are to be used for cleaning; mild, pH-neutral cleaning agents may be used if badly soiled - on no account may corrosive or abrasive substances be used.

1.2.7 Trade goods

We expressly state

- i. that the present product catalogue also reflects goods that were not manufactured/produced by companies of the MACO Group. These products are marked with footnotes directly below the product table; and
- ii. that all technical specifications, notes, instructions and guidelines of the respective manufacturer, as well as its guarantees and warranties apply; and
- iii. that MACO does not give any warranty and/or guarantee for the above mentioned goods, unless otherwise explicitly agreed in writing with MACO.

List of manufacturers from the respective product line:

- Hoppe AG

1.3 Instructions for storage and transport of fittings

Improper storage and transport of fittings can affect the surface quality. To prevent this, the following points should be noted:

- Ensure that the room air is permanently dry.
- Large temperature fluctuations, which lead to condensation must be prevented. Condensation on fittings means that the galvanized surfaces are attacked (red rust formation).

- Aggressive vapors by cleaners or assembly aids such as silicone, and the like must - be avoided - even briefly. Vapors of such substances can cause very rapid corrosion of fittings.
- Salty air or polluted by industrial air causes galvanized surfaces to corrode and can leave deposits.

1.4 Certificates and guarantees

MACO ensures high quality, not only with ongoing continuous internal testing, but also through external auditing by renowned, independent institutes. Copies of all our current independent test certificates, covering our quality, safety and environmental management systems, as well as our product

guarantees are available to download from our website www.maco.eu. In addition our safety descriptions relating to dangerous substances (RoHS and REACH Declaration) are available, covering all MACO products.

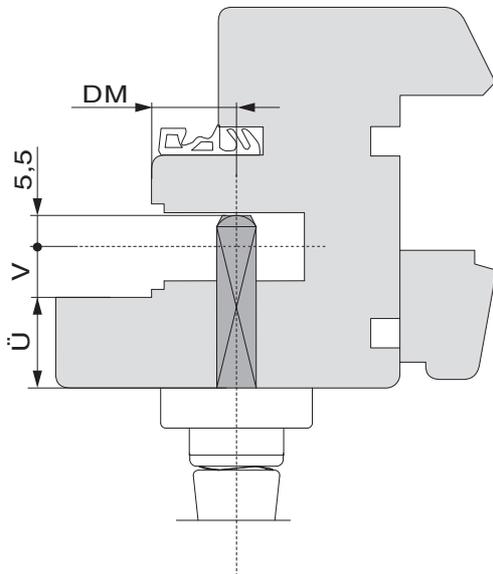
1.5 General terms and conditions (GTC)

Our current general terms and conditions are available for download from our website (www.maco.eu).

1.6 Technical assembly instructions

1.6.1 Tilt&turn, tilt-first, turn-only elements

Calculation of pin length



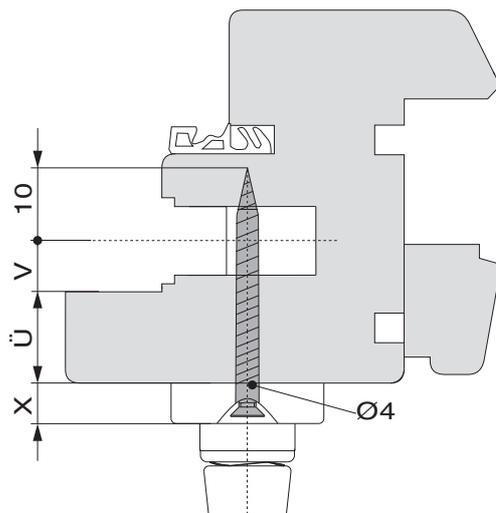
\ddot{U} = Overlap

V = Offset fitting axis

DM = backset (BS)

Calculation of screw length

chipboard screws

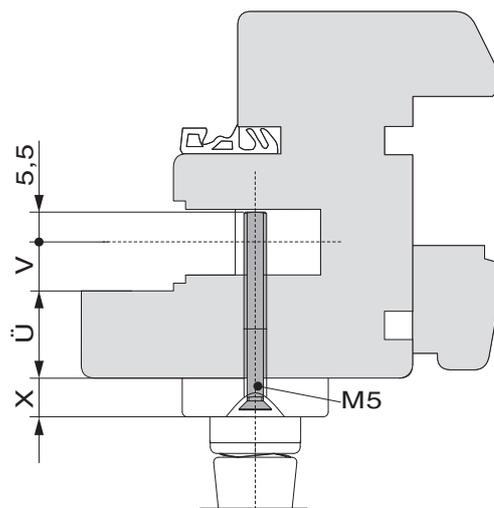


$X = 8 \text{ mm}$: Harmony

\ddot{U} = Overlap

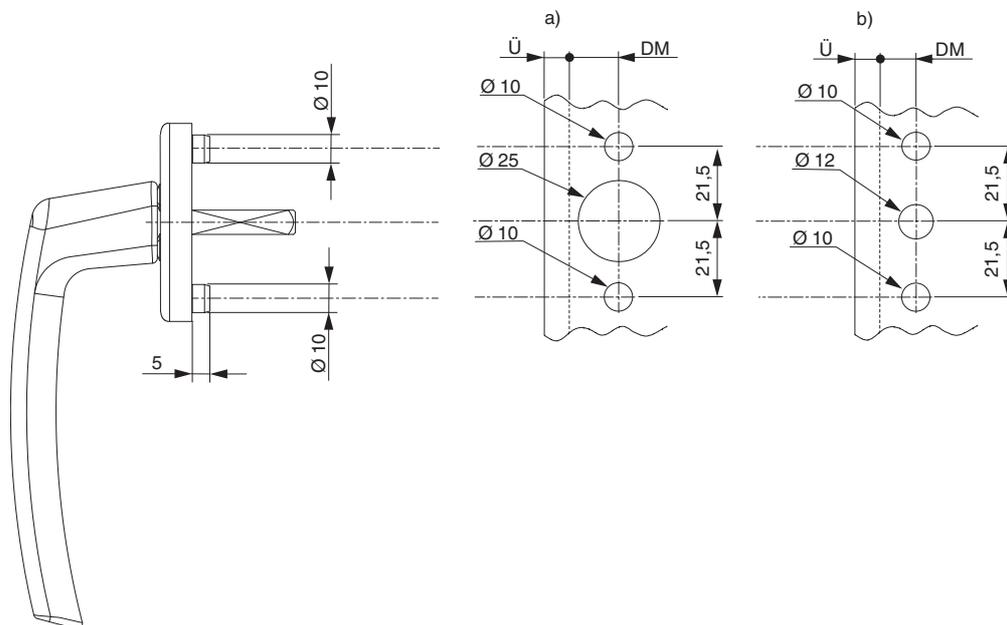
V = Offset fitting axis

metric screws



Drilling hole patterns

Rosette with lugs $\varnothing 10$

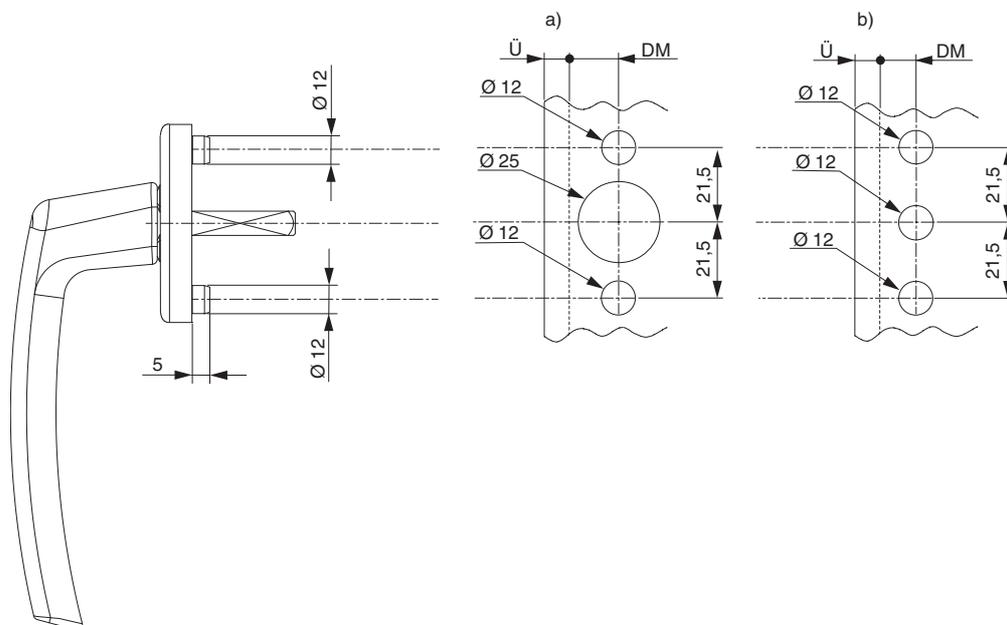


The pins are intended to provide greater stability to the handle.

a) timber profiles

b) PVC profiles

Rosette with lugs $\varnothing 12$



The pins are intended to provide greater stability to the handle.

a) timber profiles

b) PVC profiles

Further processing instructions can be found in our technical online catalogue (eCat).

Technical and general information

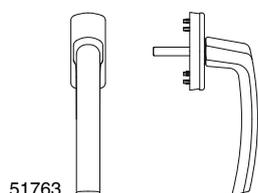


2 HARMONY

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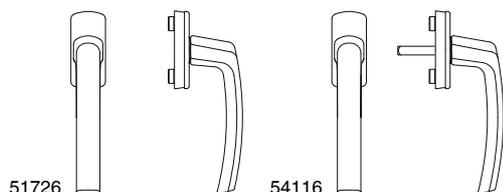
2 HARMONY

2.1 Window Handles



51763

2.1.1 Lugs 10									No
bronze	F6	55	28	pin	35	7	anodised	20	28856
grey brown	RAL 8019	55	28	pin	35	7	PVC coated	20	51856
silver	F1	55	28	pin	32	7	anodised	20	53972
					35	7	anodised	20	52116
titanium	F7	55	28	pin	32	7	anodised	20	28901
					35	7	anodised	20	28861
traffic white	RAL 9016	55	28	pin	32	7	PVC coated	20	51763
					35	7	PVC coated	20	51750



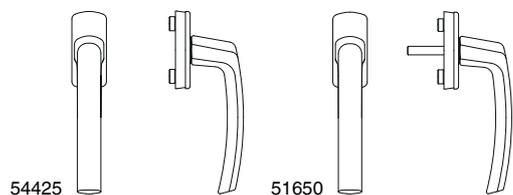
51726

54116

2.1.2 Lugs 10/12									No
bronze	F6	55	28	without spindle	7		anodised	20	28738
				pin	32	7	anodised	20	54117
					35	7	anodised	20	28857
champagne	F2	55	28	without spindle	7		anodised	20	28719
				pin	32	7	anodised	20	54115
grey brown	RAL 8019	55	28	without spindle	7		PVC coated	20	54133
jet black	RAL 9005	55	28	without spindle	7		powder coated	20	229392
				pin	32	7	powder coated	20	227134¹
silver	F1	55	28	without spindle	7		anodised	20	55821
				pin	32	7	anodised	20	53979
					35	7	anodised	20	55508
titanium	F7	55	28	without spindle	7		anodised	20	20695
				pin	32	7	anodised	20	28902
traffic white	RAL 9016	55	28	without spindle	7		PVC coated	20	51726
				pin	32	7	PVC coated	20	54116
					35	7	PVC coated	20	54099

¹ Order 2 screws, item no. X11092, for each handle.

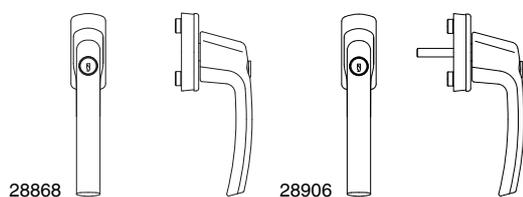
2.2 Window Handles with 45°-Rest



2.2.1 Lugs 10/12											No
bronze	F6	55	28	without spindle	7		anodised	20			23213
				pin	35	7	anodised	20		51822	
champagne	F2	55	28	pin	35	7	anodised	20			54171
grey brown	RAL 8019	55	28	without spindle	7		PVC coated	20			220598
				pin	35	7	PVC coated	20		220597	
silver	F1	55	28	without spindle	7		anodised	20			205152
				pin	32	7	anodised	20		55713	
					35	7	anodised	20		220629	
titanium	F7	55	28	without spindle	7		anodised	20			23177
				pin	32	7	anodised	20		20415	
					35	7	anodised	20		54532	
traffic white	RAL 9016	55	28	without spindle	7		PVC coated	20			54425
				pin	35	7	PVC coated	20		51650	

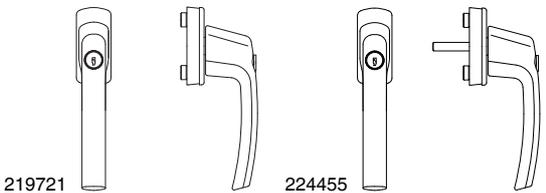


2.3 Window Handles with 45°-Rest and Key Locking



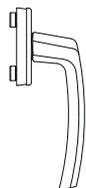
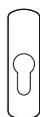
2.3.1 Lugs 10/12									No
bronze	F6	55	28	without spindle	7	anodised	10	28870	
				pin	35	7	anodised	10	21385
champagne	F2	55	28	without spindle	7	anodised	10	28869	
				pin	35	7	anodised	10	21328
grey brown	RAL 8019	55	28	without spindle	7	powder coated	10	54142	
jet black	RAL 9005	55	28	without spindle	7	powder coated	10	227691	
silver	F1	55	28	without spindle	7	anodised	10	55822	
				pin	32	7	anodised	10	54440
					35	7	anodised	10	220630
titanium	F7	55	28	without spindle	7	anodised	10	28871	
				pin	32	7	anodised	10	28903
					35	7	anodised	10	21329
traffic white	RAL 9016	55	28	without spindle	7	powder coated	10	28868	
				pin	32	7	powder coated	10	28906
					35	7	powder coated	10	21381

2.5 Window Handles with key locking for tilt first fittings



2.5.1 Lugs 10/12									No
jet black	RAL 9005	55	28	without spindle	7	powder coated		10	226953
silver	F1	55	28	without spindle	7	anodised		10	219716
				pin	35	7	anodised	10	219223
titanium	F7	55	28	without spindle	7	anodised		10	219720
traffic white	RAL 9016	55	28	without spindle	7	powder coated		10	219721
				pin	32	7	powder coated	10	224455
					35	7	powder coated	10	219568

2.6 Handle and rosette sets for profile cylinder



11072

2.6.1 Internal Handle, Lugs 12								No	
bronze	F6	PC	55	28	without spindle	7	anodised	10	11073
grey brown	RAL 8019	PC	55	28	without spindle	7	PVC coated	10	101795
jet black	RAL 9005	PC	55	28	without spindle	7	powder coated	10	105905
silver	F1	PC	55	28	without spindle	7	anodised	10	11075
titanium	F7	PC	55	28	without spindle	7	anodised	10	11074
traffic white	RAL 9016	PC	55	28	without spindle	7	PVC coated	10	11072



105667

2.6.2 External Handle High, Lugs 12								No	
bronze	F6	PC	51	26	without spindle	7	anodised	10	105661
grey brown	RAL 8019	PC	51	26	without spindle	7	powder coated	10	105663
jet black	RAL 9005	PC	51	26	without spindle	7	powder coated	10	105906
silver	F1	PC	51	26	without spindle	7	anodised	10	105665
titanium	F7	PC	51	26	without spindle	7	anodised	10	105666
traffic white	RAL 9016	PC	51	26	without spindle	7	powder coated	10	105667



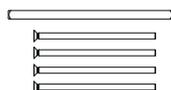
105749

2.6.3 Spindle and screws for handle and rosette sets high					No	
Spindle and screws for handle and rosette sets high and low						
				67,5-76	10	105746
				76-86	10	105747
				86-96	10	105748
				96-106	10	105749



105674

2.6.4 External Handle Low, Lugs 12									No
silver	F1	PC	32	26	without spindle	7	anodised	10	105672
titanium	F7	PC	32	26	without spindle	7	anodised	10	105673
traffic white	RAL 9016	PC	32	26	without spindle	7	powder coated	10	105674



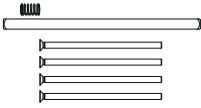
105749

2.6.5 Spindle and screws for handle and rosette sets low									No
Spindle and screws for handle and rosette sets high and low							67,5-76	10	105746
							76-86	10	105747
							86-96	10	105748
							96-106	10	105749



105681

2.6.6 External Handle Flat, Lugs 12									No
grey brown	RAL 8019	PC	19	26	without spindle	7	powder coated	10	105677
silver	F1	PC	19	26	without spindle	7	anodised	10	105679
titanium	F7	PC	19	26	without spindle	7	anodised	10	105680
traffic white	RAL 9016	PC	19	26	without spindle	7	powder coated	10	105681



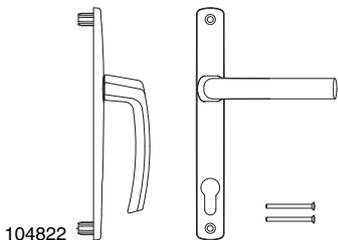
105754

2.6.7 Spindle and screws for handle and rosette sets flat			
Spindle, screws and spring for handle and rosette sets low	64-72	10	105750
	72-82	10	105751
	82-92	10	105752
	92-102	10	105753
	102-112	10	105754



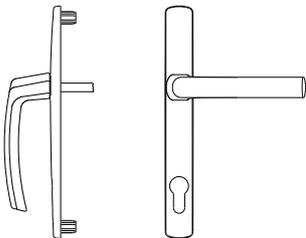
2.7 Door Handle sets

2.7.1 for Profile Cylinder E92, Screw Position 65 mm above Handle Spindle Centre



104822

2.7.1.1 Internal Handle, Lugs 12									No
jet black	RAL 9005	PC	64 - 73	92	26	8	powder coated	10	104822



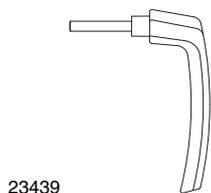
104823

2.7.1.2 External Handle High, Lugs 12									No
jet black	RAL 9005	PC	64 - 73	92	26	8	powder coated	10	104823



2.8 Handle rosettes with cover plate, lugs 10/12

					No
champagne		28	anodised	20	28657
jet black	RAL 9005	28	powder coated	20	251390
silver		28	anodised	20	20506
titanium		28	anodised	20	28651
traffic white	RAL 9016	28	PVC	20	52202



2.9 Detachable Handles

							No	
champagne	F2	55	pin	43	7	anodised	20	27411
silver	F1	55	pin	43	7	anodised	20	54341
traffic white	RAL 9016	55	pin	43	7	powder coated	20	23439



2.10 Packer for Handle rosette Harmony

			W		No
silver		3	28	100	220086

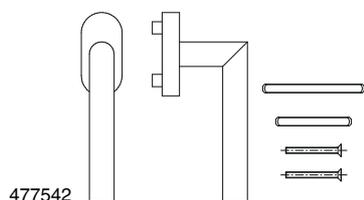


3 UNITY

3.1	Window Handles	24
3.2	Window Handles with Key Locking	25

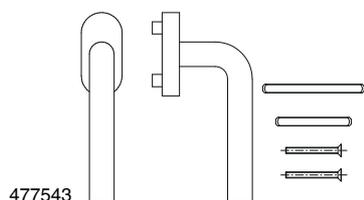
3 UNITY

3.1 Window Handles



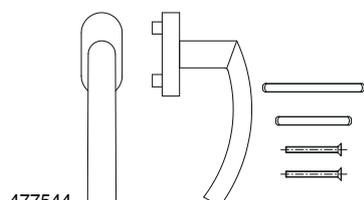
477542

3.1.1 Window Handle B02							No			
stainless steel	matt	M5 x 45	69	33	pin	24 - 32	36 - 42	7	1	477542



477543

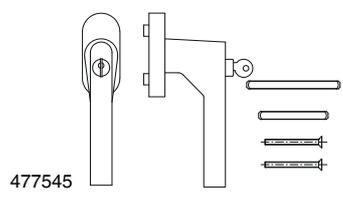
3.1.2 Window Handle B03							No			
stainless steel	matt	M5 x 45	73	33	pin	24 - 32	36 - 42	7	1	477543



477544

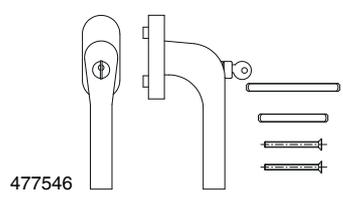
3.1.3 Window Handle B07							No			
stainless steel	matt	M5 x 45	72,5	33	pin	24 - 32	36 - 42	7	1	477544

3.2 Window Handles with Key Locking



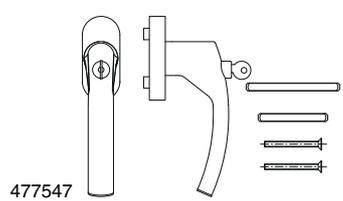
477545										
3.2.1 Window Handle lockable B02										No
stainless steel	matt	M5 x 50	67	33	pin	24 - 31	36 - 42	7	1	477545 ¹

¹ Tear and twist resistance tested at 100 Nm.



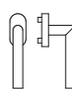
477546										
3.2.2 Window Handle lockable B03										No
stainless steel	matt	M5 x 50	67	33	pin	24 - 31	36 - 42	7	1	477546 ¹

¹ Tear and twist resistance tested at 100 Nm.



477547										
3.2.3 Window Handle lockable B07										No
stainless steel	matt	M5 x 50	69,5	33	pin	24 - 31	36 - 42	7	1	477547 ¹

¹ Tear and twist resistance tested at 100 Nm.



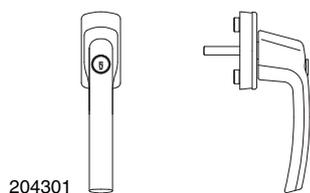


4 TRESOR

- | | | |
|-----|---|----|
| 4.1 | Window handles with key locking, for burglar resistant windows according to standard EN 1627 | 28 |
| 4.2 | Window handles with locking button, for burglar resistant windows according to standard EN 1627 | 29 |

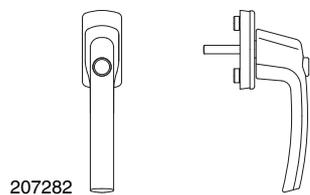
4 TRESOR

4.1 Window handles with key locking, for burglar resistant windows according to standard EN 1627



4.1.1 Lugs 10/12																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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4.2 Window handles with locking button, for burglar resistant windows according to standard EN 1627



4.2.1 Lugs 10/12															No
silver		58	32	pin	35	7	paint	10	58875						
					38	7	paint	10	209357						
					40	7	paint	10	207283						
titanium		58	32	pin	35	7	paint	10	55708						
					40	7	paint	10	215359						
traffic white	RAL 9016	58	32	pin	35	7	powder coated	10	55270						
					38	7	powder coated	10	209361						
					40	7	powder coated	10	207282						
					43	7	powder coated	10	224727						





5 Finger Pull

5.1	Finger Pull Aluminium	32
5.2	Finger Pull PVC	33

5 Finger Pull

5.1 Finger Pull Aluminium



30719

5.1.1 BASE				N^o
black brown	F5	anodised	20	39589
bronze	F6	anodised	20	38162
champagne	F2	anodised	20	30290
jet black	RAL 9005	powder coated	20	373449
silver	F1	anodised	20	36870
titanium	F7	anodised	20	38163
traffic white	RAL 9016	powder coated	20	30719



220536

5.1.2 SOFT-L				N^o
black brown	F5	anodised	15	220743
bronze	F6	anodised	15	220739
champagne	F2	anodised	15	220740
silver	F1	anodised	15	97507
titanium	F7	anodised	15	97508
traffic white	RAL 9016	powder coated	20	220536



59150

5.1.3 SOFT				N^o
black brown	F5	anodised	20	220744
bronze	F6	anodised	20	59147
champagne	F2	anodised	20	59149
silver	F1	anodised	20	59148
titanium	F7	anodised	20	59146
traffic white	RAL 9016	powder coated	20	59150

5.2 Finger Pull PVC



5.2.1 LIGHT

				No
grey brown	RAL 8019	PVC	20	10600
traffic white	RAL 9016	PVC	20	10599





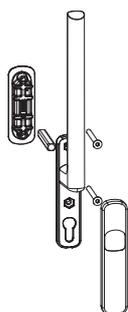
6 Handles for Sliding Systems

6.1	Handles for Lift and Slide Systems	36
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6 Handles for Sliding Systems

6.1 Handles for Lift and Slide Systems

6.1.1 HS-Handle 12 — Handle sets, Lugs 10



103632

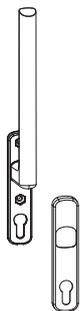
6.1.1.1 With Cover Plate and Short Finger Pull							No
black brown	RAL 8022	79	68	10	powder coated	1	103631
silver	F1	79	68	10	anodised	1	103632
			78	10	anodised	1	103638
			88	10	anodised	1	104247
			108	10	anodised	1	103814
titanium	F7	79	68	10	anodised	1	103633
			78	10	anodised	1	103639
			108	10	anodised	1	103815
traffic white	RAL 9016	79	68	10	powder coated	1	103634
			78	10	powder coated	1	103640
			108	10	powder coated	1	103816



218397

6.1.1.2 With Cover Plate						No
black brown	RAL 8022	79	10	powder coated	1	218396
bronze	F6	79	10	anodised	1	218394
silver	F1	79	10	anodised	1	218397
titanium	F7	79	10	anodised	1	218398
traffic white	RAL 9016	79	10	powder coated	1	218399

Handles for sliding systems



218403

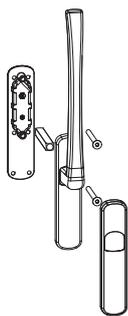
6.1.1.3 With Cover Plate PC						No
black brown	RAL 8022	79	10	powder coated	1	218402
bronze	F6	79	10	anodised	1	218400
silver	F1	79	10	anodised	1	218403
titanium	F7	79	10	anodised	1	218404
traffic white	RAL 9016	79	10	powder coated	1	218405



365924

6.1.1.4 Cover Plates without holes				No
silver		anodised	10	365924
titanium		anodised	10	365925
traffic white	RAL 9016	powder coated	10	365926

6.1.2 HS-Handle sets

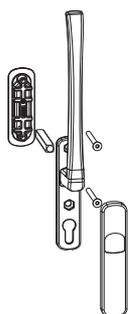


13341

6.1.2.1 with Cover Plate and Finger Pull							No
silver	F1	70	58	10	anodised	1	13339
			68	10	anodised	1	13341
titanium	F7	70	68	10	anodised	1	10210
traffic white	RAL 9016	70	68	10	powder coated	1	13352

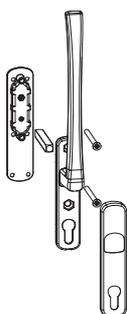


Handles for sliding systems



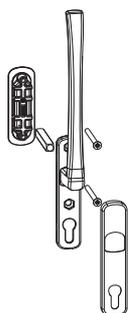
101841

6.1.2.2 With Cover Plate and short Finger Pull							No
black brown	F5	70	68	10	anodised	1	101864
bronze	F6	70	68	10	anodised	1	101835
silver	F1	70	68	10	anodised	1	101841
titanium	F7	70	68	10	anodised	1	101843
traffic white	RAL 9016	70	68	10	powder coated	1	101845



10549

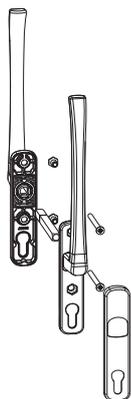
6.1.2.3 with Cover Plate PC and Finger Pull							No
silver	F1	70	58	10	anodised	1	10548
			68	10	anodised	1	10549



101851

6.1.2.4 With Cover Plate PC and short Finger Pull							No
silver	F1	70	68	10	anodised	1	101851
titanium	F7	70	68	10	anodised	1	101853

Handles for sliding systems



13343

6.1.2.5 HS-Handle Set Internal and External Cover Plate PC							No
black brown	F5	70	68	10	anodised	1	13344¹
silver	F1	70	68	10	anodised	1	13343¹

¹ For sash 56 mm order screws 42163.



28576

6.1.2.6 With Cover Plate						No
black brown	F5	70	10	anodised	1	28580
bronze	F6	70	10	anodised	1	21422
champagne	F2	70	10	anodised	1	28578
silver	F1	70	10	anodised	1	28576
titanium	F7	70	10	anodised	1	28043
traffic white	RAL 9016	70	10	powder coated	1	28972



28044

6.1.2.7 With Cover Plate PC						No
silver	F1	70	10	anodised	1	28577
titanium	F7	70	10	anodised	1	28044
traffic white	RAL 9016	70	10	powder coated	1	28973



Handles for sliding systems



7 Accessories

7.1	Spindles Loose	42
7.2	Spacer ring for handle, Lugs 10/12	42
7.3	Key for handles with key locking	42

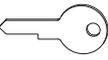
7 Accessories

39013 

7.1 Spindles Loose	L				N^o
square spindle	52	26	7	200	39013
	56	30	7	200	39029
	58	32	7	200	372238
	61	35	7	200	30717
	64	38	7	20	94228
	66	40	7	200	372239
	69	43	7	200	39014
	76	50	7	200	30765

40017 

7.2 Spacer ring for handle, Lugs 10/12		N^o
spacer ring for handle lugs D= 9.6 & 11.6 mm	500	40017

42600 

7.3 Key for handles with key locking		N^o
key for locking handle silver	10	42600

8 Directory

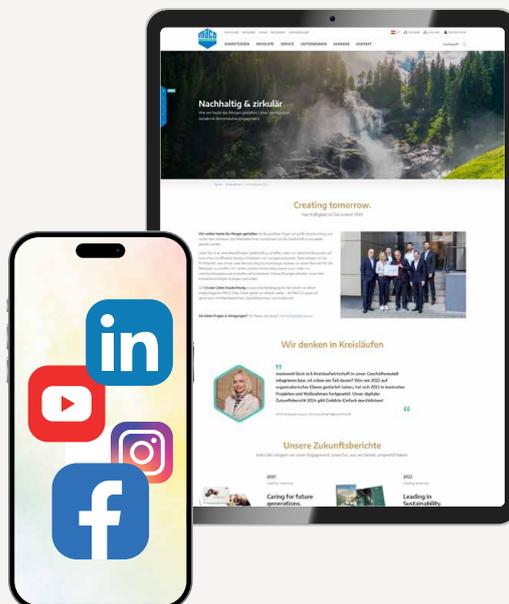
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97508	15	32

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