

TECHNOLOGY IN MOTION



# MACO EMOTION HANDLES



Catalogue



**No**

Part number



Spindle length



Grip Height



Rosette width



Door leaf width



Handle centre (E)



Profile depth



Spindle size



Surface



Packer thickness

**W**

Overall component width

**L**

Overall component length



Packing unit

**PZ** Profile cylinder (PC)

**RZ** Round cylinder (RC)

**E =** Handle centre (E)

**SKB** Handles for Sliding Systems

**HS** Handles for Lift and Slide

**RC** resistance class

**RC** resistance class

<b>1</b>	<b>Technical and general information</b>	<b><i>i</i></b>	<b>5</b>
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<b>6</b>	<b>Unity</b>		<b>41</b>
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<b>8</b>	<b>Wrought Iron Handle</b>		<b>49</b>
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MACO  
EMOTION





## 1 Technical and general information

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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.

Drawings and diagrams are not to scale.

The content of this document is constantly being updated, so regular comparison is necessary.

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

The current version is downloadable from our website ([www.maco.eu](http://www.maco.eu)).

Please send comments or suggestions about our catalogues by email to [feedback@maco.eu](mailto:feedback@maco.eu).



## 1.2 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 specified application

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 Abnormal 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 le-

vers, 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 aesthetic 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.



### 1.3 Storage instructions fittings

Improper storage 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.

- 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](http://www.maco.eu). In addition our safety descriptions relating to dangerous substances (REACH Declaration) are available, covering all MACO products.

### 1.5 General terms and conditions (T&Cs)

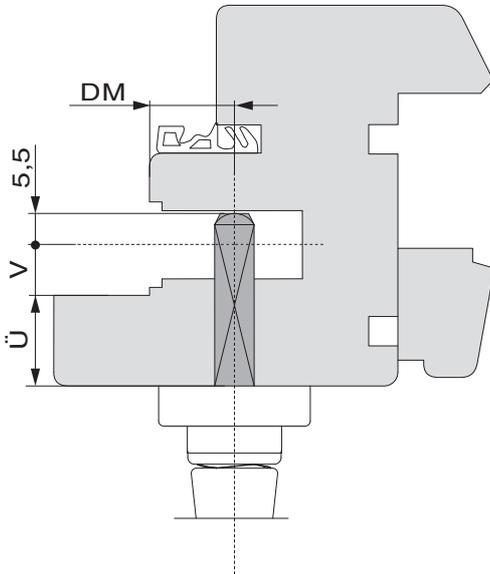
Our current general terms and conditions are available for download from our website ([www.maco.eu](http://www.maco.eu)).

## 1.6 Technical assembly instructions

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



#### Calculation of pin length



Ü = Overlap

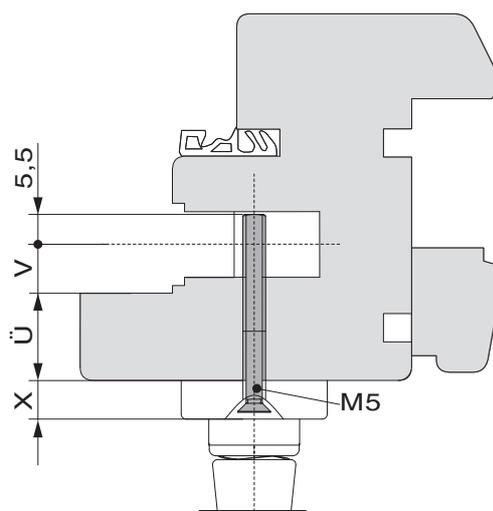
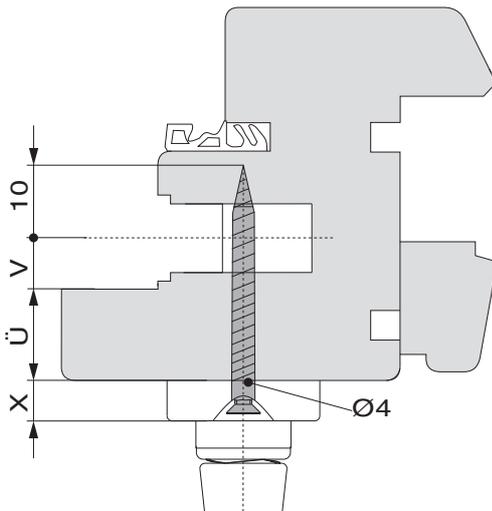
V = Offset: 13 mm

DM = backset (BS)

#### Calculation of screw length

chipboard screws

metric screws



X = 8 mm: Harmony, Symphony

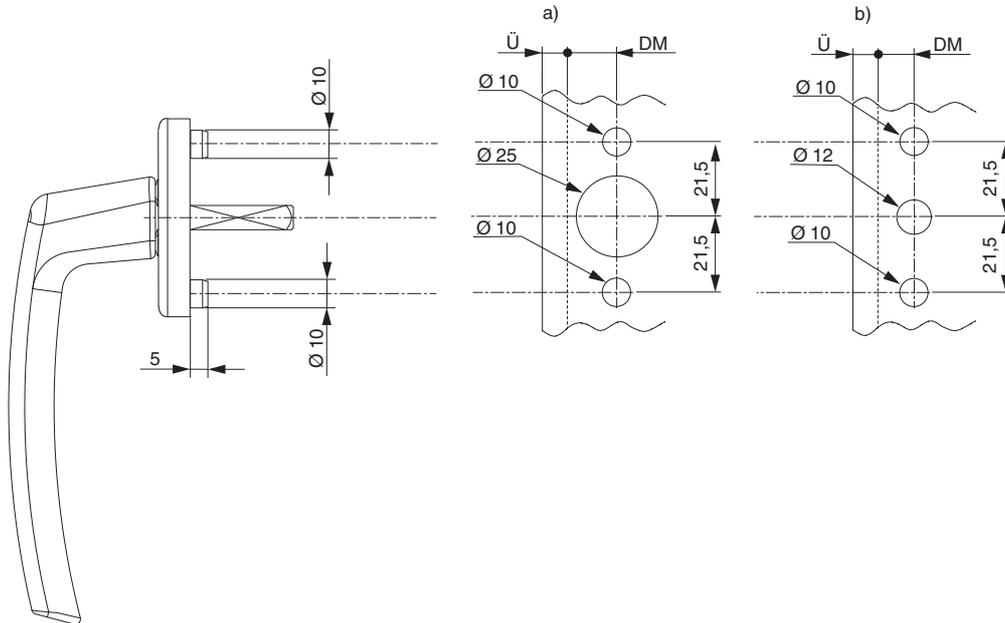
X = 9.5 mm: Rhapsody

Ü = Overlap

V = Offset: 13 mm

**Drilling hole patterns**

**Rosette with lugs  $\varnothing 10$**

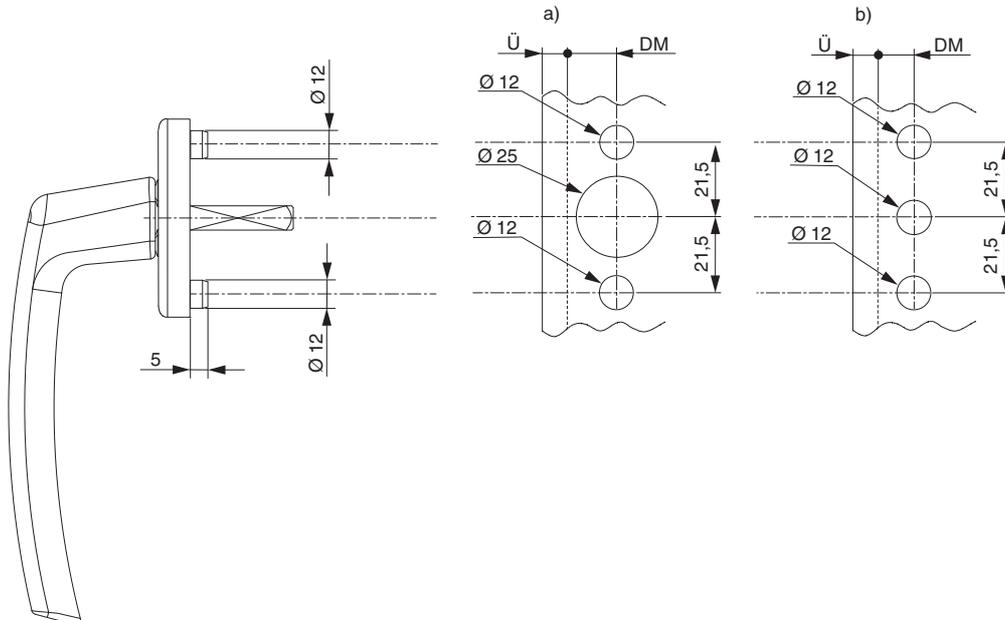


The pins are intended to provide greater stability to the handle.

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

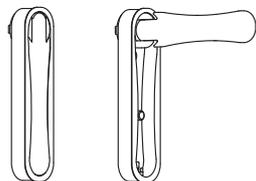


## 2 TENTAZIONE

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2.1	Concealed window handle	12
2.2	Routing jig	12

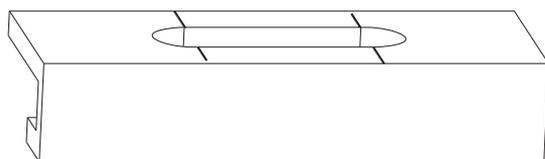
## 2 TENTAZIONE



461769

T	2.1 Concealed window handle							No
	brush-finished chrome	4,5	30	37	7	chrome-plated	1	461770 <sup>1</sup>
	brush-finished nickel	4,5	30	37	7	nickel-plated	1	461773 <sup>1</sup>
	gold look	4,5	30	37	7	gold plated	1	461769 <sup>1</sup>
	polished chrome	4,5	30	37	7	chrome-plated	1	461771 <sup>1</sup>
	traffic white RAL 9016	4,5	30	37	7	powder coated	1	461772 <sup>1</sup>

<sup>1</sup> Use in PVC and aluminium profiles on request



461889

2.2 Routing jig		No
routing template for Tentazione window handle timber	1	461889



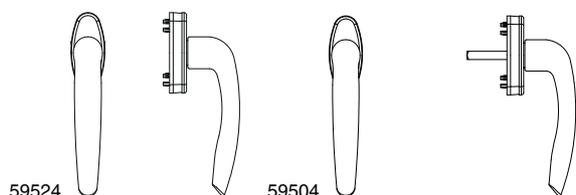
### 3 Rhapsody

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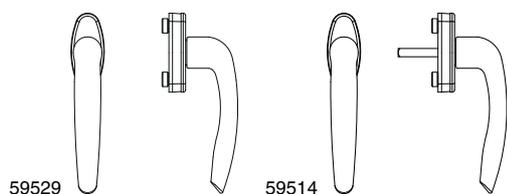
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### 3 RHAPSODY

#### 3.1 Window Handle

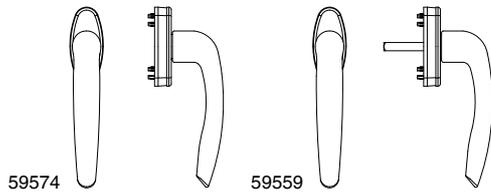


3.1.1 Lugs 10							No
bronze	57	30	0	7	anodised	20	59521
			32	7	anodised	20	59501
			35	7	anodised	20	59506
champagne	57	30	0	7	anodised	20	59523
			32	7	anodised	20	59503
			35	7	anodised	20	59508
silver	57	30	0	7	anodised	20	59522
			32	7	anodised	20	59502
			35	7	anodised	20	59507
titanium	57	30	0	7	anodised	20	59520
			32	7	anodised	20	59500
			35	7	anodised	20	59505
traffic white RAL 9016	57	30	0	7	PVC coated	20	59524
			32	7	PVC coated	20	59504
			35	7	PVC coated	20	59509

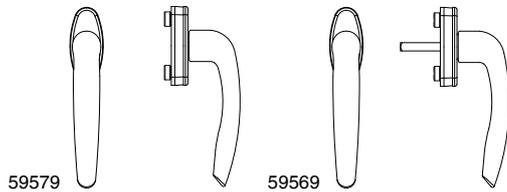


3.1.2 Lugs 10/12							No
bronze	57	30	0	7	anodised	20	59526
			32	7	anodised	20	59511
			35	7	anodised	20	59516
champagne	57	30	32	7	anodised	20	59513
			35	7	anodised	20	59518
			0	7	anodised	20	59527
silver	57	30	32	7	anodised	20	59512
			35	7	anodised	20	59517
			0	7	anodised	20	59525
titanium	57	30	32	7	anodised	20	59510
			35	7	anodised	20	59515
			0	7	PVC coated	20	59529
traffic white RAL 9016	57	30	32	7	PVC coated	20	59514
			35	7	PVC coated	20	59519
			0	7	PVC coated	20	59519

### 3.2 Window Handle with 45°-Rest

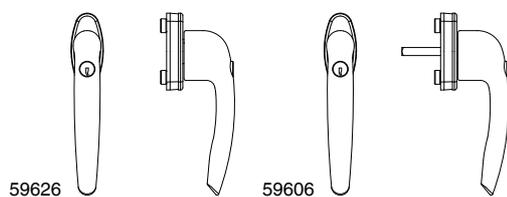


3.2.1 Lugs 10								No
	57	30	0	7				
bronze			0	7	anodised	20	<b>59571</b>	
			35	7	anodised	20	<b>59556</b>	
			43	7	anodised	20	<b>229038</b>	
champagne			0	7	anodised	20	<b>59573</b>	
			35	7	anodised	20	<b>59558</b>	
			43	7	anodised	20	<b>229039</b>	
silver			0	7	anodised	20	<b>59572</b>	
			35	7	anodised	20	<b>59557</b>	
			43	7	anodised	20	<b>229040</b>	
titanium			0	7	anodised	20	<b>59570</b>	
			35	7	anodised	20	<b>59555</b>	
			43	7	anodised	20	<b>229041</b>	
traffic white RAL 9016			0	7	PVC coated	20	<b>59574</b>	
			35	7	PVC coated	20	<b>59559</b>	
			43	7	PVC coated	20	<b>229042</b>	



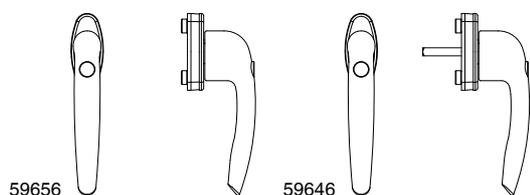
3.2.2 Lugs 10/12								No
	57	30	0	7				
bronze			0	7	anodised	20	<b>59576</b>	
champagne			0	7	anodised	20	<b>59578</b>	
silver			0	7	anodised	20	<b>59577</b>	
			35	7	anodised	20	<b>59567</b>	
			40	7	anodised	50	<b>229043</b>	
titanium			0	7	anodised	20	<b>59575</b>	
			35	7	anodised	20	<b>59565</b>	
			0	7	PVC coated	20	<b>59579</b>	
traffic white RAL 9016			35	7	PVC coated	20	<b>59569</b>	

### 3.3 Window Handle with 45°-Rest and Key Locking



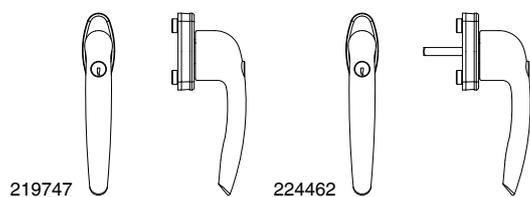
3.3.1 Lugs 10/12								No
bronze		57	30	0	7	anodised	10	<b>59623</b>
champagne		57	30	0	7	anodised	10	<b>59625</b>
silver		57	30	0	7	anodised	10	<b>59624</b>
	32			7	anodised	10	<b>59604</b>	
	35			7	anodised	10	<b>59614</b>	
titanium		57	30	0	7	anodised	10	<b>59622</b>
	32			7	anodised	10	<b>59602</b>	
	35			7	anodised	10	<b>59612</b>	
traffic white RAL 9016		57	30	0	7	powder coated	10	<b>59626</b>
	32			7	powder coated	10	<b>59606</b>	
	35			7	powder coated	10	<b>59616</b>	

### 3.4 Window Handle with 45°-Rest and Locking Button



3.4.1 Lugs 10/12								No
bronze		57	30	0	7	anodised	10	<b>59653</b>
champagne		57	30	0	7	anodised	10	<b>59655</b>
silver		57	30	0	7	anodised	10	<b>59654</b>
	32			7	anodised	10	<b>59634</b>	
	35			7	anodised	10	<b>59644</b>	
titanium		57	30	0	7	anodised	10	<b>59652</b>
	32			7	anodised	10	<b>59632</b>	
	35			7	anodised	10	<b>59642</b>	
traffic white RAL 9016		57	30	0	7	powder coated	10	<b>59656</b>
	35			7	powder coated	10	<b>59646</b>	

### 3.5 Window handles with key locking for tilt first fittings

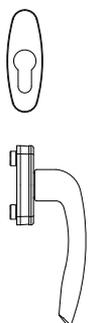


3.5.1 Lugs 10/12										No
	57	28	32	7	40	7				
bronze			32	7	40	7		anodised	10	<b>224464</b>
								anodised	10	<b>224079</b>
champagne	57	28	0	7				anodised	10	<b>219743</b>
grey brown RAL 8019	57	28	0	7				powder coated	10	<b>219748</b>
			40	7				powder coated	10	<b>224082</b>
silver	57	28	0	7				anodised	10	<b>219742</b>
			35	7				anodised	10	<b>219222</b>
			40	7				anodised	10	<b>224075</b>
titanium	57	28	0	7				anodised	10	<b>219746</b>
			35	7				anodised	10	<b>219739</b>
			40	7				anodised	10	<b>224080</b>
			43	7				anodised	10	<b>224453</b>
traffic white RAL 9016	57	28	0	7				powder coated	10	<b>219747</b>
			32	7				powder coated	10	<b>224462</b>
			35	7				powder coated	10	<b>219740</b>
			40	7				powder coated	10	<b>224081</b>



### 3.6 Handle and rosette sets

#### 3.6.1 for Profile Cylinder



14607

3.6.1.1 Internal Handle, Lugs 12							No
bronze	PC	57	30	7	anodised	10	<b>14604</b>
champagne	PC	57	30	7	anodised	10	<b>14606</b>
silver	PC	57	30	7	anodised	10	<b>14605</b>
titanium	PC	57	30	7	anodised	10	<b>14603</b>
traffic white RAL 9016	PC	57	30	7	PVC coated	10	<b>14607</b>



105650

3.6.1.2 External Handle High, Lugs 12				No
bronze	PC	anodised	10	<b>105646</b>
champagne	PC	anodised	10	<b>105647</b>
silver	PC	anodised	10	<b>105648</b>
titanium	PC	anodised	10	<b>105649</b>
traffic white RAL 9016	PC	powder coated	10	<b>105650</b>



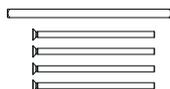
105749

3.6.1.3 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	<b>105746</b>
		76-86	10	<b>105747</b>
		86-96	10	<b>105748</b>
		96-106	10	<b>105749</b>



105655

<b>3.6.1.4 External Handle Low, Lugs 12</b>				<b>Nº</b>
bronze	PC	anodised	10	<b>105651</b>
champagne	PC	anodised	10	<b>105652</b>
silver	PC	anodised	10	<b>105653</b>
titanium	PC	anodised	10	<b>105654</b>
traffic white RAL 9016	PC	powder coated	10	<b>105655</b>



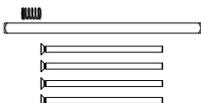
105749

<b>3.6.1.5 Spindle and screws for handle and rosette sets low</b>				<b>Nº</b>
Spindle and screws for handle and rosette sets high and low		67,5-76	10	<b>105746</b>
		76-86	10	<b>105747</b>
		86-96	10	<b>105748</b>
		96-106	10	<b>105749</b>



105660

<b>3.6.1.6 External Handle Flat, Lugs 12</b>				<b>Nº</b>
bronze	PC	anodised	10	<b>105656</b>
champagne	PC	anodised	10	<b>105657</b>
silver	PC	anodised	10	<b>105658</b>
titanium	PC	anodised	10	<b>105659</b>
traffic white RAL 9016	PC	powder coated	10	<b>105660</b>



105754

### 3.6.1.7 Spindle and screws for handle and rosette sets flat



**No**

Spindle, screws and spring for handle and rosette sets low

64-72	10	<b>105750</b>
72-82	10	<b>105751</b>
82-92	10	<b>105752</b>
92-102	10	<b>105753</b>
102-112	10	<b>105754</b>

### 3.6.2 for Round Cylinder



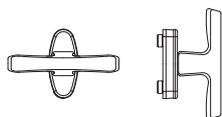
105235

#### 3.6.2.1 Cylinder rosettes internal and external



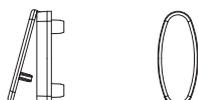
**No**

bronze	RC	dyed / anodised	20	<b>105236</b>
champagne	RC	dyed / anodised	20	<b>105237</b>
titanium	RC	dyed / anodised	20	<b>105239</b>
traffic white RAL 9016	RC	dyed / anodised	20	<b>105235</b>



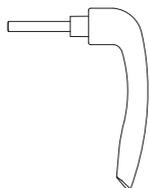
59774

3.7 T - Bar Handle, Lugs 10/12					<b>Nº</b>
bronze	30	7	anodised	20	<b>59772</b>
champagne	30	7	anodised	20	<b>59771</b>
silver	30	7	anodised	20	<b>59770</b>
titanium	30	7	anodised	20	<b>59773</b>
traffic white RAL 9016	30	7	powder coated	20	<b>59774</b>



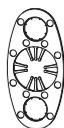
59790

3.8 Handle rosettes with cover plate, Lugs 10/12				<b>Nº</b>
bronze	30	7	20	<b>59794</b>
champagne	30	7	20	<b>59792</b>
titanium	30	7	20	<b>59793</b>
traffic white RAL 9016	30	7	Solid PVC	<b>59790</b>



59780

3.9 Detachable Handle					<b>Nº</b>
silver	43	7	anodised	20	<b>59780</b>



368392

3.10 Accessories for Rhapsody		<b>Nº</b>
acoustic underlay for grip Rhapsody titanium	100	<b>368614</b>
acoustic underlay for grip Rhapsody traffic white RAL 9016	100	<b>368392</b>



MACO  
EMOTION



RHAPSODY



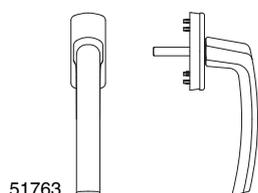
## 4 HARMONY

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4.1	Window Handle	24
4.2	Window Handle with 45°-Rest	26
4.3	Window Handle with 45°-Rest and Key Locking	26
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4.8	Handle rosettes with cover plate, lugs 10/12	32
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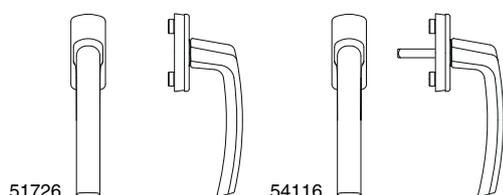
## 4 HARMONY

### 4.1 Window Handle



51763

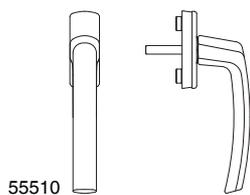
4.1.1 Lugs 10							No
bronze	55	28	32	7	anodised	20	<b>53839</b>
			35	7	anodised	20	<b>28856</b>
champagne	55	28	32	7	anodised	20	<b>28898</b>
			35	7	anodised	20	<b>28854</b>
grey brown RAL 8019	55	28	32	7	PVC coated	20	<b>53840</b>
			35	7	PVC coated	20	<b>51856</b>
silver	55	28	32	7	anodised	20	<b>53972</b>
			35	7	anodised	20	<b>52116</b>
silver (white rosette)	55	28	32	7	anodised	20	<b>54114</b>
			35	7	anodised	20	<b>54124</b>
titanium	55	28	32	7	anodised	20	<b>28901</b>
			35	7	anodised	20	<b>28861</b>
traffic white RAL 9016	55	28	32	7	PVC coated	20	<b>51763</b>
			35	7	PVC coated	20	<b>51750</b>



51726

54116

4.1.2 Lugs 10/12							No
bronze	55	28	0	7	anodised	20	<b>28738</b>
			32	7	anodised	20	<b>54117</b>
			35	7	anodised	20	<b>28857</b>
champagne	55	28	0	7	anodised	20	<b>28719</b>
			32	7	anodised	20	<b>54115</b>
			35	7	anodised	20	<b>28855</b>
grey brown RAL 8019	55	28	0	7	PVC coated	20	<b>54133</b>
			32	7	PVC coated	20	<b>58976</b>
			35	7	PVC coated	20	<b>51974</b>
silver	55	28	0	7	anodised	20	<b>55821</b>
			32	7	anodised	20	<b>53979</b>
			35	7	anodised	20	<b>55508</b>
silver (white rosette)	55	28	0	7	anodised	20	<b>54132</b>
			32	7	anodised	20	<b>54119</b>
			35	7	anodised	20	<b>54129</b>
titanium	55	28	0	7	anodised	20	<b>20695</b>
			32	7	anodised	20	<b>28902</b>
traffic white RAL 9016	55	28	0	7	PVC coated	20	<b>51726</b>
			32	7	PVC coated	20	<b>54116</b>
			35	7	PVC coated	20	<b>51987</b>

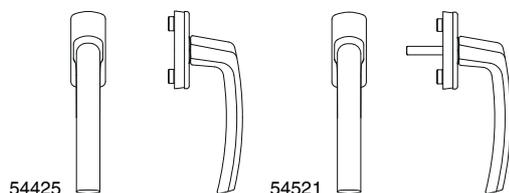


55510

4.1.3 Lugs 10/12, with narrow Rosette							No
champagne	55	24	32	7	anodised	20	<b>55512</b>
			35	7	anodised	20	<b>55518</b>
titanium	55	24	32	7	anodised	20	<b>55511</b>
			35	7	anodised	20	<b>55517</b>
traffic white RAL 9016	55	24	32	7	PVC coated	20	<b>55510</b>
			35	7	PVC coated	20	<b>55516</b>

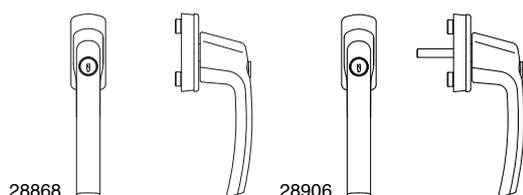


## 4.2 Window Handle with 45°-Rest



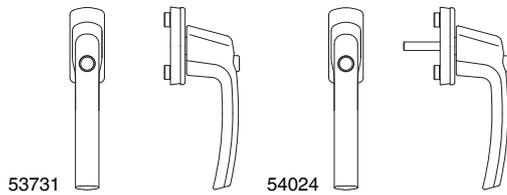
4.2.1 Lugs 10/12	55		28		0	7	anodised	20	No
	55	28	0	7					
bronze			0	7			anodised	20	<b>23213</b>
			32	7			anodised	20	<b>21214</b>
			35	7			anodised	20	<b>51822</b>
champagne			0	7			anodised	20	<b>23223</b>
			32	7			anodised	20	<b>23273</b>
			35	7			anodised	20	<b>54171</b>
grey brown RAL 8019			0	7			PVC coated	20	<b>220598</b>
			32	7			PVC coated	20	<b>220596</b>
			35	7			PVC coated	20	<b>220597</b>
silver			0	7			anodised	20	<b>205152</b>
			32	7			anodised	20	<b>55713</b>
			35	7			anodised	20	<b>220629</b>
silver (white rosette)	55	28	0	7			anodised	20	<b>220602</b>
titanium			0	7			anodised	20	<b>23177</b>
			32	7			anodised	20	<b>20415</b>
			35	7			anodised	20	<b>54532</b>
traffic white RAL 9016			0	7			PVC coated	20	<b>54425</b>
			32	7			PVC coated	20	<b>54521</b>
			35	7			PVC coated	20	<b>51650</b>

## 4.3 Window Handle with 45°-Rest and Key Locking



4.3.1 Lugs 10/12	55		28		0	7	anodised	10	No
	55	28	0	7					
bronze			0	7			anodised	10	<b>28870</b>
			32	7			anodised	10	<b>23322</b>
			35	7			anodised	10	<b>21385</b>
champagne			0	7			anodised	10	<b>28869</b>
			32	7			anodised	10	<b>28900</b>
			35	7			anodised	10	<b>21328</b>
grey brown RAL 8019			0	7			powder coated	10	<b>54142</b>
			35	7			powder coated	10	<b>53802</b>
silver			0	7			anodised	10	<b>55822</b>
			32	7			anodised	10	<b>54440</b>
			35	7			anodised	10	<b>220630</b>
silver (white rosette)	55	28	0	7			anodised	10	<b>54141</b>
titanium			0	7			anodised	10	<b>28871</b>
			32	7			anodised	10	<b>28903</b>
			35	7			anodised	10	<b>21329</b>
traffic white RAL 9016			0	7			powder coated	10	<b>28868</b>
			32	7			powder coated	10	<b>28906</b>
			35	7			powder coated	10	<b>21381</b>

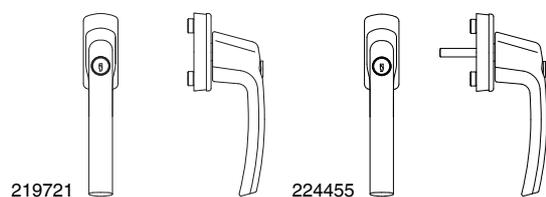
#### 4.4 Window Handle with 45°-Rest and Locking Button



4.4.1 Lugs 10/12								
	55	28	0	7				
bronze	55	28	0	7	anodised	10	<b>53732</b>	
			32	7	anodised	10	<b>54417</b>	
			35	7	anodised	10	<b>54061</b>	
champagne	55	28	0	7	anodised	10	<b>53730</b>	
			32	7	anodised	10	<b>54023</b>	
			35	7	anodised	10	<b>54060</b>	
grey brown RAL 8019	55	28	0	7	powder coated	10	<b>220595</b>	
silver	55	28	0	7	anodised	10	<b>54027</b>	
			32	7	anodised	10	<b>55647</b>	
			35	7	anodised	10	<b>55513</b>	
silver (white rosette)	55	28	0	7	anodised	10	<b>54026</b>	
titanium	55	28	0	7	anodised	10	<b>53733</b>	
			32	7	anodised	10	<b>54025</b>	
			35	7	anodised	10	<b>54064</b>	
traffic white RAL 9016	55	28	0	7	powder coated	10	<b>53731</b>	
			32	7	powder coated	10	<b>54024</b>	
			35	7	powder coated	10	<b>54063</b>	



## 4.5 Window handles with key locking for tilt first fittings



4.5.1 Lugs 10/12								No
bronze	55	28	35	7	anodised	10	<b>219713</b>	
			40	7	anodised	10	<b>224425</b>	
champagne	55	28	35	7	anodised	10	<b>219711</b>	
			38	7	anodised	10	<b>224412</b>	
gold-F3	55	28	35	7	anodised	10	<b>219712</b>	
grey brown RAL 8019	55	28	0	7	powder coated	10	<b>219722</b>	
			35	7	powder coated	10	<b>219715</b>	
silver	55	28	0	7	anodised	10	<b>219716</b>	
			32	7	anodised	10	<b>224459</b>	
			35	7	anodised	10	<b>219223</b>	
			38	7	anodised	10	<b>224411</b>	
			40	7	anodised	10	<b>224427</b>	
titanium	55	28	43	7	anodised	10	<b>224437</b>	
			0	7	anodised	10	<b>219720</b>	
			35	7	anodised	10	<b>219714</b>	
			38	7	anodised	10	<b>224421</b>	
traffic white RAL 9016	55	28	40	7	anodised	10	<b>224428</b>	
			43	7	anodised	10	<b>224446</b>	
			0	7	powder coated	10	<b>219721</b>	
			32	7	powder coated	10	<b>224455</b>	
			35	7	powder coated	10	<b>219568</b>	
			38	7	powder coated	10	<b>224414</b>	
			40	7	powder coated	10	<b>224423</b>	

## 4.6 Handle and rosette sets



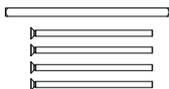
11072

4.6.1 Internal Handle, Lugs 12							No
black brown RAL 8022	PC	55	28	7	anodised	10	100540
bronze	PC	55	28	7	anodised	10	11073
champagne	PC	55	28	7	anodised	10	11071
silver	PC	55	28	7	anodised	10	11075
silver (white rosette)	PC	55	28	7	anodised	10	100585
titanium	PC	55	28	7	anodised	10	11074
traffic white RAL 9016	PC	55	28	7	PVC coated	10	11072



105667

4.6.2 External Handle High, Lugs 12				No
black brown RAL 8022	PC	anodised	10	105664
bronze	PC	anodised	10	105661
champagne	PC	anodised	10	105662
grey brown RAL 8019	PC	powder coated	10	105663
silver	PC	anodised	10	105665
titanium	PC	anodised	10	105666
traffic white RAL 9016	PC	powder coated	10	105667



105749

4.6.3 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

<b>4.6.4 External Handle Low, Lugs 12</b>				<b>No</b>
black brown RAL 8022	PC	anodised	10	<b>105671</b>
bronze	PC	anodised	10	<b>105668</b>
champagne	PC	anodised	10	<b>105669</b>
grey brown RAL 8019	PC	powder coated	10	<b>105670</b>
silver	PC	anodised	10	<b>105672</b>
titanium	PC	anodised	10	<b>105673</b>
traffic white RAL 9016	PC	powder coated	10	<b>105674</b>



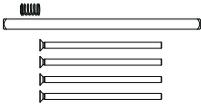
105749

<b>4.6.5 Spindle and screws for handle and rosette sets low</b>			<b>No</b>
Spindle and screws for handle and rosette sets high and low	67,5-76	10	<b>105746</b>
	76-86	10	<b>105747</b>
	86-96	10	<b>105748</b>
	96-106	10	<b>105749</b>



105681

<b>4.6.6 External Handle Flat, Lugs 12</b>				<b>No</b>
black brown RAL 8022	PC	anodised	10	<b>105678</b>
bronze	PC	anodised	10	<b>105675</b>
champagne	PC	anodised	10	<b>105676</b>
grey brown RAL 8019	PC	powder coated	10	<b>105677</b>
silver	PC	anodised	10	<b>105679</b>
titanium	PC	anodised	10	<b>105680</b>
traffic white RAL 9016	PC	powder coated	10	<b>105681</b>



105754

**4.6.7 Spindle and screws for handle and rosette sets flat**

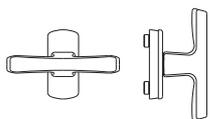


**Nº**

Spindle, screws and spring for handle and rosette sets low

64-72	10	<b>105750</b>
72-82	10	<b>105751</b>
82-92	10	<b>105752</b>
92-102	10	<b>105753</b>
102-112	10	<b>105754</b>





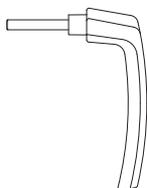
29008

<b>4.7 T Bar Handle, Lugs 10/12</b>					<b>No</b>
black brown RAL 8022	28	7	anodised	20	<b>220636</b>
bronze	28	7	anodised	20	<b>220635</b>
champagne	28	7	anodised	20	<b>29010</b>
silver	28	7	anodised	20	<b>55746</b>
titanium	28	7	anodised	20	<b>29009</b>
traffic white RAL 9016	28	7	powder coated	20	<b>29008</b>



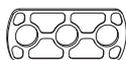
52202

<b>4.8 Handle rosettes with cover plate, lugs 10/12</b>				<b>No</b>
black brown RAL 8022	28	anodised	20	<b>28653</b>
bronze	28	anodised	20	<b>28656</b>
champagne	28	anodised	20	<b>28657</b>
silver	28	anodised	20	<b>20506</b>
silver (white rosette)	28	anodised	20	<b>54161</b>
titanium	28	anodised	20	<b>28651</b>
traffic white RAL 9016	28	powder coated	20	<b>52202</b>



23439

<b>4.9 Detachable Handle</b>					<b>No</b>
champagne	43	7	anodised	20	<b>27411</b>
silver	43	7	anodised	20	<b>54341</b>
traffic white RAL 9016	43	7	powder coated	20	<b>23439</b>



42071

<b>4.10 Packer for Handle Rosette Harmony</b>		<b>W</b>		<b>No</b>
champagne	3	28	100	<b>42074</b>
silver	3	28	100	<b>220086</b>
titanium	3	28	100	<b>42073</b>
traffic white RAL 9016	3	28	100	<b>42071</b>



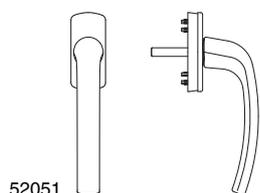
## 5 SYMPHONY

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5.1	Window Handle	34
5.2	Window Handle with 45°-Rest	35
5.3	Window Handle with 45°-Rest with Key Locking	36
5.4	Window Handle with 45°-Rest with Locking Button	36
5.5	Handle and rosette sets	37
5.6	Handle rosettes with cover plate, lugs 10/13	40
5.7	Detachable Handle	40
5.8	Packer for Handle Rosette Harmony	40

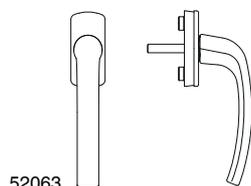
## 5 SYMPHONY

### 5.1 Window Handle



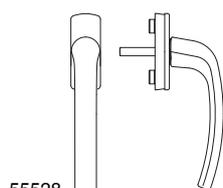
52051

5.1.1 Lugs 10							No
bronze	57	28	32	7	anodised	20	<b>52053</b>
			35	7	anodised	20	<b>52056</b>
champagne	57	28	32	7	anodised	20	<b>52050</b>
			35	7	anodised	20	<b>52054</b>
grey brown RAL 8019	57	28	32	7	PVC coated	20	<b>54036</b>
			35	7	PVC coated	20	<b>54038</b>
silver	57	28	32	7	anodised	20	<b>54030</b>
			35	7	anodised	20	<b>54031</b>
titanium	57	28	32	7	anodised	20	<b>52052</b>
			35	7	anodised	20	<b>52057</b>
traffic white RAL 9016	57	28	32	7	PVC coated	20	<b>52051</b>
			35	7	PVC coated	20	<b>52055</b>



52063

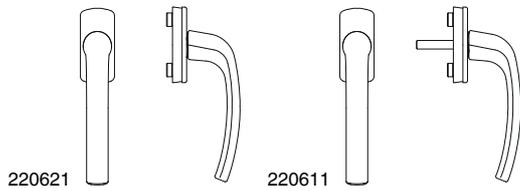
5.1.2 Lugs 10/12							No
bronze	57	28	32	7	anodised	20	<b>52064</b>
			35	7	anodised	20	<b>52068</b>
champagne	57	28	32	7	anodised	20	<b>52062</b>
grey brown RAL 8019	57	28	0	7	PVC coated	20	<b>220603</b>
silver	57	28	35	7	anodised	20	<b>54033</b>
titanium	57	28	32	7	anodised	20	<b>52065</b>
			35	7	anodised	20	<b>52069</b>
traffic white RAL 9016	57	28	32	7	PVC coated	20	<b>52063</b>
			35	7	PVC coated	20	<b>52067</b>

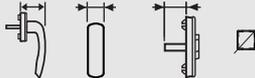


55528

5.1.3 Lugs 10/12, with narrow Rosette							No
titanium	57	24	32	7	anodised	20	<b>55523</b>
traffic white RAL 9016	57	24	35	7	PVC coated	20	<b>55528</b>

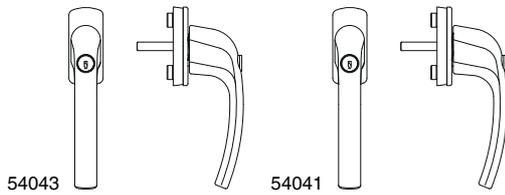
## 5.2 Window Handle with 45°-Rest



5.2.1 Lugs 10/12							No
	57	28	0	7			
bronze	57	28	0	7	anodised	20	<b>220624</b>
champagne	57	28	0	7	anodised	20	<b>220623</b>
grey brown RAL 8019	57	28	35	7	PVC coated	20	<b>220615</b>
silver	57	28	0	7	anodised	20	<b>220628</b>
			35	7	anodised	20	<b>59192</b>
titanium	57	28	0	7	anodised	20	<b>220625</b>
			35	7	anodised	20	<b>220618</b>
traffic white RAL 9016	57	28	0	7	PVC coated	20	<b>220621</b>
			32	7	PVC coated	20	<b>220611</b>
			35	7	PVC coated	20	<b>220614</b>

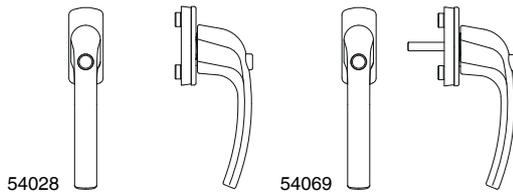


### 5.3 Window Handle with 45°-Rest with Key Locking



5.3.1 Lugs 10/12							No
champagne	57	28	0	7	anodised	10	<b>52088</b>
grey brown RAL 8019	57	28	0	7	powder coated	10	<b>54029</b>
silver	57	28	0	7	anodised	10	<b>54034</b>
			35	7	anodised	10	<b>54410</b>
titanium	57	28	0	7	anodised	10	<b>52091</b>
			35	7	anodised	10	<b>54043</b>
traffic white RAL 9016	57	28	35	7	powder coated	10	<b>54041</b>

### 5.4 Window Handle with 45°-Rest with Locking Button



5.4.1 Lugs 10/12							No
grey brown RAL 8019	57	28	0	7	powder coated	10	<b>54028</b>
silver	57	28	35	7	anodised	10	<b>54065</b>
titanium	57	28	35	7	anodised	10	<b>54070</b>
traffic white RAL 9016	57	28	35	7	powder coated	10	<b>54069</b>

## 5.5 Handle and rosette sets



11063

5.5.1 Internal Handle, Lugs 12							No
bronze	PC	57	28	7	anodised	10	<b>11064</b>
champagne	PC	57	28	7	anodised	10	<b>11062</b>
silver	PC	57	28	7	anodised	10	<b>11067</b>
titanium	PC	57	28	7	anodised	10	<b>11065</b>
traffic white RAL 9016	PC	57	28	7	PVC coated	10	<b>11063</b>



105686

5.5.2 External Handle High, Lugs 12				No
bronze	PC	anodised	10	<b>105682</b>
champagne	PC	anodised	10	<b>105683</b>
silver	PC	anodised	10	<b>105684</b>
titanium	PC	anodised	10	<b>105685</b>
traffic white RAL 9016	PC	powder coated	10	<b>105686</b>



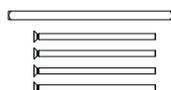
105749

5.5.3 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	<b>105746</b>
		76-86	10	<b>105747</b>
		86-96	10	<b>105748</b>
		96-106	10	<b>105749</b>



105691

<b>5.5.4 External Handle Low, Lugs 12</b>				<b>N<sup>o</sup></b>
bronze	PC	anodised	10	<b>105687</b>
champagne	PC	anodised	10	<b>105688</b>
silver	PC	anodised	10	<b>105689</b>
titanium	PC	anodised	10	<b>105690</b>
traffic white RAL 9016	PC	powder coated	10	<b>105691</b>



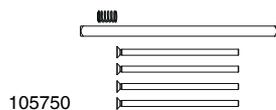
105749

<b>5.5.5 Spindle and screws for handle and rosette sets low</b>				<b>N<sup>o</sup></b>
Spindle and screws for handle and rosette sets high and low		67,5-76	10	<b>105746</b>
		76-86	10	<b>105747</b>
		86-96	10	<b>105748</b>
		96-106	10	<b>105749</b>



105675

<b>5.5.6 External Handle Flat, Lugs 12</b>				<b>N<sup>o</sup></b>
black brown RAL 8022	PC	anodised	10	<b>105678</b>
bronze	PC	anodised	10	<b>105675</b>
champagne	PC	anodised	10	<b>105676</b>
grey brown RAL 8019	PC	powder coated	10	<b>105677</b>
silver	PC	anodised	10	<b>105679</b>
titanium	PC	anodised	10	<b>105680</b>
traffic white RAL 9016	PC	powder coated	10	<b>105681</b>



105750

**5.5.7 Spindle and screws for handle and rosette sets flat**



**Nº**

Spindle, screws and spring for handle and rosette sets low

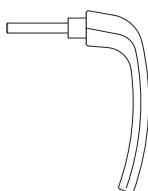
64-72	10	<b>105750</b>
72-82	10	<b>105751</b>
82-92	10	<b>105752</b>
92-102	10	<b>105753</b>
102-112	10	<b>105754</b>





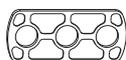
52202

5.6 Handle rosettes with cover plate, lugs 10/13				No
black brown RAL 8022	28	anodised	20	<b>28653</b>
bronze	28	anodised	20	<b>28656</b>
champagne	28	anodised	20	<b>28657</b>
silver	28	anodised	20	<b>20506</b>
silver (white rosette)	28	anodised	20	<b>54161</b>
titanium	28	anodised	20	<b>28651</b>
traffic white RAL 9016	28	powder coated	20	<b>52202</b>



54014

5.7 Detachable Handle					No
champagne	43	7	anodised	20	<b>54013</b>
traffic white RAL 9016	43	7	powder coated	20	<b>54014</b>



42071

5.8 Packer for Handle Rosette Harmony		W		No
champagne	3	28	100	<b>42074</b>
silver	3	28	100	<b>220086</b>
titanium	3	28	100	<b>42073</b>
traffic white RAL 9016	3	28	100	<b>42071</b>



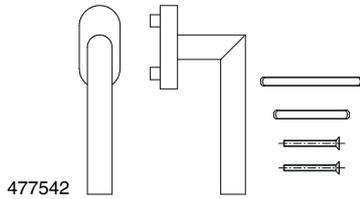
## 6 Unity

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6.1	Window Handle	42
6.2	Window Handle with Key Locking	43

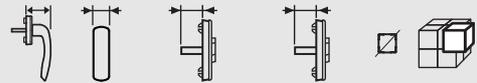
## 6 Unity

### 6.1 Window Handle

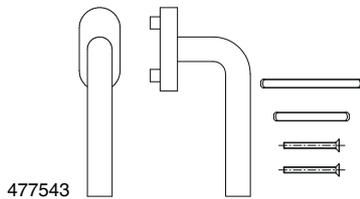


477542

#### 6.1.1 Window Handle B02

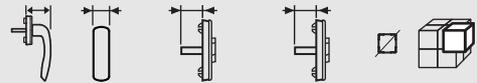


stainless steel mat	M5x45	69	33	24 / 32	36 / 42	7	1	<b>N<sub>o</sub></b>	<b>477542</b>
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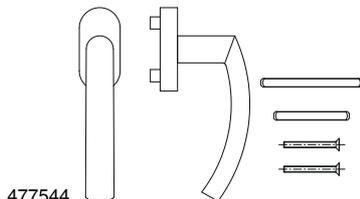


477543

#### 6.1.2 Window Handle B03

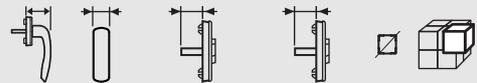


stainless steel mat	M5x45	73	33	24 / 32	36 / 42	7	1	<b>N<sub>o</sub></b>	<b>477543</b>
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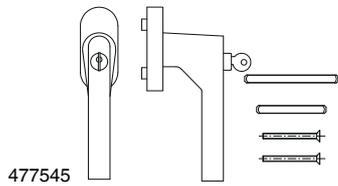
477544

#### 6.1.3 Window Handle B07



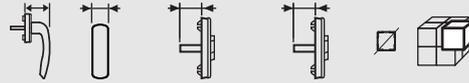
stainless steel mat	M5x45	72,5	33	24 / 32	36 / 42	7	1	<b>N<sub>o</sub></b>	<b>477544</b>
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## 6.2 Window Handle with Key Locking



477545

### 6.2.1 Window Handle lockable B02



**No**

stainless steel mat

M5x50

67

33

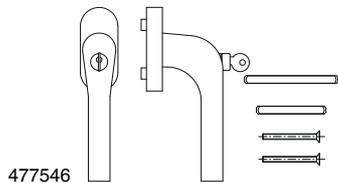
24 / 31

36 / 42

7

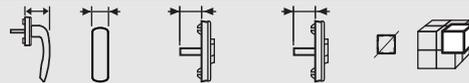
1

**477545**



477546

### 6.2.2 Window Handle lockable B03



**No**

stainless steel mat

M5x50

67

33

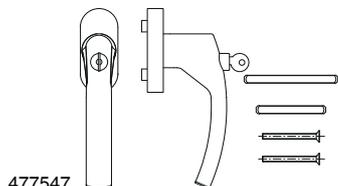
24 / 31

36 / 42

7

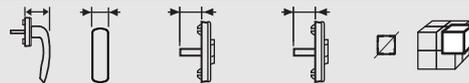
1

**477546**



477547

### 6.2.3 Window Handle lockable B07



**No**

stainless steel mat

M5x50

69,5

33

24 / 31

36 / 42

7

1

**477547**



MACO  
EMOTION



Unity



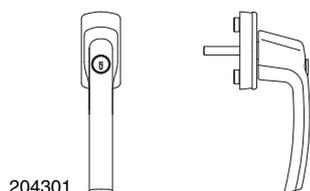
## 7 TRESOR

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- 7.1 Window handles with key locking, for burglar resistant windows according to standard EN 1627 – 1630 RC 1 – RC 3 \_\_\_\_\_ 46
- 7.2 Window handles with key locking and 45° stop, for windows with basic burglar resistance 47
- 7.3 Window handles with locking button, for burglar resistant windows according to standard EN 1627 – 1630 RC 1 – RC 3 \_\_\_\_\_ 48

## 7 TRESOR

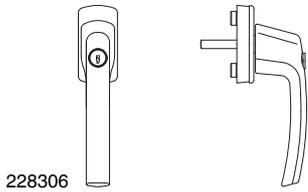
### 7.1 Window handles with key locking, for burglar resistant windows according to standard EN 1627 – 1630 RC 1 – RC 3



204301

7.1.1 Lugs 10/12								No
bronze	58	32	32	7	paint	10	<b>58980</b>	
			35	7	paint	10	<b>55711</b>	
			38	7	paint	10	<b>208138</b>	
champagne	58	32	32	7	paint	10	<b>58981</b>	
			35	7	paint	10	<b>55710</b>	
grey brown RAL 8019	58	32	32	7	powder coated	10	<b>58935</b>	
			35	7	powder coated	10	<b>58932</b>	
			38	7	powder coated	10	<b>216849</b>	
silver	58	32	32	7	paint	10	<b>58934</b>	
			35	7	paint	10	<b>58876</b>	
			38	7	paint	10	<b>208136</b>	
			40	7	paint	10	<b>207286</b>	
			43	7	paint	10	<b>215362</b>	
silver (white rosette)	58	32	35	7	paint	10	<b>55709</b>	
titanium	58	32	32	7	paint	10	<b>58988</b>	
			35	7	paint	10	<b>55712</b>	
			38	7	paint	10	<b>208143</b>	
			40	7	paint	10	<b>216187</b>	
			43	7	paint	10	<b>216833</b>	
traffic white RAL 9016	58	32	32	7	powder coated	10	<b>58933</b>	
			35	7	powder coated	10	<b>55280</b>	
			38	7	powder coated	10	<b>204301</b>	
			40	7	powder coated	10	<b>207285</b>	
			43	7	powder coated	10	<b>216834</b>	

**7.2 Window handles with key locking and 45° stop, for windows with basic burglar resistance**

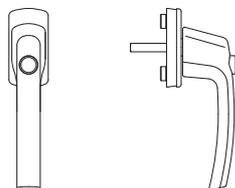


228306

<p><b>7.2.1 Lugs 10/12</b></p>										<p><b>No</b></p>
<p>traffic white RAL 9016</p>	<p>58</p>	<p>32</p>	<p>35</p>	<p>7</p>	<p>powder coated</p>	<p>10</p>	<p>10</p>	<p>10</p>	<p>10</p>	<p><b>228306</b></p>



**7.3 Window handles with locking button, for burglar resistant windows according to standard EN 1627 – 1630 RC 1 – RC 3**



58929

7.3.1 Lugs 10/12										No
bronze		58	32	32	7	7	7	7	10	<b>58984</b>
				35	7	7	7	7	10	<b>55707</b>
				40	7	7	7	7	10	<b>207284</b>
champagne		58	32	32	7	7	7	7	10	<b>58985</b>
				35	7	7	7	7	10	<b>55706</b>
grey brown RAL 8019		58	32	35	7	7	7	7	10	<b>58928</b>
				43	7	7	7	7	10	<b>216844</b>
silver		58	32	32	7	7	7	7	10	<b>58930</b>
				35	7	7	7	7	10	<b>58875</b>
				38	7	7	7	7	10	<b>209357</b>
				40	7	7	7	7	10	<b>207283</b>
				43	7	7	7	7	10	<b>224729</b>
titanium		58	32	32	7	7	7	7	10	<b>58989</b>
				35	7	7	7	7	10	<b>55708</b>
				38	7	7	7	7	10	<b>209360</b>
				40	7	7	7	7	10	<b>215359</b>
				43	7	7	7	7	10	<b>224728</b>
traffic white RAL 9016		58	32	32	7	7	7	7	10	<b>58929</b>
				35	7	7	7	7	10	<b>55270</b>
				38	7	7	7	7	10	<b>209361</b>
				40	7	7	7	7	10	<b>207282</b>
				43	7	7	7	7	10	<b>224727</b>



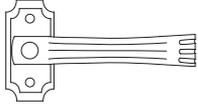
## 8 Wrought Iron Handle

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8.1	Window Handle	50
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## 8 Wrought Iron Handle



10517

### 8.1 Window Handle



**Nº**

with spindle 30 mm

10

10517



## 9 Finger Pull

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9.1	Finger Pull Aluminium	52
9.2	Finger Pull PVC	52

## 9 Finger Pull

### 9.1 Finger Pull Aluminium



30719

9.1.1 Finger Pull Aluminium BASE			No
black brown RAL 8022	anodised	20	39589
bronze	anodised	20	38162
champagne	anodised	20	30290
silver	anodised	20	36870
titanium	anodised	20	38163
traffic white RAL 9016	powder coated	20	30719



220536

9.1.2 Finger Pull Aluminium BASE - L			No
black brown RAL 8022	anodised	15	220743
bronze	anodised	15	220739
champagne	anodised	15	220740
silver	anodised	15	97507
titanium	anodised	15	97508
traffic white RAL 9016	powder coated	20	220536



59150

9.1.3 Finger Pull Aluminium SOFT			No
black brown RAL 8022	anodised	20	220744
bronze	anodised	20	59147
champagne	anodised	20	59149
silver	anodised	20	59148
titanium	anodised	20	59146
traffic white RAL 9016	powder coated	20	59150

### 9.2 Finger Pull PVC



10599

9.2.1 Finger Pull PVC LIGHT			No
grey brown RAL 8019	Solid PVC	20	10600
traffic white RAL 9016	Solid PVC	20	10599



## 10 Accessories

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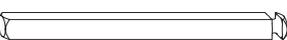
10.1	Spindles _____	54
10.2	Spindles with groove for handle and rosette sets _____	54
10.3	Spindles with groove for door handle sets _____	54
10.4	Spacer ring for handle, Lugs 10/12 _____	54
10.5	Key for handles with key locking _____	54



## 10 Accessories

39013 

10.1 Spindles	L				N <sup>o</sup>
spindle	52	26	7	200	<b>39013</b>
	56	30	7	200	<b>39029</b>
	61	35	7	200	<b>30717</b>
	64	38	7	20	<b>94228</b>
	69	43	7	200	<b>39014</b>
	76	50	7	200	<b>30765</b>

363639 

10.2 Spindles with groove for handle and rosette sets	L			N <sup>o</sup>
spindle	162	7	50	<b>363639</b>

363640 

10.3 Spindles with groove for door handle sets	L			N <sup>o</sup>
spindle	162	8	50	<b>363640</b>

40017 

10.4 Spacer ring for handle, Lugs 10/12		N <sup>o</sup>
spacer ring for handle lugs BS 9.6 & 11.6 mm	500	<b>40017</b>

42600 

10.5 Key for handles with key locking		N <sup>o</sup>
key for locking handle silver	10	<b>42600</b>



11 Directory

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