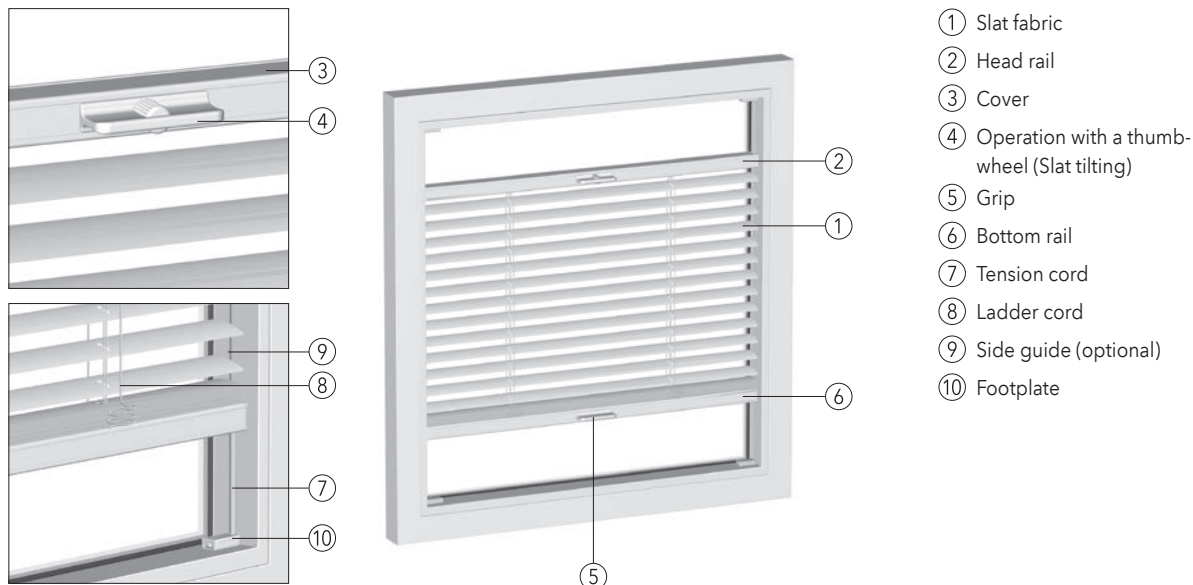## Technical information

Models 09-7080, 09-7180

1. Slat fabric
2. Head rail
3. Cover
4. Operation with a thumb-wheel (Slat tilting)
5. Grip
6. Bottom rail
7. Tension cord
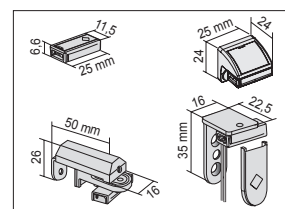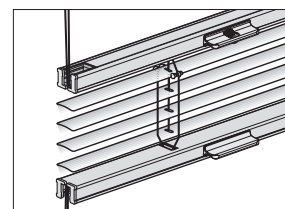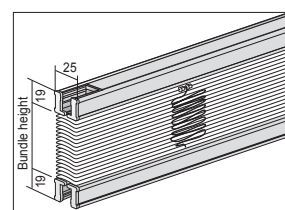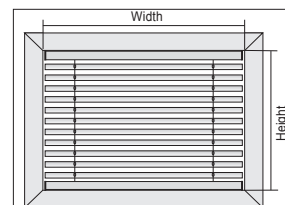8. Ladder cord
9. Side guide (optional)
10. Footplate

Model 09-7080 with 16 mm slats
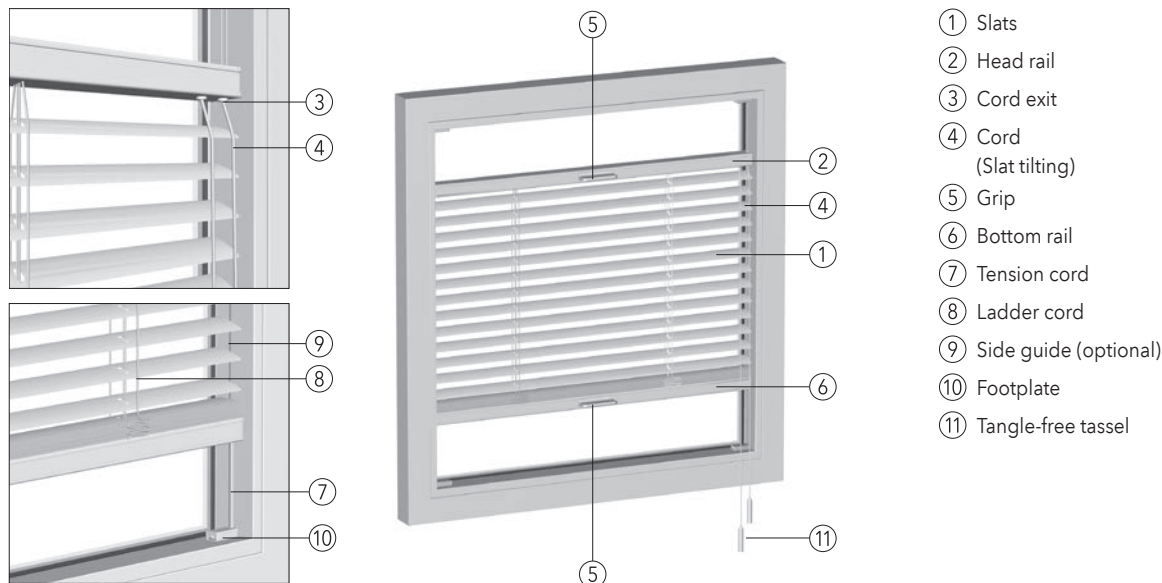**Model 09-7180** with 25 mm slats

Particularly suitable for glazing bead installation for tilt/turn windows. Hanging individually adjustable by freely moveable upper and lower rail. Slat tilting by means of thumbwheel in the operating handle. Upper and lower rail each with inserted plastic cover. Slat colours according to MHZ collection. Colour of cords and ladder cords match the slats. Operation rod not possible.

Technical data

Dimensions:

Model	Min. width	Max. width	Max. height	Max. surface
09-7080	above 33.6 cm	up to 150 cm	250 cm	approx. 1.6 m²
09-7180	above 33.6 cm	up to 150 cm	250 cm	approx. 2.0 m²

Profiles: Head/Bottom rail: Width 25 mm, height 19 mm

Hardware colour: 100 silver anodized (E6/EV1)
171 white powder-coated (RAL 9016)

Slats: Width 16 and 25 mm, aluminium 0.22 mm, elastic, enamelled, see the collection for surfaces and colours. Detailed information can be found in the material properties brochure. Perforated slats not available.

Operation: Hanging height adjusted by moving the head or bottom rail. Rails secured in desired position. Slat tilting via rotating disc in the operating grip at the head rail. 1 operating grip per rail up to 90 cm width; 2 operating grips per rail from 90.1 cm. Tumbwheel left and right operation.

Optional equipment:
– Aluminium grip
– Side guide, perlon cord ø 1 mm,
  the hanging width is reduced by 6 mm
– Tension cord extension (symmetrical or asymmetrical)
– Multicoloured hanging p. 90
– Surcharges p. 87
– Additional accessories p. 93
– Adhesive-Set p. 88+119

Bundle height:

Unit height up to (cm)	50	100	150	200	250
Bundle height 16 mm slat approx. to (cm)	5.5	6.5	8.0	9.5	11.0
Bundle height 25 mm slat approx. to (cm)	5.5	6.5	7.5	8.5	9.5

Installation:
– Glazing bead installation (min. glazing bead depth 17 mm) with footplates
– Bracket for window sash installation and accessories p. 87
– Additional installation accessories p. 87
– Use levelling chock the fits with the glazing bead bracket p. 94
– Use mounting template p. 94
– Adhesive-Set p. 88+119

Models 09-7081, 09-7181

①	Slats
②	Head rail
③	Cord exit
④	Cord (Slat tilting)
⑤	Grip
⑥	Bottom rail
⑦	Tension cord
⑧	Ladder cord
⑨	Side guide (optional)
⑩	Footplate
⑪	Tangle-free tassel

Model 09-7081 with 16 mm slats
Model 09-7181 with 25 mm slats

Particularly suitable for glazing bead installation with tilt/turn windows. Individually adjustable hanging due to free moving head and bottom rail. Operation rod not possible. Slat tilting by means of cord. Head and bottom rail with inserted plastic cover. Slat colours according to the MHZ collection. Colour of cords and ladder cords match the slats. Tangle-free tassel p. 116.

Technical data

Dimensions:

Model	Min. width	Max. width	Max. height	Max. surface
09-7081	above 33.6 cm	up to 150 cm	250 cm	approx. 1.6 m²
09-7181	above 33.6 cm	up to 150 cm	250 cm	approx. 2.0 m²

Profiles: Head/Bottom rail: Width 25 mm, height 19 mm

Hardware colour: 100 silver anodized (E6/EV1)
171 white powder-coated (RAL 9016)

Slats: Width 16 and 25 mm, aluminium 0.22 mm, elastic, enamelled, see the collection for surfaces and colours. Detailed information can be found in the material properties brochure. Perforated slats not available.

Operation: Hanging height adjusted by moving the head or bottom rail. Rails secured in desired position. 1 operating grip per rail up to 90 cm width; 2 operating grips per rail from 90.1 cm. Slat tilting via cord at the head rail, can be operated from left or right.

Unit height (cm)	50-75	75-100	100-125	125-150	150-175	175-200	200-250
Operating length Cord (cm)	50	75	100	125	150	175	200

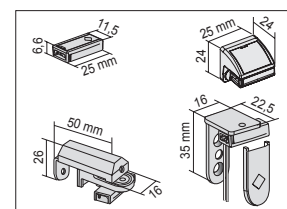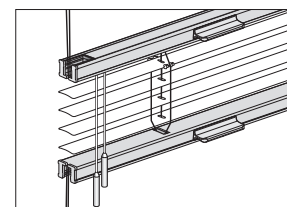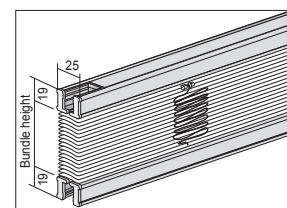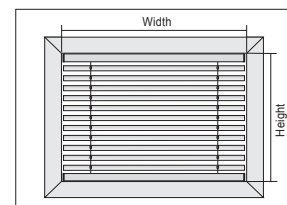Other operating lengths available on request at extra cost

Optional equipment:
- Aluminium grip
- Side guide, perlon cord ø 1 mm, the hanging width is reduced by 6 mm
- Tension cord extension (symmetrical or asymmetrical)
- Multicoloured hanging p. 90
- Surcharges p. 87
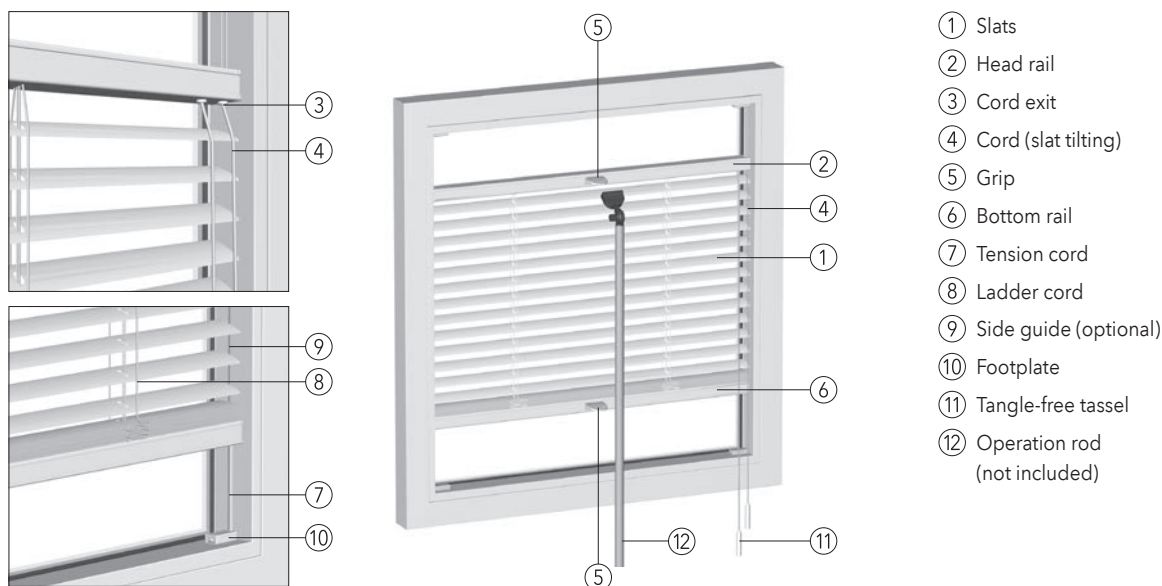- Additional accessories p. 93
- Adhesive-Set p. 88+119

Bundle heights:

Unit height up to (cm)	50	100	150	200	250
Bundle height 16 mm slat approx. to (cm)	5.5	6.5	8.0	9.5	11.0
Bundle height 25 mm slat approx. to (cm)	5.5	6.5	7.5	8.5	9.5

Installation:
- Glazing bead installation (min. glazing bead depth 17 mm) with footplates
- Bracket for window sash installation and accessories p. 87
- Additional accessories p. 87
- Use levelling chock the fits with the glazing bead bracket p. 94
- Use mounting template p. 94
- Adhesive-Set p. 88+119

Technical information

◆ MHZ

Models 09-7082, 09-7182

①	Slats
②	Head rail
③	Cord exit
④	Cord (slat tilting)
⑤	Grip
⑥	Bottom rail
⑦	Tension cord
⑧	Ladder cord
⑨	Side guide (optional)
⑩	Footplate
⑪	Tangle-free tassel
⑫	Operation rod (not included)

Model 09-7082 with 16 mm slats
Model 09-7182 with 25 mm slats

Particularly suitable for glazing bead installation for tilt/turn windows. Model suitable for hard-to-reach units. Individually adjustable due to moving head and bottom rail; optional operation rod. Slat tilting via cord. Head and bottom rail with inserted plastic cover. Slat colours according to the MHZ collection. Colour of cords and ladder cords match the slats. Tangle-free tassel p. 116.

Technical data

Dimensions:

Model	Min. width	Max. width	Max. height	Max. surface
09-7082	above 33.6 cm	up to 150 cm	250 cm	approx. 1.6 m^2
09-7182	above 33.6 cm	up to 150 cm	250 cm	approx. 2.0 m^2

Profiles: Head/Bottom rail: width 25 mm, height 19 mm

Hardware colour: 100 silver anodized (E6/EV1)
171 white powder-coated (RAL 9016)

Slats: Width 16 and 25 mm, aluminium 0.22 mm, elastic, enamelled, see the collection for surfaces and colours. Detailed information can be found in the material properties brochure. Perforated slats not available.

Operation: Hanging height is adjusted by using the operation rod to move the head or bottom rail. Rails secured in desired position. 1 operating grip per rail up to 90 cm width; 2 operating grips per rail from 90.1 cm. Slat tilting via cord at the head rail, can be operated from left or right.

Unit height (cm)	50-75	75-100	100-125	125-150	150-175	175-200	200-250
Operating length Cord (cm)	50	75	100	125	150	175	200

Other operating lengths available on request at extra cost
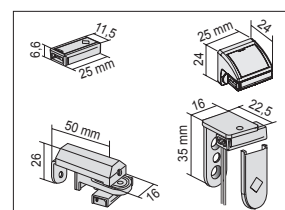
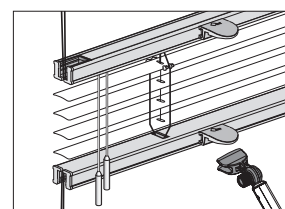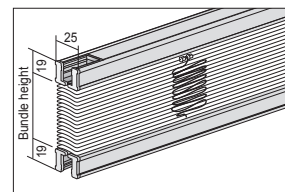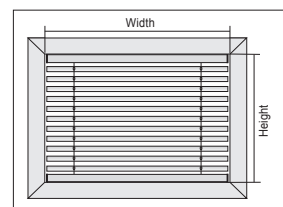**Optional equipment:** – Operation rod with hinged adapter possible up to unit width of 90 cm
– Side guide, perlon cord ø 1 mm, the hanging width is reduced by 6 mm
– Tension cord extension (symmetrical or asymmetrical)
– Multicoloured hanging p. 90
– Surcharges p. 87
– Additional accessories p. 93
– Adhesive-Set p. 88+119

Bundle heights:

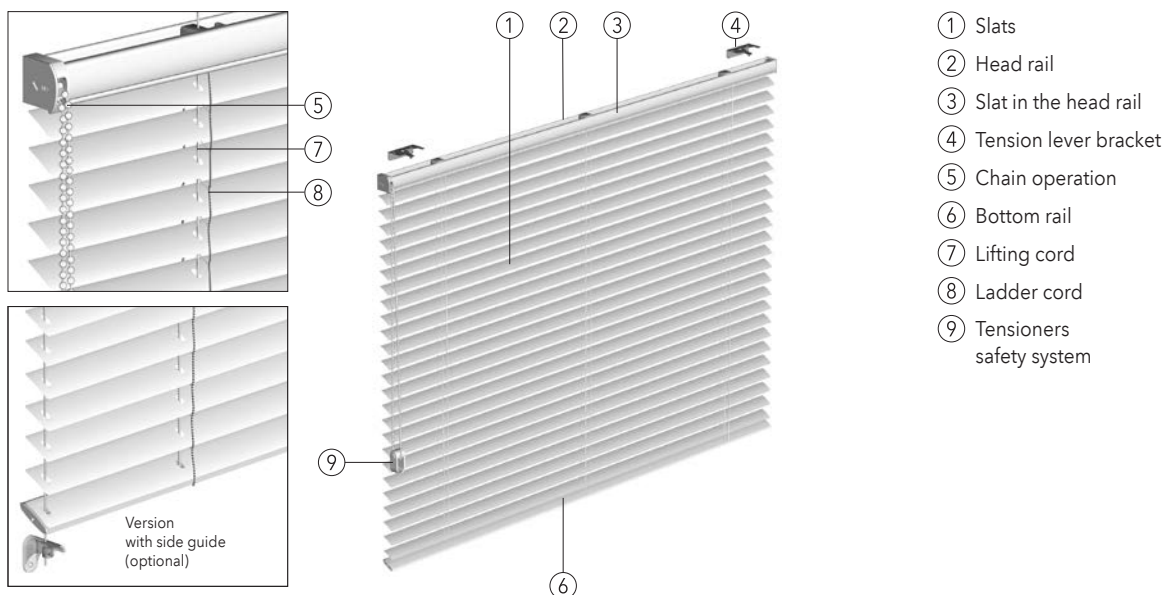|					
Unit height up to (cm)	50	100	150	200	250
Bundle height 16 mm slat approx. to (cm)	5.5	6.5	8.0	9.5	11.0
Bundle height 25 mm slat approx. to (cm)	5.5	6.5	7.5	8.5	9.5

Installation: – Glazing bead installation (min. glazing bead depth 17 mm) with footplates
– Bracket for window sash installation and accessories p. 87
– Additional accessories p. 87
– Use levelling chock the fits with the glazing bead bracket p. 94
– Use mounting template p. 94
– Adhesive-Set p. 88+119

Models 09-1067, 09-1167, 09-4467, 09-1267

① Slats
② Head rail
③ Slat in the head rail
④ Tension lever bracket
⑤ Chain operation
⑥ Bottom rail
⑦ Lifting cord
⑧ Ladder cord
⑨ Tensioners safety system

Version with side guide (optional)

Model 09-1067 with 16 mm slats
Model 09-1167 with 25 mm slats
Model 09-4467* with 25 mm slats, invisible punched holes
Model 09-1267 with 35 mm slats

Lateral gear with chain operation, chain exit at front. Extruded aluminium head rail with an inserted, colour matching 25 mm front slat. Hanging width corresponds to upper rail including gear. Lower rail made of extruded aluminium with slat in colour of the hanging inserted underneath. Slat colours according to the MHZ collection. Colour of cords and ladder cords match the slats. For safety tensioner installation see p. 116.

Technical data

Dimensions:	Model	Min. width	Max. width	Max. height	Max. surface
	09-1067	above 44 cm	up to 54 cm	180 cm	approx. 1 m²
		above 54.1 cm	up to 270 cm	360 cm	8 m²
	09-1167	above 44 cm	up to 54 cm	180 cm	approx. 1 m²
		above 54.1 cm	up to 390 cm	360 cm	8 m²
	09-4467*	above 46 cm	up to 54 cm	180 cm	approx. 1 m²
		above 54.1 cm	up to 390 cm	360 cm	8 m²
	09-1267	above 44 cm	up to 54 cm	180 cm	approx. 1 m²
		above 54.1 cm	up to 450 cm	360 cm	8 m²

Profiles: Head rail: width 29 mm, height 29 mm
Bottom rail for 16 mm slats: Width 21 mm, height 8.5 mm
Bottom rail for 25 + 35 mm slats: Width 30 mm, height 10 mm

Hardware colour: 100 silver anodized (E6/EV1)
171 white powder-coated (RAL 9016)

Slats: Width 16, 25 and 35 mm, aluminium 0.22 mm, elastic, enamelled, see the collection for surfaces and colours. Detailed information can be found in the material properties brochure.

Operation: Lifting, lowering and tilting via operation chain (transparent). Curtain latches automatically. Operation side optionally left or right. Chain secured by safety tensioner.
Note: Operation length from 50 cm – 150 cm in 10 cm steps,
operation length from 150 cm – 300 cm in 25 cm steps
Delivery with the exact or next smaller operation length. Other operating lengths available on request at extra cost.
Planetary gears 3:1 for larger unit dimensions p. 11-19.

Optional equipment: – Metal chain chrome-plated (not suitable for damp locations)
– Side guide, steel wire ø 1 mm, plastic coated
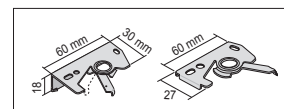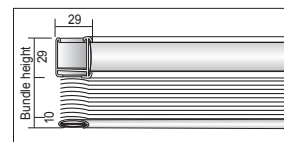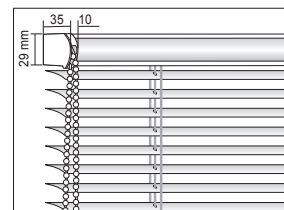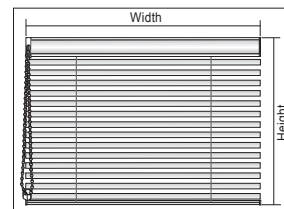– Multicoloured hanging p. 90
– Surcharges p. 87
– Additional accessories p. 93
– * Invisible punched holes p. 91

Bundle heights:	Unit height up to (cm)	50	100	150	200	250	300	350
	Bundle height 16 mm slat approx. to (cm)	5.0	6.0	7.5	9.0	10.5	12.0	13.5
	Bundle height 25 mm slat approx. to (cm)	5.0	6.0	7.0	7.5	8.5	9.5	10.5
	Bundle height 25 mm slat approx. to (cm) with invisible punched holes	6.0	8.0	10.0	11.0	12.0	13.0	14.0
	Bundle height 35 mm slat approx. to (cm)	5.0	6.0	7.5	8.5	9.5	10.5	11.5

Installation: – Wall and ceiling installation with tension lever brackets
– Additional accessories p. 87
– Bracket quantity table p. 95

Technical information

Models 09-1065, 09-1165, 09-4465, 09-1265

1. Slats
2. Head rail
3. Slat in the head rail
4. Tension lever bracket
5. Electric drive 24 V
6. Bottom rail
7. Switches and controls
   s. Electric accessories
   (not included)
8. Lifting cord
9. Ladder cord

Version
with side guide
(optional)
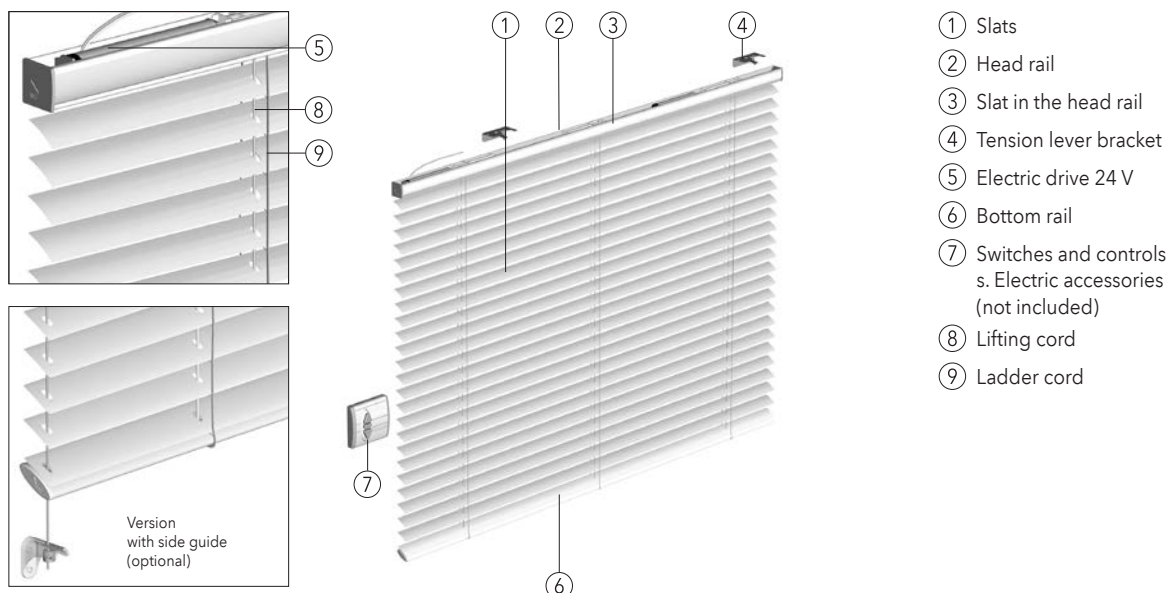
Model 09-1065 with 16 mm slats
Model 09-1165 with 25 mm slats

Model 09-4465* with 25 mm slats, invisible punched holes
Model 09-1265 with 35 mm slats

Electric drive 24 V, mounted centrally or at the side in the upper rail, with automatic end position switch-off. Not suitable for damp locations. Single or group operation. Upper rail made of extruded aluminium with 25 mm slat in colour of the hanging inserted at front side. Lower rail made of extruded aluminium with slat in colour of the hanging inserted underneath. Slat colours according to the MHZ collection. Colour of cords and ladder cords match the slats.

Technical data

Dimensions:	Model	Min. width	Max. width	Max. height	Max. surface
	09-1065	above 59 cm	up to 63 cm	180 cm	approx. 1 m²
		above 63.1 cm	up to 270 cm	360 cm	9 m²
	09-1165	above 59 cm	up to 63 cm	180 cm	approx. 1 m²
		above 63.1 cm	up to 380 cm	360 cm	9 m²
	09-4465*	above 59 cm	up to 63 cm	180 cm	approx. 1 m²
		above 63.1 cm	up to 380 cm	360 cm	9 m²
	09-1265	above 59 cm	up to 63 cm	180 cm	approx. 1 m²
		above 63.1 cm	up to 450 cm	360 cm	9 m²

Profiles:
Head rail: width 29 mm, height 29 mm
Bottom rail for 16 mm slats: width 21 mm, height 8.5 mm
Bottom rail 25 + 35 mm slats: width 30 mm, height 10 mm

Hardware colour:
100 silver anodized (E6/EV1)
171 white powder-coated (RAL 9016)

Slats:
Width 16, 25 and 35 mm, aluminium 0.22 mm, elastic, enamelled, see the collection for surfaces and colours. Detailed information can be found in the material properties brochure.

Operation:
Lifting, lowering and tilting via 24 V electric drive. Various control options due to switch, radio remote control, sun control or timer. Prices for electrical accessories p. 98.
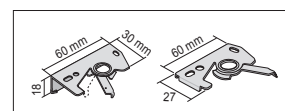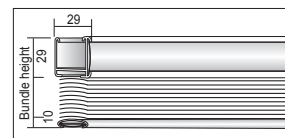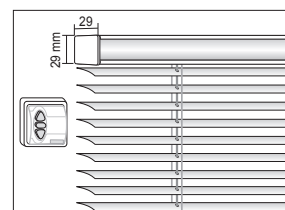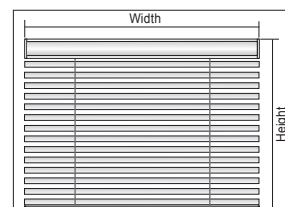
Optional equipment:
– Side guide, steel wire ø 1 mm, plastic coated
– Multicoloured hanging p. 90
– Surcharges p. 87
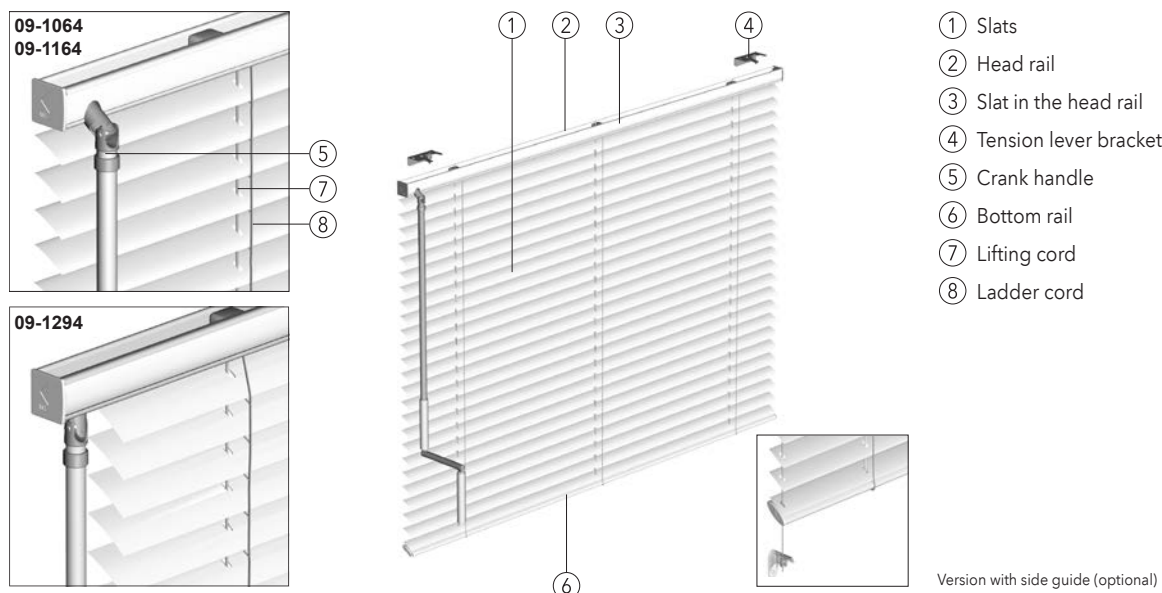– Additional accessories p. 93
– * Invisible punched holes p. 91

Bundle heights:

Unit height up to (cm)	50	100	150	200	250	300	350
Bundle height 16 mm slat approx. to (cm)	5.0	6.0	7.5	9.0	10.5	11.5	13.5
Bundle height 25 mm slat approx. to (cm)	5.0	6.5	7.5	8.5	9.5	11.0	12.0
Bundle height 25 mm slat approx. to (cm) with punched holes	6.0	7.0	8.0	9.0	10.0	11.0	12.0
Bundle height 25 mm slat approx. to (cm) with invisible punched holes	6.0	8.0	10.0	11.0	12.0	13.0	14.0
Bundle height 35 mm slat approx. to (cm)	5.0	6.0	7.5	8.5	9.5	10.5	11.5

Installation:
– Wall and ceiling installation with tension lever brackets
– Additional accessories p. 87
– Bracket quantity table p. 95

Models 09-1064, 09-1164, 09-4464, 09-1294

09-1064
09-1164

09-1294

① Slats
② Head rail
③ Slat in the head rail
④ Tension lever bracket
⑤ Crank handle
⑥ Bottom rail
⑦ Lifting cord
⑧ Ladder cord

Version with side guide (optional)

Model 09-1064 with 16 mm slats
Model 09-1164 with 25 mm slats
Model 09-4464* with 25 mm slats, invisible punched holes
Model 09-1294 with 35 mm slats

Crank gear in the upper rail, crank exit at front in case of Model 09-1064, 09-1164, hanging width corresponds to upper rail including gear. Crank exit vertical at the side in case of model 09-1294, hence upper rail 4.5 cm wider than the hanging. Extruded aluminium head rail with an inserted, colour matching 25 mm front slat. Lower rail made of extruded aluminium with slat in colour of the hanging inserted underneath. Slat colours according to the MHZ collection. Colour of cords and ladder cords match the slats.

Technical data

Dimensions:

Model	Min. width	Max. width	Max. height	Max. surface
09-1064	above 36 cm	up to 45 cm	180 cm	approx. 1 m²
	above 45.1 cm	up to 280 cm	360 cm	9 m²
09-1164	above 36 cm	up to 45 cm	180 cm	approx. 1 m²
	above 45.1 cm	up to 380 cm	360 cm	9 m²
09-4464*	above 50 cm	up to 63.4 cm	180 cm	approx. 1 m²
	above 63.5 cm	up to 380 cm	360 cm	9 m²
09-1264	above 31 cm	up to 40 cm	180 cm	approx. 1 m²
	above 40.1 cm	up to 450 cm	360 cm	9 m²

Models 09-1064, 09-1164

Model 09-1294

Profiles:
Head rail: width 29 mm, height 29 mm
Bottom rail for 16 mm slats: width 21 mm, height 8.5 mm
Bottom rail 25 + 35 mm slats: width 30 mm, height 10 mm

Hardware colour:
100 silver anodized (E6/EV1)
171 white powder-coated (RAL 9016)

Slats:
Width 16, 25 and 35 mm, aluminium 0.22 mm, elastic, enamelled, see the collection for surfaces and colours. Detailed information can be found in the material properties brochure.

Operation:
Lifting, lowering and tilting via crank handle. Hanging secured automatically. Operation side left or right. For **Model 09-1294** Crank exit is found on the side; the head rail is 4.5 cm wider than the hanging.

Unit height (cm)	50-75	75-100	100-125	125-150	150-175	175-200	200-250	250-300	> 300
Operation length (cm)	50	75	100	125	150	175	200	250	300

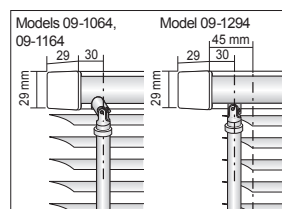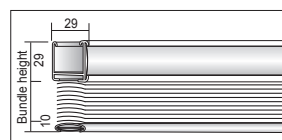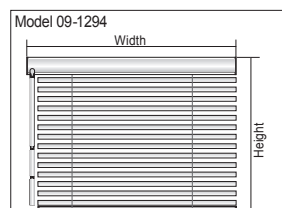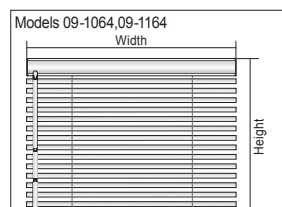Other operating lengths available on request at extra cost

Models 09-1064, 09-1164

Model 09-1294

Optional equipment:
– Side guide, steel wire ø 1 mm, plastic coated
– Multicoloured hanging p. 90
– Surcharges p. 87
– Additional accessories p. 93
– * Invisible punched holes p. 91

Bundle heights:
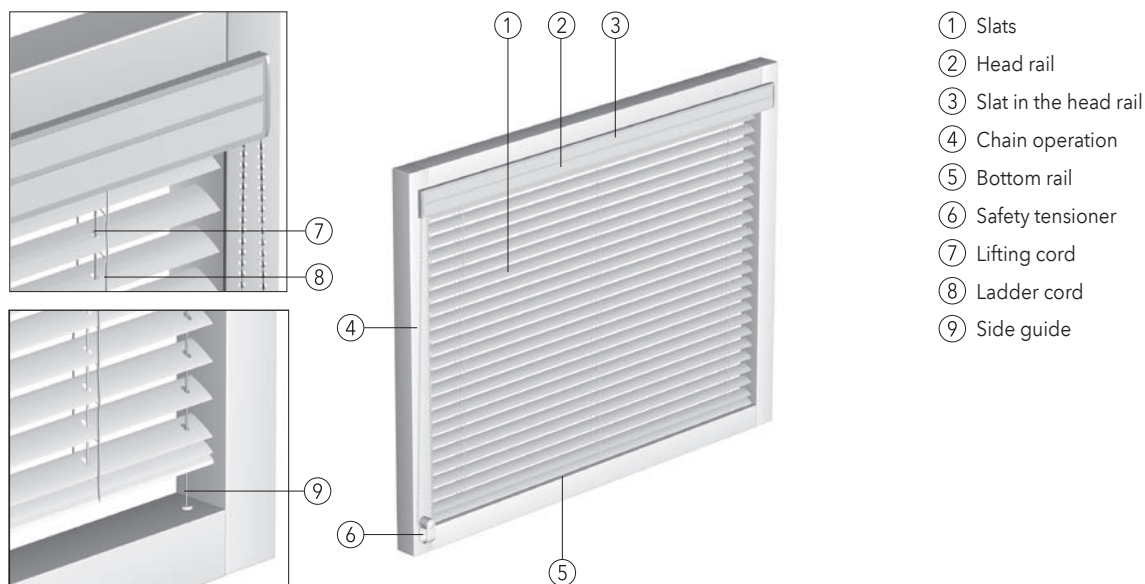
Unit height up to (cm)	50	100	150	200	250	300	350
Bundle height 16 mm slat approx. to (cm)	5.0	6.0	7.5	8.0	10.0	11.0	13.0
Bundle height 25 mm slat approx. to (cm)	5.0	6.0	7.0	7.5	8.5	9.0	10.0
Bundle height 25 mm slat approx. to (cm) with invisible punched holes	6.0	8.0	10.0	11.0	12.0	13.0	14.0
Bundle height 35 mm slat approx. to (cm)	5.0	6.0	7.5	8.5	9.0	10.0	11.5

Installation:
– Wall and ceiling installation with tension lever brackets
– Additional accessories p. 87
– Bracket quantity table p. 95

Technical information
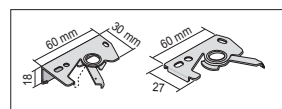
Models 09-1055, 09-1056, 09-1155, 09-1156

①	Slats
②	Head rail
③	Slat in the head rail
④	Chain operation
⑤	Bottom rail
⑥	Safety tensioner
⑦	Lifting cord
⑧	Ladder cord
⑨	Side guide

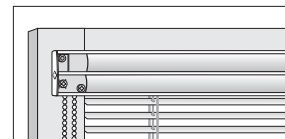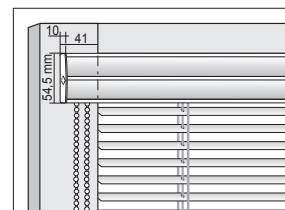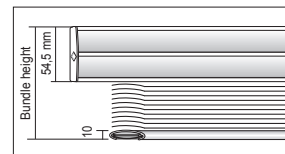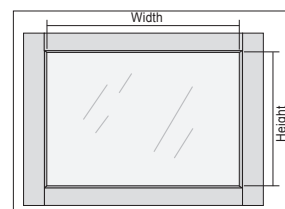**Model 09-1055** with 16 mm slats for angled glazing bead   **Model 09-1056** with 16 mm slats for angled glazing bead
Model 09-1155 with 25 mm slats for angled glazing bead   **Model 09-1156** with 25 mm slats for angled glazing bead

Specific to front mounting on the window sash of tilt/turn windows. L-shaped upper rail made of extruded aluminium, with 25 mm slats in the colour of the hanging inserted at the front side; hardware and hanging in the glazing rebate, directly in front of the pane. Chain operation, chain exit in front of the window frame. Standard equipment with side guide (nylon cord ø 0.6 mm). Lower rail made of extruded aluminium with slat in colour of the hanging inserted underneath. Slat colours according to MHZ collection. Cords and ladder cords colour-matched to slats. For safety tensioner installation see p. 116.
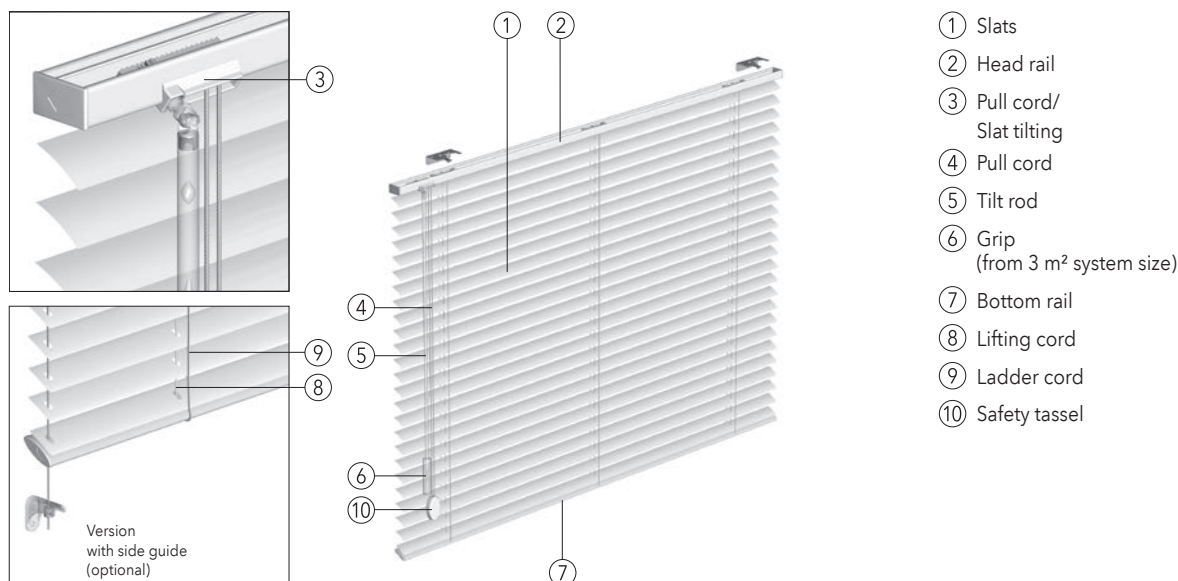
Technical data

Dimensions:					
	Model	Min. width	Max. width	Max. height	Max. surface
	09-1055,	above 37 cm	up to 50 cm	180 cm	approx. 1 m²
	09-1056	above 50.1 cm	up to 250 cm	360 cm	4 m²
	09-1155,	above 37 cm	up to 50 cm	180 cm	approx. 1 m²
	09-1156	above 50.1	up to 250 cm	360 cm	4 m²

Profiles:
Head rail: width 29 mm, height 29 mm
Cover profile: width 10 mm, height 54.5 mm
Bottom rail: For 16 mm slats: width 21 mm, height 8.5 mm
Bottom rail: For 25 mm slats: width 30 mm, height 10 mm

Hardware colour:
100 silver anodized (E6/EV1)
171 white powder-coated (RAL 9016)

Slats:
Width 16 and 25 mm, aluminium 0.22 mm, elastic, enamelled,
see the collection for surfaces and colours. Detailed information can be found in the material properties brochure.

Operation:
Lifting, lowering and tilting via operation chain (transparent). Hanging secured automatically. Operation side left or right. Chain secured by chain retainer.
Note: Operation length from 50 cm – 150 cm in 10 cm steps,
operation length from 150 cm – 300 cm in 25 cm steps
Delivery with the exact or next smaller operation length.
Other operating lengths available on request at extra cost.

Optional equipment:
Application of planetary gear 3:1 for larger unit dimensions;
see highlighted section on p. 45–49.
– Multicoloured hanging p. 90
– Surcharges p. 87
– Additional accessories p. 93

Bundle heights:

Unit height up to (cm)	50	100	150	200	250	300	350
Bundle height 16 mm slat approx. to (cm)	7.5	8.5	10.0	11.5	13.0	14.5	16.0
Bundle height 25 mm slat approx. to (cm)	7.5	8.5	9.5	10.5	11.0	12.0	13.0

Installation:
Front installation, directly on the window sash. For glazing bead depth of less than 22 mm, use 5 mm spacer (installation kit); p. 96.

◆ MHZ

Models 09-1091, 09-1191, 09-4491, 09-1291

① Slats
② Head rail
③ Pull cord/
Slat tilting
④ Pull cord
⑤ Tilt rod
⑥ Grip
(from 3 m² system size)
⑦ Bottom rail
⑧ Lifting cord
⑨ Ladder cord
⑩ Safety tassel

Version
with side guide
(optional)

Model 09-1091 with 16 mm slats
Model 09-1191 with 25 mm slats
Model 09-4491* with 25 mm slats, invisible punched holes
Model 09-1291 with 35 mm slats

Slat tilting with wand, opening and the closing of the hanging with pull cord. Pull cord exit and tilt rod at the front. Flat, extruded aluminium head and bottom rail. Bottom rail with an inserted, colour matching slat. Slat colours according to the MHZ collection. Colour of cords and ladder cords match the slats. With safety tassel and cord cleat p. 116.

Technical data

Dimensions:

Model	Min. width	Max. width	Max. height	Max. surface
09-1091	above 33 cm	up to 180 cm	300 cm	approx. 5 m²
09-1191	above 33 cm	up to 260 cm	300 cm	approx. 5 m²
09-4491*	above 33 cm	up to 260 cm	300 cm	approx. 5 m²
09-1291	above 45 cm	up to 270 cm	300 cm	approx. 5 m²

Profiles: Head rail: width 27 mm, height 16 mm
Bottom rail for 16 mm slats: width 21 mm, height 8.5 mm
Bottom rail 25 + 35 mm slats: width 30 mm, height 10 mm

Hardware colour: 100 silver anodized (E6/EV1)
171 white powder-coated (RAL 9016)

Slats: Width 16, 25 and 35 mm, aluminium 0.22 mm, elastic, enamelled, see the collection for surfaces and colours. Detailed information can be found in the material properties brochure.

Operation: Hanging is lifted and lowered with a pull cord, secured in position by the cord connector. Slat tilting with wand (acrylic). Operation side left or right. Tilt rod up to 3 m² unit surface without handle element, above 3 m² unit surface with handle element.

Unit height (cm)	50-75	75-100	100-125	125-150	150-175	175-200	200-250
Pull cord / Wand length (cm)	50	75	100	125	150	175	200

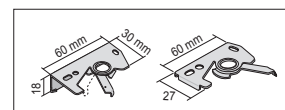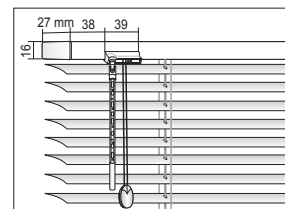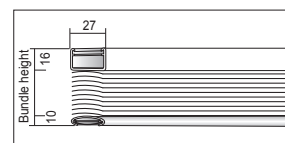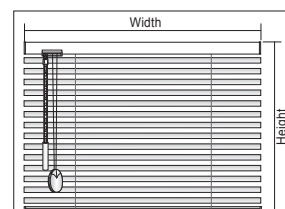Other wand lengths available on request at extra cost.

Optional equipment:
- Side guide, steel wire ø 1 mm, plastic coated
- Multicoloured hanging p. 90
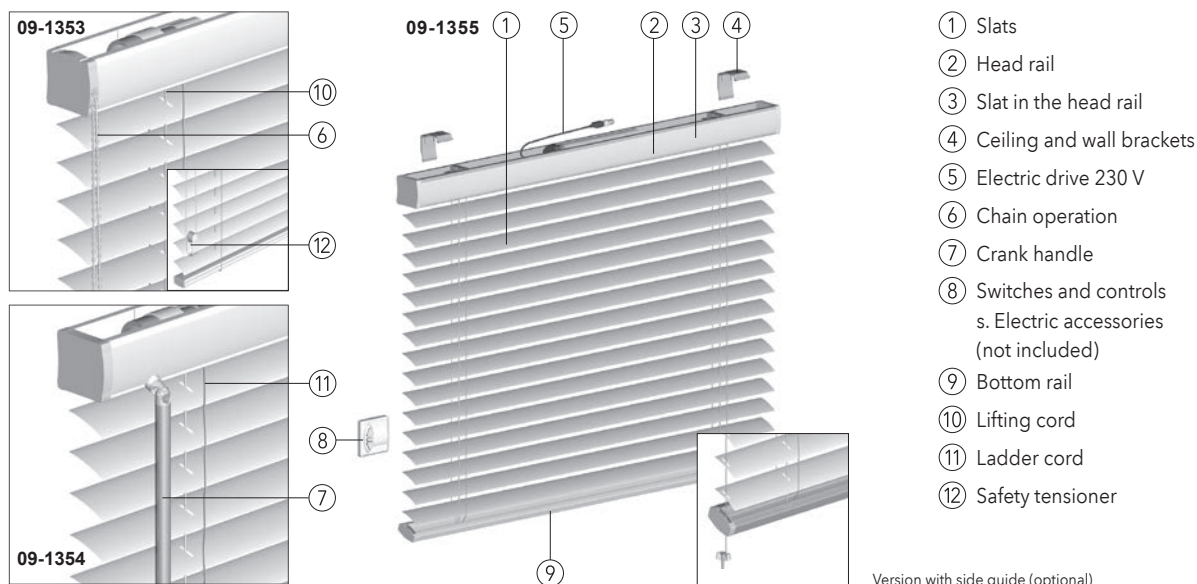- Surcharges p. 87, additional accessories p. 93
- * Invisible punched holes p. 91

Bundle heights:

Unit height up to (cm)	50	100	150	200	250	300
Bundle height 16 mm slat approx. to (cm)	4.0	5.0	6.0	8.0	9.5	11.0
Bundle height 25 mm slat approx. to (cm)	4.0	5.0	6.0	6.5	7.5	8.5
Bundle height 25 mm slat approx. to (cm) with invisible punched holes	5.0	6.5	8.5	9.0	10.0	10.5
Bundle height 35 mm slat approx. to (cm)	4.0	5.0	6.5	7.5	8.5	9.5

Installation:
- Wall and ceiling installation with tension lever brackets
- Additional accessories p. 87
- Bracket quantity table p. 95

Width

Height

27
16

Bundle height
10

27 mm 38   39
16

60 mm   30 mm   60 mm
18   27

Technical information

Models 09-1353, 09-1354, 09-1355

①	Slats
②	Head rail
③	Slat in the head rail
④	Ceiling and wall brackets
⑤	Electric drive 230 V
⑥	Chain operation
⑦	Crank handle
⑧	Switches and controls s. Electric accessories (not included)
⑨	Bottom rail
⑩	Lifting cord
⑪	Ladder cord
⑫	Safety tensioner

Version with side guide (optional)

Model 09-1353 with 50 mm slats, chain operation
Model 09-1354 with 50 mm slats, Crank handle

Model 09-1355 with 50 mm slats, Electric drive 230 V
(Not suitable for damp locations)

Upper and lower rail made of aluminium. Slat colours according to the MHZ collection. Lifting tapes in grey and white, ladder cords in white or grey, matched to the slat colour. With safety tensioner system (only 09–1353) p. 116.

Technical data

Dimensions:

Model	Min. width	Max. width	Max. height	Max. surface
09-1353	above 46 cm	up to 450 cm	450 cm	approx. 8 m²
09-1354	above 46 cm	up to 450 cm	450 cm	approx. 16 m²
09-1355	above 68.5 cm	up to 450 cm	450 cm	approx. 20 m²

Profiles: Head rail: Width 59 mm, height 53/56 mm
Bottom rail: width 52 mm, height 20 mm

Hardware colour: 100 silver anodized (E6/EV1)
171 white powder-coated (RAL 9016)

Slats: Width 50 mm, aluminium 0.28 mm, elastic, enamelled, see the collection for surfaces and colours. Detailed information can be found in the material properties brochure.

Operation: **Model 09-1353:** Lifting (front chain), lowering and tilting with operation chain (transparent). Curtain latches automatically. Operation side left or right. Chain secured by safety tensioner.
Note: Operation length from 50 cm – 150 cm in 10 cm steps, operation length from 150 cm – 300 cm in 25 cm steps

Delivery with the exact or next smaller operation length. Other operating lengths available on request at extra cost.

Model 09-1354: Lifting, lowering and tilting via crank handle (can be removed if desired, at extra cost). Crank exit at the front, 54 mm from the outside. Hanging secured automatically. Operation side left or right. Crank handle secured via crank clip.

Unit height (cm)	50-75	75-100	100-125	125-150	150-175	175-200	200-250	250-300	> 300
Operating length Crank (cm)	50	75	100	125	150	175	200	250	300

Model 09-1355: Lifting, lowering and tilting via 230 V electric drive (cable length approx. 90 cm) integrated on the side or in the middle of the head rail, with adjusted end position switch-off. Various control options due to switch, radio remote control, sun control or timer. Electric accessories and prices p. 100.
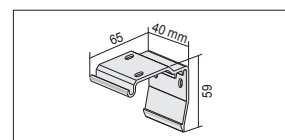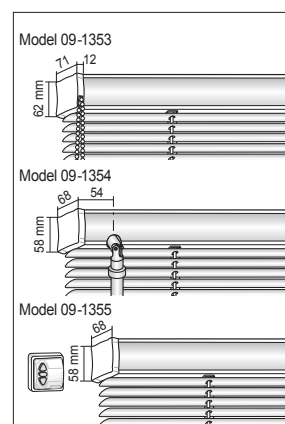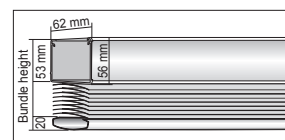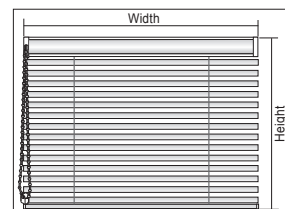
Optional equipment:
– Side guide, steel wire ø 1 mm, plastic coated
– Leader tapes
– Multicoloured hanging p. 90
– Surcharges p. 87
– Additional accessories p. 93

Bundle heights:
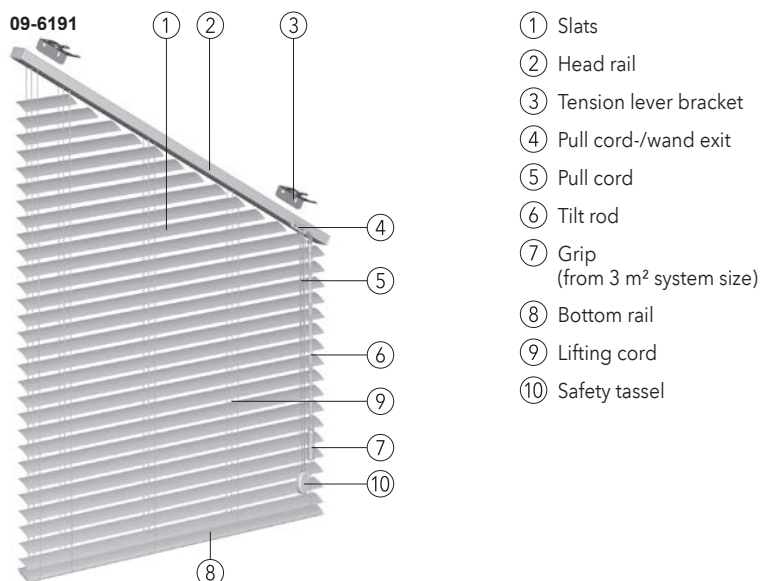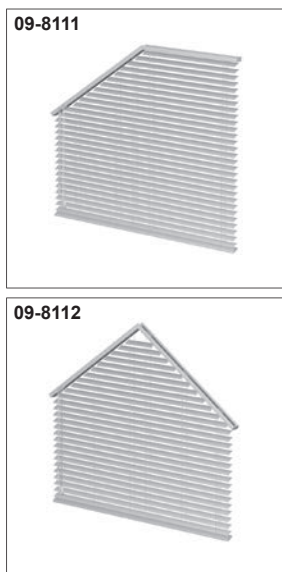
Unit height up to (cm)	50	100	150	200	250	300	350	400	450
Bundle height up to approx. (cm)	10.0	11.0	12.0	14.0	15.0	16.0	17.5	19.0	20.0

Installation:
– Installation with wall and ceiling brackets.
– Additional installation accessories p. 87
– Bracket quantity table p. 95

Models 09-6191, 09-8111, 09-8112

09-8111

09-8112

09-6191

①	Slats
②	Head rail
③	Tension lever bracket
④	Pull cord-/wand exit
⑤	Pull cord
⑥	Tilt rod
⑦	Grip (from 3 m² system size)
⑧	Bottom rail
⑨	Lifting cord
⑩	Safety tassel

Model 09-6191 with 25 mm slats for sloping windows up to 45°
Model 09-8111 with 25 mm slats for pentagon windows up to 45°
Model 09-8112 with 25 mm slats for triangular windows up to 30°

Slat tilting with wand, opening and the closing of the hanging with pull cord only in the rectangular area. Pull cord exit and tilt rod at the front. Flat, extruded aluminium head and bottom rail. Bottom rail with an inserted, colour matching slat. Slat colours according to the MHZ collection. Colour of cords and ladder cords match the slats. With safety tassel and cord cleat p. 116.

Technical data

Dimensions:

Model	Min. width	Max. width	Max. height	Max. surface
09-6191	above 33 cm	up to 250 cm	300 cm	approx. 4 m²
09-8111	above 33 cm	up to 250 cm	300 cm	approx. 4 m²
09-8112	above 33 cm	up to 250 cm	300 cm	approx. 4 m²

Profiles: Head rail: width 27 mm, height 16 mm
Bottom rail: width 30 mm, height 10 mm

Hardware colour: 100 silver anodized (E6/EV1)
171 white powder-coated (RAL 9016)

Slats: Width 25 mm, aluminium 0.22 mm, elastic, enamelled,
see the collection for surfaces and colours. Detailed information can be found in the material properties brochure.

Operation: Lifting and lowering of the rectangular area with pull cord, secured in position via cord connector. Slat tilting with tilt rod (acrylic). Tilt rod up to 3 m² unit surface without handle element, above 3 m² unit surface with handle element.
Operation side only at the lowest height.

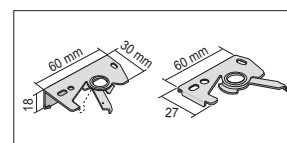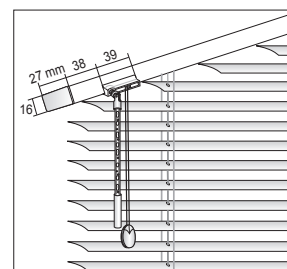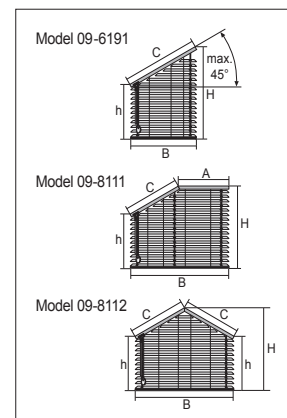| Unit height (cm)	50-75	75-100	100-125	125-150	150-175	175-200	200-250
Operating length Cord / Wand (cm)	50	75	100	125	150	175	200

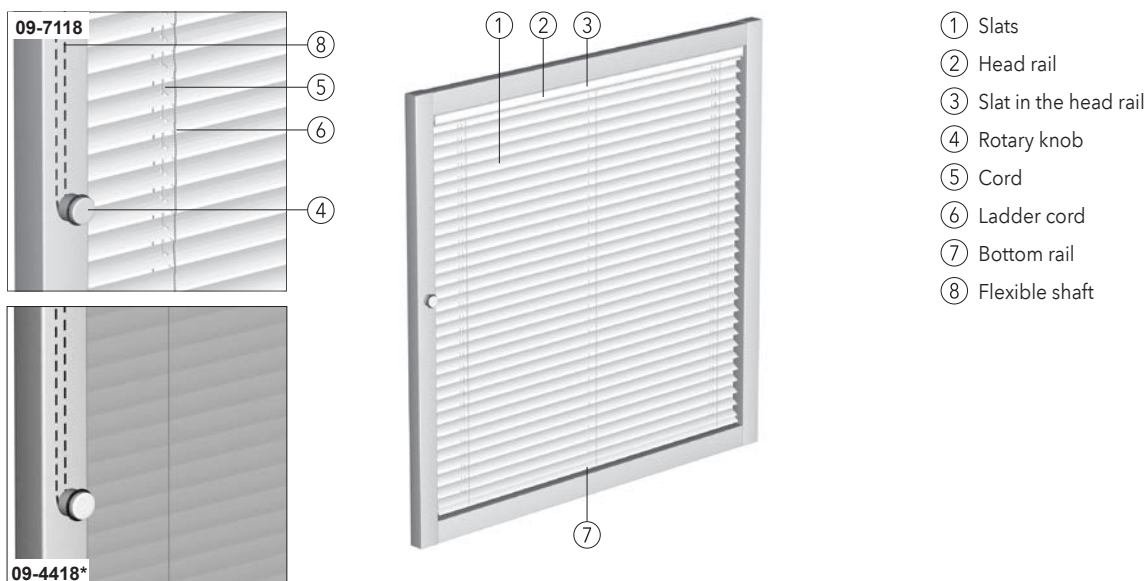Other wand lengths available on request at extra cost.

Optional equipment:
– Side guide, steel wire ø 1 mm, plastic coated
– Multicoloured hanging p. 90
– Surcharges p. 87
– Additional accessories p. 93

Installation:
– Wall and ceiling installation with tension lever brackets
– Additional installation accessories p. 87
– Bracket quantity table p. 95

Model 09-6191

Model 09-8111

Model 09-8112

Technical information

Models 09-7118, 09-4418*

09-7118

⑧
⑤
⑥
④

09-4418*

① ② ③

④

⑦

① Slats
② Head rail
③ Slat in the head rail
④ Rotary knob
⑤ Cord
⑥ Ladder cord
⑦ Bottom rail
⑧ Flexible shaft

Model 09-7118 with 25 mm slats, Rotary knob operation
Model 09-4418* with 25 mm slats, Rotary knob operation, invisible punched holes
Fixed hanging, slat tilting with rotary knob, 2 perforations per slat for slat mount. Extruded aluminium head rail with an inserted, colour matching 25 mm front slat. Lower rail made of extruded aluminium with slat in colour of the hanging inserted underneath. Slat colours according to the MHZ collection. Colour of cords and ladder cords match the slats.

Technical data

Dimensions:	Model	Min. width	Max. width	Max. height	Max. surface
	09-7118	above 37.5 cm	up to 210 cm	300 cm	approx. 4 m²
	09-4418*	above 37.5 cm	up to 210 cm	300 cm	approx. 4 m²

Profiles: Head rail: width 29 mm, height 29 mm
Bottom rail: width 30 mm, height 10 mm

Hardware colour: 100 silver anodized (E6/EV1)
171 white powder-coated (RAL 9016)

Slats: Width 25 mm, aluminium 0.22 mm, elastic, enamelled, see the collection for surfaces and colours.
Detailed information can be found in the material properties brochure.

Operation: Rotary knob on the frame for slat tilting.
Flexible shaft between rotary knob and head rail (150 cm, can be cut to length).
Rotary knob on left or right.

Optional equipment: – Side guide, steel wire ø 1 mm, plastic coated
– Multicoloured hanging p. 90
– Surcharges p. 87
– Additional accessories p. 93
– * Invisible punched holes p. 91

Installation: – Ceiling fitting with tension lever brackets
– Additional installation accessories p. 87
– Bracket quantity table p. 95
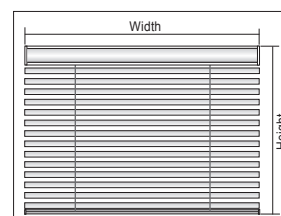
Models 09-3118, 09-3218, 09-3115, 09-3215
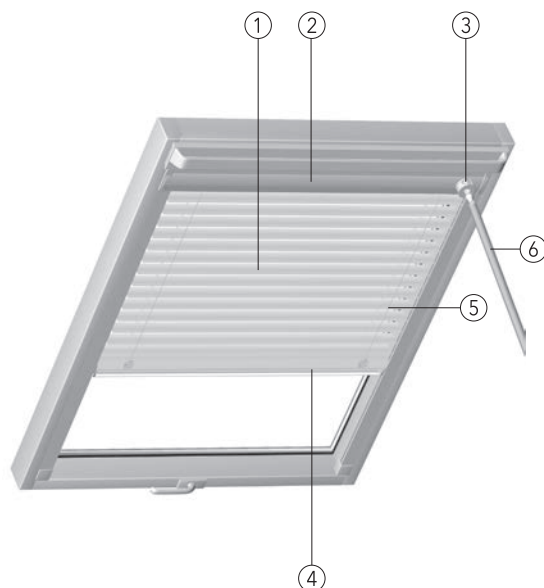
① Slats
② Head rail
③ Rotary knob
④ Bottom rail (operation)
⑤ Ladder cord
⑥ Optional equipment:
Operating rod with tilting
adapter suitable for opera-
ting rail and rotary knob

Model 09-3118 with 25 mm slats, Rotary knob for slat tilting
Model 09-3218 with 35 mm slats, Rotary knob for slat tilting
Model 09-3115 with 25 mm slats, Tilting motor for slat tilting
Model 09-3215 with 35 mm slats, Tilting motor for slat tilting

Hanging movable by operable lower rail. With side guiding profiles. Slat tilting by means of rotary knob or tilting motor with infrared remote control. All profiles made of extruded aluminium. Slat colours according to the MHZ collection. Note: For technical reasons the MHZ Skylight Blind is **not** suitable for the following window models: BRAAS Atelier, DELTA Galeria Atelier/Smart, DÖRKEN Atelier/Galeria Smart.

Technical data

	Model	Min. width	Max. width	Max. height	Max. surface
Dimensions:	09-3118	above 30 cm	up to 120 cm	160 cm	approx. 1.9 m²
	09-3218	above 30 cm	up to 160 cm	160 cm	approx. 2.4 m²
	09-3115	above 30 cm	up to 120 cm	160 cm	approx. 1.9 m²
	09-3215	above 30 cm	up to 160 cm	160 cm	approx. 2.4 m²

Hardware colour: 100 silver anodized (E6/EV1)
171 white powder-coated (RAL 9016)

Slats: Width 25 and 35 mm, aluminium 0.22 mm, elastic, enamelled, see the collection for surfaces and colours. Detailed information can be found in the material prop-erties brochure. Perforated slats not available.

Operation: Hanging can be adjusted via the bottom rail. Bottom rail secured in desired position.

Models 09-3118, 09-3218:
Slat tilting via rotary knob at the head rail, on left or right. Operation rod can be used to operate rotary knob for difficult to reach units.
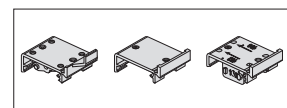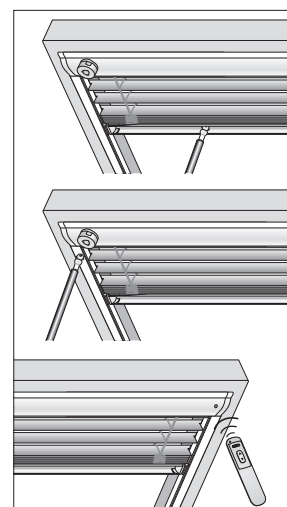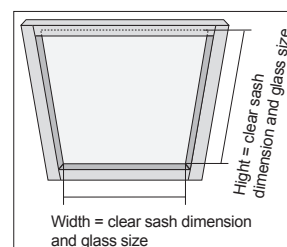
Models 09-3115, 09-3215:
Slat tilting via battery-operated tilting motor and infrared remote control.
Note: Tilting motor can only be installed on the right hand side.

Optional equipment: – Operation rod with tilting adapter
– Infrared remote control for **Model 09-3115** and **09-3215**
– Multicoloured hanging p. 90
– Surcharges p. 87
– Additional accessories p. 93

Installation: Installation with universal plastic brackets (depending on the skylight model); p. 95.

Width = clear sash dimension and glass size

Technical informa-tion