

Sliding shutters – for automated convenience.

Hardware system for wood, metal or aluminium automatic sliding shutters with a panel weight up to 60 kg (132 lbs.).

Description

HAWA-Frontslide 60/matic is an electrically powered hardware system for sliding shutters. Its brushless electric motor, a HAWA-Motronic 60 with a high-quality transmission system and drive belt, guarantees a stable, maintenance-free system with a long life. No special connection cables or control box required thanks to controls integrated in the drive unit. Electrical installation therefore corresponds to the usual standard for shutter designs and enables the use of commercially available operating elements.

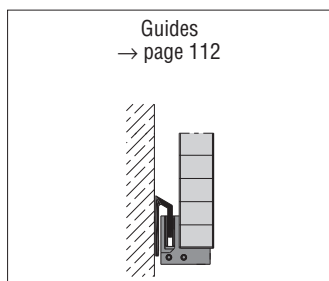
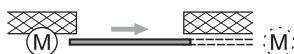
HAWA-Frontslide 60/matic allows maximum flexibility in façade design: various fixing and covering screen options cover virtually all needs.

Applications

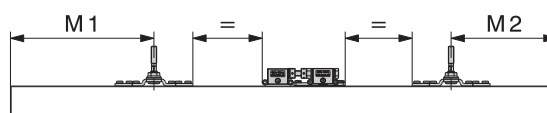
Ideal in building façades designed for privacy and shade, and where space is at a premium, e.g. schools, hotels, public buildings, office premises, low-energy homes, or creative frontage designs in residential settings.

Features of the HAWA-Frontslide 60/matic

- Maximum sliding shutter weight: 60 kg (132 lbs.)
- Sliding shutter thickness: 28–45 mm ($1\frac{1}{8}$ – $1\frac{23}{32}$ ")
- Minimum sliding shutter width: 600 mm ($1'11\frac{5}{8}$ ")
- Maximum sliding shutter height: 3200 mm (10'6")
- Maximum sliding shutter surface: 6.24 m² (67.167 ft²)
- Maximum installation width: 7500 mm ($24'7\frac{9}{32}$ ")
- Fibreglass-reinforced toothed belts guarantee high tensile strength and a low level of expansion
- High operating safety of the drive unit in outdoor areas thanks to splash water resistance
- The sliding shutters can be moved into any position for privacy or shade, etc.
- Shutters can be removed without loosening the toothed belt
- Straightforward wall or ceiling installation
- For wood, metal or aluminium sliding shutters
- Clip-on covers for attachment to inside and/or outside of track
- Different design options of bottom guides
- Drive unit: CE tested, technical details: → following page



Calculation for suspension points



60/matic	M1	M2
SL1	210 mm ($8\frac{9}{32}$ ")	155 mm ($6\frac{1}{8}$ ")

Drive unit HAWA-Motronic 60

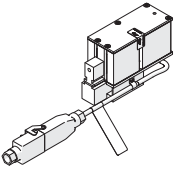
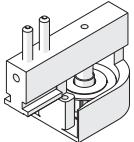
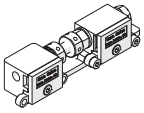

HAWA-Motronic 60 is a drive unit with integrated control for automating sliding hardware with a speed of 100 mm ($3 \frac{15}{16}$ "/s) and a maximum drive force of 100 N. Drive commands are triggered by applying a current to the control wires.

The HAWA-Motronic 60 drive automatically detects the end position of the sliding shutter during the teach-in process. The drive stops and reverses (2x) when it encounters an obstacle.

HAWA-Motronic 60, set for sliding shutter drive

	code
HAWA-Motronic 60 for HAWA-Frontslide 60/matic, incl. control unit, toothed belt lock and pulley wheel	25146

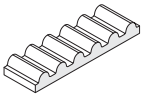
Set comprising

	piece	code
 HAWA-Motronic 60 with integrated control and connecting cable with a premounted Hirschmann plug	1	25061
 Pulley wheel for automatic mechanism	1	24792
 Toothed belt lock	1	19654
 End stop alu	2	24786

Toothed belt

Fibreglass-reinforced toothed belts guarantee high tensile strength and a low level of expansion and high impact load resistance when subjected to heavy flexing.

Toothed belt

	length	code
 Toothed belt, black, fibre glass reinforced	2.7 m ($8'10 \frac{5}{16}$ ")	20208
	5 m ($16'4 \frac{27}{32}$ ")	19667
	8 m ($26'2 \frac{31}{32}$ ")	19682
	10 m ($32'9 \frac{23}{32}$ ")	19668
	15 m ($49'2 \frac{9}{16}$ ")	20370
	50 m ($164' \frac{1}{2}$ ")	19669

Calculation for length of toothed belt:

HAWA-Frontslide 60/matic: 2 x installation width

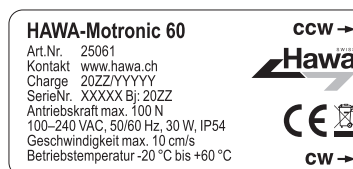
(The toothed belt lock is included with the HAWA-Motronic set 25146)

Technical details HAWA-Motronic 60

- The control is integrated in the drive unit
- Power supply: 100–240 VAC, 50/60 Hz, 30 W
- Max. pre-fuse: 16 A
- Overvoltage category: II
- Protection class: I ⊕
- Operational temperature range: -20 °C – +60 °C
- Degree of siuling: 1
- Degree of protection: IP 54
- Max. speed: 100 mm ($3 \frac{15}{16}$ "/s)
- Max. drive force: 100 N (protected internally against overload)
- Drive unit: CE tested
- Switch elements: provided by customer
- Mains electrical isolation: provided by customer

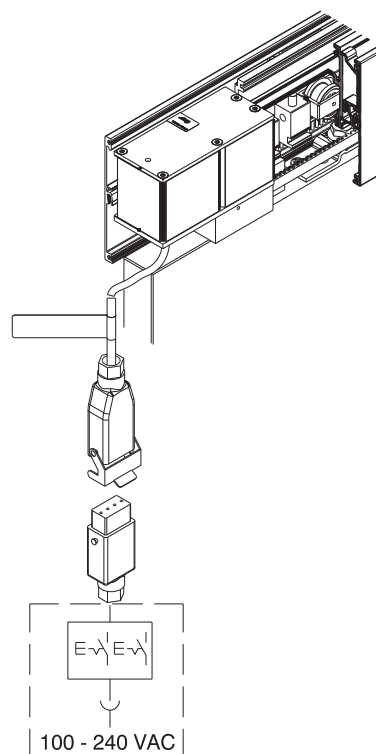
Type label

Every drive unit carries a type label.



Control and operation of the system


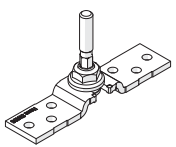
The systems are operated with commercially available electrical switches.



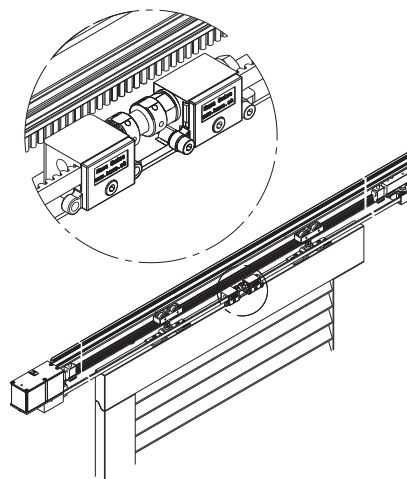
Set without top tracks and bottom guide channels

	code
HAWA-Frontslide 60/matic, partial set for 1 sliding shutter	25132

Set comprising

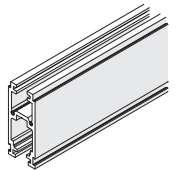

	piece	code
 Two-wheeled trolley, M8, with plastic wheels	2	17119
 Top fixing plate, stainless steel, with hanger bolt M8	2	24562

HAWA-Frontslide 60/matic

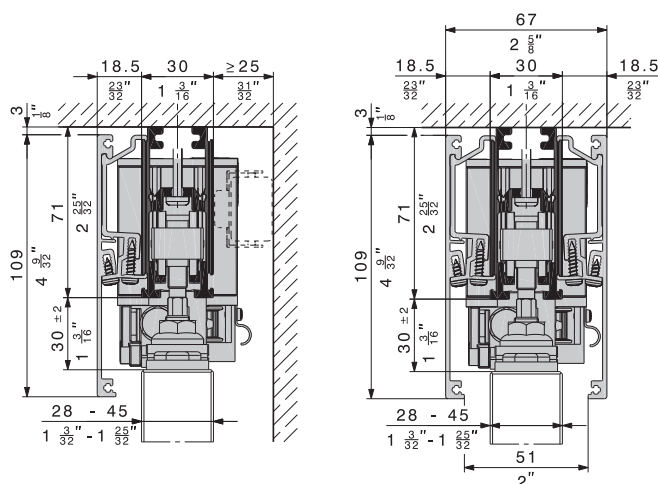


Situation: Toothed belt lock

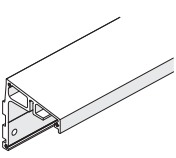


Top tracks for installations with or without covering screens

Caution: Hole positions vary.		mm/inch	code
	Top track, alu plain anodized, predrilled	3500 (11'5 ¹³ / ₁₆ ")	24839
		6000 (19'8 ⁷ / ₃₂ ")	24795
		cut to size	24796
	Connecting bolts, set of 6 pieces		17221
Calculation for length of top track: Length of top track = installation width - 115 mm (4 ¹⁷ / ₃₂ ") (drive unit)			

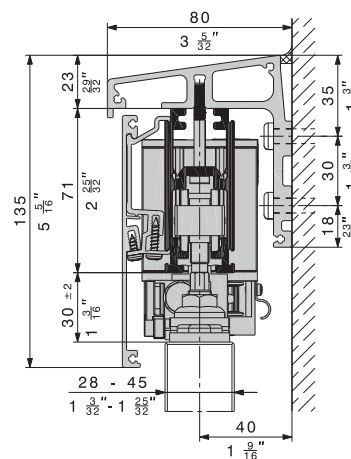
Ceiling or window lintel fitting



Angled profile support

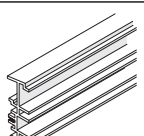
Caution: Hole positions vary.		mm/inch	code
	Angled profile support for one sliding level, alu plain anodized, predrilled	6000 (19'8 ⁷ / ₃₂ ")	21378
		cut to size	21379
	Angled support profile for one sliding level, alu unanodized, predrilled	6000 (19'8 ⁷ / ₃₂ ")	21380
		cut to size	21381
	Special fixing screws for securing top track to angled profile support, set of 10 pieces (3 pieces per meter)		19774
	Connecting bolts, set of 6 pieces		17221
Special screws (code 19774) must be used for best results when fixing the track to the angled profile support.			

Wall fitting

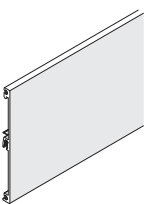




Technische Änderungen vorbehalten.


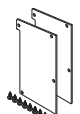
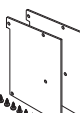
Spacer profile for angled profile support for one sliding level

	mm/inch	code
 Spacer profile for angled profile support for one sliding level, alu plain anodized	6000 (19'8 $\frac{7}{32}$ ")	19724
	cut to size	19727

Covering screens

	mm/inch	code
 Covering screens, alu plain anodized	3500 (11'5 $\frac{13}{16}$ ")	24845
	6000 (19'8 $\frac{7}{32}$ ")	24808
	cut to size	24809
Covering screens, alu unanodized	6000 (19'8 $\frac{7}{32}$ ")	24810
	cut to size	24811
 Parts for fitting top track cover, set of 5 pieces		24767
 Connecting bolts, set of 6 pieces		17221

Front cover plates

	aluminium	code
 Front cover plates for HAWA-Frontslide 60, for ceiling fitting, 1 pair	plain anodized	24573
	unanodized	24575
 Front cover plates, for wall fitting without spacer profile, 1 pair	plain anodized	24577
	unanodized	24580
 Front cover plates, for wall fitting with spacer profile, 1 pair	plain anodized	24583
	unanodized	24586

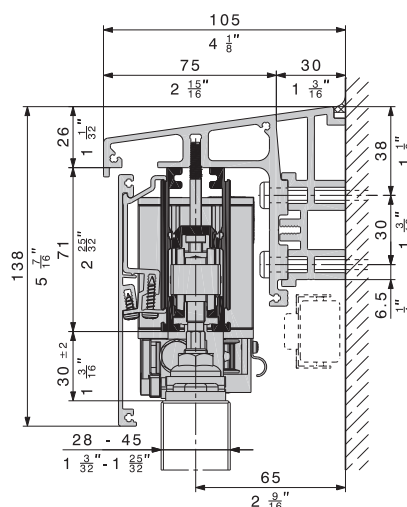
Order specifications

- Number of sets HAWA-Motronic 60
- Number of partial sets HAWA-Frontslide 60/matic
- Number and length of toothed belt
- Number and length of top tracks
- For wall fittings:
 - Number, length and type of angled profile support
 - Number of **special fixing screw sets**
- Number, length and type of covering screens
- Number of fitting parts to covering screens
- Number and type of guides

Optional order specifications

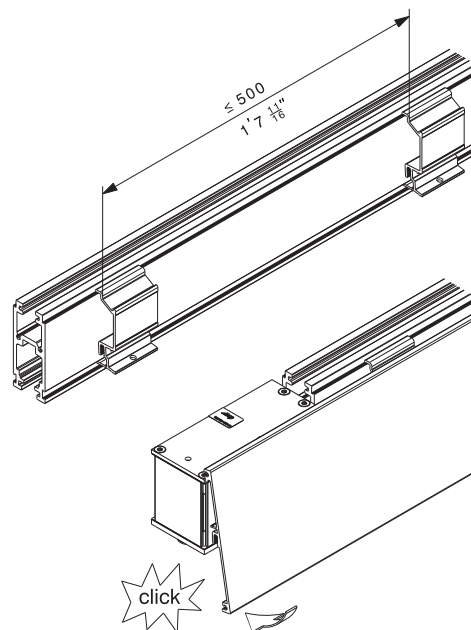
- Number, length and type of spacer profiles for angled profile support
- Number and type of front cover plates
- Number of connecting bolt sets to profiles and covering screens

Wall fitting with increased clearance (weatherboard)



Fitting the covering screens

Cover fixings (code 24767) are required for attaching the covering screens.



Bottom guides

Bottom guides: → page 112.

Planning/installation

For planning and installation purposes, please use the installation drawing code 24991. (→ www.hawa.ch → HAWA-Productfinder)

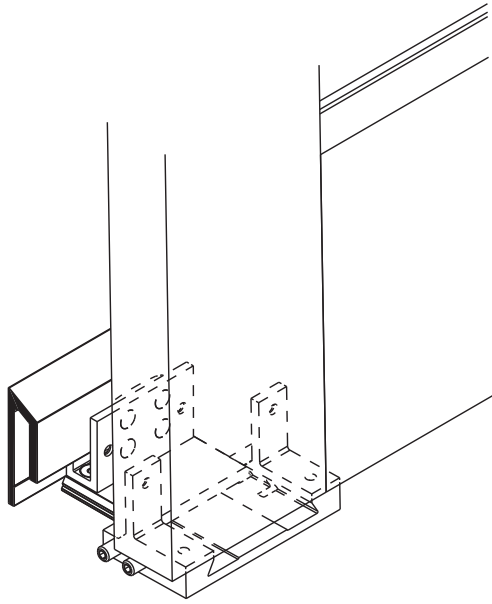
Special regulations apply to automated installations; please refer to operating instructions code 24675.
(→ www.hawa.ch → HAWA-Productfinder)

Guides for sliding shutters up to 3200 mm (10'6") in height and 140 kg (308 lbs.) maximum weight.

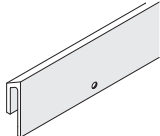
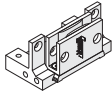
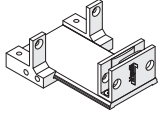

Description

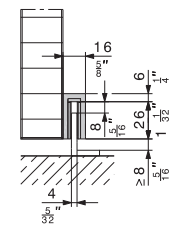
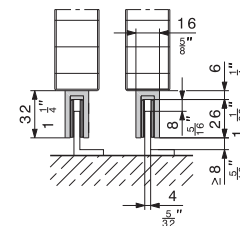
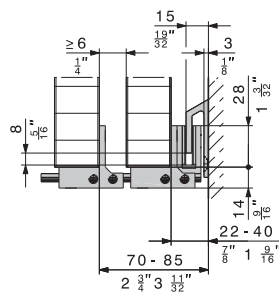
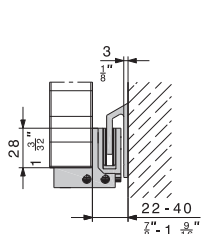
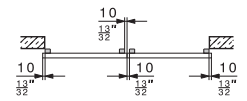
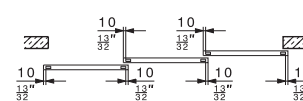
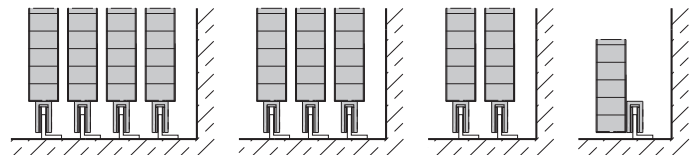
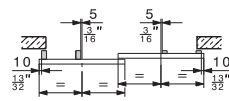
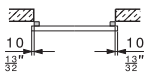
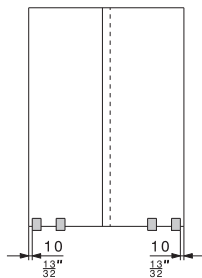
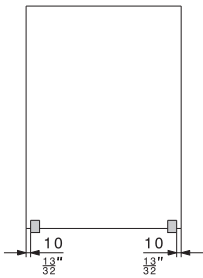
These guides are certified in accordance with the appropriate EU standard (wind resistance class 6) and can be used for a wide variety of applications. They are designed for sliding shutters up to 3200 mm (10'6") in height and a maximum weight of 140 kg (308 lbs.). Sliding shutter installations with 1 to 4 leaves, telescopic and symmetrical, manual or with a drive, can be easily realized with a minimal number of parts.

Commercially available, anodized aluminum bottom guide profiles can be used in combination with guide slider 24542.



Guides for HAWA-Frontslide

	mm/inch	code
	6000 (19'8 ⁷ / ₃₂ ")	24460
	cut to size	24462
	Floor guide unit, short, for bottom guide channel	24543
	Floor guide unit, long, for bottom guide channel	24544
	Screw-on guide slider	24542



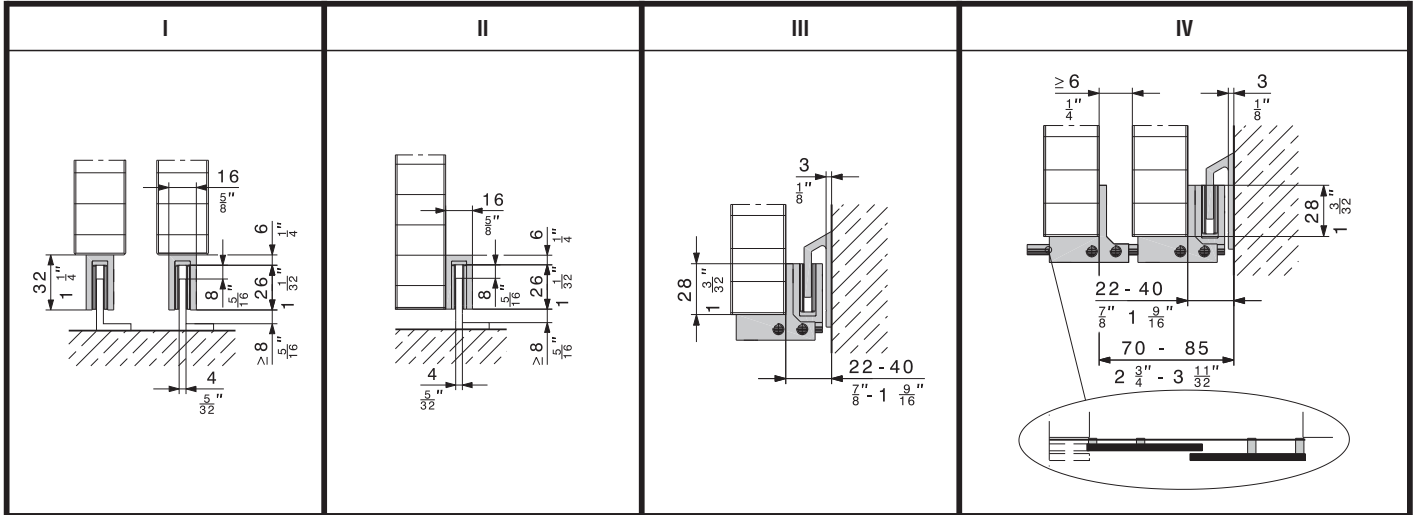
Floor guide 24543, bottom guide channels 24460/24462

Floor guides 24543/24544, bottom guide channels 24460/24462

Guide slider 24542 from Hawa and commercially available, anodized aluminum bottom guide profile.

Technische Änderungen vorbehalten.

Overview of the guides for HAWA-Frontslide



	I	II	III	IV
	✓	✓	✓	-
	✓	-	-	✓
	✓	-	-	-
	✓	-	-	-
	✓	✓	✓	-
	✓	-	-	✓
<p>Guide arrangements</p> <p>Certain guide options are freely adjustable. Further guide options available on request.</p>	<p>24542</p>	<p>24542</p>	<p>24543</p>	<p>24543/24544</p>
	<p>Alu profile anodized provided by others</p>	<p>Alu profile anodized provided by others</p>	<p>24460/24462</p>	<p>24460/24462</p>