

# INDUSTRIAL DOORS



**WIŚNIEWSKI**

## SECTIONAL DOORS MakroPro 2.0

**Intended use:** Industrial sectional doors are intended to be used in residential buildings, public utility buildings, industrial facilities, including the food industry (without direct food contact), and in indoor car parks. The door includes vertical and/or horizontal ceiling-mounted tracks, a leaf made of steel panels infilled with freon-free polyurethane foam or glazed aluminium panels. The structure is made of galvanized elements. The door is sealed around the entire circumference. To balance the leaf weight, a safe torsion spring system is used.



Panel 40 [mm]

### THERMAL INSULATION

Steel panels are made of galvanized sheet, filled with freon-free, hardened polyurethane foam and coated with polyester paint on both sides. This ensures very good thermal insulation and acoustic properties. Each door features a system of flexible and robust gaskets both along the entire circumference and between the panels, which considerably contributes to the insulating qualities of the door.



### SAFETY

The safety systems foremostly consist in minimizing all traces of risk. Regardless of the method of the WIŚNIEWSKI door operation, our doors ensure comfort and safety. Our products are fully compliant with the PN-EN 13241-1 standard.



### FUNCTIONALITY

Thanks to our broad range of track systems, WIŚNIEWSKI industrial doors can be matched with all types of industrial halls. A well selected track type enables you to take advantage of all the benefits that our doors have to offer no matter if the door is installed in newly built or in refurbished buildings.



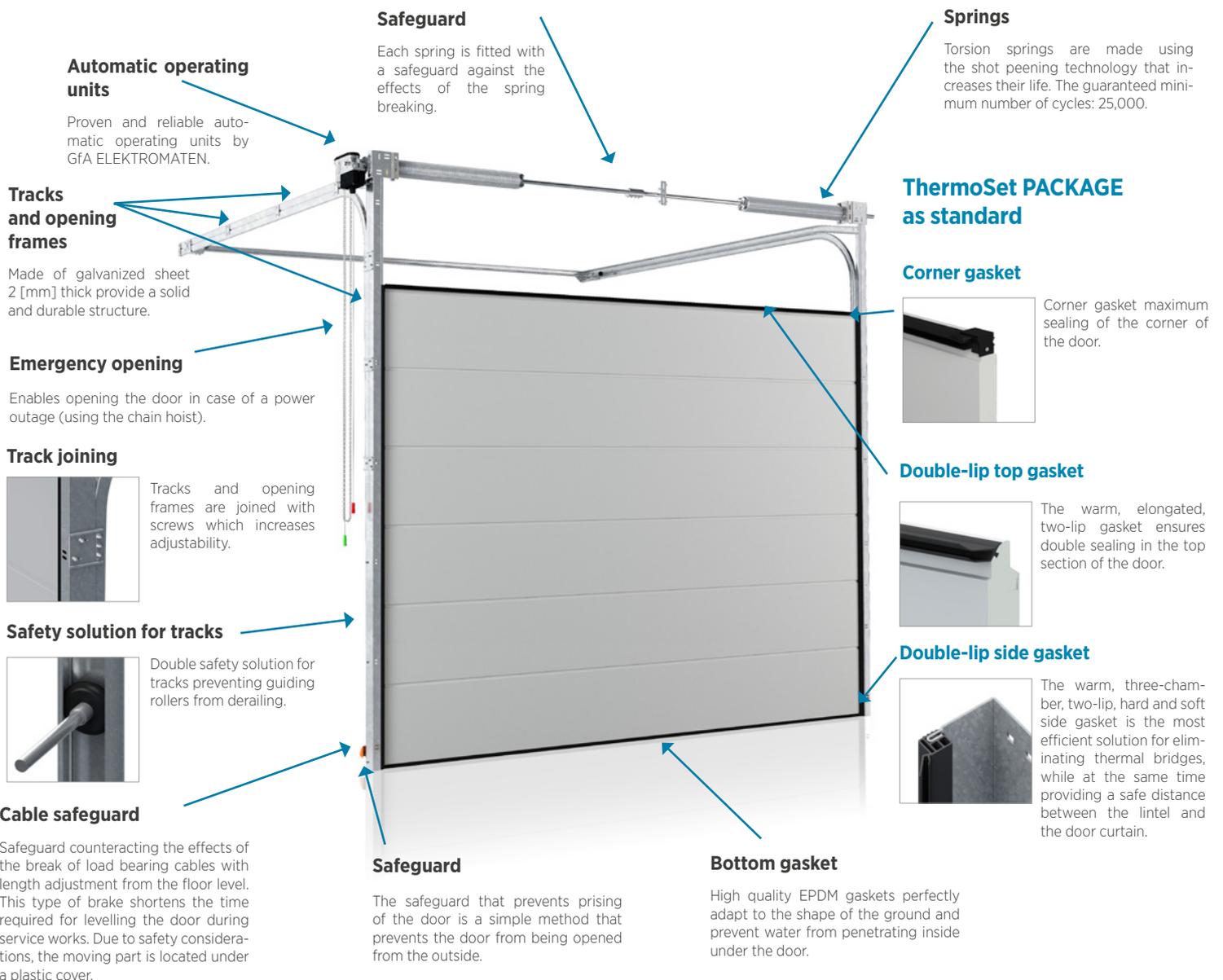
# STRUCTURE

The sectional door is installed behind the opening, it opens vertically upwards and does not take any space on the forecourt. Sectional doors let you use the space available in front of the gate and inside the building to its maximum potential. Thanks to our broad range of track systems, WIŚNIEWSKI industrial doors can be matched with all types of buildings, even non-typical ones. Our solutions enable the door to operate without disturbing the operations inside the industrial hall. Thanks to numerous safety systems, our doors are safe in each phase of opening and closing, regardless of the method of operation: manual or automatic.

The leaf weight is perfectly balanced thanks to the use of a torsion spring system which is seated on the drive shaft. Springs are preselected with computer precision and guarantee the best balancing of the door, maximum comfort and safety of use. The doors are made of panels with a special profile that prevents crushing fingers. All the steel elements are galvanized (tracks, frames, fastening elements). The door is fitted with guiding sliding rollers with bearings and bush fittings (quiet) providing proper running of the door curtain. Tracks featuring a special double profile prevent it from derailing. Comfortable operation of the door is ensured by our chain hoist or electric drive unit.

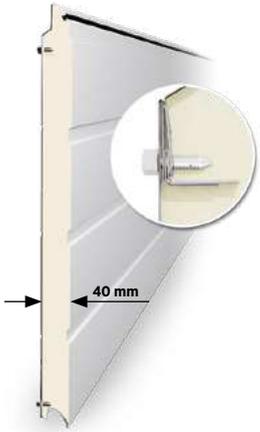
Large dimension gates are additionally reinforced with special elements that increase the rigidity of the entire structure. Door panels are coated with high quality polyester paints. This provides optimum protection against the weather conditions and ensures many years of operation. Thanks to the vast range of colours, WIŚNIEWSKI industrial doors can be easily matched with the building's façade. WIŚNIEWSKI doors are an investment that stands the test of time.

Due to the corrosion protection of the doors, they can be used according to their intended use in atmospheric corrosion class environments C1, C2, C3 in accordance with PN-EN ISO 12944-2 and PN-EN ISO 14713.





## PANEL STRUCTURE



### Robust and reliable design

Our whole range of industrial sectional doors follows identical design principles. Thanks to our robust and reliable design, you can rest assured that the door will meet even the most extreme requirements and operating conditions. Special solutions, such as the original panel built using the **5-ply** sheet bending system ensures stable fastening of elements, which further contributes to the strength of the structure. The top section is fitted with a lip gasket. The internal side of the panel in RAL 9002.

## RIB DESIGNS

V ribs



Low ribs



High ribs



Smooth ribs



## COLOURS

### Standard colours

White RAL 9016	Silver RAL 9006	Dark Grey RAL 9007
Pebble Grey RAL 7032	Brown RAL 8014	Green RAL 6002
Yellow RAL 1021	Graphite RAL 7016	Red RAL 3000
Blue RAL 5010		

### Special colours

Golden Oak	Walnut	Oregon	Macore	Dark Oak	Swamp Oak
Black Cherry	Summer Cherry	Winchester	Siena Rosso	Siena Noce	Sapeli
Siena PL	Dark Green	Cream White	Anthracite Grey	Sibergrau	Metbrush Silver
AnTeak	Anthracite Quartz	"Weiss" Wite	Chocolate Brown	Natural Oak	Rustic Oak
Douglas Fir	Sheffield Oak Brown	Sheffield Oak Light	Sheffield Oak Grey	Earl platin	Brusch schwarzbraun
Black ultra-mat	Sheffield Oak Alpine	Sheffield Oak Concrete	Turner Oak Malt	Cremeweiss	Umbragrau
				Fenstergrau	Anthrazitgrau

### Textures



WIŚNIEWSKI sectional doors are available in a wide range of colours. You can match the door to the individual character of the building and your needs so that the door not only closes off the building, but constitutes its integral part that perfectly matches the company colours, façade or the surrounding environment.



# TRACKS



### Standard STL track

Track system for buildings with a typical lintel  $N_{min} = 435, 520, 870$  [mm].  
For buildings where horizontal ceiling tracks can be used.

### Available dimensions for MakroPro 2.0 doors with STL tracks

Opening height ( $H_o$ ) in [mm] up to	Opening width ( $S_o$ ) in [mm] up to																											
	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000	6250	6500	6750	7000	7250	7500	7750	8000			
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$N_{min} = 435$  [mm]

$N_{min} = 520$  [mm]

$N_{min} = 870$  [mm]



**Standard LH track**

Track system for buildings with a low lintel  $N_{min} = 220$  [mm]. Frequently used in underground garages, indoor car parks or multiple bay car parks.

**Available dimensions for MakroPro 2.0 doors with LH tracks**

Opening height ( $H_o$ ) in [mm] up to	Opening width ( $S_o$ ) in [mm] up to																			
	2000	2250	2500	2800	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000	6250	6500	6750
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**Standard LHp track**

Track system for buildings with a low lintel  $N_{min} = 280$  [mm]. Frequently used in underground garages, indoor car parks or multiple bay car parks.

**Available dimensions for MakroPro 2.0 doors with LHp tracks**

Opening height ( $H_o$ ) in [mm] up to	Opening width ( $S_o$ ) in [mm] up to																			
	2000	2250	2500	2800	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000	6250	6500	6750
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**Standard HL track**

Track system for buildings with a high lintel  $N_{min} > 600$  [mm]. Frequently used in industrial hall type buildings.

**Available dimensions for MakroPro 2.0 doors with HL tracks**

Opening height (H <sub>o</sub> ) in [mm] up to	Opening width (S <sub>o</sub> ) in [mm] up to																								
	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000	6250	6500	6750	7000	7250	7500	7750	8000
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$N_{min} > 600$  [mm]



**Standard VL track**

Track system for buildings with a very high lintel  $N_{min} = H_o + 650$  [mm]. Frequently used in industrial hall type buildings, mostly in buildings where horizontal or diagonal ceiling tracks cannot be used as they would otherwise interfere with indoor systems or gantry operation.

**Available dimensions for MakroPro 2.0 doors with VL tracks**

Opening height (H <sub>o</sub> ) in [mm] up to	Opening width (S <sub>o</sub> ) in [mm] up to																								
	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000	6250	6500	6750	7000	7250	7500	7750	8000
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$N_{min} = H_o + 650$



**New STLK standard track at an angle**

Tracks for buildings with a sloped ceiling. The tracks run directly under the roof, thanks to which the space inside can be used to its maximum potential.

Track system for the lintel:

- N<sub>min</sub> = 435 [mm] for 5, 10, 15 degree angles
- N<sub>min</sub> = 510 [mm] for 20, 25, 30, 35 degree angles
- N<sub>min</sub> = 510 [mm] for 40, 45 degree angles - on request
- N<sub>min</sub> = 555 [mm] for 50, 55, 60 degree angles

**Dimensional range for the MakroPro 2.0 doors with STLK tracks for the angle range of 5,10,15, 20, 25, 30, 35 degrees**

Opening height (H <sub>o</sub> ) in [mm] up to	Opening width (S <sub>o</sub> ) in [mm] up to																				
	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000	6250	6500	6750	7000
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**Dimensional range for the MakroPro 2.0 doors with STLK tracks for the angle range of 50,55,60 degrees**

Opening height (H <sub>o</sub> ) in [mm] up to	Opening width (S <sub>o</sub> ) in [mm] up to																				
	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000	6250	6500	6750	7000
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**HLK high track at an angle**

Tracks for buildings with a sloped ceiling. The tracks run directly under the roof, thanks to which the space inside can be used to its maximum potential.

Track system for the lintel:

$N_{min} = 435$  [mm] for 5, 10, 15, 20, 25, 30, 35, 50, 55, 60 degree angles

$N_{min} = 435$  [mm] for 40, 45 degree angles - on request

**Dimensional range and maximum lintel for the MakroPro 2.0 doors with HLK tracks for the angle range of 5, 10, 15, 20, 25, 30, 35 degrees**

Opening height (H <sub>o</sub> ) in [mm] up to	Opening width (S <sub>o</sub> ) in [mm] up to																				
	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000	6250	6500	6750	7000
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**Dimensional range for the MakroPro 2.0 doors with HLK tracks for the angle range of 50, 55, 60 degrees**

Opening height (H <sub>o</sub> ) in [mm] up to	Opening width (S <sub>o</sub> ) in [mm] up to																				
	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000	6250	6500	6750	7000
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**LHK low track at an angle**

Low track at an angle. Tracks for buildings with a sloped ceiling. The tracks run directly under the roof, thanks to which the space inside can be used to its maximum potential. Torsion springs at the end of the guides.  
 $N_{min} = 210$  [mm] for 5, 10, 15 degree angles

Dimensional range for the MakroPro 2.0 doors with LHK

Opening height (H <sub>o</sub> ) in [mm] up to	Opening width (S <sub>o</sub> ) in [mm] up to												
	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000
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## OPTIONAL ACCESSORIES

### WICKET DOOR

- The maximum dimensions of the sectional door in which a wicket door can be fitted are  $S_o \times H_o \leq 5,500 \times 6,000$  [mm].
- Minimum dimensions for sectional door where wicket door can be fitted are  $2,000 \times 2,100$  [mm] ( $S_o \times H_o$ ).
- Standard entrance clear opening width is 800 [mm], entrance clear opening height can range from 1,800 [mm] to 1,980 [mm] depending on the sectional door height and the panels used.
- The maximum entrance clear opening dimensions are  $900 \times 2,000$  [mm].
- Doors fitted with wicket door and an electric drive unit also feature the wicket door opening sensor.
- Doors are left-hand or right-hand outswing.
- Door hardware comes in natural aluminium colour by default. Optionally, hardware can come in any colour you choose.
- The wicket door is installed in the centre of the door leaf width by default. The wicket door can be moved in relation to the sectional door centre.
- Sectional doors are fitted with a wicket door opening limiter. It allows the wicket door to be opened at a 105 degree angle.
- Optionally, the wicket door can be fitted with an additional lock, door closer, electric lock with a wireless code keypad, class C lock cylinder or an anti-panic lock.

#### Wicket door



**By default, the door** features a ~100 [mm] threshold (including the gasket ~40 [mm]). Optionally, a low threshold 30 [mm] with a gasket can be ordered. Available with gates  $S_o \times H_o \leq 5,500 \times 6,000$  [mm]

#### Low threshold in wicket door



**Low threshold** is made of an aluminium section 30 mm high and minimizes obstacles in the passageway. Available with gates  $S_o \times H_o \leq 4,500 \times 6,000$  [mm]

### WINDOWS



**Type B-3 oval** – made of double, clear acrylic glass, smooth frame surface. Black external and internal frame. Internal/external frame made of ABS. External dimensions of the frame 667 x 347 [mm]. Light transmission 86%.



**Type A-1** – made of double, clear acrylic glass; rough frame surface. The external frame is available in RAL 7016, RAL 8003, RAL 8011, RAL 8014, RAL 8016, RAL 9005, RAL 9016. The internal frame is always white. Internal/external frame made of PVC. External dimensions of the frame 600 x 270 [mm]. Light transmission 86%.



**Type B-1** – made of double, clear acrylic glass. Black external and internal frame. Internal/external frame made of ABS. External dimensions of the frame 610 x 200 [mm]. Light transmission 86%.



### GLAZED PANELS



MakroPro doors can be glazed up to 50% of the aluminium panel with glazing bars in relation to the total number of panels. The panel is painted on both sides in the external door colour. Available with doors  $S_o \leq 7,000$  [mm], and  $H_o \leq 5,500$  [mm] with glazing units: No-SCRATCH, "R", Satin, and Grey.

### GLAZED PANEL



Aluminium panel with a clear acrylic glass without glazing bars – VISUAL. The panel is painted on both sides in the external door colour. Available with MakroPro doors  $S_o \leq 4,000$  [mm], and  $H_o \leq 4,000$  [mm] with glazing units: No-SCRATCH, "R", Satin, and Grey for  $S_o \leq 3,000$  [mm].

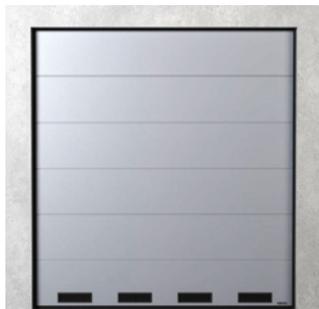
### VENTILATED PANEL



Aluminium panel infilled with a single layer of galvanized expanded steel mesh or double layer of galvanized perforated steel sheet. The panel is painted on both sides in the external door colour. The air flow for the expanded mesh panel is 7,504 [m<sup>3</sup>/h] per 1 [m<sup>2</sup>] of mesh surface area in accordance with PN-EN 12427 (~70 % panel surface area). The air flow for the panel with double perforated sheet is 3,051 [m<sup>3</sup>/h] per 1 [m<sup>2</sup>] of perforated sheet in accordance with PN-EN 12427 (~70% panel surface area).

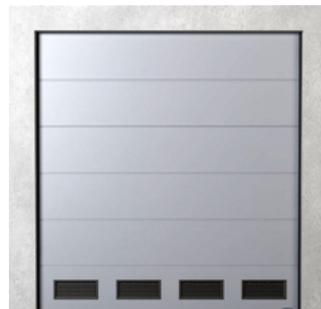
### VENTILATION GRILLES

#### Ventilation grille K-1



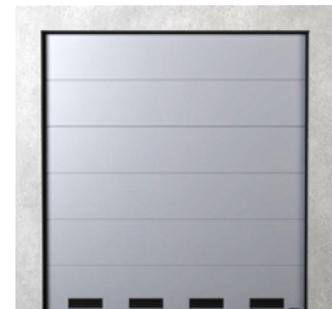
Dimensions 426 x 89 [mm] (clear dimensions). Air flow for grille type "K-1": 464 [m<sup>3</sup>/h] in accordance with PN-EN 12427. Actual ventilation area - 0.02 [m<sup>2</sup>].

#### Ventilation grille K-2



Dimensions 525 x 195 [mm] (clear dimensions). Air flow for grille "K-2": 746 [m<sup>3</sup>/h] in accordance with PN-EN 12427. Actual ventilation area - 0.05 [m<sup>2</sup>].

#### Ventilation grille K-3



Dimensions 308 x 103 [mm] (clear dimensions). Grille with a double mosquito screen and air flow adjustment. Air flow: 159 [m<sup>3</sup>/h] in accordance with PN-EN 12427. Actual ventilation area - 0.015 [m<sup>2</sup>].

### GLASS PANES

Intended use: for double glazing of glazed aluminium panels and VISUAL glazing.

#### No-Scratch



Glass pane with a special coating improving its strength, very good resistance to scratching and sunlight compared with standard glass.

#### Satin



Opaque glass pane. Double glazed pane opaque from the outside and clear from the inside. Light transmission 78%.

#### Glass pane R



Opaque (or frosted) double glazed pane clear from the inside. Light transmission (77-79%).

#### Grey



Clear glass with a slight brown hue. Double glazed pane clear from the inside, non-coloured from the inside. Light transmission (51%).



## EXAMPLE MAKROPRO 2.0 DOOR DESIGNS



Door with window A-1



Door with window B-2



Door with window A-1 (two panels)



Door with window B-2 (two panels)



Door with a glazed panel



Door with a glazed panel (two panels)



Door with a glazed Visual panel



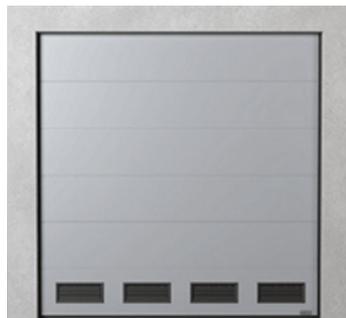
Door with wicket door (central position)



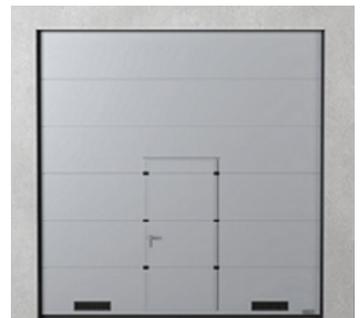
Door with wicket door (side position)



Door with ventilation grilles K-1



Door with ventilation grilles K-2



Door with wicket door (central position) and ventilation grilles K-1



Door with wicket door (central position) and windows A-1



Door with wicket door (central position) and windows A-2



Door with a ventilated panel (expanded mesh)

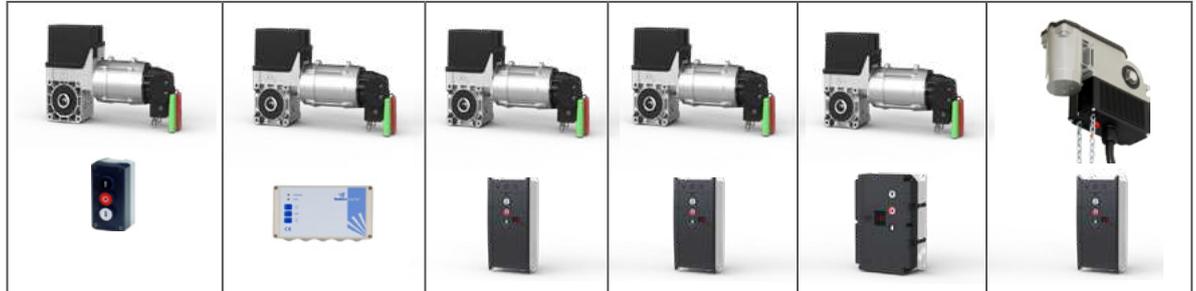


Door with a ventilated panel (double perforated sheet)



## AUTOMATIC OPERATING UNIT KITS

The top-quality GfA automatic operating units available with WISNIOWSKI doors ensure reliable operation, the highest comfort of use, and many years of usage.



Technical data	Totmann 230	Automatik 230	Totmann	Automatik	Automatik S	Automatik FU
Mains	1 x 230 [V]; 50-60 [Hz]	1 x 230 [V]; 50-60 [Hz]	3 x 400 [V]; 50-60 [Hz]	3 x 400 [V]; 50-60 [Hz]	3 x 400 [V]; 50-60 [Hz]	1 x 230 [V] or 3 x 400 [V]; 50-60 [Hz]
Motor supply	1 x 230 [V]; 50 [Hz]	1 x 230 [V]; 50 [Hz]	3 x 400 [V]; 50 [Hz]	3 x 400 [V]; 50 [Hz]	3 x 400 [V]; 50 [Hz]	3 x 400 [V]; 50 [Hz]
Limit switch	Mechanical, available from drive unit level	Mechanical, available from drive unit level	Electronic, available from operator level			
Central control unit	Integrated with the drive unit	T 720; separate	TS 959; separate	TS 970; separate	TS 981; separate	TS 970, TS 971 or TS 981; separate
Display	no	no	yes	yes	yes	yes
Emergency opening	yes	yes	yes	yes	yes	yes
Rotational speed	24 [RPM]; fixed	24 [RPM]; fixed	24 [RPM] <sup>(1)</sup> ; fixed	24 [RPM] <sup>(1)</sup> ; fixed	24 [RPM] <sup>(1)</sup> ; fixed	10-80 [RPM] <sup>(2)</sup> ; adjustable
Motor power	0.37 [kW]	0.37 [kW]	0.3-0.45 [kW]	0.3-0.45 [kW]	0.3-0.45 [kW]	0.4-0.85 [kW]
Rated current	3.5 [A]	3.5 [A]	1.1-2.5 [A] <sup>(3)</sup>	1.1-2.5 [A] <sup>(3)</sup>	1.1-2.5 [A] <sup>(3)</sup>	8 [A]

Functionality	Totmann 230	Automatik 230	Totmann	Automatik	Automatik S	Automatik FU
Quick programming	yes	yes	yes	yes	yes	yes
Obstacle detection	no	yes; safety edge	no	yes; safety edge	yes; safety edge	yes; safety edge
Automatic closing	no	yes; 10 [s] or 30 [s] or 90 [s]	no	yes; from 1÷240 [s]	yes; from 1÷240 [s]	yes; from 1÷240 [s]
Release in end position	no	no	no	no	no	yes
RWA - heat and smoke extraction	no	no	no	no	yes	no
Traffic control	no	no	no	no	yes	yes
Exterior lighting control	no	no	yes	yes	yes	yes
Partial opening of the door	no	no	no	yes	yes	yes
Cycle counter	no	no	yes	yes	yes	yes
Recent fault logging	no	no	yes	yes	yes	yes

Expandability	Totmann 230	Automatik 230	Totmann	Automatik	Automatik S	Automatik FU
Signal light	no	yes	no	yes	yes	yes
Red/green signal light	no	no	no	yes	yes	yes
Compatible with photocells	no	yes	no	yes	yes	yes
ER quick uncoupling of the drive	no	no	no	yes <sup>(4)</sup>	yes <sup>(4)</sup>	no
Drive unit in the IP65 version	no	no	no	yes	yes	yes
TS 971 controller	no	no	no	yes	yes	yes
WSD module	no	no	no	yes <sup>(5)</sup>	yes <sup>(5)</sup>	yes <sup>(5)</sup>
Safety barrier	no	yes	no	yes	yes	yes
Exterior lighting control	no	no	no	yes	yes	yes
Motion sensor	no	no	no	yes	yes	yes
Induction loop detector	no	no	no	yes	yes	yes
Safety photocells	no	no	no	yes	yes	yes
Acoustic signal	no	no	no	yes	yes	yes

<sup>(1)</sup> - applies to the SE 9.24 drive unit, <sup>(2)</sup> - applies to the SE 14.80 drive unit, <sup>(3)</sup> - depends on the drive type, <sup>(4)</sup> - applies to the SE 9.24 drive unit, <sup>(5)</sup> - only available with the TS 971 controller.



## OPTIONAL ACCESSORIES

### CODE KEYPAD



Operates the door after an individual access code is provided. Can be installed indoors or outdoors.

### PROXIMITY CARD READER



Can be controlled with proximity cards or fobs. Just place the card/fob against the reader to operate the door drive.

### WARNING LAMP



Warning function. Orange blinking light indicates that the door is operating.

### SIGNAL LIGHTS



Facilitates traffic management around the door. Set includes two lights: green and red indicating that the door is open or closed.

### EXTERNAL KEY SWITCH



The switch requires a key for the door to operate. Recommended where access must always be controlled.

### MICROWAVE MOTION SENSOR



The sensor automatically opens the door when a vehicle or a person is in front of the entrance.

### ACOUSTIC SIGNAL



Warning function. Acoustic signals indicate when the door operates.

### TRANSMITTER



Works with the radio receiver and controls the drive unit through radio waves. One remote control can operate four individual doors.

### PHOTOCELLS



If an obstacle appears in the clear passage, the infrared beam is interrupted, the door stops and returns to the open position.

### PULL SWITCH



Sequential door control without using a transmitter.

### SAFETY BARRIER



Secures clear passage in case of accidental door curtain movement.

### SAFETY PHOTOCELLS



Optical protection of the edge of the closing door. Installed with doors with a low threshold.



## SECTIONAL DOOR



MakroPro Alu 2.0 door



MakroPro 2.0 door



## TECHNICAL DATA

	MakroPro 2.0
Curtain	Panel made of galvanized steel sheet with two-side polyester coating, galvanized and painted on both sides, infilled with high density PU foam $\rho=42 \text{ kg/m}^3$ without HCFC
Minimum number of cycles	25,000
Heat transfer coefficient U panel [ $\text{W/m}^2\text{K}$ ]	0,48
Watertightness (class)	2
Wind load resistance class	3
Air permeability class	4
Reaction to fire NFP	Fire properties B Smoke production s2 Flaming droplets d0
Acoustic absorption coefficient $R_w$ [dB] without wicket door / with wicket door	23 / 24
Drive type / power supply type	GfA SE series 1 x 230 V / 3 x 400 V
Safeguards	Special shape of the panel prevents crushing of fingers, safeguards against breaking of load-bearing cables, safeguard against breaking of springs (on each spring), wicket door sensor – used in doors with an electric drive and wicket door, lock/latch opening sensor, safety edge (in doors with electric drive type Automatik) Options: photocells, light barrier, safeguard against prising, Double track profiling prevents guiding rollers from derailing.
Optional accessories	Various types of tracks, electric drive, chain hoist, rope hoist, ventilated panel, aluminium panel glazing, VISUAL glazing without glazing bars, windows, glass panes: No-Scratch, GREY, SATIN, SAN R, ventilation grilles, wicket door (low threshold wicket door), anti-panic lock, additional lock, springs 50,000 cycles, 100,000 cycles, fume extractor, steel fascia, aluminium fascia, handle for lead sealing of the door/wicket door, photocells, leading photocells, light barrier, code keypad, motion sensor, signal light, LED signal light (red-green), transmitter, acoustic signal, magnetic card reader, pull switch, safety edge wireless transmission system, drive for continuous operation.
Maximum width / height of the door [mm]	8,000 / 7,500
Available panel rib designs	low ribs, high ribs, V, without ribs
Available panel structures	woodgrain, smoothgrain, sandgrain, silkline
Standard RAL colours	RAL 1021, RAL 3000, RAL 5010, RAL 6002, RAL 7016, RAL 7032, RAL 8014, RAL 9006, RAL 9007, RAL 9016
Custom colours:	other RAL colours, special colours, including wood imitating colours, (film coated panels)
Track type	STL, LH, HL, VL, LHp, STLK, HLK, LHK

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