INDUSTRIAL DOORS



WIŚNIOWSKI
GATES | WINDOWS | DOORS | FENCES

SECTIONAL DOORS
MakroPro ALU 2.0 ISO
aluminium garage door with a thermal break

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 aluminium panels with a thermal break with a steel bottom panel (standard). 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.

MAXIMUM AMOUNT OF LIGHT

Glazed panels of WIŚNIOWSKI's industrial doors brighten up the room with natural light to save energy and provide comfortable working conditions. The glazing of sectional doors is proportional to the door size, while the equally spaced glazing bars ensure harmonious appearance of the door.

SAFETY

The safety systems foremostly consist in minimizing all traces of risk. Regardless of the method of the WIŚNIOWSKI 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, WIŚNIOWSKI 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, WIŚNIOWSKI 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.

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, WIŚNIOWSKI industrial doors can be easily matched with the building's façade. WIŚNIOWSKI 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.

Automatic operating units
Proven and reliable automatic operating units by GfA ELEKTROMATEN

Springs
Torsion springs are made using the shot peening technology that increases their life. The guaranteed minimum number of cycles: 25,000.

Safeguard
Each spring is fitted with a safeguard against the effects of the spring breaking.

Tracks and opening frames
Made of galvanized sheet 2 [mm] thick provide a solid and durable structure.

Emergency opening
Enables opening the door in case of a power outage (using the chain hoist).



Track joining
Tracks and opening frames are joined with screws which increases adjustability.

The U heat transfer coefficient for the **MakroPro ALU 2.0 ISO** door is lower on average by MakroPro ALU 2.0 is lower on average **by 23%**.



Safety solution for tracks
Double safety solution for tracks preventing guiding rollers from derailing.

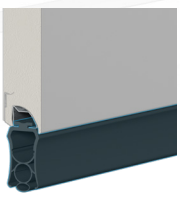


Plastic end caps
An attractive finish for the floor-mounted gate guide assembly. In addition to its aesthetic benefits, the use of plastic foot increases the corrosion resistance of the door frames and guides and helps keep the area around the floor tidy.

Cable safeguard
Safeguard counteracting the effects of the break of load bearing cables with length adjustment from the floor level. This type of brake shortens the time required for levelling the door during service works. Due to safety considerations, the moving part is located under a plastic cover.

Safeguard
T he safeguard that prevents prising of the door is a simple method that prevents the door from being opened from the outside.

Bottom gasket
High-quality EPDM gaskets perfectly adapt to the surface.



THERMOSET ™ PACKAGE AS STANDARD:

Corner gasket
Corner gasket maximum sealing of the corner of the door.



Double-lip top gasket
The warm, elongated, two-lip gasket ensures double sealing in the top section of the door.



Double-lip side gasket
The warm, three-chamber, two-lip, hard and soft side gasket is the most efficient solution for eliminating thermal bridges, while at the same time providing a safe distance between the lintel and the door curtain.



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 **we use the reinforcement system integrated with the panel, as well as aluminium glazing strips to further increase the strength**. The top section is fitted with a lip gasket. Painted panels are coated on both sides in one colour.



Aluminium panel
with a double glass



Aluminium panel
with a double glass and
an Omega einforcement

STANDARD COLOURS

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



WIŚNIOWSKI 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

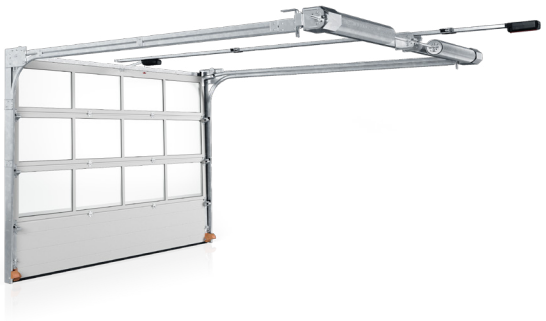
STL – Standard tracks.
Track system for buildings with a typical lintel Nmin = 435, 520 [mm].
For buildings where horizontal ceiling tracks can be used.



Dimensional range for MakroPro ALU 2.0 ISO doors with STL tracks

Opening height (Ho) in [mm] up to	**Opening width** (So) in [mm] up to																		
	1,500	1,750	2,000	2,250	2,500	2,750	3,000	3,250	3,500	3,750	4,000	4,250	4,500	4,750	5,000	5,250	5,500	5,750	6,000
2,000																			
2,125																			
2,250																			
2,375																			
2,500																			
2,625																			
2,750																			
2,875																			
3,000																			
3,125																			
3,250																			
3,375																			
3,500					**Nmin = 435 [mm]**											**Nmin = 520 [mm]**			
3,625																			
3,750																			
3,875																			
4,000																			
4,125																			
4,250																			
4,375																			
4,500																			
4,625																			
4,750																			
4,875																			
5,000																			

LrH – Low tracks – torsion springs at the back.
Track system for buildings with a low lintel Nmin = 150 [mm].
Frequently used in underground garages, indoor car parks or multiple bay car parks.



Dimensional range for MakroPro ALU 2.0 ISO doors with LrH tracks

Opening height (Ho) in [mm] up to	**Opening width** (So) in [mm] up to																
	1,500	1,750	2,000	2,250	2,500	2,750	3,000	3,250	3,500	3,750	4,000	4,250	4,500	4,750	5,000	5,250	5,500
2,000																	
2,125																	
2,250																	
2,375																	
2,500								**Nmin = 150 [mm]**									
2,625																	
2,750																	
2,875																	
3,000																	

LH – Low tracks – torsion springs at the back.
Track system for buildings with a low lintel Nmin = 220 [mm].
Frequently used in underground garages, indoor car parks or multiple bay car parks.



Dimensional range for MakroPro ALU 2.0 ISO doors with LH tracks

Opening height (Ho) in [mm] up to	**Opening width** (So) in [mm] up to																		
	1,500	1,750	2,000	2,250	2,500	2,750	3,000	3,250	3,500	3,750	4,000	4,250	4,500	4,750	5,000	5,250	5,500	5,750	6,000
2,000																			
2,250																			
2,500																			
2,750																			
3,000																			
3,250																			
3,500									**Nmin = 220 [mm]**										
3,750																			
4,000																			
4,250																			
4,500																			
4,750																			
5,000																			

LHp – Low tracks.
Track system for buildings with a low lintel Nmin = 280 [mm].
Frequently used in underground garages, indoor car parks or multiple bay car parks.



Dimensional range for MakroPro ALU 2.0 ISO doors with LHp tracks

Opening height (Ho) in [mm] up to	**Opening width** (So) in [mm] up to																		
	1,500	1,750	2,000	2,250	2,500	2,750	3,000	3,250	3,500	3,750	4,000	4,250	4,500	4,750	5,000	5,250	5,500	5,750	6,000
2,000																			
2,250																			
2,500																			
2,750																			
3,000																			
3,250																			
3,500									**Nmin = 280 [mm]**										
3,750																			
4,000																			
4,250																			
4,500																			
4,750																			
5,000																			



HL – High tracks.
Track system for buildings with a high lintel Nmin > 600 [mm].
Frequently used in industrial hall type buildings.

Dimensional range for MakroPro ALU 2.0 ISO doors with HL tracks

Opening height (Ho) in [mm] up to	**Opening width** (So) in [mm] up to																			
	1,200	1,500	1,750	2,000	2,250	2,500	2,750	3,000	3,250	3,500	3,750	4,000	4,250	4,500	4,750	5,000	5,250	5,500	5,750	6,000
2,000																				
2,125																				
2,250																				
2,375																				
2,500																				
2,625																				
2,750																				
2,875																				
3,000																				
3,125																				
3,250																				
3,375																				
3,500																				
3,625									**Nmin > 600 [mm]**											
3,750																				
3,875																				
4,000																				
4,125																				
4,250																				
4,375																				
4,500																				
4,625																				
4,750																				
4,875																				
5,000																				



HLO – High tracks with a lowered shaft.
With the shaft located by the lintel, access for servicing and maintenance works is facilitated and makes the process of installation easier Nmin = 1,700 [mm].

Dimensional range for MakroPro ALU 2.0 ISO doors with HLO tracks

Opening height (Ho) in [mm] up to	**Opening width** (So) in [mm] up to															
	1,200	1,500	1,750	2,000	2,250	2,500	2,750	3,000	3,250	3,500	3,750	4,000	4,250	4,500	4,750	5,000
2,000																
2,125																
2,250																
2,375																
2,500																
2,625																
2,750																
2,875																
3,000																
3,125																
3,250																
3,375																
3,500																
3,625																
3,750																
3,875																
4,000																
4,125																
4,250																
4,375																
4,500																
4,625																
4,750																



HL 2x45 – high tracks 2x45°.
In this design, the conventional track arch with a 90° angle is replaced with the double 2x45° profile solution. Because of the offset, these tracks make it possible to install the door in areas with various obstacles, e.g. structural elements of the building, vent ducts, water pipes or electrical conduits.

Dimensional range for MakroPro ALU 2.0 ISO doors with HL 2x45 tracks

Opening height (Ho) in [mm] up to	**Opening width** (So) in [mm] up to																		
	1,500	1,750	2,000	2,250	2,500	2,750	3,000	3,250	3,500	3,750	4,000	4,250	4,500	4,750	5,000	5,250	5,500	5,750	6,000
2,000																			
2,125																			
2,250																			
2,375																			
2,500																			
2,625																			
2,750																			
2,875																			
3,000																			
3,125																			
3,250																			
3,375																			
3,500																			
3,625																			
3,750																			
3,875																			
4,000																			
4,125																			
4,250																			
4,375																			
4,500																			
4,625																			
4,750																			
4,875																			
5,000																			



VL – Vertical tracks.
Track system for buildings with a very high lintel Nmin = Ho + 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.

Dimensional range for MakroPro ALU 2.0 ISO doors with VL tracks

Opening height (Ho) in [mm] up to	**Opening width** (So) in [mm] up to																
	2,000	2,250	2,500	2,750	3,000	3,250	3,500	3,750	4,000	4,250	4,500	4,750	5,000	5,250	5,500	5,750	6,000
2,000																	
2,125																	
2,250																	
2,375																	
2,500																	
2,625																	
2,750																	
2,875																	
3,000																	
3,125																	
3,250																	
3,375																	
3,500								**Nmin = Ho + 650 [mm]**									
3,625																	
3,750																	
3,875																	
4,000																	
4,125																	
4,250																	
4,375																	
4,500																	
4,625																	
4,750																	
4,875																	
5,000																	



VLO – Vertical tracks with a lowered shaft.
With the shaft located by the lintel, access for servicing and maintenance works is facilitated and makes the process of installation easier Nmin = Ho + 370 [mm].

Dimensional range for MakroPro ALU 2.0 ISO doors with VLO tracks

Opening height (Ho) in [mm] up to	**Opening width** (So) in [mm] up to															
	1,200	1,500	1,750	2,000	2,250	2,500	2,750	3,000	3,250	3,500	3,750	4,000	4,250	4,500	4,750	5,000
2,000																
2,125																
2,250																
2,375																
2,500																
2,625																
2,750																
2,875																
3,000								**Nmin = Ho + 370 [mm]**								
3,125																
3,250																
3,375																
3,500																
3,625																
3,750																
3,875																
4,000																
4,125																
4,250																
4,375																
4,500																
4,625																
4,750																
4,875																
5,000																



STLK – Standard tracks 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:
Nmin = 435 [mm] for 5, 10, 15 degree angles,
Nmin = 510 [mm] for 20, 25, 30, 35 degree angles,
Nmin = 510 [mm] for 40, 45 degree angles – on request,
Nmin = 555 [mm] for 50, 55, 60 degree angles.

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

Opening height (Ho) in [mm] up to	**Opening width** (So) in [mm] up to																		
	1,500	1,750	2,000	2,250	2,500	2,750	3,000	3,250	3,500	3,750	4,000	4,250	4,500	4,750	5,000	5,250	5,500	5,750	6,000
2,000																			
2,125																			
2,250																			
2,375																			
2,500																			
2,625																			
2,750																			
2,875																			
3,000																			
3,125																			
3,250																			
3,375																			
3,500																			
3,625																			
3,750																			
3,875																			
4,000																			
4,125																			
4,250																			
4,375																			
4,500																			
4,625																			

Dimensional range for MakroPro ALU 2.0 ISO doors with STLK tracks for the angle range of 50, 55, 60 degrees

Opening height (Ho) in [mm] up to	**Opening width** (So) in [mm] up to																
	2,000	2,250	2,500	2,750	3,000	3,250	3,500	3,750	4,000	4,250	4,500	4,750	5,000	5,250	5,500	5,750	6,000
2,000																	
2,250																	
2,500																	
2,750																	
3,000																	
3,250																	
3,500																	
3,750																	
4,000																	
4,250																	
4,500																	
4,750																	
5,000																	



HLK – High tracks 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:
Nmin = 435 [mm] for 5, 10, 15, 20, 25, 30, 35, 50, 55, 60 degree angles,
Nmin = 435 [mm] for 40, 45 degree angles – on request.

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

Opening height (Ho) in [mm] up to	**Opening width** (So) in [mm] up to																		
	1,500	1,750	2,000	2,250	2,500	2,750	3,000	3,250	3,500	3,750	4,000	4,250	4,500	4,750	5,000	5,250	5,500	5,750	6,000
2,000																			
2,125																			
2,250																			
2,375																			
2,500																			
2,625																			
2,750																			
2,875																			
3,000																			
3,125																			
3,250																			
3,375																			
3,500																			
3,625																			
3,750																			
3,875																			
4,000																			
4,125																			
4,250																			
4,375																			
4,500																			
4,625																			

Dimensional range for MakroPro ALU 2.0 ISO doors with HLK tracks for the angle range of 50, 55, 60 degrees

Opening height (Ho) in [mm] up to	**Opening width** (So) in [mm] up to																			
	1,200	1,500	1,750	2,000	2,250	2,500	2,750	3,000	3,250	3,500	3,750	4,000	4,250	4,500	4,750	5,000	5,250	5,500	5,750	6,000
2,000																				
2,125																				
2,250																				
2,375																				
2,500																				
2,625																				
2,750																				
2,875																				
3,000																				
3,125																				
3,250																				
3,375																				
3,500																				
3,625																				
3,750																				
3,875																				
4,000																				
4,125																				
4,250																				
4,375																				
4,500																				
4,625																				
4,750																				
4,875																				
5,000																				

LHK – Low tracks 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. Nmin = 210 [mm] for 5, 10, 15 degree angles.



Dimensional range for MakroPro ALU 2.0 ISO doors with LHK tracks for the angle range of 5, 10, 15 degrees

Opening height (Ho) in [mm] up to	**Opening width** (So) in [mm] up to												
	2,000	2,250	2,500	2,750	3,000	3,250	3,500	3,750	4,000	4,250	4,500	4,750	5,000
2,000													
2,125													
2,250													
2,375													
2,500													
2,625													
2,750													
2,875													
3,000													
3,125													
3,250													
3,375													
3,500													
3,625													
3,750													
3,875													
4,000													
4,125													
4,250													
4,375													
4,500													
4,625													

OPTIONAL ACCESSORIES

GLASS PANES

Intended use: for double glazing of glazed aluminium panels.



No-Scratch
Glass pane with a special coating improving its strength, very good resistance to scratching and sunlight compared with standard glass.



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



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

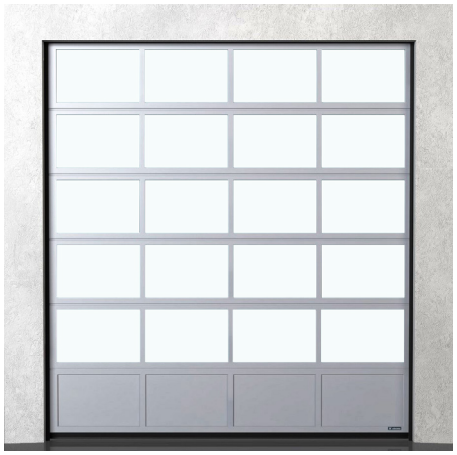


Glass pane GREY
Clear glass with a slight brown hue. Double glazed pane clear from the inside, non-coloured from the inside. Light transmission (51%).

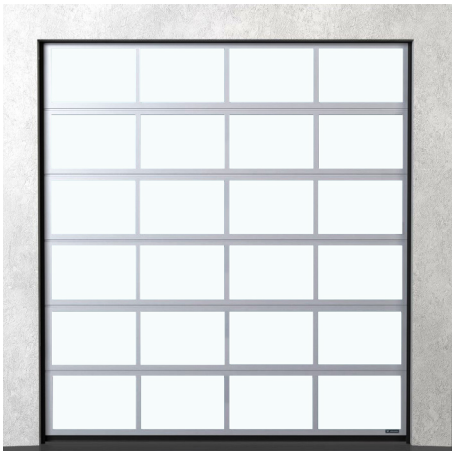
EXAMPLE MakroPro ALU 2.0 ISO DOOR DESIGNS



Door with a bottom steel panel.



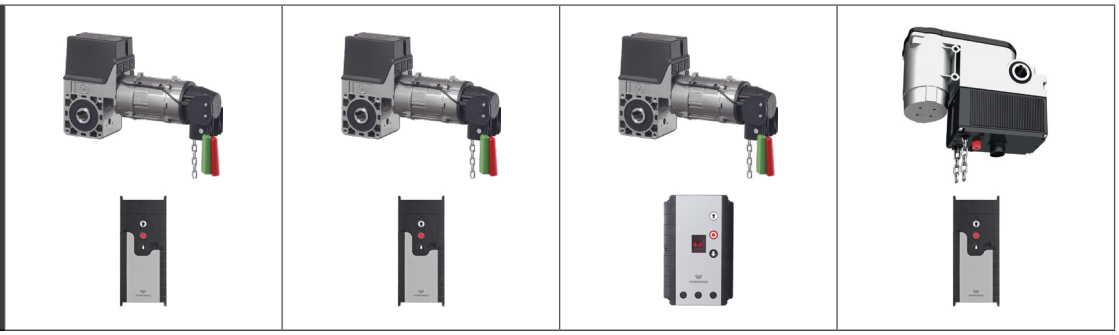
Door with a bottom metal sheet – expanded polystyrene – metal sheet panel.



Door with glazed panels only.

AUTOMATIC OPERATING UNIT KITS

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

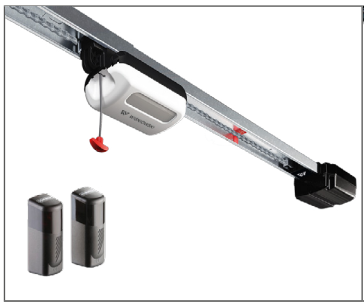


Technical data	Totmann	Automatik	Automatik S	Automatik FU
Mains	3x400 [V]; 50–60 [Hz]	3x400 [V]; 50–60 [Hz]	3x400 [V]; 50–60 [Hz]	1x230 [V] lub 3x400 [V]; 50–60 [Hz]
Motor supply	3x400 [V]; 50 [Hz]	3x400 [V]; 50 [Hz]	3x400 [V]; 50 [Hz]	3x400 [V]; 50 [Hz]
Limit switch	Electronic, available from operator level	Electronic, available from operator level	Electronic, available from operator level	Electronic, available from operator level
Central control unit	TS 959; separate	TS 970; separate	TS 981; separate	TS 970, TS 971 or TS 981; separate
Display	yes	yes	yes	yes
Emergency opening	yes	yes	yes	yes
Rotational speed	24 [RPM] (1); fixed	24 [RPM] (1); fixed	24 [RPM] (1); fixed	12 – 60 [RPM] (2); adjustable
Motor power	0.3 – 0.45 [kW] (3)	0.3 – 0.45 [kW] (3)	0.3 – 0.45 [kW] (3)	0.4 – 0.85 [kW] (3)
Rated current	1.1 – 2.5 [A] (3)	1.1 – 2.5 [A] (3)	1.1 – 2.5 [A] (3)	6.6 – 7.35 [A] (3)

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

Expandability	Totmann	Automatik	Automatik S	Automatik FU
Signal light	yes	yes	yes	yes
LED signal lights (red – green)	no	yes	yes	yes
Compatible with photocells	no	yes	yes	yes
ER quick uncoupling of the drive	no	yes (4)	yes (4)	no
Drive unit in the IP65 version	no	yes	yes	yes
TS 971 controller	no	yes	no	yes
WSD module – wireless signal transmission from the optical strip	no	yes (5)	no	yes (5)
Safety barrier	no	yes	yes	yes
Exterior lighting control	yes	yes	yes	yes
Motion sensor	no	yes	yes	yes
Induction loop detector	no	yes	yes	yes
Safety photocells	no	yes	yes	yes
Acoustic signal	no	yes	yes	yes

(1) – applies to the SE 5.24 and SE 9.24 drive unit, (2) – applies to the SE 8.60 FU drive unit, (3) – depends on the drive type, (4) – applies to the SE 9.24 drive unit, (5) – only available with the TS 971 controller.







Technical data	Sommer S9110 base+	Sommer S9110 tiga+	BFT Argo
Power supply / Motor	230 [V], 50-60 [Hz] / 24 [V] DC	230 [V], 50-60 [Hz] / 24 [V] DC	230 [V], 50-60 [Hz] / 24 [V] DC
Force	1100 [N] / —	1100 [N] / —	— / 55 [Nm]
Efficiency	20	20	10
Number of parking spaces	max. 30 spaces	max. 30 spaces	—
Single-piece track	yes – steel, 3-element	yes – steel, 3-element	—
Transmission	carriage with a fixed chain	carriage with a fixed chain	gear
Gate opening speed	18	18	10
Central control unit	mounted at the end of the track	in bulk, wall mounted	built-in, installed on the shaft
Radio receiver	SOMMER, built-in – 868 MHz	SOMMER, built-in – 868 MHz	BFT, built-in – 433 MHz
Radio receiver storage	40 transmitters	40 transmitters	63 transmitters
Auto selection of operating parameters	yes	yes	yes
Limit switches	encoder + mechanical bumper	encoder + mechanical bumper	encoder
Emergency uncoupling	yes	yes	yes
Application	sectional	sectional	sectional
Dynamic shutting (up and over doors)	no	no	no
Rotating automatic operating unit head	no	no	no
Warranty	2 years	2 years	2 years
Functionality			
Obstacle detection	yes	yes	yes
Obstacle detection adjustment	no	no	yes
Action following obstacle detection	stop or partial opening	stop or partial opening	stop or partial opening
Automatic closing	yes	yes – forced mode, 30 seconds	yes
Release in end position	yes	yes	yes
Additional lighting	yes	yes	yes
Independent additional lighting control	no	no	no
Delayed drive unit light switch off	yes / fixed – 60 seconds	yes, depending on the operating mode	yes
Display	no	no	yes
Partial opening of the door – slightly open	yes	yes	yes
Cycle counter	no	no	yes
Ventilation system	no	yes	no
Traffic control	no	yes / forced feature	no



WIŚNIOWSKI **CONNECTED**

WIŚNIOWSKI Connected is a modern and free app that lets you control your doors remotely – no matter where you are. The app is available both for mobile devices (Android, iOS) and in a web version for desktop use at: https://smart.wisniowski.pl.



GATE CONTROLLER

Enables remote control of automatic operating units for garage doors and entrance gates, ensuring full control over access to the building. For proper operation, the device must be connected to a stable 2.4 GHz home Wi-Fi network. No additional gateways or access points are required. The device is available with a built-in antenna or with an external antenna recommended in locations with external interference. Device control is carried out via the WIŚNIOWSKI Connected app.

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.



LED 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 enables control of the drive unit via the WIŚNIOWSKI radio transmission. A single remote control can be used to open four different garage doors.



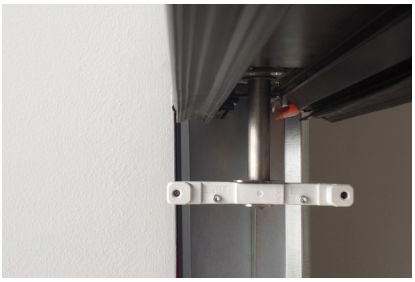
Photocells
If an obstacle appears in the clear passage, the infrared beam is interrupted, the door stops and returns to the open position.



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.

GALLERY



MakroPro ALU 2.0 ISO doors.



MakroPro ALU 2.0 ISO doors.



MakroPro ALU 2.0 ISO doors.



MakroPro ALU 2.0 ISO door (as seen from the inside).

TECHNICAL DATA

	MakroPro ALU 2.0 ISO
Curtain	Aluminium panels with a thermal break, infilled with a double acrylic glass, with powder coating on both sides. Aluminium glazing beads, painted in the door colour. Edges of glazing units with hygroscopic granular material. Bottom panel made of galvanized steel sheet with polyester coating on both sides, infilled with high density PU foam g=42 kg/m^3 without HCFC.
Minimum number of cycles	25,000
Example U heat transfer coefficient values U [W/m^{2}xK]	U=2,7 [W/m^{2}xK] for a garage door sized 2,250x3,250 [mm] U=2,6 [W/m^{2}xK] for a garage door sized 4,500x2,750 [mm] U=2,7 [W/m^{2}xK] for a garage door sized 4,500x4,000 [mm] U=2,7 [W/m^{2}xK] for a garage door sized 6,000x4,000 [mm]
Watertightness (class)	class 3 in accordance with 13241-1 section 4.4.2
Wind load resistance class	class 4 in accordance with 13241-1 section 4.4.3
Air permeability class	class 4 in accordance with PN-EN 13241-1 section 4.4.6
Acoustic absorption coefficient Rw [dB]	23 in accordance with PN-EN ISO 717-1: 1999
Drive type / power supply type	GfA series SE, BFT Argo, Sommer base+, tiga+ / 1x230 V / 3x400 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), 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, glass panes: No-Scratch, SAN R, SATIN, GREY, ventilation grilles, wicket door (low threshold wicket door), anti-panic lock, additional lock, springs 50,000 cycles, 100,000 cycles, steel fascia, aluminium fascia, 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]	6,000 / 5,000
Available panel rib designs	G – No ribs, W – High ribs, N – Low ribs, V – V 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
Track type	STL, LrH, LH, LHp, HL, HLO, HL 2x45, VL, VLO, STLK, HLK, LHK

WIŚNIOWSKI

WIŚNIOWSKI Sp. z o.o. S.K.A.
PL 33-311 Wielogłowy 153
Tel. +48 18 44 77 111

www.wisniowski.com

Let us inspire you!
See other solutions from WIŚNIOWSKI!

The products shown in the pictures often feature special accessories and do not always correspond to their standard versions • The technical data sheet does not constitute an offer within the meaning of the Polish Civil Code • The manufacturer reserves the right to introduce changes without notice • NOTE: The colours shown in the technical data sheet are for reference only • All rights reserved • Copying and use, in part or in full, is prohibited without the consent of WIŚNIOWSKI Sp. z o.o. S.K.A. • MakroPro ALU 2.0 ISO/06.26/EN.