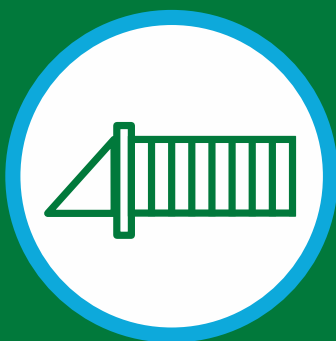




Sliding gates

inova[®] SilverLine

Designer sliding gate made of aluminium

INOVA SilverLine[®]

Security meets design

The INOVA SilverLine stands for modern sliding gate architecture made of aluminum. Straightforward, durable and high quality. Its clear design language and striking silver stripes make it a stylish statement at any driveway.

Inspiring technology

A powerful three-phase motor and uncompromising safety features with active safety edges and light barriers ensure reliable and safe gate operation in all weather conditions. An opening speed of approx. 25 cm/s ensures fast access and rapid re-securing of the premises.

Designed for decades

Premium-grade aluminum combined with an optional custom powder-coated finish guarantee lasting durability, regardless of heavy use or weather exposure.

Realise your Corporate Design

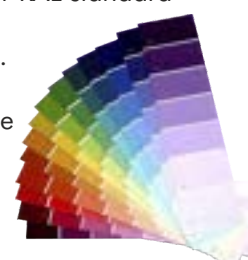
Whether color finish, passage width or safety features, every SilverLine sliding gate system can be precisely adapted to your corporate design and security concept. For over 50 years, market leaders in a wide range of industries have relied on the quality and reliability of INOVA sliding gates.



Colors

Thanks to our in-house powder coating facility, we can fulfill any requirement.

Powder coating in our RAL standard colors is included in the sliding gate price. On request, we are happy to manufacture your gate system in your desired colors.



INOVA SilverLine[®]

Customized sliding gates

We manufacture INOVA SilverLine sliding gates at our production site in Neuenkirchen, Münsterland, as modular, bolted aluminum constructions.



Highlights

- Aesthetic and modern design for a representative entrance
- Robust, cantilevered aluminum construction for driveways with normal traffic volumes
- Up to 13 m clear opening width, cantilevered without rails in the passage
- The INOVA drive system is integrated into the lower beam, protected from the weather and tampering
- Extensive basic equipment and versatile extra equipment options
- Immediate commissioning of the gate system thanks to completely pre-assembled delivery



Basic equipment

- Modular aluminum gate leaf with bar infill
- Maximum accident protection with 6 active safety edges and two light barriers
- Powerful drives up to 0.37 kW, integrated in the lower beam
- Anodized or powder-coated in standard RAL colors (6005, 7016, 7030, 9010)
- Short opening and closing times thanks to a standard high gate speed of approx. 25 cm/s

Additional equipment

- Serrated bar as additional anti-climb protection (from 1.8 m gate height)
- Induction loop for automatic opening of the exit
- Weekly timer for automatic opening and closing of the gate at specified times
- Flashing light or LED rotating beacon to signal gate movement
- Wear protection strip on the upper beam to protect the powder coating
- Fence connection and side door at gate height
- Virtually unlimited selection of special colors

Further equipment details can be found on pages 10/11.



Safety

INOVA gate systems stand for safety and quality: it goes without saying that they meet the requirements of the gate product standard DIN EN 13241. This is ensured by consistent compliance with standards, active contact strips, and light barriers with separate transmitter and receiver units.



The Gütegemeinschaft Metallzauntechnik e.V. (Quality Association for Metal Fence Technology) is a legally recognized association with the statutory purpose of ensuring the quality of services in fence installation and of all types of metal fences and site gates. The RAL quality mark "Metallzauntechnik" is a reliable guarantee of neutrally monitored, consistently high quality – from manufacture to installation.



INOVA SilverLine[®]

Power at its core: the INOVA[®] drive principle

How it works

The INOVA drive principle, patented and continuously developed since then, is characterised by a compact drive unit in the lower beam, which performs several functions at the same time: it supports the gate leaf and also drives it.

While conventional sliding gates require two separate bearings and usually an externally mounted drive unit, the INOVA system performs both a supporting and a drive function, saving space and ensuring that the construction remains particularly robust.

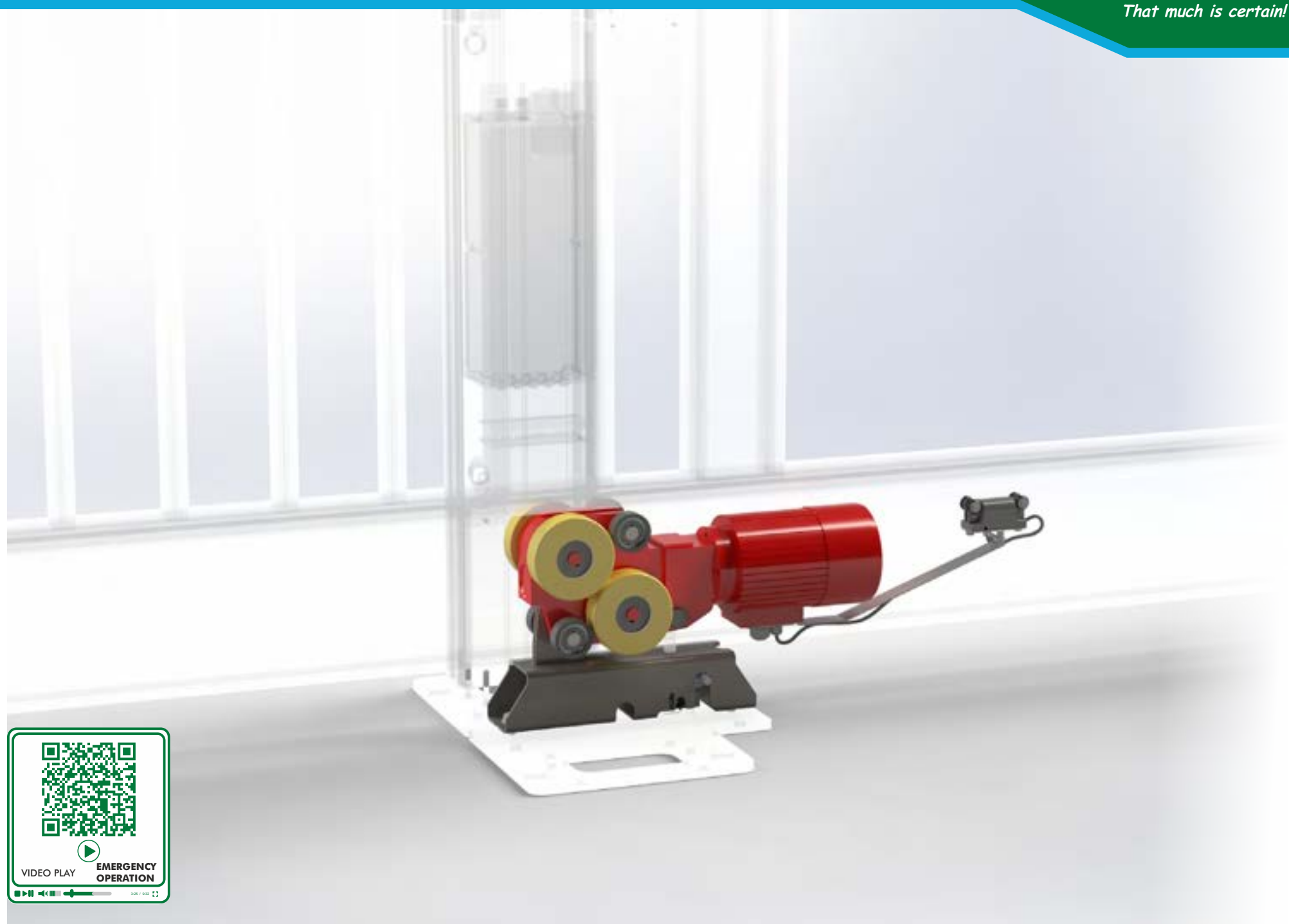
The drive unit is precisely tensioned via an actuator in the lower beam. Powerful drive wheels press against the top and bottom of the lower beam, while the powerful motor reliably moves the drive wheels and thus the gate leaf via a worm gear. In addition, the actuator allows the drive unit to be swiveled so that emergency operation is possible at any time. The result: a powerful, durable, and low-maintenance drive system that combines safety, efficiency, and design.

Advantages:

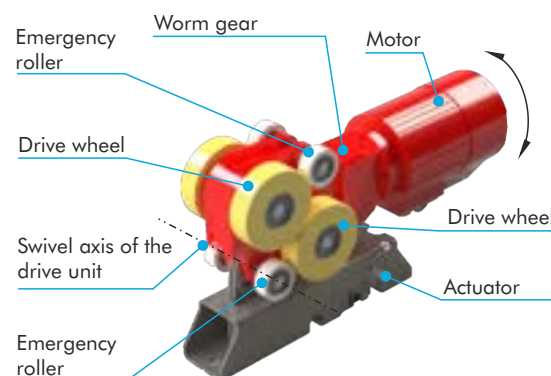
- **Extremely smooth running**
INOVA sliding gates impress with exceptionally smooth operation. This is made possible by the precise roller bearings of the plastic guide and support rollers. Openings and closings are virtually silent.
- **Guiding post**
The guiding post situated on the inner side of the property integrates the control electronics and protects them from the weather. The lockable door allows easy access for maintenance and adjustments.
- **Emergency operation**
In the event of a power failure, the drive can be quickly switched to manual operation so that the gate can be opened and closed manually without any problems.
- **Extremely fast opening/closing**
The fast opening and closing movement of the gate leaf means minimal waiting times when entering, and the property is reliably secured immediately after departure.

How to put INOVA sliding gates into emergency mode

See for yourself how an INOVA sliding gate can be put into emergency mode and moved manually in just a few simple steps – even without power.



INOVA[®] Drive unit 160 and 200



SilverLine 200	
Lower beam height	200 mm
Lower beam depth	176 mm
Clear opening width	up to 7.000 mm
Drive power	0,25 kW
SilverLine 240	
Lower beam height	240 mm
Lower beam depth	176 mm
Clear opening width	up to 9.000 mm
Drive power	0,37 kW

SilverLine 340	
Lower beam height	340 mm
Lower beam depth	176 mm
Clear opening width	up to 11.000 mm
Drive power	0,37 kW
SilverLine 440	
Lower beam height	440 mm
Lower beam depth	176 mm
Clear opening width	up to 13.000 mm
Drive power	0,37 kW

INOVAMATIC 400 S control

The INOVAMATIC 400 S is a microcontroller control system that has been specially developed for controlling private and commercial sliding gate systems. The INOVAMATIC 400 S is the basic control unit for INOVA sliding gates and impresses with its safety, flexibility, and ease of use.

Highlights:

- 2 light barrier evaluators & 2-channel evaluator for safety edges (8.2 kΩ)
- Expandable with plug-in cards (radio, induction system, timer, loop evaluator)
- Automatic safety check before each gate movement & double shut-off path
- Convenient parameterization via buttons & 2-digit 7-segment display
- LEDs on all inputs and outputs for quick diagnosis
- soft start

Advantages:

- ▶ High level of safety
- ▶ Modular expandability
- ▶ Easy operation and maintenance

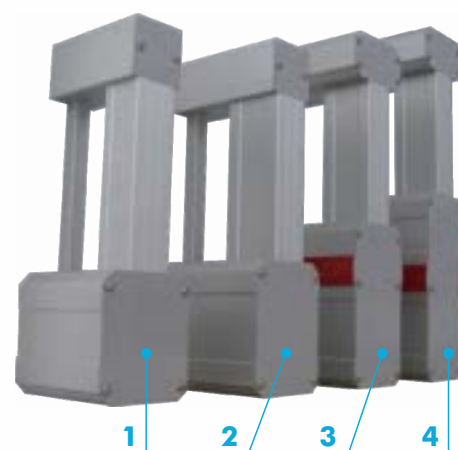


INOVA SilverLine[®]

Maximum flexibility thanks to innovative modular design

Our gate leaves are manufactured using a unique screw construction. The lower beam consists of modular profiles that can be combined. Depending on the height and clear opening of the gate, the profiles can be flexibly adapted to the static requirements.

This patented design principle allows for bottom beam variants ranging from 200 mm to 440 mm in height – for clear opening widths of up to 13 meters. The result: an economical solution that combines maximum stability with modern design.



Lower beam height (mm)

1	2	3	4
200	240	340	440



Technical data

- ▶ Clear opening
2,0 m bis 13,0 m
- ▶ Gate heights from 1,0 m to 2,4 m
(including approx. 100 mm ground clearance)
- ▶ Gate leaf with bar infill RHS 30
(clearance 110 mm)
- ▶ Opening direction left or right
(seen from the outside)
- ▶ Double entry post on base plate*
(also available for setting in concrete)
- ▶ Surface: Anodized or powder-coated aluminum standard colors
RAL 6005 moss green,
RAL 7016 anthracite grey,
RAL 7030 stone grey,
RAL 9010 pure white
- ▶ Mounting kit:
Approved mounting hardware

* For manual gates, a single entry post ensures reliable locking. When closed, the gate is secured by a robust bolt lock; when open, a locking chain prevents unwanted closing.

Documentation according to NORM: Foundation plan, assembly instructions, operating instructions, test book, EC Declaration of Conformity according to EC Machinery Directive, Declaration of Performance according to BauPVo, CE marking.



Additional equipment

INOVA SilverLine[®]



Side pedestrian door, matching the gate frame height

ETSL/ESSL



Climb-over protection (serrated strip) from 1.8 m height

MSL/ETSL/ESSL



Additional safety edges

ESSL



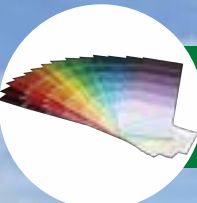
LED rotating beacon with or without protective cage

ETSL/ESSL



Wear protection strip on both sides of the upper beam

MSL/ETSL/ESSL



Special colors according to RAL or DB chart

MSL/ETSL/ESSL



Fence connection on entry or guiding post

MSL/ETSL/ESSL



LED flashing light

ETSL/ESSL



Induction loop detector

ESSL



Annual timer (takes public holidays into account, steel column)

ESSL



Key switch for 2 profile cylinders (fire bigade)

ETSL/ESSL



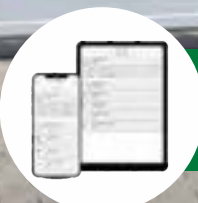
Additional handheld transmitters 1 or 4 channels

ESSL



Weekly timer

ESSL



Gate control via app (steel column)

ESSL



Connection to fire alarm control panel

ESSL



GSM mobile phone control INOMOBIL-Base (control via phone call)

ESSL



Key safe, e.g. for fire brigade

MSL/ETSL/ESSL



Coding switch device (steel column)

ETSL/ESSL



MSL	ETSL	ESSL	Gate types
☒	☒	☒	Intermediate heights / intermediate widths - 500 mm increments
☒	☒	☒	Two-color gate system
☒	☒	☒	Drilling template (assembly aid)
	☒	☒	Key safe built into guiding post (steel column)
	☒	☒	Additional safety contact strips and/or light barriers
	☒	☒	Additional handheld transmitters
	☒	☒	Weekly timer
	☒	☒	4-channel radio control incl. 1 handheld transmitter control OPEN/STOP/CLOSE or separate controls of up to 4 sliding gates/barriers in the tip range possible
	☒	☒	1-channel induction loop detector
	☒	☒	Induction loop for installation under paving or in asphalt

MSL - Manual SilverLine, ETSL - Electric Deadman SilverLine, ESSL - Electric Safety Device SilverLine

Do you have any further requests? Just get in touch with us - we are happy to help!

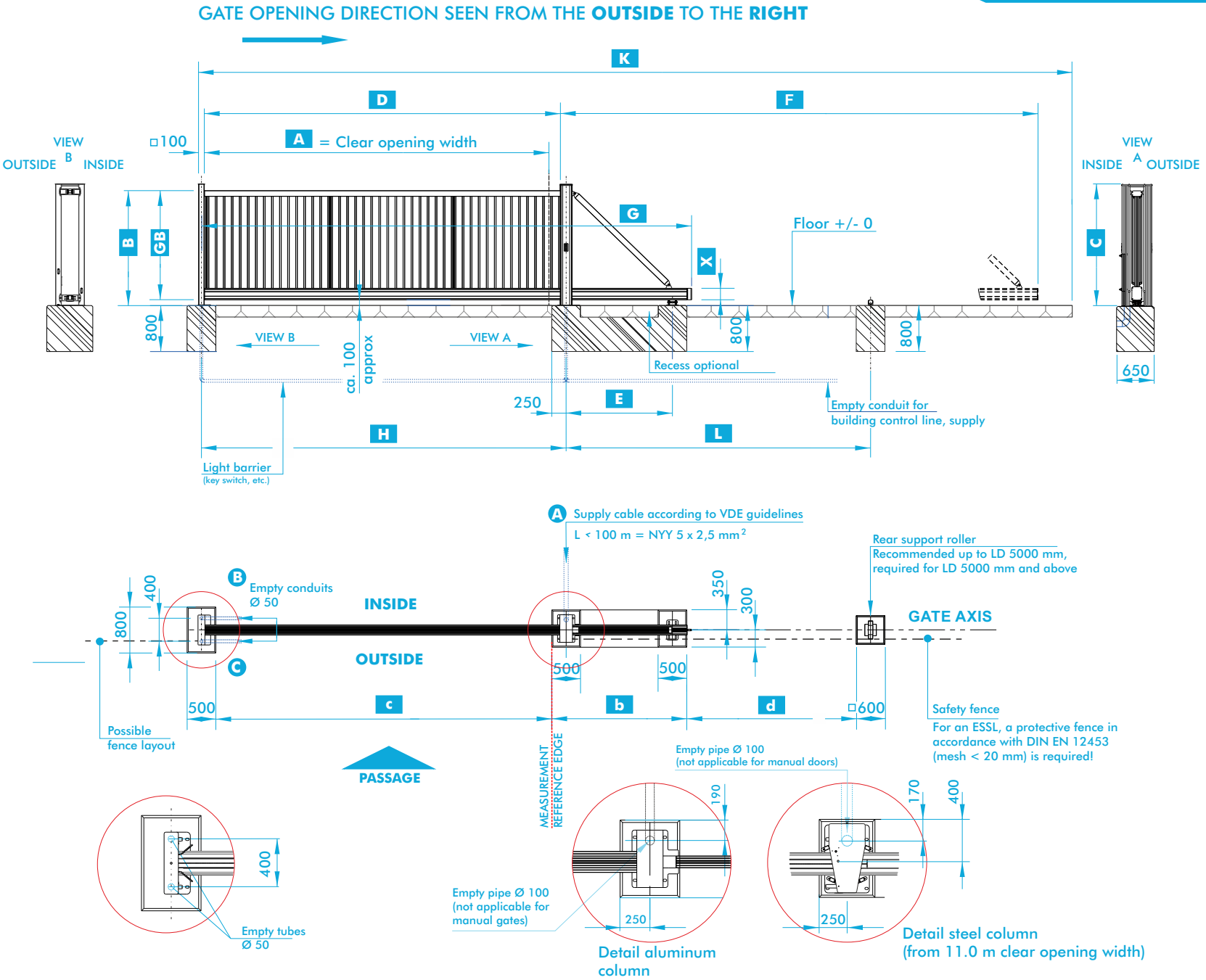
Technical dimensions

INOVA SilverLine[®]

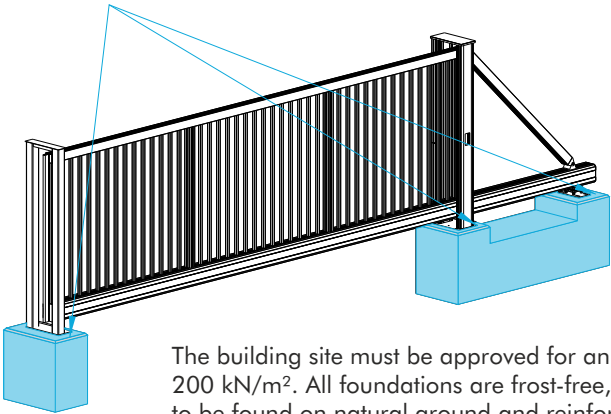
Dimensions subject to change

Gate						Gate leaf								Foundation					
Clear opening width	Total gate weight at 2 m door height (standard)	Guide post	Available total Gate height	Gate frame height	Gate post height guide post	Post distance	Centre distance station	Back sliding	Lower beam	Centre distance between the posts	Centre distance between the rollers	Total length required	Lower beam height	Foundation of the closing post to main foundation	Length of main foundation	Main foundation to foundation of rear support roller	Concrete C25/30		
A	Fg		B	GB	C	D	E	F	G	H	L	K	X	c	b	d	Vol.		
(m)	(kg)					SilverLine 200												(m³)	
2	260	Double column aluminum	Preferred dimensions: 1000/1200/1400/1600/1800/2000/2400 from top of foundation (± 0)	B - 100	Double column aluminum: B + 110 / steel column: B + 115	2200	1150	3610	3700	2350	-	6510	200	1850	1650	-	1,4		
2,5	275					2700	1250	4210	4300	2850	-	7610		2350	1750	-	1,4		
3	300					3200	1350	4810	4900	3350	-	8710		2850	1850	-	1,5		
3,5	315					3700	1350	5310	5400	3850	-	9710		3350	1850	-	1,5		
4	335					4200	1450	5910	6000	4350	-	10810		3850	1950	-	1,5		
4,5	355					4700	1550	6510	6600	4850	-	11910		4350	2050	-	1,6		
5	375					5200	1850	7310	7400	5350	4600	13210		4850	2350	2250	1,7		
5,5	390					5700	1850	7810	7900	5850	4800	14210		5350	2350	2450	1,7		
6	405					6200	1850	8310	8400	6350	5300	15210		5850	2350	2950	1,7		
6,5	440					6700	2250	9210	9300	6850	5900	16610		6350	2750	3150	2,0		
7	455	7200	2250	9710	9800	7350	6200	17610	6850	2750	3450	2,0							
(m)	(kg)	Double column aluminum / steel column *	Preferred dimensions: 1000/1200/1400/1600/1800/2000/2400 from top of foundation (± 0)	B - 100	Double column aluminum: B + 110 / steel column: B + 115	SilverLine 200/240								(m³)					
7,5	500					7700	2450	10410	10500	7850	6600	18810	200 / 240*	7350	2950	3650	2,1		
8	530					8200	2650	11110	11200	8350	7100	20010		7850	3150	3950	2,2		
8,5	590					8700	3050	12010	12100	8850	7600	21410		8350	3550	4050	2,4		
9	620					9200	3050	12510	12600	9350	8300	22410		8850	3550	4750	2,4		
(m)	(kg)	Double column aluminum / steel column *	Preferred dimensions: 1000/1200/1400/1600/1800/2000/2400 from top of foundation (± 0)	B - 100	Double column aluminum: B + 110 / steel column: B + 115	SilverLine 240/ 340								(m³)					
9,5	650					9700	3450	13410	13500	9850	8800	23810	240 / 340*	9350	3950	4850	2,6		
10	670					10200	3450	13910	14000	10350	9300	24810		9850	3950	5350	2,6		
10,5	685					10700	3850	14810	14900	10850	10300	26210		10350	4350	5950	3,3		
11	750					11200	3850	15310	15400	11350	10800	27210		10850	4350	6450	3,3		
(m)	(kg)	Steel column <td rowspan="5">Preferred dimensions: 1000/1200/1400/1600/1800/2000/2400 from top of foundation (± 0)</td> <td rowspan="5">B - 100</td> <td rowspan="5">B + 115</td> <th colspan="8">SilverLine 340/440</th> <th colspan="2">(m³)</th>	Preferred dimensions: 1000/1200/1400/1600/1800/2000/2400 from top of foundation (± 0)	B - 100	B + 115	SilverLine 340/440								(m³)					
11,5	850					11700	4250	16410	16500	11850	11300	28810	340/ 440*	11350	4900	6400	3,7		
12	955					12200	4250	16910	17000	12350	11700	29810	11850	4900	6800	3,7			
12,5	1050					12700	4450	17610	17700	12850	12150	31010	12350	5100	7050	3,8			
13	1120					13200	4450	18110	18200	13350	12650	32010	440	12850	5100	7550	3,8		

* from total door height (W) = 2.200 mm



Surfaces level and smooth



The building site must be approved for an average ground pressure of 200 kN/m². All foundations are frost-free, at least 800 mm deep, and to be found on natural ground and reinforced structurally. Concrete C25/30 (without consideration of environmental influences)

Controlled force for maximum safety

To prevent injuries caused by sliding gates, DIN EN 12453 specifies limits for the forces that occur when coming into contact with gate wings. Our INOVA sliding gates are well below these limits. Every INOVA[®] product undergoes comprehensive safety and functional testing on our test bench before delivery. This guarantees tested safety and reliable performance



Dimensions subject to change

Equipment as specified in the order confirmation	Required cable	from	to
Supply 400 V	NYN 5x2,5 mm²	Supply cable	A
Light barrier(s)	je I-Y (St) Y 2x2x0,8 mm²	A	B
External control panel	je I-Y (St) Y 10x2x0,8 mm²	Control point	A
Key switch inside the entry post	je I-Y (St) Y 4x2x0,8 mm²	A	B
Key switch outside in the entry post	je I-Y (St) Y 4x2x0,8 mm²	A	C
Intercom in guiding post	je I-Y (St) Y 4x2x0,8 mm²	Building	A
Intercom in entrance post	je I-Y (St) Y 4x2x0,8 mm²	Building	C

All information is non-binding and for informational purposes only. In the event of an order, the dimensions of the release drawing apply.

Reference Kotte & Zeller

INOVA[®] SilverLine aluminum sliding gate

When traveling through Rugendorf in Upper Franconia, the factory premises of camping equipment supplier Kotte & Zeller catch the eye from afar.

The combination of the bright green INOVA SilverLine sliding gate and red and white safety tape attracts attention almost magically.

Together with the color-coordinated fence system, the SilverLine sliding gate in this reference project blends seamlessly into the modern architectural concept of Kotte & Zeller.

- SilverLine aluminum sliding gate, ESSL
- Passage width 11 m with a gate height of 2 m
- INOVA fence
- Special color RAL 6018 yellow-green



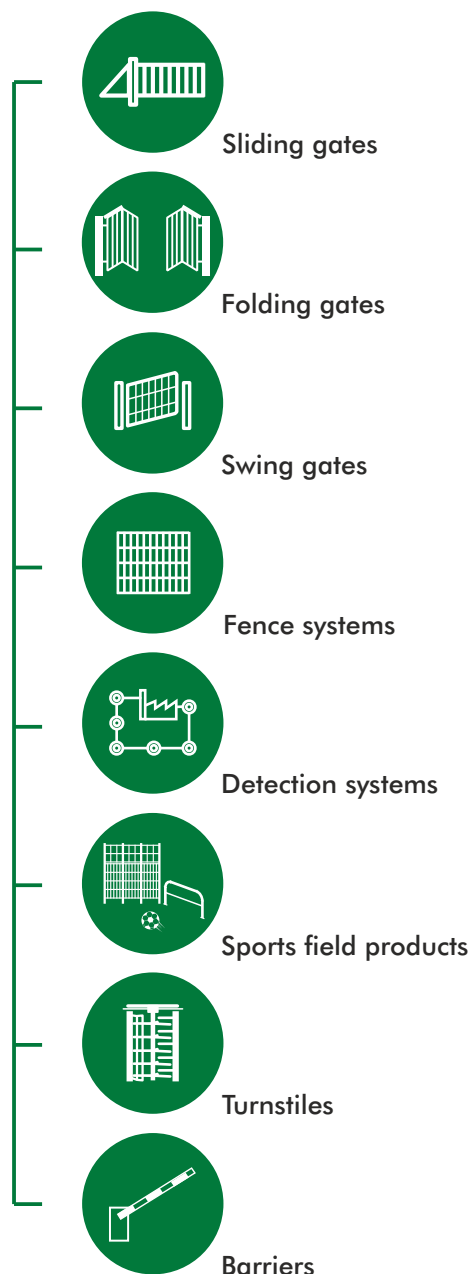
Full perimeter protection

Supplied by a single source

We understand perimeter protection as a concept with perfectly coordinated mechanical and electronic security components.

Quality, security and durability are the hallmarks of our products, making INOVA perimeter protection a safe investment for you.

With our dense network of qualified specialist dealers, you always have a competent contact person on site.



Your partner
for integrated perimeter protection

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