

LARGE SELECTION OF
PATTERNS, COLOURS AND
ACCESSORIES



In Full Swing
Garage Up-and-Over Doors, Operators and
Accessories



Doors close to perfection!

Open Sesame! Comfort at the push of a button!

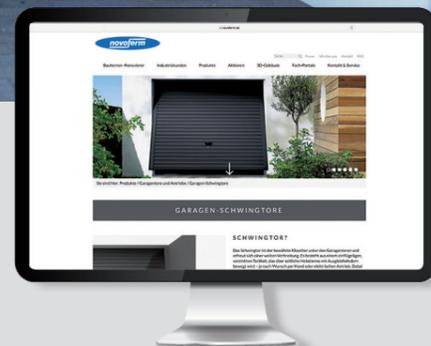
Are you thinking of brightening up your garage and making your drive even more comfortable? It's more reasonable than you might think, because our tried and tested up-and-over garage doors are not only available in a large number of models, but also offer an excellent price-performance ratio. No matter whether you decide to go for a manually operated garage door or power-operated garage door with Novomatic ceiling operator, or for solid steel or solid wood, at Novoferm you are sure to get maximum convenience for your money.

Whether you are building a new or renovating an existing garage, installation has never been easier with standard-sized Novoferm garage doors that are completely pre-assembled at the factory, or dimensionally accurate doors for ready-made garages.

So, come on – it's time to make your choice from the following pages!



Pattern: Rees, vertical rib
Colour: Anthracite grey, similar to RAL 7016



Advice and Contact

Please do not hesitate to contact us directly online www.novoferm.de with details of your project. We will forward your enquiry to a Novoferm sales partner near you.

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Why opt for up-and-over doors made by Novoferm?



Quality and superior workmanship

Since quality is definitely not something to be hidden, all Novoferm up-and-over doors bear the Novoferm seal of quality. What makes Novoferm up-and-over door systems so special are the high-quality materials, first-rate workmanship and components that are perfectly matched to each other – all made in Germany, of course! All Novoferm garage doors and operators are manufactured in accordance with the ISO 9001 quality management system and comply with the stringent safety requirements of European garage door standard EN 13241-1.



Trust backed up by our warranty

Trust is good, a warranty is even better. The Novoferm seal of quality constitutes a warranty for our customers of ten years on all steel up-and-over doors and five years on all solid wood up-and-over doors. The mechanical, motor and motor control components of our operators are also protected by a five year warranty. Detailed warranty terms and conditions can be found at www.novoferm.de/garantiebestimmungen.



Energy efficiency

All of our garage door operators and additional hardware (e.g. light strips) are fitted with modern, energy-saving LED lamps for added brightness, along with cost and energy efficiency. A further benefit in terms of energy savings is that many of our operators only consume 0.5 W in standby. Our remote controls with particularly long-lasting batteries are available to control the door and lighting. The lighting control can either be linked to the garage door movements or not.



Innovative and powerful

Advanced technology belongs in a modern casing. Our innovative operators are trendy and stylish with increased push/pull force. Novoferm garage door operators combine cutting-edge technology with the highest level of energy efficiency. Their impressive features include an optimized design, state-of-the-art LED technology, stability and enhanced performance.



Tested security

Automatic up-and-over doors are extremely secure! Powerful multiple tension spring assemblies prevent the door from falling, while a self-monitoring automatic cut-off safeguard stops and opens the garage door as soon as it encounters even minimal resistance. Novoferm up-and-over door systems consisting of operator and Novoferm up-and-over door K, in particular, are standard equipped with a 3-point locking system based on the safe principle and therefore meet the most stringent safety requirements. Tamper-proof remote controls protected by multi-digit rolling codes are also available. The remote controls are equipped with AES 128-bit encryption to offer maximum security.



Ease of use is standard

Opt for an automatic up-and-over door made by Novoferm and make your life easier: you will never again have to get out of the car to open or close the garage door, which runs extremely smoothly on quiet plastic rollers along plastic abrasive strips in the block frame. Powerful multiple tension spring assemblies make the door as light as a feather to operate, while specially designed lever arm bearings make the garage easy to open and close. Added to which, flexible door and light control systems, menu-guided programming and service functions and a broad selection of accessories, such as keypads and remote controls, ensure that our garage door systems are easy to handle and user friendly.

NEW: Signal 111 radio coded keypad and Signal 112 wall-mounted keypad in black.



More colour and individuality

Give your garage door a very personal touch – at Novoferm you can choose between numerous rib and raised panel patterns, as well as up-and-over doors with solid wood filling, attractively priced Super Colors/preferred colours and nearly all RAL colours, side and pass doors, and many more features, such as windows, light strips, handles, operators, remote controls and keypads.



Modernize your garage with automatic up-and-over doors

Are you thinking of brightening up your garage and making your drive even more comfortable? Your Novoferm partner can replace the old door with an automatic up-and-over door. How can they do it so quickly? Whether you are building a new or renovating an existing garage, installation has never been easier with standard-sized, pre-assembled Novoferm garage doors or dimensionally accurate doors for ready-made garages.



Pricing

So you want to raise the appeal of your garage – it costs less than you probably think! Up-and-over garage doors made by Novoferm offer outstanding value for money, regardless of whether you are building a new or renovating an existing garage. You can buy a Novoferm up-and-over garage door for less than 750 euros* (manufacturer's RRP).

*Price incl. VAT, without installation



Novoferm's network of partners

Novoferm works with an extensive network of dealers across Germany – close to where you are. Our authorized Novoferm dealers are available to offer advice on, sell, measure, and install your garage door, as well as disassembling and disposing of your old door in line with environmental protection rules – at affordable all-inclusive prices.

Simply contact us directly using our online forms. We will forward your enquiry to a Novoferm sales partner near you.



As one of Europe's leading system providers of doors, garage doors, frames and operators, Novoferm offers the high levels of quality and safety of a well-known brand.

Production that incorporates best engineering practices and environmental concerns is as important to us as being certified under ISO 9001. And certification according to EN 13241-1 confirms that all our products meet the stringent safety requirements of the European garage doors product standard.

And this is how we guarantee quality: 110 years on steel up-and-over garage doors, 5 years on solid wood up-and-over garage doors. Combined with the exemplary service from your Novoferm stockist. Detailed warranty terms and conditions can be found at www.novoferm.de/garantiebestimmungen.



Top quality - combined with safety.

Quality without compromise begins during processing. Hot-dip galvanized thin sheet metal primed with polyester-based electrostatic powder coating gives the garage door double protection against corrosion. The door leaf and block frame, guides, lever arms and all other components are also galvanized. Distortion-resistant, continuously welded frame edges and hollow frame profiles with cross braces create excellent stability. And because we are convinced of the durability of this construction, we give a 10-year warranty on it. We do not skimp on safety, either. That goes for up-and-over garage doors and operators alike. Personal protection is ensured by automatic cut-off and self-monitoring power limitation, while protection against burglars is provided by the 3-point central locking system based on the safe principle in the up-and-over garage door system or by the self-locking gear of the operator. So safe, so good. That is Novoferm.

Thought through to the very last detail



- 1 Protects people:**
The garage door that monitors itself
 The Novoferm up-and-over garage door with operator is equipped with self-monitoring automatic cut-off. As soon as the garage door encounters an obstacle when closing – regardless of whether person or object – it stops and opens immediately at the slightest resistance.
- 2 Protects property:**
Exemplary burglar resistance
 The Novoferm up-and-over garage door with operator and 3-point lock (incl. BDIP track) protects your property using the safe principle. Locks on both sides with solid bolts in the frame, and additional locking mechanism provided by the operator, which self-locks at the upper edge of the door leaf.
- 3 Convenient opening and closing**
 Specially designed lever arm bearings allow for easy opening and closing of your garage door – easy to operate manually and even easier by electrical operator.
- 4 Maximum operational reliability**
 Powerful triple spring assemblies ensure maximum functional reliability and superb ease of operation. Even if a spring should actually break, it can't break off, because it is screwed in tightly at the top and the bottom. And all the remaining springs would keep the garage door securely in place, anyway.
- 5 Additional property protection**
 The floor-independent horizontal locking device with solid bolts in the side frames is guaranteed tamper proof as it cannot be reached from the outside with tools.



Regulations are good – but it's even better to outdo them

All Novoferm up-and-over garage doors fulfil the European garage door standard EN 13241-1.



WITH LED

Novoferm up-and-over door systems.

Novoferm up-and-over doors with Novomatic 423, triple lock and matching track (BDIP) are available as an all-in-one solution for single garages. This makes it possible to match the design of all components for easy installation and to meet the highest demands regarding functionality, safety and durability at the same time. The K up-and-over garage door with operator is suitable for new constructions as well as renovations.

 A video about assembling the Novoferm up-and-over door systems can be found on the Novoferm YouTube channel: www.youtube.com/Novoferm-Videos

Up-and-over door system



3-POINT
LOCKING SYSTEM BASED
ON THE SAFE PRINCIPLE

Pattern: Kreuztal, vertical slat Colour: Traffic white, similar to RAL 9016

PLUS

The automatic up-and-over garage door system: The advantages at a glance

- 3-point locking system based on the safe principle.
There is no safer way to lock an up-and-over garage door.
- Tamper-proof and cannot be reached from the outside with tools.
Since the floor structure is irrelevant for the locking system, dirt on the floor will not cause malfunctions.
- Combination of door, operator lock set and matching track.
Everything available from a single source and perfectly matched.
- Bright, energy-saving LED light with an almost unlimited service life, shines 13 times brighter than a conventional bulb with identical wattage.
- Standard emergency unlocking for garages without a second entrance.



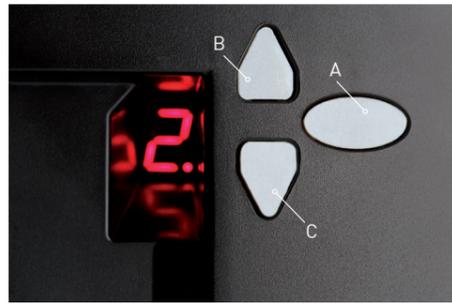
Five-year manufacturer's warranty on all mechanical, motor and motor control components. Detailed warranty terms and conditions can be found at www.novoferm.de/garantiebestimmungen.

The key data at a glance

Operator type	Novomatic 423
Push and pull	600 N
Running speed	15 cm/s
Maximum door surface	10 m ²
Operation/day (open/close)	15
Standby consumption	< 0.5 W
Integrated LED lighting	1.6 W



Up-and-over door system



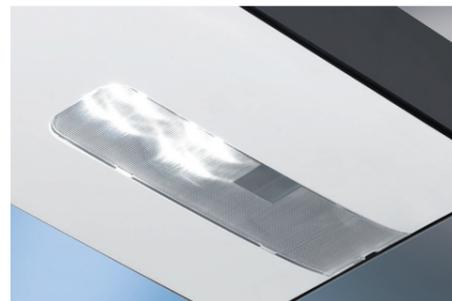
Menu-guided programming

Programming is convenient and easy with three keys and a clear display. And the logical menu guide ensures that no settings are overlooked in the process. All the parameters are saved, even in case of a power cut. The operating state is always recognizable through the transparent cover. Clear error coding allows for quick and safe troubleshooting if required.



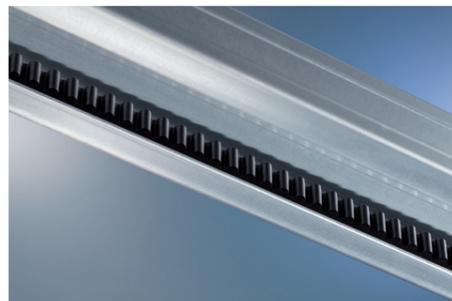
Connections for accessories

Easily accessible connections for wired accessories. Radio remote-controlled accessories can also be used.



LED lighting

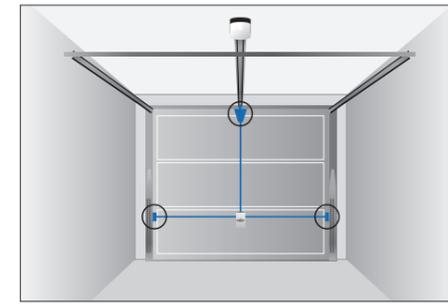
The operating element is fitted with a modern, durable and energy-saving LED light.



Track

The track deflectors are mounted on ball bearings and are maintenance-free just as the standard toothed belts. This ensures a long service life and an extremely quiet door operation.

The guide rail, completely assembled at the factory, is in one piece for garage doors up to a height of 2,250 mm, in two pieces for garage doors up to 2,750 mm.



3-point locking system based on the safe principle

- Self-locking operator automatically locks the upper edge of the door leaf
- Secure locking mechanism with solid bolts on both sides of the frame
- Safe from manipulation because it cannot be reached from the outside with tools.
- Floor-independent, no spring-load catch malfunctions due to effects of dirt on the floor



Spacing-saving, fast installation

- The operator is fastened on front of the garage-door construction. The front fastening points are provided at the factory.
- No additional space required for the operator over the door. Very advantageous in extremely confined spaces



Remote control included in the standard scope of supply

The standard scope of supply includes a 2-channel Mini-Novotron 522 remote control. Further accessories are available starting on page 34.

EXCELLENT ENERGY SAVING PROPERTIES

Stand-by
<0.5
watt

PLUS

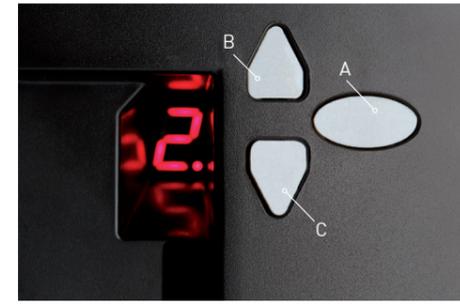
Advantages at a glance

- Comfortable operation using the tamper-proof 2-channel rolling code hand transmitter (KeeLoq)
- Soft start and soft stop function
- Self-monitoring automatic cut-off
- Electronically monitored push-up safeguard
- Bright LED lighting (programmable 60-240 seconds)
- Connection for outdoor lighting up to 500 W
- Air vent settings for garage ventilation
- Uses just 0.5 W in standby, incurring energy costs of about €1 per year

5
YEARS
NOVOFERM WARRANTY

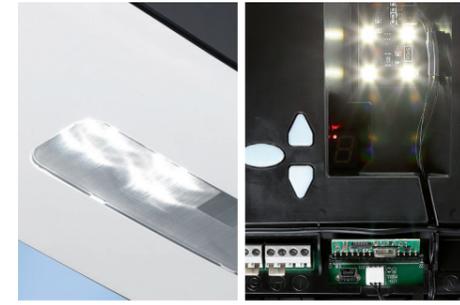
Five-year manufacturer's warranty on all mechanical, motor and motor control components. Detailed warranty terms and conditions can be found at www.novoferm.de/garantiebestimmungen.

Novomatic 423



Menu-guided programming

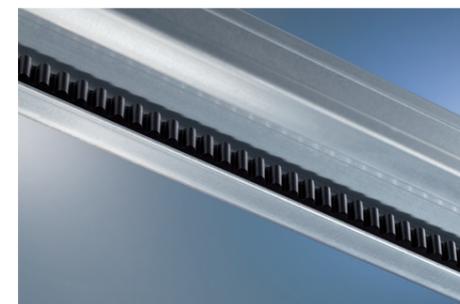
Programming is convenient and easy with three keys and a clear display. And the logical menu guide ensures that no settings are overlooked in the process. All the parameters are saved, even in case of a power cut. The operating state is always recognizable through the transparent cover. Clear error coding allows for quick and safe troubleshooting if required.



LED lighting and connections for accessories

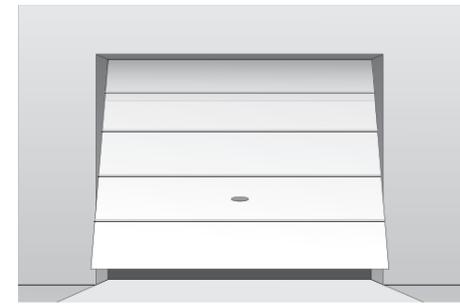
The operating element is fitted with a modern, durable and energy-saving LED light. The connections for wired accessories can be easily reached and remote-controlled accessories can also be used.

Why LED?
Particularly bright
13 times brighter than conventional bulbs of identical watt strength
Particularly cost efficient
Extremely long lasting, virtually unlimited service life
Particularly efficient
Minimizes energy consumption



Track

The track has high bending and torsion stability. The deflectors are mounted on bearings, which ensures extremely quiet operation. A maintenance-free belt is pre-assembled in the track at the factory.



Ventilation setting to air the garage

The door is opened about 10 cm to air the garage. Triggering a pulse can move it from any position to the air vent setting. After 60 minutes it closes automatically unless closed by remote control beforehand.



Remote control included in the standard scope of supply

The standard scope of supply includes a 2-channel Mini-Novotron 522 remote control. Further accessories are available starting on page 34.

Novomatic 423. Advanced technology for more user friendliness.

Advanced technology belongs in a modern casing. Novomatic 423 is trendy and stylish. It is the professional system for operating sectional and up-and-over garage doors. This garage door operator is a particularly good match for Novoferm garage doors, but is also perfect for retrofitting other garage door makes.

Various videos about Novomatic 423 garage door operators can be found on the Novoferm YouTube channel: www.youtube.com/NovofermVideos

The key data at a glance

Operator type	Novomatic 423
Push and pull	600 N
Running speed	15 cm/ s
Maximum door surface.....	10 m ²
Operation/day (open/close)	15
Standby consumption	< 0.5 W
Integrated LED lighting.....	1.6 W





WITH LED

PLUS

Advantages at a glance

- The perfect choice for retrofitting automatic operation in garages without a power connection
- Optionally available with additional solar module
- Suitable as an emergency solution in the case of power outage
- Powerful battery with integrated automatic cut-off
- Comfortable operation using the tamper-proof 2-channel rolling code hand transmitter (KeeLoq)
- Soft start and soft stop function
- Electronically monitored push-up safeguard
- LED lighting (programmable timing: 30, 60 or 90 seconds)



Five-year manufacturer's warranty on all mechanical, motor and motor control components. Detailed warranty terms and conditions can be found at www.novoferm.de/garantiebestimmungen.

Novomatic 423 Accu



Battery pack

The powerful 12 V battery has a capacity of 15 Ah, which is sufficient to open a garage door four times a day over a period of 40 days – subject to a temperature of 20°C. It generally functions reliably in a temperature range of between -15 and +45°C. A charge controller for mains power packs is integrated.



Solar module

Use the Novoferm solar module to generate your own power for charging the battery, and totally eliminate the need to depend on mains power. The compact unit measures just 370 x 310 mm, with a capacity of 10 Wp and max. power Pmax of 0.5 A. The cells are protected against external influences by a sturdy aluminium frame and glass cover.



Remote control included in the standard scope of supply

The standard scope of supply includes a 2-channel Mini-Novotron 522 remote control. Further accessories are available starting on page 34.

Novomatic 423 Accu. The solution for garages without power connection.

The Novomatic 423 Accu features an innovative design and is a flexible solution for garages without a power connection. The operator is the perfect choice for retrofitting automatic operation when replacing old garage doors. A battery pack supplies the power and can be enhanced with a solar module. Fitted with a charge controller, the operator can also be connected to the mains without damaging the battery. In the event of a power cut, the operator continues to open and close the door as usual for as long as the battery charge lasts.

The key data at a glance

Operator type	Novomatic 423 Accu
Push and pull	400 N
Running speed	13 cm/ s
Maximum door surface	8 m ²
Operation/day (open/close)	4
Standby consumption	3 mA
Integrated LED lighting	0.4 W



EXCELLENT ENERGY SAVING PROPERTIES

Stand-by
<0.5
watt

PLUS

Advantages at a glance

- Easy to operate with the tamper-proof rolling code remote control (KeeLoq)
- Soft start and soft stop function
- Integrated automatic cut-off stops the door reliably if something gets in its way
- Electronically monitored push-up safeguard
- Programmable interior lighting (60-240 seconds)
- Directly connectable outside lighting up to 500 W
- Manual quick release mechanism in case of power cuts
- Easy and fast to install thanks to standard hardware for up-and-over and sectional garage doors
- Saves energy, using just 0.5 W in standby

5
YEARS
NOVOFERM WARRANTY

Five-year manufacturer's warranty on all mechanical, motor and motor control components. Detailed warranty terms and conditions can be found at www.novoferm.de/garantiebestimmungen.

WITH LED

Novomatic 563 S. The operator that also opens double garages.

Modern design and high-quality technology make the Novomatic 563 S a superior and modern high-tech operator system. Well-engineered technical features, such as doors that open up to 50% faster thanks to the integrated quick-acting function and integrated energy-saving LED lighting (1.6 W), ensure outstanding convenience and energy efficiency.

 A video about assembling the system can be found on the Novoferm YouTube channel: www.youtube.com/NovofermVideos

Novomatic 563 S



Menu-guided programming

Control is programmed easily with the logically structured menu. Key A loads the menu, the digits indicate the menu step. When the display flashes, press keys B and C to change the setting. Press key A to save the set value and automatically jump to the next menu step. This ensures that no settings are forgotten during programming.



LED lighting and connections for accessories

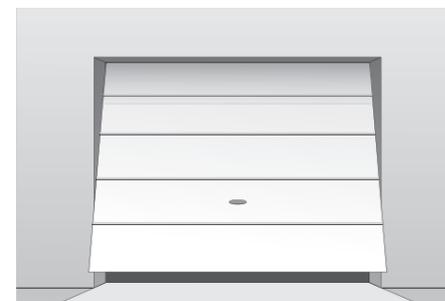
The operating element is fitted with a modern, durable and energy-saving LED light. The connections for wired accessories can be easily reached and remote-controlled accessories can also be used.

Why LED?
Particularly bright
13 times brighter than conventional bulbs of identical watt strength
Particularly cost efficient
Extremely long lasting, virtually unlimited service life
Particularly efficient
Minimizes energy consumption



Track

The track has high bending and torsion stability. The deflectors are mounted on bearings, which ensures extremely quiet operation. The track is pre-assembled at the factory with a maintenance-free belt that is resistant to oil and acid.



Ventilation setting to air the garage

The door is opened about 10 cm to air the garage. Triggering a pulse can move it from any position to the air vent setting. After 60 minutes it closes automatically unless closed by remote control beforehand.



Remote control included in the standard scope of supply

The standard scope of supply includes a 2-channel Mini-Novotron 522 Design remote control. Further accessories are available starting on page 34.

The key data at a glance

Operator type	Novomatic 563 S
Push and pull	800 N
Running speed (open/close)	22/ 17 cm/ s
Maximum door surface	15 m ²
Operation/day (open/close)	25*
Standby consumption	< 0.5 W
Integrated LED lighting	1.6 W



NEW!

up to **50%**
faster



PLUS

Advantages at a glance

- Easy to operate with the tamper-proof rolling code remote control (KeeLoq)
- Soft start and soft stop function
- Integrated automatic cut-off stops the door reliably if something gets in its way
- Electronically monitored push-up safeguard
- Programmable interior lighting (60-240 seconds)
- Directly connectable outside lighting up to 500 W
- Manual snap unlocking mechanism in case of power cuts
- Easy and fast to install thanks to standard hardware for up-and-over and sectional garage doors



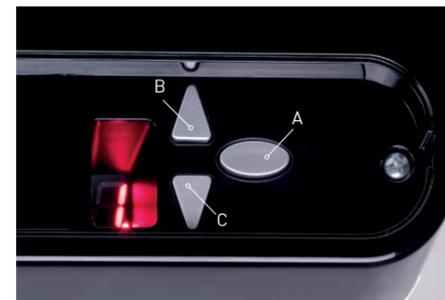
Five-year manufacturer's warranty on all mechanical, motor and motor control components. Detailed warranty terms and conditions can be found at www.novoferm.de/garantiebestimmungen.

WITH LED

Novomatic 823 S. There is nothing like power.

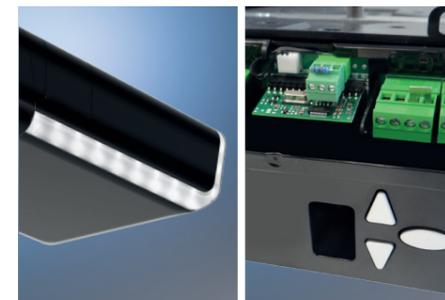
This operator model is also perfectly geared to all Novoferm garage door types. The new and elegant housing of the Novomatic 823 S features integrated LED strips for optimum garage illumination. The Novomatic 823 S is ideal for retrofitting other makes of garage door. As the most powerful version of the garage door operator, this operator is suitable for smaller underground garages. It is also equipped with a quick-acting function which opens a garage door in up to 50% less time.

Novomatic 823 S



Menu-guided programming

Programming is convenient and easy with three keys and a clear 7-segment display. You are guided systematically through the menu to ensure that no settings are overlooked while programming. All settings are saved, even in case of a power cut. The operating state is always recognizable through the transparent cover. Clear error coding allows for quick and safe troubleshooting if required.



Connections for accessories and external lighting as well as LED lighting

Easily accessible connections for wired accessories. Radio remote-controlled accessories can also be used. Unlike conventional operators, the connection for external lighting, which can be remote controlled, is a standard feature. The Novomatic 823 S is equipped with integrated and economical LED lighting (1.6 W).



Track

The track has high bending and torsion stability. The deflectors are mounted on bearings, which ensures extremely quiet operation. The track is pre-assembled at the factory with a maintenance-free belt that is resistant to oil and acid.

Why LED?

- Particularly bright
13 times brighter than conventional bulbs of identical watt strength
- Particularly cost efficient
Extremely long lasting, virtually unlimited service life
- Particularly efficient
Minimizes energy consumption

The key data at a glance

Operator type	Novomatic 823 S
Push and pull	1,000 N
Running speed (open/close)	22/ 17 cm/s
Maximum door surface	17 m ²
Operation/day (open/close)	50*
Standby consumption	< 4 W
Integrated LED lighting	1.6 W



* For frequently used garage doors in underground car parks as well as heavy timber doors or garage doors with pass doors

Colours and fittings



Whatever you want: Colour and fittings

Your new Novoferm up-and-over garage door is, of course, designed to match your personal taste. If you have decided to go for solid steel then you should first select the colour. The standard colour, traffic white, is extremely popular, but there are also hundreds of other shades to choose from at a small additional charge. Think about whether you want any glazing to benefit from the daylight and whether you'll need external lighting to show off the best features of your garage door after sunset! In the garage door finder (from page 28 onwards) you will find an overview of all these design possibilities. Just take a look and make your choice!

Standard colour



Traffic white, similar to RAL 9016

Super Colors / preferred colours



Light grey, similar to RAL 7035



Window grey, similar to RAL 7040



Anthracite grey, similar to RAL 7016



Pigeon blue, similar to RAL 5014



Fir green, similar to RAL 6009



Ochre brown, similar to RAL 8001



Sepia brown, similar to RAL 8014

RAL colours



RAL of choice: Your stockist will help you select the right colour for your garage door. And matching garage door and door handles are also available in attractive colours and metallic variants.

Stylish bright spots inside your garage



Let light into your garage: Simply by adding a standard window with acrylic clear glass or acrylic crystal glass or by installing a diamond window or cross bar window in crystal glass.

External space-saving lighting



An LED lighting unit above the garage door stylishly showcases the architecture of your house front. Since this lighting kit is only 2 cm tall and 4 cm wide, it takes up little space when mounted under the header, and almost all the passage height is maintained. Long-life LEDs illuminate your garage door brightly, yet consume very little power.

Timber doors

DOOR TIP

Solid wood doors have to be treated by the customer with proprietary preservatives to permanently protect them against weather conditions.



Pattern: München/Leipzig, vertical rib



Naturally high quality: Solid wood up + over garage doors

What could be more apt than to refine your rustic country house with an equally rustic garage door? The exclusive Novoferm up + over garage doors with solid wood fillings create just the right element to emphasize your house – by perfectly matching the colour of your clinker bricks, your wooden windows or your wooden gable. A unique, natural structure and the top-class craftsmanship involved in their manufacture emphasize the character of your house and guarantee a stylish appearance for years to come. With a five year works guarantee from Novoferm.

Examples of timber doors



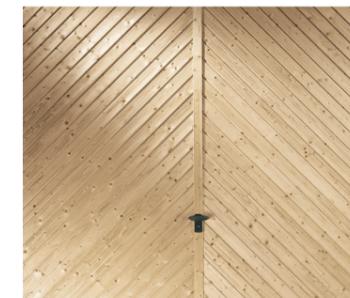
München, vertical rib



Nürnberg, vertical rib with horizontal profile strips



Stuttgart/ Schwerin, horizontal rib



Kempten/ Halle, herringbone pattern

The right cleaning and care

A colourless base coat is applied to Novoferm solid wood doors at the factory to protect them against wood pests and blue stain. After installation, a pigmented top coat must be applied to solid wood garage doors to protect them against weather conditions and UV rays and to give them an attractive finish.

Novoferm solid wood doors are made exclusively of carefully selected Nordic pine sourced from controlled, renewable forests. Nordic pine is the timber of choice in construction and furniture design due to its inviting, light colour and its predominantly straight grain pattern. Its typical spiral growth makes every door unique.



Pattern: Rees, vertical rib
Colour: Traffic white, similar to RAL 9016

Pass doors and side doors



Pattern: Siegen, horizontal slat
Colour: Window grey, similar to RAL 7040

Examples of sheet steel side doors



Rees,
vertical rib



Kassel,
vertical rib with horizontal
centre profile



München/ Leipzig,
vertical rib



Nürnberg,
vertical rib with horizontal
profile strips

Examples of solid wood side doors



Siegen,
horizontal slat



Frankfurt,
square raised panel



Stuttgart/ Schwerin,
horizontal rib



Augsburg/ Rostock,
diagonal rib

Advantageous extras

If you don't want to always have to raise and lower the garage door for little things like your tool box, lawn mower or bike then Novoferm has got a practical alternative: The matching side door or – if there isn't enough space for a side door – the integrated pass door. Side doors for Novoferm garage doors are available in all standard garage door patterns and colours, in all standard sizes, in both opening directions and with inside or outside rebate – in short, exactly how you want it. Customized sizes are also possible. All doors are made of hot galvanized steel sheet or solid wood. Doors can also be filled by the customer. That way the two doors will always match.

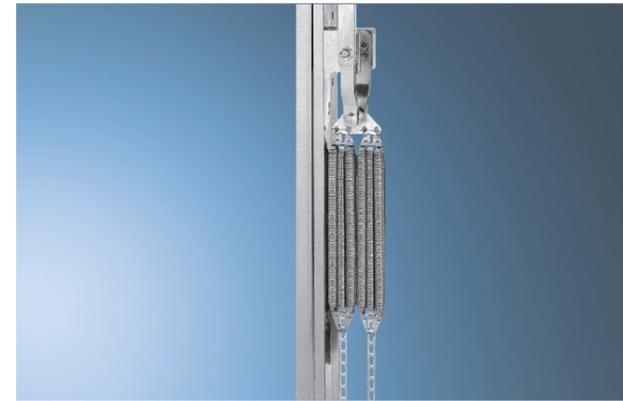


Pattern: Köln, horizontal rib with centre and side profile
Colour: Traffic white, similar to RAL 9016

Double the best: Up-and-over garage doors for double garages

If you've got a double garage then why not refine both parking spaces with a Novoferm M garage door! It is up to 5 m wide and available with fillings of wood or steel, as well as in many different colours and patterns from classic rib right up to the elegant raised panels, with an optional matching side door or pass door, and, of course, the perfectly adjusted Novomatic operator – so that you won't just be able to just leave in style, but will also have the easiest and most convenient garage door to come back home to, as well!

Double garages



Double the strength - simply secure

The heavy M garage doors are fitted with an extra-strong multiple spring assembly on both sides.



High performance - low power consumption

High-performance Novomatic operators save a great deal of electricity when working and are extremely quiet when running. On top of everything, the operator head is integrated into the garage lighting. You can find more information on pages 16 to 19.

Some inspiration for you!



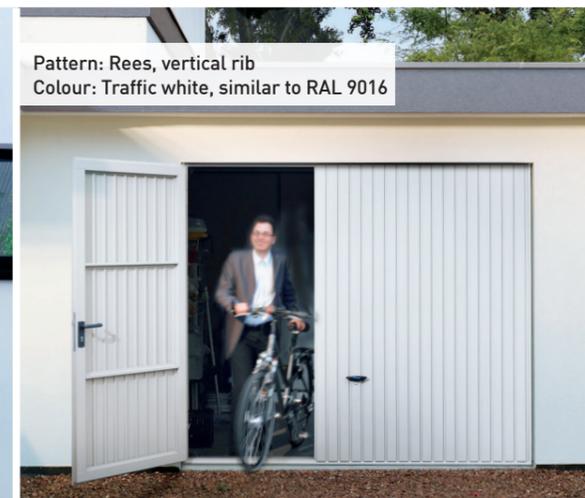
Pattern: Kreuztal, vertical slat
Colour: Fir green, similar to RAL 6009



Pattern: Siegen, horizontal slat
Colour: Window grey, similar to RAL 7040



Pattern: Rees, vertical rib
Colour: Anthracite grey, similar to RAL 7016



Pattern: Rees, vertical rib
Colour: Traffic white, similar to RAL 9016



Pattern: Kreuztal, vertical slat
Colour: Light grey, similar to RAL 7035



Pattern: Köln, horizontal rib with centre and side profile
Colour: Traffic white, similar to RAL 9016



Pattern: Siegen, horizontal slat
Colour: Pigeon blue, similar to RAL 5014



Pattern: München/Leipzig, vertical rib



Pattern: Siegen, horizontal slat
Colour: Anthracite grey, similar to RAL 7016



Pattern: Kleve, horizontal rib with side profile
Colour: Wine red, similar to RAL 3005

Garage door finder

The quicker way to your dream door!

Our door finder will help you find the perfect garage door for your garage in no time. Simply check out our wide range of garage door types, finishes, colours, windows and additional accessories.

Detailed information on all Novoferm garage doors can also be found on the internet at www.novoferm.de

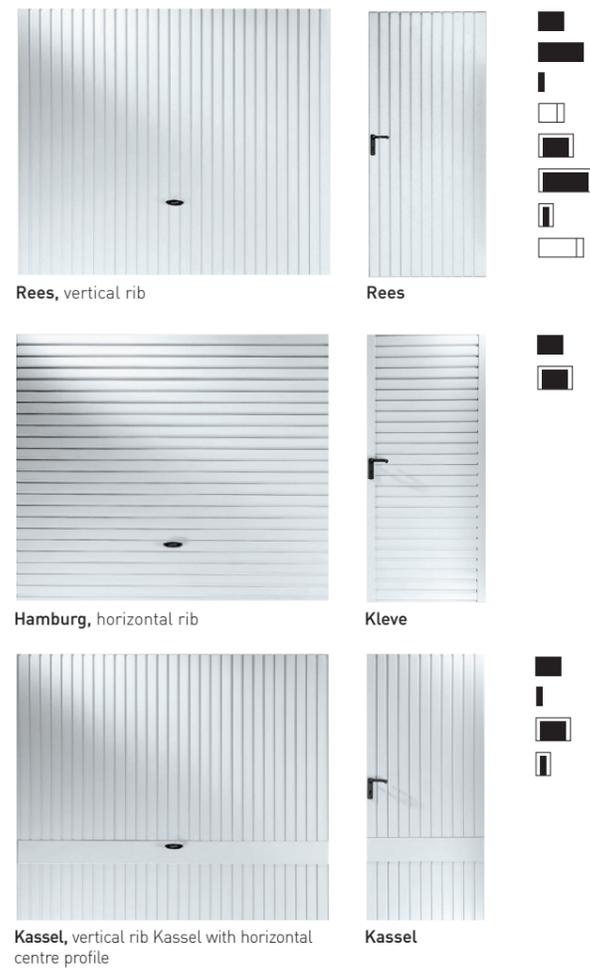
We hope you have fun!



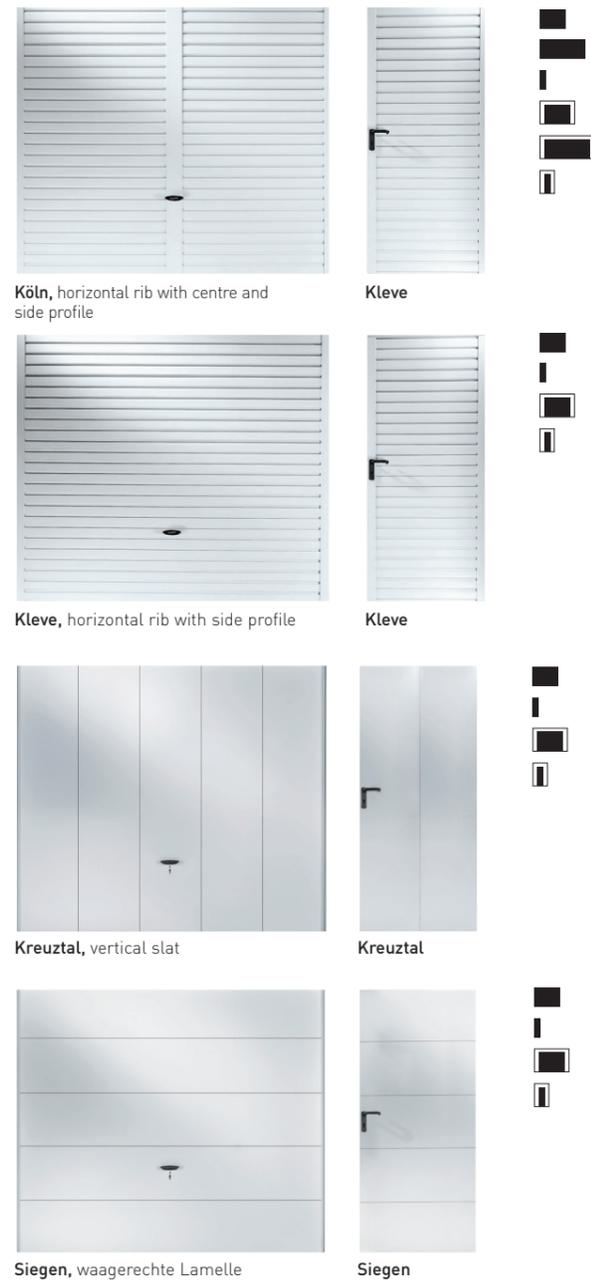
Garage door facts

- High corrosion resistance thanks to base painted, hot-dip galvanized garage door leaves and galvanized block frames
- Smooth running thanks to extremely quiet plastic rollers and plastic abrasive strips in the block frame
- High distortion resistance through continuously welded hollow frame profiles with cross braces
- Sturdy multiple spring assemblies ensure easy operation and maximum operational reliability
- **K® 90 Air** with 90 x 90 mm perforation for optimum air circulation (ventilation cross section: approx. 35%, depending on size)
- **K® Typ Micro** with 6 x 6 mm perforation in the middle section for optimum privacy and ventilation (ventilation cross section: approx. 16%, depending on size)

Ribbed steel garage doors

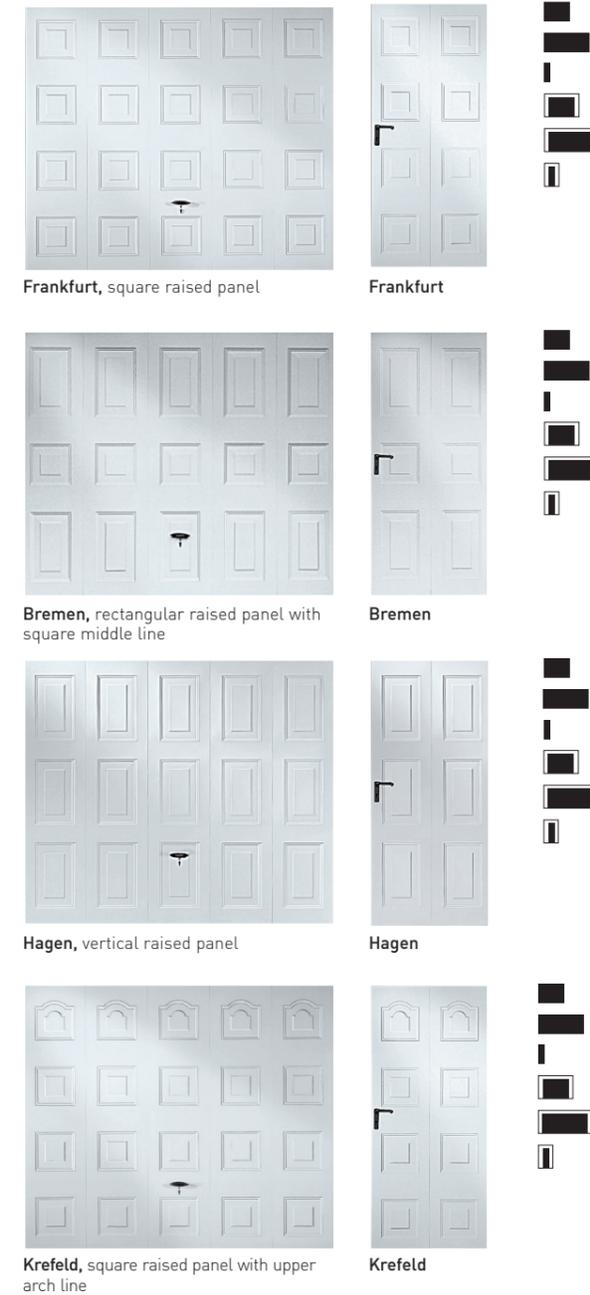


Ribbed steel garage doors

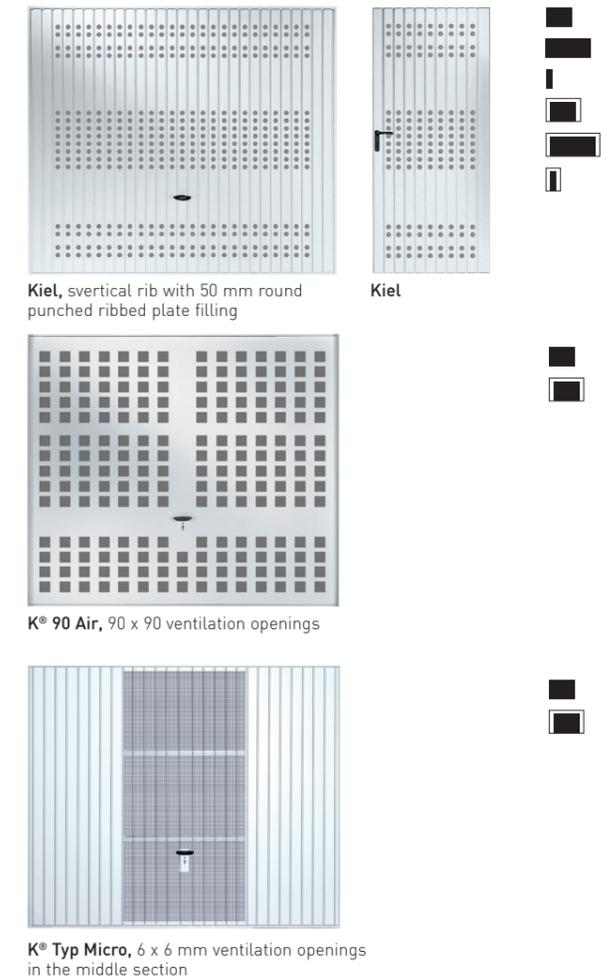


Illustrations show garage door leaf size 2500 x 2125 mm. Other garage door sizes and side doors can deviate from the illustration shown

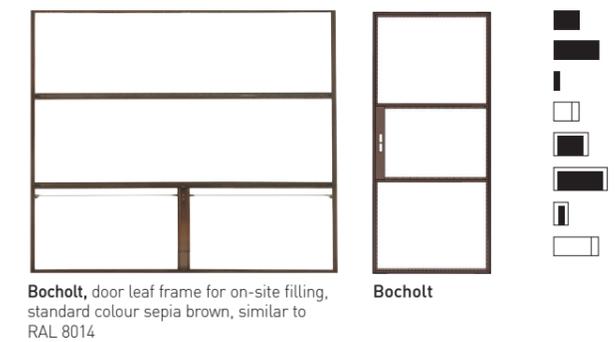
Raised panel steel doors



Steel garage doors for individual parking spaces in communal / underground garages



Door leaf frames open for infill



- Novoferm K for single garages** ■ Default sizes ■ Special sizes □ With pass door
- Novoferm M for double garages** ■ Default sizes ■ Special sizes □ With pass door
- Side doors** ■ Default sizes ■ Special sizes



Guaranteed high quality

Up-and-over garage doors offer a great deal and cost a great deal less: Garage doors and frames are galvanized and given a polyester base coat. To create a harmonious appearance, the elements of the frame which are visible from the outside are painted in the colour of the garage door – an attractive colour of your choice.

Standard colour



Traffic white, similar to RAL 9016 except for Bochtol

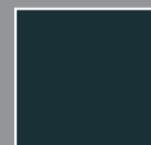
Super Colors / Preferred colours



Light grey, similar to RAL 7035



Window grey, similar to RAL 7040



Anthracite grey, similar to RAL 7016



Pigeon blue, similar to RAL 5014



Fir green, similar to RAL 6009



Ochre brown, similar to RAL 8001



Sepia brown, similar to RAL 8014



RAL of choice:
Can't find the colour you want? The door is available in a RAL colour of your choice for a modest surcharge – except for a few metallic, luminous and pearl effect colours as well as some especially dark colour shades.

Garage door facts

- Solid wood filling made of Nordic pine
- Colourless priming coat in the factory to protect against wood pests and blue stain
- Smooth running thanks to extremely quiet plastic rollers and plastic abrasive strips in the block frame
- High distortion resistance through continuously welded hollow frame profiles with cross braces
- Easy operation and maximum operational reliability through stable triple spring assemblies

Important note:

It is imperative to treat solid wood doors with proprietary preservatives prior to installation to permanently protect them against weather conditions and UV rays.

The right cleaning and care

A colourless base coat is applied to Novoferm solid wood doors at the factory to protect them against wood pests and blue stain. After installation, a pigmented top coat must be applied to solid wood garage doors to protect them against weather conditions and UV rays and to give them an attractive finish.

Novoferm solid wood doors are made exclusively of carefully selected Nordic pine sourced from controlled, renewable forests.

Nordic pine is the timber of choice in construction and furniture design due to its inviting, light colour and its predominantly straight grain pattern. Its typical spiral growth makes every door unique.

Timber doors

Up + over garages doors with solid wood fillings



Leipzig, München, vertical rib



München/ Leipzig



Nürnberg, vertical rib with horizontal profile strips



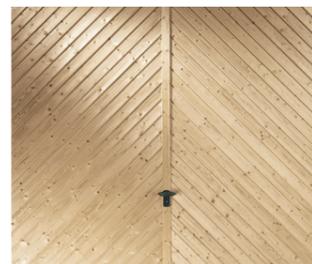
Nürnberg



Stuttgart/ Schwerin, horizontal rib



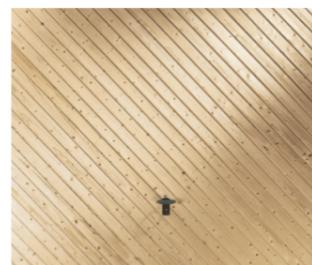
Stuttgart/ Schwerin



Kempten/ Halle, herringbone pattern



Augsburg/ Rostock



Augsburg/ Rostock, diagonal rib



Augsburg/ Rostock

Windows



Variant 1:
Standard window,
transparent glass



Standard window,
crystal glass



Variant 2:
Rhombus window,
crystal glass



Variant 3:
Cross-bar
window, crystal
glass

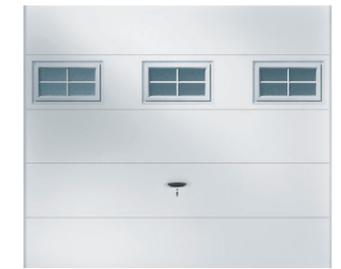
- Ribbed garage doors can be fitted with horizontal or vertical window cutouts depending on the garage door type. Raised-panel garage doors can only be fitted with vertical window cutouts.
- All windows are available with either a clear or crystal 3 mm acrylic glass double pane 3 mm-Acrylglas-Doppelscheibe
- Dimensions: approx. 390 x 190 mm



Example 1:
Kassel with standard window, crystal glass

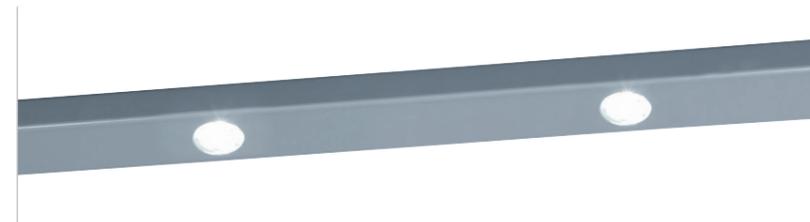


Example 2:
Hagen with rhombus window, crystal glass



Example 3:
Siegen with cross bar window, crystal glass

LED lighting kit



- Weather-protected lighting
- Space-saving assembly under the header
- Even distribution across garage door width: 4, 6 or 8 LEDs at up to 3,000, 4,000 or 5,000 mm garage door width
- Control via 2-channel hand transmitter
- Can be switched on and off separately, independent of operator function
- Intensive light source, low power consumption
- Long service life thanks to LED technology
- Incl. mains transformer 230 V/12 V

Door handles



Exclusive handles are available for delivery in various surfaces for all door patterns. Ask your stockist for more details.

Illustrations show garage door leaf size 2500 x 2125 mm. Other garage door sizes and side doors can deviate from the illustration shown.

You need the right accessories to go with your hardware of choice.

Because people make different choices, and because the structural conditions for a garage or a sliding door can vary, we offer a wide range of accessories so that you can upgrade our systems to match your own personal requirements. You'll find a selection of the most important accessories on these pages.

Fingerprint



Signal 601 fingerprint scanner
Impulse triggered by memorized fingerprint, can memorize up to 150 signals, protection type IP 65

Remote control



Mini-Novotron 522 Design remote control
2-channel, 433 MHz, KeeLoq rolling code



Mini-Novotron 524 Design remote control
4-channel, 433 MHz, KeeLoq rolling code



Mini-Novotron 522 remote control
2-channel, 433 MHz, KeeLoq rolling code



Mini-Novotron 524 remote control
4-channel, 433 MHz, KeeLoq rolling code

These remote controls are equipped with AES 128 bit encryption to offer maximum security.



Mini-Novotron 502 hand transmitter
2-channel, 433 MHz, KeeLoq rolling code



Mini-Novotron 504 remote control
4-channel, 433 MHz, KeeLoq rolling code



Micro-Novotron 512 remote control
2-channel, 433 MHz, KeeLoq rolling code



Micro-Novotron 512 Design remote control
2-channel, 433 MHz, KeeLoq rolling code



HS Wall bracket
with sunshade clip for Mini-Novotron 502/ 504 and for Micro-Novotron 512/ 512 Design



Mini-Novotron 401/ 404 remote control
Multibit, 1 channel, 433 MHz/ Multibit, 4 channels, 433 MHz



Wall mounting / silicon case
Suitable for use as a case and wall bracket for Mini-Novotron 522 Design/ 524 Design and Mini-Novotron 522/ 524

All remote controls are compatible with our existing operators.

Key switches



Signal 312 key switch
Flush-mounted, single switch pulse (1 garage door)



Signal 313 key switch
Flush-mounted, double switch pulse (2 garage doors)



Signal 412 key switch
Surface-mounted, single switch pulse (1 garage door)



Signal 413 key switch
Surface-mounted, double switch pulse (2 garage doors)

Battery models



Battery pack
Rated voltage: 12 V DC, rated capacity: 15 Ah, service life: 40 days for a maximum of 4 openings a day and a temperature of 20 °C, temperature range: - 15 ° to + 45 °C, integrated charge controller for mains power pack
• Suitable for:
Novomatic 423 Accu



Solar module
Output: Pmax 10 Wp, open circuit voltage 21.5 V, current at Pmax: 0.5 A, dimensions: 370 x 310 mm
• Suitable for:
Novomatic 423 Accu

Better safe than sorry.

While easy operation is important, the safety of an automatic door system is even more so. Contactless opto sensors are easy to install and ensure safety in the garage door's area of movement. If the garage does not have a second entrance, emergency unlocking allows you to open the garage door from outside in case of a power cut.

Radio keypads



Signal 111 wall-mounted radio keypad
2 channels, 433 MHz, KeeLoq rolling code for controlling 2 operators or 1 operator and 1 outside lighting, made of UV-resistant material, available in a choice of black or white



Signal 218 radio coded keypad
10 codes, 433 MHz, KeeLoq rolling code with stainless steel cover, backlit, made of UV-resistant material, available in a choice of black or white

A video about the radio keypads can be found on the Novoferm YouTube channel: www.youtube.com/NovofermVideos

Keypads



Signal 112 wall-mounted keypad
Start key, holiday switch, continuous light (On/Off), 24 V connection to the operator, made of UV-resistant material, available in a choice of black or white



Signal 213 coded keypad
3 signals, metal keypad, 230 V connection

Opto sensors



Extra 625 one-way opto sensor
• 24 V DC, IP 54
• Range: 8 m
• Suitable for:
All operator models



Einweg-Lichtschanke Extra 626
• 20-28 V, IP 50, 2 wire
• Range: 8 m
• Suitable for:
Novomatic 423 563 S
NovoPort®



Extra 628 reflection light opto sensor
• 24-240 V AC, 12-240 V DC, IP 54
• Range: 5 m
• Can only be used as a pulse generator



Extra 315 emergency unlocking
• With safety profile half cylinder

See the full range of accessories at www.novoferm.de or ask your dealer.

Technical data for up-and-over doors at a glance

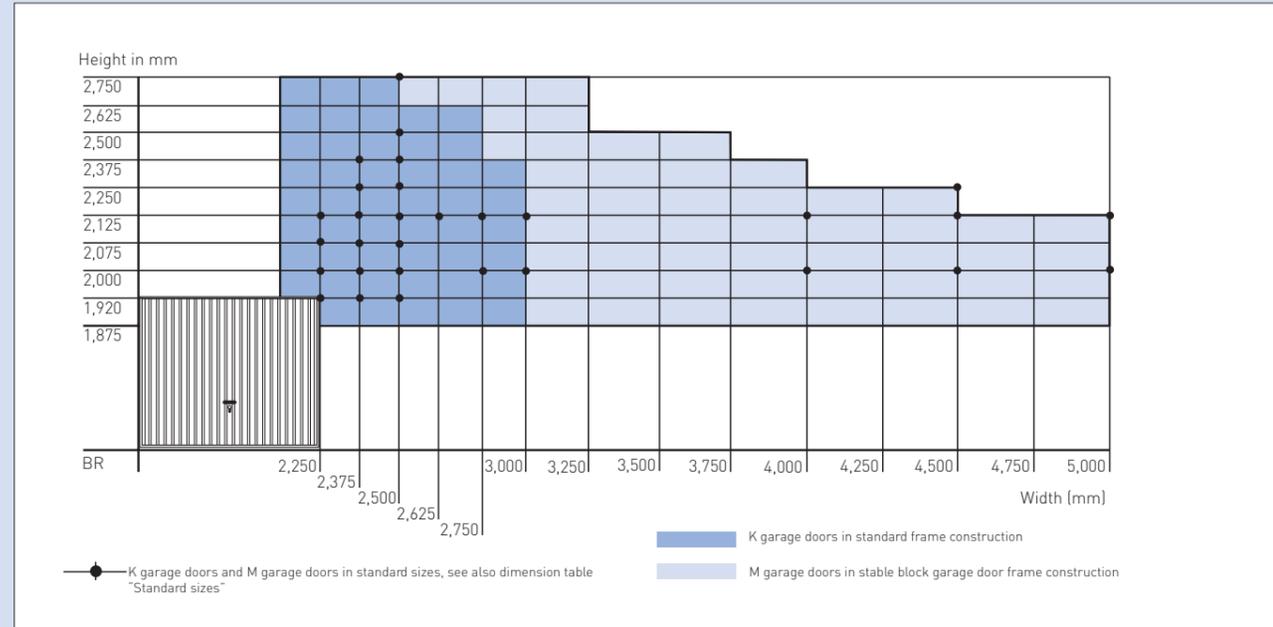
Novoferm K® up-and-over garage door

Standard sizes of K® up-and-over garage door for single garages (depending on garage door motif)

Order size Coordinating size		Outer frame height		Clear passage dimensions		Installation behind the opening Installation area		Installation in the opening Finished dimensions	
Width	Height	Width	Height	Width	Height*	Width	Height	Width	Height
2250	1920	2341	1985	2107	1780	2250 [2205-2330]	1920 [1890-1950]	2361	1965
	2000	2341	2065	2107	1860	2250 [2205-2330]	2000 [1970-2030]	2361	2045
	2075	2341	2140	2107	1935	2250 [2205-2330]	2075 [2045-2105]	2361	2120
	2125	2341	2190	2107	1985	2250 [2205-2330]	2125 [2095-2155]	2361	2170
2375	1920	2466	1985	2232	1780	2375 [2330-2455]	1920 [1890-1950]	2486	1965
	2000	2466	2065	2232	1860	2375 [2330-2455]	2000 [1970-2030]	2486	2045
	2075	2466	2140	2232	1935	2375 [2330-2455]	2075 [2045-2105]	2486	2120
	2125	2466	2190	2232	1985	2375 [2330-2455]	2125 [2095-2155]	2486	2170
	2250	2466	2315	2232	2110	2375 [2330-2455]	2250 [2220-2280]	2486	2295
	2375	2466	2440	2232	2235	2375 [2330-2455]	2375 [2345-2405]	2486	2420
2500	1920	2591	1985	2357	1780	2500 [2455-2580]	1920 [1890-1950]	2611	1965
	2000	2591	2065	2357	1860	2500 [2455-2580]	2000 [1970-2030]	2611	2045
	2075	2591	2140	2357	1935	2500 [2455-2580]	2075 [2045-2105]	2611	2120
	2125	2591	2190	2357	1985	2500 [2455-2580]	2125 [2095-2155]	2611	2170
	2250	2591	2315	2357	2110	2500 [2455-2580]	2250 [2220-2280]	2611	2295
	2375	2591	2440	2357	2235	2500 [2455-2580]	2375 [2345-2405]	2611	2420
2625	2500	2591	2565	2357	2360	2500 [2455-2580]	2500 [2470-2530]	2611	2545
	2750	2591	2815	2357	2610	2500 [2455-2580]	2750 [2720-2780]	2611	2795
	2125	2716	2190	2482	1985	2625 [2580-2705]	2125 [2095-2155]	2736	2170
2750	2000	2841	2065	2607	1860	2750 [2705-2830]	2000 [1970-2030]	2861	2045
	2125	2841	2190	2607	1985	2750 [2705-2830]	2125 [2095-2155]	2861	2170
3000	2000	3091	2065	2857	1860	3000 [2955-3080]	2000 [1970-2030]	3111	2045
	2125	3091	2190	2857	1985	3000 [2955-3080]	2125 [2095-2155]	3111	2170

* Garage doors with 30 mm recess (rebate)

Overview of size ranges for up-and-over doors: Standard and special sizes



Novoferm K® up-and-over garage door

Installation

Co-ord. height order size	RAMH	DH min.	LFH min.	LDH	EBT	EBTA	UK-LS	R
1,920	1,985	1,965	1,890	1,780	1,925		1,775	957,5
2,000	2,065	2,045	1,970	1,860	2,005	BDIP10	1,855	997,5
2,075	2,140	2,120	2,045	1,935	2,080	2741	1,930	1,035
2,125	2,190	2,170	2,095	1,985	2,130		1,980	1,060
2,250	2,315	2,295	2,220	2,110	2,255		2,105	1,122,5
2,375	2,440	2,420	2,345	2,235	2,380		2,230	1,185,5
2,500	2,565	2,545	2,470	2,360	2,505	BDIP20	2,355	1,247,5
2,625	2,690	2,670	2,595	2,485	2,630	3255	2,480	1,310,5
2,750	2,815	2,795	2,720	2,610	2,755		2,605	1,372,5

BRH = Coordinating height (order size)
 RAMH = Outer frame height—height = co-ord. height +65
 DH min. = Ceiling height min. = BRH +45
 LFH min. = Clear finished height min. = co-ord. height -30
 LDH = Clear passage height = BRH -140
 EBT = Installation depth = BRH +5
 UK-LS = Track bottom-edge = BRH -145
 R = Opening radius

BRH Bestellmaß	RAMH	DH min.	LFH min.	LDH	EBT	EBTA	UK-LS	R
1,920	1,985	1,965	1,890	1,780	1,925		1,775	957,5
2,000	2,065	2,045	1,970	1,860	2,005	BDIP10	1,855	997,5
2,075	2,140	2,120	2,045	1,935	2,080	2741	1,930	1,035
2,125	2,190	2,170	2,095	1,985	2,130		1,980	1,060
2,250	2,315	2,295	2,220	2,110	2,255		2,105	1,122,5
2,375	2,440	2,420	2,345	2,235	2,380		2,230	1,185,5
2,500	2,565	2,545	2,470	2,360	2,505	BDIP20	2,355	1,247,5
2,625	2,690	2,670	2,595	2,485	2,630	3255	2,480	1,310,5
2,750	2,815	2,795	2,720	2,610	2,755		2,605	1,372,5

BRH = Coordinating height (order size)
 RAMH = Outer frame height—height = co-ord. height +65
 DH min. = Ceiling height min. = BRH +45
 LFH min. = Clear finished height min. = co-ord. height -30
 LDH = Clear passage height = BRH -140
 EBT = Installation depth = BRH +5
 UK-LS = Track bottom-edge = BRH -145
 R = Opening radius

Order size BRB	RAMB	LFB min.	LDB	GIB min.
2,250	2,341	2,205	2,107	2,361
2,375	2,466	2,330	2,232	2,486
2,500	2,591	2,455	2,357	2,611
2,625	2,716	2,580	2,482	2,736
2,750	2,841	2,705	2,607	2,861
3,000	3,091	2,955	2,857	3,111

BRB = Coordinating width (order size)
 RAMB = Outer frame width = BRB +91
 LFB min. = Clear finished width min. = BRB-45
 LDB = Clear passage width = BRB -143
 GIB min. = Garage inside width min. = BRB +111

Technical data for up-and-over doors at a glance

Novoferm M® up-and-over garage door

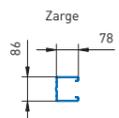
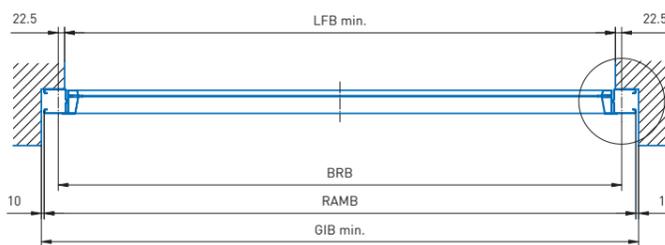
Standard sizes of up-and-over door M® for double garages (depending on garage door motif)

Order size		Outer frame height		Clear passage dimensions		Installation behind the opening		Installation in the opening	
Width	Height	Width	Height	Width	Height*	Width	Height	Width	Height
4000	2000	4100	2070	3780	1870	4000 [3955-4070]	2000 [1970-2035]	4120	2060
	2125	4100	2195	3780	1995	4000 [3955-4070]	2125 [2095-2160]	4120	2185
4500	2000	4600	2070	4280	1870	4500 [4455-4570]	2000 [1970-2035]	4620	2060
	2125	4600	2195	4280	1995	4500 [4455-4570]	2125 [2095-2160]	4620	2185
	2250	4600	2320	4280	2120	4500 [4455-4570]	2250 [2220-2285]	4620	2310
5000	2000	5100	2070	4780	1870	5000 [4955-5070]	2000 [1970-2035]	5120	2060
	2125	5100	2195	4780	1995	5000 [4955-5070]	2125 [2095-2160]	5120	2185

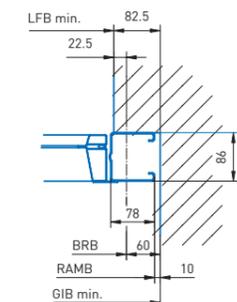
* Garage doors with 30 mm recess (rebate)

Installation

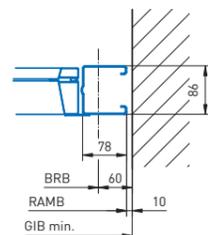
Installation behind the opening



Installation in the opening



Installation in the opening

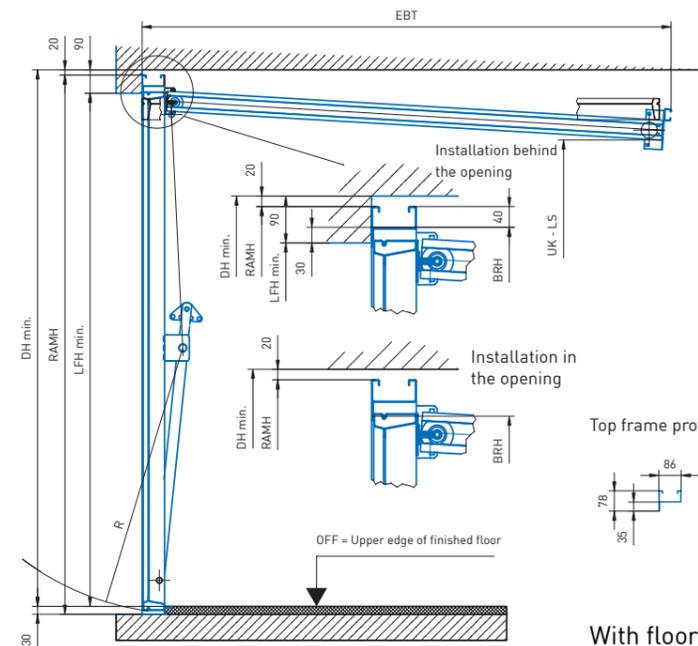


BRB	RAMB	LFB min.	LDB	GIB min.
2,000	2,100	1,955	1,780	2,120
2,250	2,350	2,205	2,030	2,370
2,500	2,600	2,455	2,280	2,620
2,750	2,850	2,705	2,530	2,870
3,000	3,100	2,955	2,780	3,120
3,250	3,350	3,205	3,030	3,370
3,500	3,600	3,455	3,280	3,620
3,750	3,850	3,705	3,530	3,870
4,000	4,100	3,955	3,780	4,120
4,250	4,350	4,205	4,030	4,370
4,500	4,600	4,455	4,280	4,620
4,750	4,850	4,705	4,530	4,870
5,000	5,100	4,955	4,780	5,120

Co-ord. height = Co-ordinating height (order size)
 RAMB = Outer frame width - width
 = co-ord. width +100
 LFB min. = Clear finished width min. = BRB -45
 LDB = Clear passage width
 = BRB -220
 GIB min. = Garage inside width min.
 = BRB +120

Novoferm M® up-and-over garage door

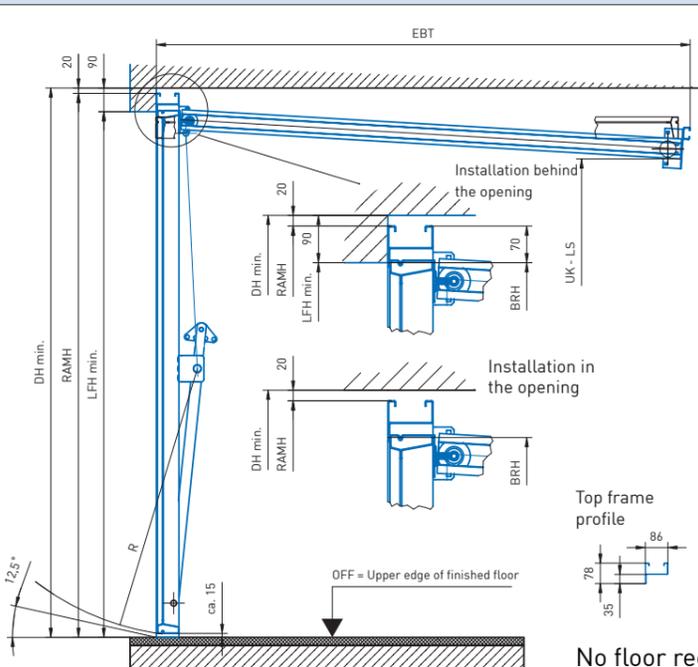
Installation



BRH	RAMH	DH min.	LFH min.	EBT	UK-LS	R
2,000	2,070	2,060	1,970	2,030	1,790	1,022,5
2,125	2,195	2,185	2,095	2,155	1,915	1,085
2,250	2,320	2,310	2,220	2,280	2,040	1,147,5
2,375	2,445	2,435	2,345	2,405	2,165	1,210
2,500	2,570	2,560	2,470	2,530	2,290	1,272,5
2,625	2,695	2,685	2,595	2,655	2,415	1,335
2,750	2,820	2,810	2,720	2,780	2,540	1,397,5

Co-ord. height = Co-ordinating height (order size)
 RAMH = Outer frame height—height = co-ord. height +70
 DH min. = Ceiling height min. = BRH +60
 LFH min. = Clear finished height min. = co-ord. height -30
 EBT = Installation depth = BRH +30
 UK-LS = Track bottom-edge = BRH -210
 R = Opening radius
 LDH = Clear passage height
 = UK - LS

With floor recess



BRH	RAMH	DH min.	EBT	UK-LS	R
2,000	2,070	2,090	2,030	1,820	1,022,5
2,125	2,195	2,215	2,155	1,945	1,085
2,250	2,320	2,340	2,280	2,070	1,147,5
2,375	2,445	2,465	2,405	2,195	1,210
2,500	2,570	2,590	2,530	2,320	1,272,5
2,625	2,695	2,715	2,655	2,445	1,335
2,750	2,820	2,840	2,780	2,570	1,397,5

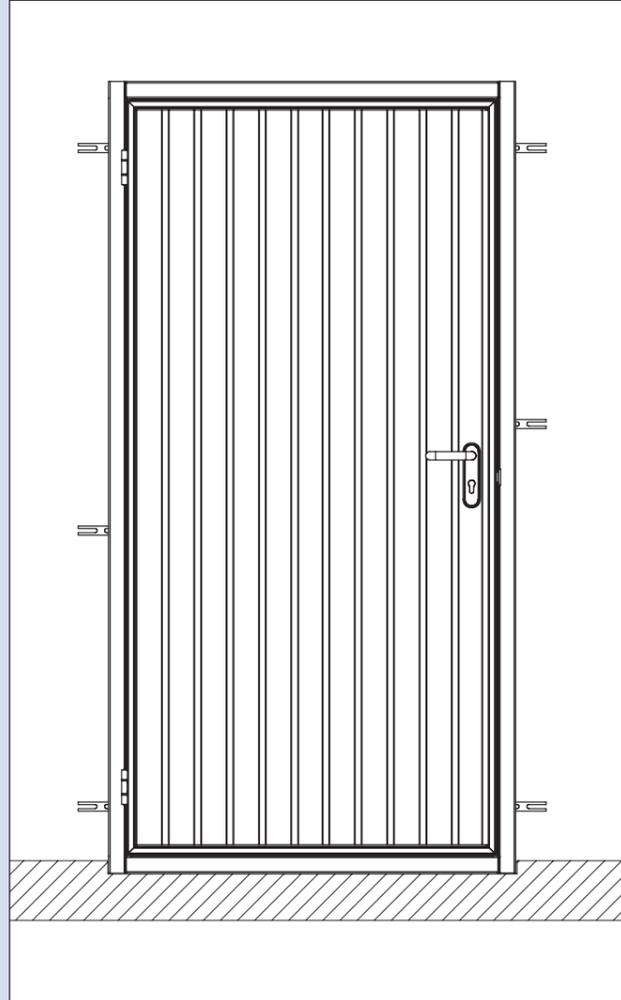
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 R = Opening radius
 LDH = Clear passage height
 = UK - LS

No floor recess

Technical data for up-and-over doors at a glance

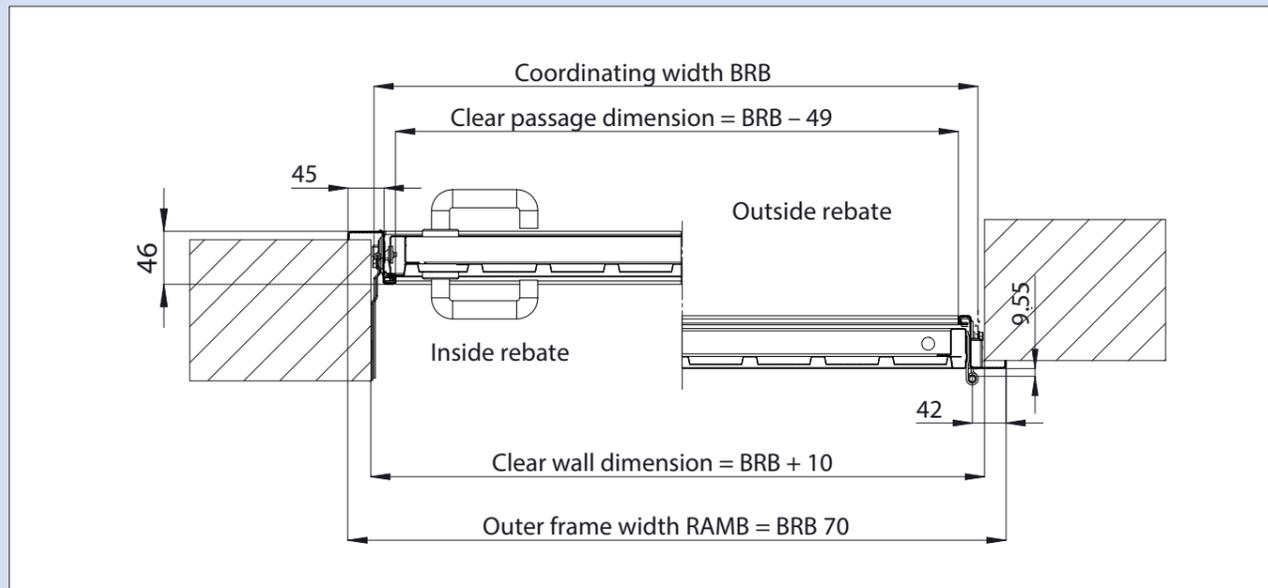
Novoferm side doors

Front view with anchor arrangement

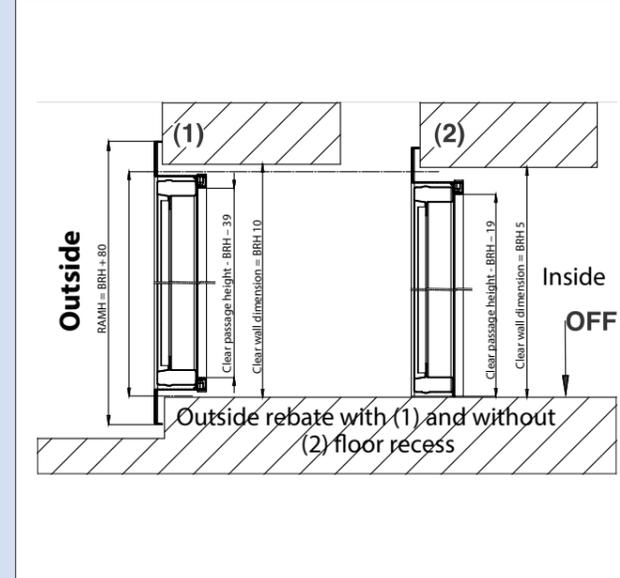


The opening direction and the type of rebate must be stated in orders for side doors to be filled by customer, timber planking, raised-panel design, and all special designs. Rebates are always outside on timber-planked frames.

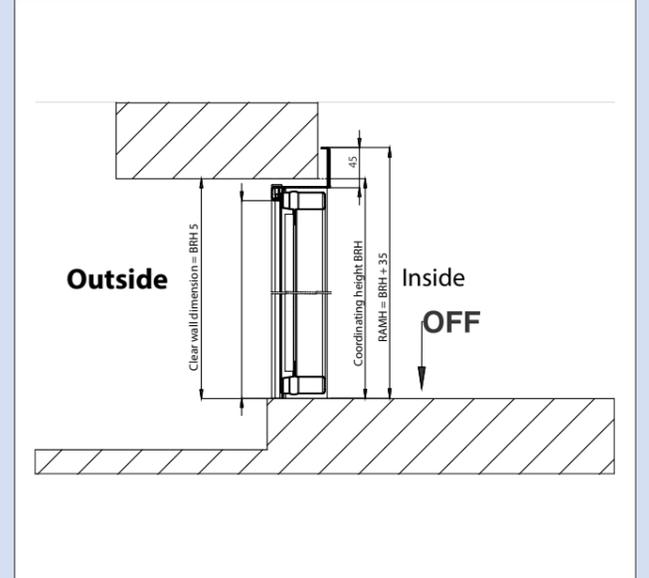
Horizontal section (inside rebate)



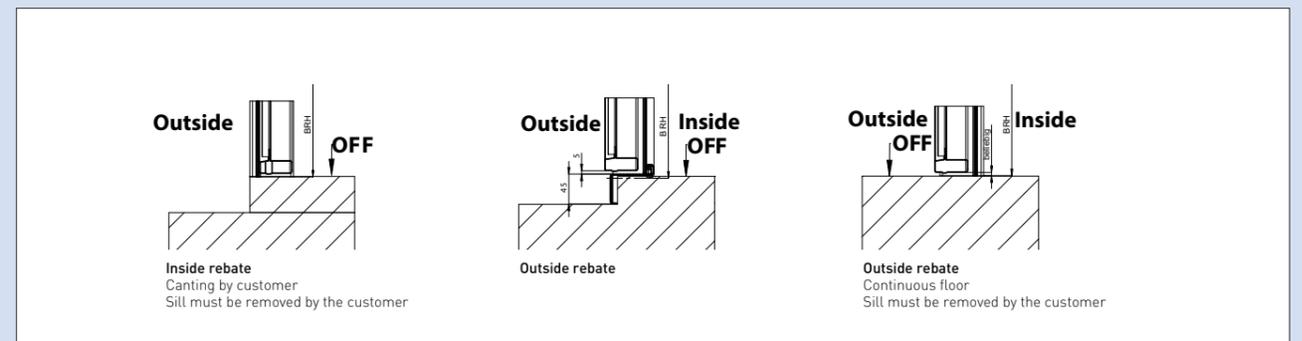
Installation with outside rebate



Installation with inside rebate



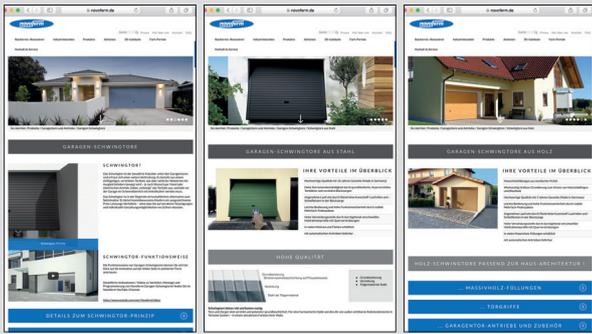
Closing mechanisms



Novomatic 423, Novomatic 423 Accu, Novomatic 563 S and Novomatic 823 S

Technical data	Novomatic 423	Novomatic 423 Accu	Novomatic 563 S	Novomatic 823 S
Push and pull	600 N	400 N	800 N	1000 N
Mains connection	230 V/50 Hz	-	230 V/50 Hz	230 V/50 Hz
Mains cable	with Euro plug, 2 pin, 1 m long	Battery connecting cable, 2 m long	with Euro plug, 2 pin, 1 m long	with Euro plug, 2 pin, 1 m long
Power-on time	30 % ED	-	30 % ED	30 % ED
Operating current	0.7 A	0.7 A	1.25 A	2.0 A
Temperature range	-20° – +60°C	-15° – +45 °C	-20° – +60°C	-20° – +60°C
Motor operating voltage	24 V	12 V	24 V	24 V
Gear	Enclosed worm gear, self-locking			
Power consumption in operation	160 W	160 W	240 W	410 W
Power consumption in standby	< 0.5 W	4 mW	< 0.5 W	< 4 W
Protection class	For use in dry areas only (IP 22)	For use in dry areas only (IP 22)	For use in dry areas only (IP 20)	For use in dry areas only (IP 20)
Running speed	15 cm/s (soft start, soft stop = 7 cm/s)	13 cm/s (soft start, soft stop = 7 cm/s)	Opening speed: 22 cm/s (soft start, soft stop = 7 cm/s) Closing speed: 17 cm/s (soft start, soft stop = 7 cm/s) With ramp function	Opening speed: 22 cm/s (soft start, soft stop = 7 cm/s) Closing speed: 17 cm/s (soft start, soft stop = 7 cm/s) With ramp function
Control	Microprocessor control in motor head			
Programming	Menu-guided, with 7 segment display			
Control sequence	1. Pulse = operator runs 2. Pulse = operator stops 3. Pulse = running direction reverses	1. Pulse = operator runs 2. Pulse = operator stops 3. Pulse = running direction reverses	1. Pulse = operator runs 2. Pulse = operator stops 3. Pulse = running direction reverses	1. Pulse = operator runs 2. Pulse = operator stops 3. Pulse = running direction reverses
Wireless control	433 MHz with KeeLoq rolling code	433 MHz with KeeLoq rolling code	433 MHz with KeeLoq rolling code	433 MHz KeeLoq (up to 30 signals) or Multibit (up to 1000 signals) receiver
Wall switches	Can be supplied as an extra			
Quick release from the inside	Standard, actuated from the inside, with permanent release function	Standard, actuated from the inside, with permanent release function	Standard, actuated from the inside, with permanent release function	Standard, actuated from the inside, with permanent release function
Emergency release from the outside	Can be supplied as an extra			
Inside garage lighting	Power LED, 1.6 W adjustable from 60 – 240 s with/without warning	Power LED, 0.4 W, adjustable 30, 60 or 90 s	Power LED, 1.6 W adjustable from 60 – 240 s with/without warning	Power LED, 1.6 W adjustable from 60 – 240 s with/without warning current pulse switch "ELTako" for staircase light available
Outside garage lighting	Outside lighting max. 500 W or warning lamp, can be directly connected	-	Outside lighting max. 500 W or warning light, directly connectable	max. 500 W external lighting or warning lamp, can be directly connected
Air vent settings	Programmable	-	Programmable	Programmable
Automatic shutdown	Can be separately adjusted for both running directions (micro-adjustable in 10 steps)	Can be separately adjusted for both running directions (micro-adjustable in 10 steps)	Can be separately adjusted for both running directions (micro-adjustable in 10 steps)	Can be separately adjusted for both running directions (micro-adjustable in 10 steps)
Security device	Automatic power adjustment with dual processor security technology: reverses when closing, partially reverses before close position (soft stop), stops when opening	Automatic power adjustment with dual processor security technology: reverses when closing, partially reverses before close position (soft stop), stops when opening	Automatic power adjustment with dual processor security technology: reverses when closing, partially reverses before close position (soft stop), stops when opening	Automatic power adjustment with dual processor security technology: reverses when closing, partially reverses before close position (soft stop), stops when opening
Limit shutdown	Microprocessor-controlled distance detection with reference point			
Running time limiter	Motor is automatically shut down after running for 90 s	Motor is automatically shut down after running for 90 s	Motor shutdown is detected in addition to the automatic shutdown device	Motor is automatically shut down after running for 90 s
Blocking protection	Motor shutdown is detected in addition to the automatic shutdown device	Motor shutdown is detected in addition to the automatic shutdown device	zusätzlich zur Abschaltautomatik wird Motorstillstand erkannt	Motor shutdown is detected in addition to the automatic shutdown device
Push-up safeguard	Ensured by self-locking gear motor and additional mechanical locking of the top door rollers (sectional garage doors)	Ensured by self-locking gear motor and additional mechanical locking of the top door rollers (sectional garage doors)	Ensured by self-locking gear motor and additional mechanical locking of the top door rollers (sectional garage doors)	Ensured by self-locking gear motor and additional mechanical locking of the top door rollers (sectional garage doors)
Track	Galvanized steel profile with toothed belt and ball-bearing deflectors	Galvanized steel profile with toothed belt and deflectors	Galvanized steel profile with toothed belt and ball-bearing deflectors	Galvanized steel profile with toothed belt and ball-bearing deflectors
CE symbol	yes	yes	yes	yes
App-enabled	yes	no	yes	no
90° installation	yes	yes	yes	yes

Novoferm – active on all online media for you!

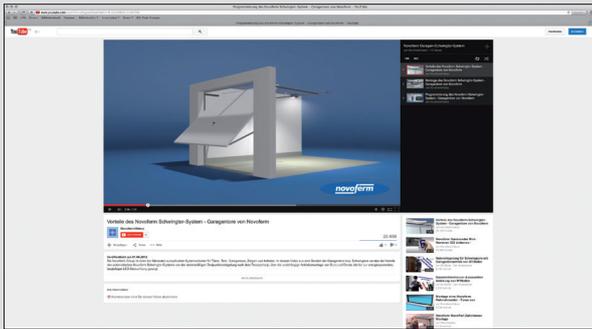


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Novoferm Group is one of Europe's leading system suppliers of doors, garage doors, frames and operators. We offer a broad range of products and services for private, commercial and industrial applications. All our products are manufactured to the highest standards of quality and reflect best engineering practice. We combine maximum functionality with innovative design. We manufacture our products in various international locations and with our Europe-wide network we are always available to help you – wherever you are!

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