



Connecting rooms with Roto

Architecture for the people



Architecture is the art of building

Stability, functionality, aesthetics – added value with Roto

Architecture is one of the oldest and most important arts – the proverbial roof over your head, a basic human need. Outstanding architects take the technology required for a building and harmonise it with the desired aesthetic to create results that are exceptional in every respect.

Unobtrusive progress

Such results fulfil the highest possible standards. Often only discovered at second glance, they can be found in every detail: visually unobtrusive, using regional materials and the latest technology, the sustainably designed new office and commercial building blends into its surroundings opposite Stuttgart's Stiftskirche church.

This concept includes floor-to-ceiling windows that give the office and commercial building a bright and friendly atmosphere.

Of course, in buildings like this, the focus is on functionality and stability; but an attractive aesthetic creates added value. In this respect, the Roto Tilt&Turn windows installed fully meet the principles of Vitruvius, whereby strength and utility must be combined with beauty.

These basic principles of architecture can be found in every Roto Window and Door Technology product, regardless of the type of building in which they are used.



Office and commercial building, Stiftstraße 3, Stuttgart, Germany

Completed: 2019

Architect: Wulf Architekten

Roto's solution: Roto NX Designo (timber-aluminium)



Hospitalhof cultural centre, Stuttgart, Germany

Completed: 2014

Architect: LRO Architekten (Lederer Ragnarsdóttir Oei)

Roto's solution: Roto NX Designo (timber and timber-aluminium)

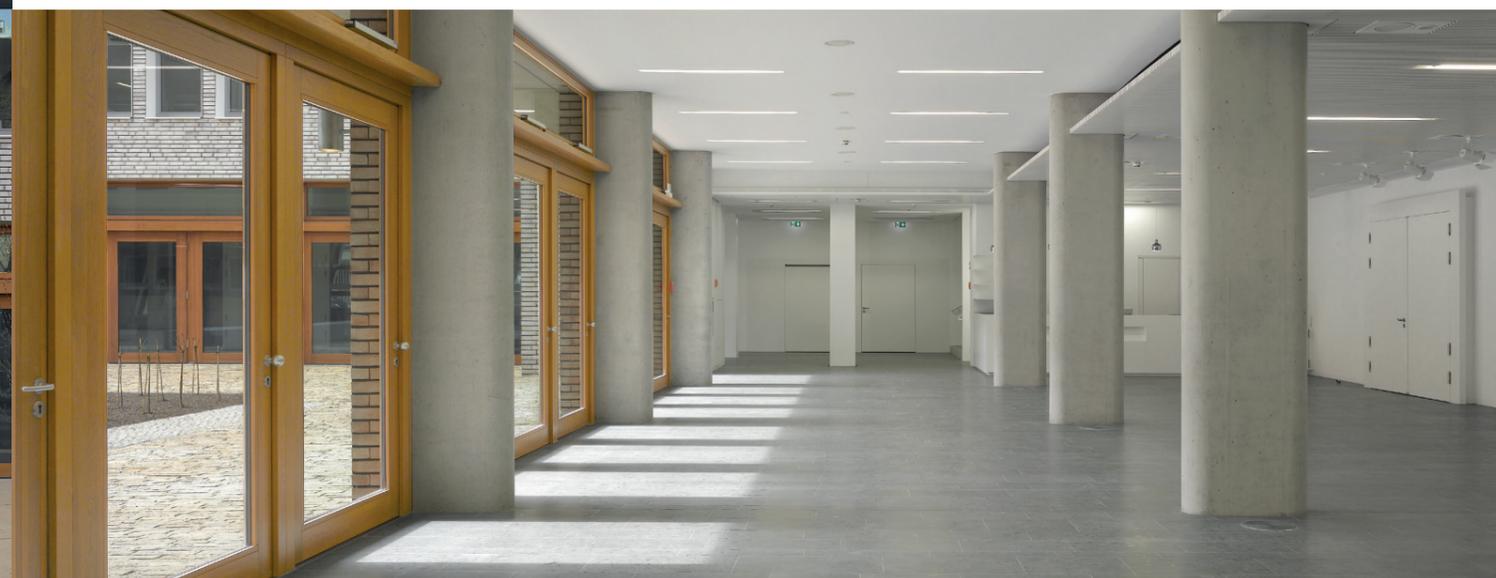
Perfectly formed visions

Architects are artists in construction: they do not simply plan a building, but enhance the environment with their work.

They do not let their creativity run wild, but empathise with the environment and craft ideas in perfect harmony with it.

That's why they need partners who can support these ideas with coherent solutions. If a building requires some round windows instead of the classic rectangles, they must work just as securely and be just as easy and pleasing to use. The same applies to windows with special formats and also for plans with unusual types of material.

As a trusted partner, Roto supports the realisation of architectural visions for all kinds of building.





Residential and commercial building, Buggi 52, Freiburg, Germany

Completed: 2021

Architect: Weissenrieder Architekten BDA

Roto's solution: Roto NX (timber)

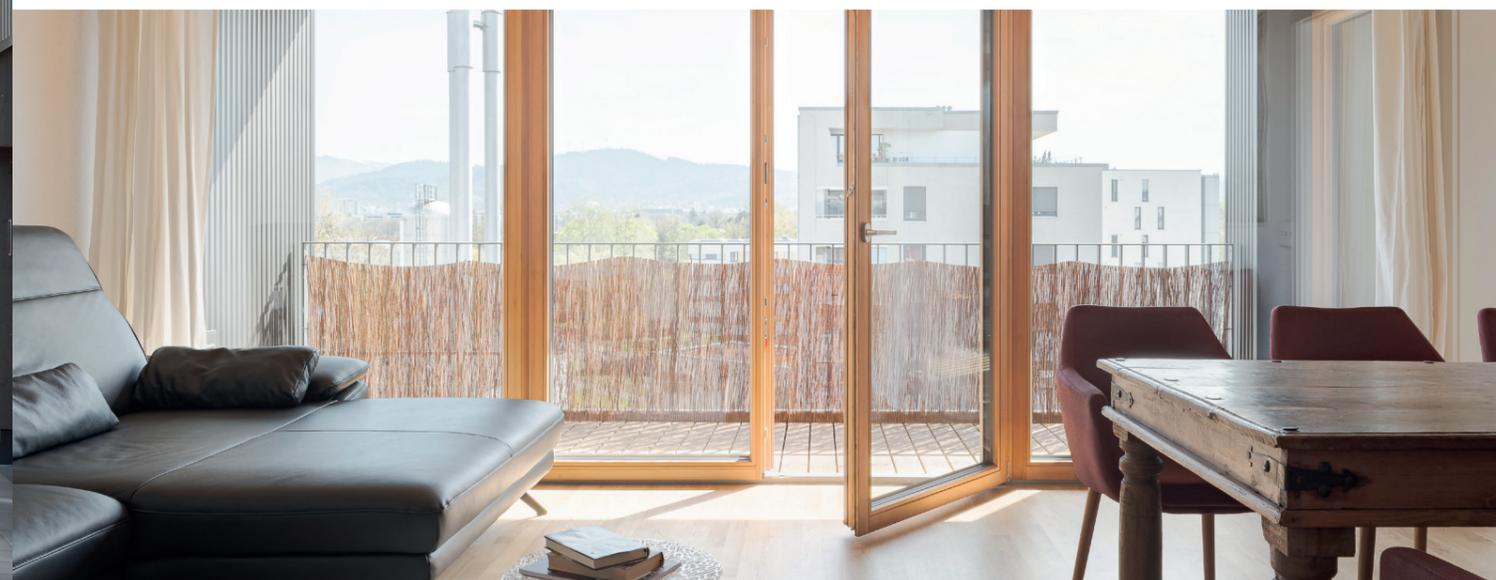
Innovations in timber

The tallest all-timber building in Germany to date is located in the Weingarten district of Freiburg and houses a supermarket, a daycare centre with a large outdoor area, and 30 predominantly accessible residential units.

The Buggi 52 construction was the first FSC-certified timber building in Germany to be erected in just eight weeks, thanks to meticulous planning and a high degree of prefabrication.

Even in a building such as this, with its abundance of natural wood surfaces inside and out, the windows should not disrupt the style. Therefore, the natural choice was Roto Tilt&Turn solutions for timber windows.

The 140 windows with the durable Roto NX Tilt&Turn hardware were installed during the prefabrication stage, and now provide the interiors with plenty of light, creating a relaxed atmosphere throughout.





Semi-detached house, Nürtingen, Germany

Completed: 2022

Architect: Jan-André Meyer

Roto's solution: Roto Patio Life and Roto NX Designo

Perfect integration

Planning today for the standards of tomorrow?
And with a magnificent view in all directions?

Here, the residents look out over the Swabian Jura from their spacious zero-energy house that is perfectly integrated into the landscape, enjoying how their building connects with its surroundings. The patio area of both homes join the garden to become an additional living space, while large openings on all sides allow an extraordinary amount of light to flood the interior.

The requirement for a building like this with a neutral energy footprint is, of course, that in addition to producing its own energy, losses must be kept to a minimum. This and the desired comfort are provided by the concealed Roto Designo Tilt&Turn hardware and the innovative Lift&Slide hardware Life from the Roto Patio range. Roto Patio Life tightly seals the balcony doors, and also enables secured night ventilation that is invisible from the outside when the door is completely locked.





Music Centre, Plochingen, Germany

Completed: 2021

Architect: LRO Architekten (Lederer Ragnarsdóttir Oei)

Roto's solution: Roto NX (timber-aluminium)

Masterful design

The construction of public buildings is a special challenge for all parties involved: the function of a building and its future user groups must be taken into consideration during planning. Public buildings are also subject to special requirements in terms of fire protection, security and more.

All of this must be taken into account in the early stages of planning so that the optimal solutions can be found. While large-format windows and balcony doors are often preferred in the private sector, the focus in public buildings is on security, stability and energy efficiency. Windows must be intuitive for anyone to open, and designed to prevent incorrect operation.

Roto NX offers a wide range of hardware and hinge side solutions for the public sector, from the high-performance Power Hinge for particularly heavy window sashes to the concealed Designo hinge side.

Pioneering hardware such as TiltSafe for burglary protection when windows are tilted, and the TiltFirst solution, which allows users to tilt the window but not open it completely when the window handle is locked, complete the range. When the handle is in the horizontal position, these tilted TiltFirst windows are so securely locked in place that even a gust of wind will not close them.

Tall buildings sometimes have very narrow Turn-Only sashes fitted that prevent falls, but still provide natural ventilation of the room.





Newfoundland, London, UK

Completion: 2021
Architect: Horden Cherry Lee Architects
Roto's solution: Roto Patio Inowa (aluminium)



Wood Wharf, London

Completed: expected 2023
Architect: Allies and Morrison (Masterplan), Darling Associates, KPF, Herzog & de Meuron, Pilbrow & Partners, Stanton Williams Architects, Grid Architects and Patel Taylor.
Roto's solution: Roto Patio Inowa (aluminium)



Room scenarios

Roto Patio Inowa – intelligent and tightly sealed

Are you aiming to meet high standards?
And facing an ever-increasing choice of possible sliding elements?

Welcome to the world of Roto Patio Inowa! From tiny sliding elements to extremely large ones, with this hardware system practically every wish can come true. It is easy to operate, thanks to the closing movement perpendicular to the frame, and boasts a tight seal. Roto Patio Inowa is suitable for sliding sashes up to 3000 mm wide and 3600 mm high. This allows visions to become reality.

Open, friendly and inviting

Large glass fronts not only look incredibly elegant, they also bring a special atmosphere to naturally bright rooms.

Huge glass elements are one of the global trends in modern architecture. However, at the same time, requirements for quality and performance are becoming stricter for hardware on large sliding windows and sliding doors.

Roto Patio Inowa embodies an innovative new technology that enables construction projects to be implemented with a single hardware system – from small sliding windows to ceiling-height sliding elements. It's never been simpler or more appealing to bring the outdoors indoors.

Smart sliding – Less effort – More free space

Using Roto Patio Inowa, even heavy sashes of large sliding elements can be opened and closed with ease.



Video of Roto Patio Inowa

<https://youtu.be/SOMSWLdBxiM>



We understand sliding technology

Opening and closing a sliding window is only the proverbial child's play when it is fully mounted on rollers and does not have to be lifted, making it both intuitive and safe.

Roto Patio Inowa meets these criteria with flying colours. The hardware is mounted on roller bearings and is easy to operate, requiring little effort as it simply moves perpendicular to the frame profile to open and close. If desired, the handle can be located on the lower horizontal frame, for example, when the sash is installed higher, and, of course, insect protection and fall protection can be integrated.

Roto Patio Inowa is setting new standards

This hardware remains reliably tightly sealed, even in bad weather conditions with storms and heavy rain.

No draughts can be felt, no sashes slam open and closed. The circumferential gasket prevents the ingress of air and rain and, together with the locking points, plays an active role in saving on heating and air-conditioning costs. Additionally, this hardware can be designed to effectively protect against outside noise, making it ideal for areas with heavy traffic or near airports.

Perfect for schools and hotels, too

The SoftOpen and SoftClose comfort functions ensure controlled opening and closing of the sliding windows. This ensures the sashes move smoothly, are always stable, and are also suitable for constantly changing users.



Living by the sea – Raising the standards

First lift, then open: Lift&Slide doors with Roto Patio Lift offer the freedom to create large openings with their own individual design.

Roto Patio Lift – New perspectives

Living areas with large glass surfaces provide inspiration and open up whole new perspectives and points of view.

Large glass surfaces for well-lit spaces and exclusive panoramic views: Lift&Slide systems create a seamless transition from inside to outside with generous doorways that can be opened and closed with minimal effort.

Roto Patio Lift is hardware for versatile use. This hardware makes it possible to create contemporary living areas thanks to large window formats combined with narrow profile views. For rooms that can be transformed into extended balcony, terrace and garden areas in next to no time.



Living in high locations – Generous views

Roto NX | Power Hinge is a unique solution specifically for floor-to-ceiling windows and balcony doors made of timber and timber-aluminium

Roto NX | Power Hinge – Sophisticated down to the smallest detail

Open-plan rooms inspire and motivate.

They broaden horizons in the truest sense of the word by taking away the boundaries between inside and outside.

The trend is towards ever larger glass surfaces and considerably higher sash weights, which are often encountered in energy-saving windows with multiple glazing.

Here, the aesthetic hinge solution for particularly heavy and large windows and balcony doors made of timber or timber-aluminium is a real eye-catcher. Tilt&Turn sashes weighing up to 200 kg and Turn-Only sashes up to as much as 300 kg, paired with security components from the Roto NX modular system, make this hinge side a favourite for those who want to offer their customers generous views.



Security and design – Why compromise, when you can have both?

With Roto Solid C, the door hinges are completely concealed, making the door look even more discreet and elegant. With particularly good durability properties and burglary inhibition up to RC2, it meets all requirements in terms of security.

Roto Door – Elegance and security combined

Entrance and back doors are pivotal elements of every building. Whether their design is full of contrasts or homogeneous, eye-catching or subtle – doors shape rooms, offer protection and unlock opportunities for new ideas.

Roto produces exemplary mechanics so that these architectural highlights not only look good but also function perfectly. Innovative cutting-edge technology that leaves nothing to be desired when it comes to quality, individuality and flexibility.

Roto Safe E

In combination with the ZKS 4in1 access control system, the fully motorised Eneo CC multipoint lock enables opening and closing without a key, thus offering the highest level of operating convenience. No compromises are made in terms of security, of course: thanks to the convenient opening, locked main doors can be opened from inside at any time using a door lever handle. This means that the house is always secure even when no one is at home, while the automatic locking offers protection against burglary and theft.

Roto Solid C

With their distinct, slim outline, the Roto Solid C concealed main door hinges are the elegant solution for aluminium doors. The door design and facade are accentuated here without interrupting the line layout.



Comfort and security – Perfectly combined

Peace of mind is an amazing feeling: the Roto Safe A automatic bolt locks the main door automatically, reliably and securely.

Roto Door – Entrance doors with character

The technical demands on doors are increasing. At the same time, these are an expression of an individual lifestyle and personal interior design. Roto Door offers a complete, cleverly interlinked portfolio of innovative technology, convenient operation, reliable security, certified durability and aesthetic design.

Roto Safe A

The new generation of automatic multipoint locks meets the most demanding requirements for comfort and security. Main doors can be locked automatically, reliably and securely without the need for a key. A key can always be used for opening. Even greater comfort is guaranteed by the variant with additional drive unit in conjunction with an access control system: the door can then be opened either with a hand-held transmitter, finger scan, PIN code or mobile phone.

Roto Solid B

Butt hinges are very popular thanks to their slim-line design, and fit harmoniously into any door. A wide range of colours and different coating methods offer a lot of freedom for an individual design.

Roto Solid B butt hinges enhance doors; they are quick to install, easy to adjust and reliably keep doors tightly sealed.

The butt hinges are also backed up by the high quality and innovativeness of Roto as a global brand. A sophisticated systematic concept makes Roto Solid B especially appealing for many door designs.



System concept for consistent designs

Roto solutions from the Door, Window, Sliding and Equipment product lines are perfectly matched and ensure a consistent design language and functionality in the architecture.

This results in an aesthetically pleasing appearance as well as easy integration of important aspects such as security, energy efficiency and operating convenience. Project planning, design and implementation are thus made much easier.



**From a single source:
Optimum hardware systems to meet all challenges.**

Window

Hardware systems for windows and balcony doors

Sliding

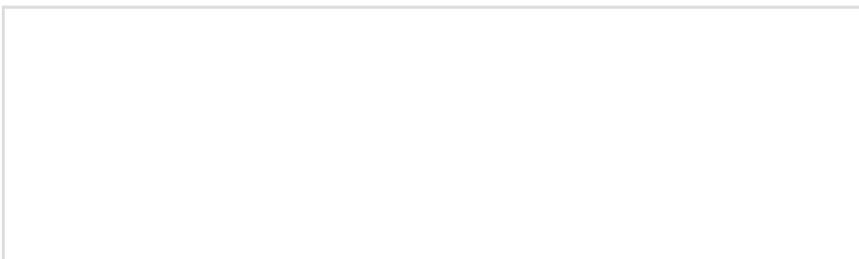
Hardware systems for large sliding windows and sliding doors

Door

Matching hardware technology everything about doors

Equipment

Additional technology for windows and doors



Location finder

