

techno gramm

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Fensterbau Frontale 2024

Hall 1, Stand 349

**Dear readers,
dear friends
of the
MACO company.**

Together with HAUTAU, we are presenting the industry's broadest hardware portfolio at Fensterbau Frontale. We combine our customer focus with digitalisation and sustainability: only together are we strong – together with you. All of our contributions are important in order to create efficient and increasingly digitalised building elements for sustainable building solutions. That is our greatest goal. Let's drive the energy and climate targets forward together.

What can you expect?

Innovative window, door and sliding hardware for any opening scenario and types: mechanical, motorised, for a wide range of materials and country-specific variants. You can see just how flexible and varied window and (sliding) door designs can be on the almost 1000 m² exhibition area. Perfectly fitting seals and customised thresholds are just as much a part of this as ventilation and shading solutions, access systems, window drives and services. Everything from a single source.

Digitalisation promotes sustainability

We invite you to explore the exciting world of digitalisation with us. The development of the smart home is progressing and we will be presenting the latest trends and our sensors that will take your windows, sliding doors and front doors to a new level. With our smart hardware solutions, we are thriving they advance networking in building technology. These not only result in convenience in everyday life, but also in sustainability and increase energy efficiency in every household. The new Matter communication standard and our "Sense by MACO" sensors will give networking in the home a significant boost.

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The new "Matter" communication standard creates new potential and bundles all digital topics in the home of the future: our sensors in windows and doors as well as shading solutions are now able to work seamlessly with heating thermostats, light bulbs and much more. One standard and one command to Alexa or Siri is enough. See our new developments and their possibilities for yourself in person at Fensterbau Frontale in Nuremberg in Hall 1, Stand 349.

What do we expect?

We focus on the best possible fulfilment of market requirements. We offer everything from a single source – we close the building envelope and fulfil your needs. This is how we differentiate ourselves and, above all, how we are well positioned for the future together with you. We are preparing what will soon be standard: for example, in the service area with integrated planning with BIM (Building Information Modelling), for which we offer software solutions, sustainable products and processes as the basis for tenders, support in CE marking and consulting services up to the construction connection and after-sales service simplify your processes and offer efficient solutions.

Your advantage?

With our wide range of products, our innovations and our service, the MACO team of consultants will make your day-to-day work easier. Talk to us. Join us in moving the industry forward. Visit us in our showrooms and read more in our Future Report 2024.

Thank you for your trust and we hope you enjoy reading this report.



Guido Felix, Chairman of the
Management Board MACO Group

SUSTAINABILITY

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Construction industry in upheaval

Sustainable innovations for
a greener future

Imprint

Media owner:
Mayer & Co Beschläge GmbH
Address:
Alpenstr. 173, A-5020 Salzburg, maco.eu
Contact:
Tel. +43 662 6196-0
Email: technogramm@maco.eu
Editor-in-Chief:
Petra Janßen-Wahl
Editorial office:
Petra Janßen-Wahl, Michaela Hasslacher,
Karin Paschek
Graphic:
Alexandra Quehenberger, Stefanie Leiter
Photos:
Adobe Stock, baubild: Stephan Falk,
Eren Karaman, Amvest, Erco, Ecohus
Cover picture:
blu donau
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CHEFS BINDING

TOGETHER FOR STRONG CUSTOMER SOLUTIONS

Since the merger of MACO and HAUTAU, the industry's broadest portfolio has been created – to be seen on 1,000 m² at Fensterbau Frontale. Read here about the new strength of the MACO Group: How customers benefit from it and why our digitalisation and sustainability are so important.

The merger in 2018 was the culmination of many years of cooperation between the two hardware experts.

Window and door specialist MACO has joined forces with sliding and automation specialist HAUTAU. Being stronger together and moving more in the market is very important to the two Managing Directors for Germany, Fekke van Dijk and Frank Jedamski. Today, the MACO Group is showing its combined strength and joining forces beyond national borders: the alliance brings many advantages for customers – from purchasing and the product range to advisory expertise. In this way, the company with all its competences and strengths is growing ever closer together.

Advantages through synergy

The advantages arise from the synergy in all areas, because since autumn 2023

MACO has had an efficient divisional management level in terms of organisation, which can focus on optimisation: The transfer of knowledge through close cooperation – including Hautau – between the company's divisions and international dialogue allows the sales teams to grow closer together. Customers notice the positive effects of a high level of consulting expertise and first-class service. Further advantages are the joint product development, the expanded product portfolio and, last but not least, the convenient one-stop shopping. Find out more in the interview on pages 6 and 7.

Portfolio expansion for every market and property situation

In addition to MACO's numerous innovations and strong focus on growth, many new, joint product developments have emerged in the sliding and window

segments in recent years. A diverse, modular product range including window automation for all properties and locations is impressive: for all materials and opening types. Whether new build, refurbishment, retrofitting or exclusive living – with MACO, customers are equipped for every requirement and every market situation.

Full speed ahead into digitalisation

There is great potential in the digitalisation of components in particular – through the use of drives and/or sensors. In terms of unit numbers, however, the motorisation of components is not yet a mass market: window drives are still mostly limited to public or premium buildings. But digitalisation doesn't just mean motorisation. Sensor technology opens up new ways of penetrating the market, creating relevance for processors.

Equipped for all properties and situations with MACO

Here are some references



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Sensors take the smart home to a new level

The new overarching communication standard Matter will be introduced and improve the way we live in the future. Global tech companies such as Amazon and Apple are part of the CSA, the Connectivity Standards Alliance, along with several hundred other companies including MACO. This drives Matter and the new solutions that arise from it. Matter-capable sensors such as "Sense by MACO" make windows, sliding doors and front doors highly attractive and efficient for the individual control of heating, ventilation, shading and much more – a separate gateway is no longer necessary. In times of high refurbishment requirements and the urgent need to improve energy efficiency in buildings these open up new potential. You can read more about this on pages 8 – 13.

Digitalisation for more sustainability

It's the masses that make the difference when it comes to achieving climate targets. That's why the sustainability aspects of the smart home are essential in addition to the monetary and comfort benefits. MACO sees networking as a great opportunity for its customers to improve the energy efficiency of buildings and raise awareness of energy consumption: In Europe alone, around 40 % of energy loss can be attributed to energy-inefficient buildings. ►

Sustainability is responsibility

In addition to "heating on, windows closed", for example, MACO also places corporate sustainability at the top of its agenda. The MACO Group committed itself to the circular economy many years ago. It was the first company in the hardware industry to produce its own future report. This year's title "Joining Forces" gives an idea of what it's all about: MACO is joining forces and moving towards a circular economy

sustainable future – with partners, service providers and suppliers in all markets and along the production chain. Further details can be found on pages 14 to 19.

Sustainability as an economic foundation

"The EU's requirements with regard to transparency in sustainable business are becoming more stringent – with companies being obliged to report

from 2025," says Petra Engeler-Walch, sustainability manager at MACO. This increases the influence on procurement management in construction and certifications will be the basis for tenders, financing and the value retention of properties. In addition consumers are becoming more attentive in their choice of products and services. Sustainability is now becoming a corporate duty and an economic basis.



Daniela Tiller, Head of Sales & Marketing and Alexander Wesser, Head of Product Portfolio & Services, both MACO Group

The Technogramm editorial team spoke to Daniela Tiller, Head of Sales & Marketing at the MACO Group, and Alexander Wesser, Head of Product Portfolio & Services, about the strengths of the MACO Group and the benefits for our customers.

Technogramm: Mrs Tiller, you have been on board as Head of Sales & Marketing at the MACO Group since 2023. How do you experience MACO and what are the advantages of close cooperation and improved structures?

Daniela Tiller: It is important for us to clearly prioritise customer and market needs and to continuously develop these further. I see a joint, strong market position with a high level of industry partner expertise. I am also impressed by the comprehensive de

product portfolio: Windows, door and sliding door fittings and automation, including thresholds, seals, access solutions and much more. We want to inspire our customers worldwide with our portfolio and, above all, our new products.

Technogramm: What can customers expect?

Daniela Tiller: We offer the broadest product portfolio in the industry and fulfil almost all the needs of our processors and dealers thanks to our local proximity. The customer benefit is very high thanks to our innovative strength and technology from a single source: customised, efficient solutions, high quality and the service – both digital and personal – are consistent, according to our customer feedback. Your opportunity for differentiation is very high. Short distances, fewer contacts and less effort: our customers experience clear and simple processing, from ordering to invoicing, in all our regions and markets.

Technogramm: Mr Wesser, as Head of Product Portfolio & Services, you played a key role in the merger. What specifically happened?

Alexander Wesser: We have brought together the best of both worlds of MACO and HAUTAU and created a range that allows our customers to seamlessly close the building envelope. We think our elements through to the building connection for energy-efficient façades, driven by our high standards of sustainability. We are pioneers in this area and increase the added value for our customers in our day-to-day business.

Technogramm: What specific examples are there from the product area?

Alexander Wesser: One example is the new MACO Multi Matic IQ hardware platform, the latest generation of turn-tilt hardware. The self-adjustment of the mushroom cam and the resulting optimised inlet ensure optimum rebate performance over the entire life cycle, even if the air flow conditions change performance. The height fixation and

rolling sleeve ensure smooth running into the revised new closing parts.

Technogramm: That sounds very promising for processors.

Alexander Wesser: Yes, we are focussing on a modular design that supports the flexible use of components. The new ingenious MACO Move lift and slide trolley with increased running smoothness and brushes in front of each roller is compatible with all existing standard, hook and Invisio gearboxes. Little effort for great effect, lean logistics and storage are the credo. For example, various MACO Move tilt and slide solutions can be combined with the MACO Multi Matic IQ central locking system. This also applies to HAUTAU's window automation, fanlights and pivoting sashes. In other words, the new combined MACO Move product group in sliding comes from HAUTAU, while locking comes from HAUTAU. from MACO. This is very lucrative for our customers, as the manufacturing process is faster and more cost-efficient: Window manufacturers can also produce sliding elements with little effort and without having to change the hardware. The best example is the MACO Move parallel sliding hardware: fabricators can produce a variety of windows and sliding doors on the MACO Multi Matic IQ hardware platform. One process in production, one constant opening and one look in the home. This is our way of making window and sliding door manufacturers fit for the future.

Technogramm: This also offers great potential for processors in the service sector, doesn't it?

Alexander Wesser: Exactly. Customers who used to have several suppliers, can now order everything from MACO. Specialist hardware retailers also benefit

greatly from the expanded product range. With a broader selection of high-quality fittings, they can offer their customers even more targeted solutions and thus establish themselves as a reliable partner for manufacturers. This is a key criterion not only for components, but also for service.

Technogramm: What services do you offer?

Alexander Wesser: We are at our customers' side from design to planning, element testing and system testing in the licence process through to sales and after-sales service. From the online catalogue to the hardware configurator, data service for integration into the hardware software, MACO Win as an interface for BIM1 planning and the MACO Partner Portal with raw material price index for transparent price development, they get everything from a single source. As with one-stop shopping, a customer touch point applies here.

Technogramm: Good luck and thank you very much for the interview.

¹ Building Information Modelling. The digital twin of the planned building takes over your window data via MACO Win.

#TOGETHER WE MATTER

THE FUTURE IS DIGITAL

Hey Google, switch on the light! Alexa, send the robot vacuum cleaner! The smart home is entering our world. What used to be science fiction is now reality. The new Matter standard, which allows smart products from different manufacturers to communicate with each other, now makes things easier: MACO is on board with its new sensor family "Sense by MACO" and has even more up its sleeve when it comes to digitalisation. This expands the possibilities for fabricators.



What are window and door sensors?

Sensors for windows and (sliding) doors have been on the market for some time. They are either wired or radio-based: these clever specialists automatically recognise whether an element is closed or open. More sophisticated variants also detect the tilt status and any tampering with the building element – keyword burglary – and trigger an alarm.

Coupled with a smart home system, buildings become even more intelligent thanks to sensors in doors and windows: from automatic shutter control in the event of an attempted break-in to activation of the heating when a window is closed. Window and door sensors are therefore a plus for security, comfort and energy efficiency. In addition to the wired sensors (Tronic), MACO also offers the EnOcean-based wireless sensors mTronic and eTronic. Find out more at www.maco.eu.

What is Sense by MACO?

Sense by MACO are completely new window and door sensors – prototypes will be presented at Fensterbau Frontale 2024. They are suitable for all common building elements – from classic tilt and turn windows to sliding doors, from front doors to externally opening windows. They are all based on the innovative Matter smart home standard, which makes products from a wide range of manufacturers compatible with each other.

Behind the Sense family is the vision of smart simplicity for fabricators and end customers: simple installation, simple assembly, simple operation. The Sense sensors provide status information (is the element open or closed?) and help to save energy: Depending on the closure status, they can control heating and cooling systems and light sources, for example. The Sense family also a contribution to safety – is the element locked or not?



Summer. The sun is shining down from the sky, the children are splashing around in the pool, there are cool drinks on the terrace – and the marquee goes out. But not because mum is winding it down. No, it works automatically when the sun shines. Because the Huber family is at home in their smart home. The fridge recommends recipes, Siri finds the misplaced smartphone, the mopping robot scurries through the dining room, the lighting sets the mood for a party in the evening – to match the Spotify playlist. Then there's the front door, which can be opened remotely via app. Handy when the children come home from the football match or the postwoman has to drop off the heavy parcel in the hallway. And who hasn't been there? In the middle of a traffic jam on the motorway to your holiday destination, you suddenly wonder whether the window on the ground floor is actually closed ... But fortunately, the intelligent wireless sensor keeps an eye on the situation – and the app reassures you: "Everything is in the green zone." The window is closed.

Many advantages

All of this used to be unthinkable, pure science fiction. Today, however, the world is becoming more digital by the day: we benefit from artificial intelligence, smartphones, streaming services, household robots and much more. We generate our own energy with solar panels – and let the heating shut down automatically while the window is open. The smart home

therefore opens up numerous new possibilities – for example when it comes to essential energy saving. The intelligent home also brings valuable quality of life in the form of convenience: for example, when the neighbour is supposed to water the flowers and is given access to the building via an app. And last but not least, the smart home is a benefit for the human need for security. The "thinking" home therefore brings great advantages and a lot of potential for the future.

Everything under one roof

A potential that also opens up marketing opportunities for window and door manufacturers: The smart element stands for new opportunities. Even if the analogue world will never be obsolete, connectivity points the way to tomorrow. In the past, the smart home was considered too expensive, too complicated, too dangerous, too ... unnecessary. However, many teething troubles have now been eradicated – and Matter is new to the game: the revolutionary communication standard makes things easier by bringing a wide variety of smart home solutions under one roof. This means that all Matter-enabled devices speak "one language". In other words, the standard connects smart products from a wide range of manufacturers – from lamps to fridges, radio-controlled sockets, radiator thermostats and sensors for a wide range of applications ►

Simply simple

Matter therefore has the potential to help the smart home achieve its final breakthrough. Several hundred companies from various industries are currently working on products that support the standard, including well-known names such as Amazon, Apple, Google and Samsung. MACO is one of them with its new "Sense by MACO" family of matter-capable wireless sensors: window and door manufacturers also benefit from this approach, as Sense makes additional sales easier than ever: "There is a clear vision behind our new sensors – smart simplicity that revolutionises the world we live in," says Christoph Lahnsteiner, Head of Product Management Door & Smart Products at MACO and an expert in connectivity and digitalisation. This means that the Sense family focuses on convenience for both fabricators and end customers.

The flexible products are suitable for a wide range of building elements and are easy to install – without having to change the existing hardware configuration. For the end customer, they are also easy to install and simple to operate using a QR code. This makes selling smart building elements easier than ever before.

Self-determined at home

Matter and Sense are therefore promising solutions for the networked home that fulfil the long-held desire for simplicity. Sense also offers other impressive benefits: The clever sensors help to save energy by keeping an eye on the status – open or closed. They are also invisible from the outside, so they do not detract from the appearance of the window or door element not. Another argument in favour of smart

sense[®]
by MACO

New wireless sensors for windows and (sliding) doors based on the new smart home standard „Matter“

 **matter**

Solution benefits

- › Simple, quick installation
- › Status monitoring
- › Battery-operated



Apple Home
Google Home
Alexa
Smart Things



Border Router

Connection to LAN or WLAN
(Apple TV 4K, Echo Dot ...)

Smart control



Heating



Shading



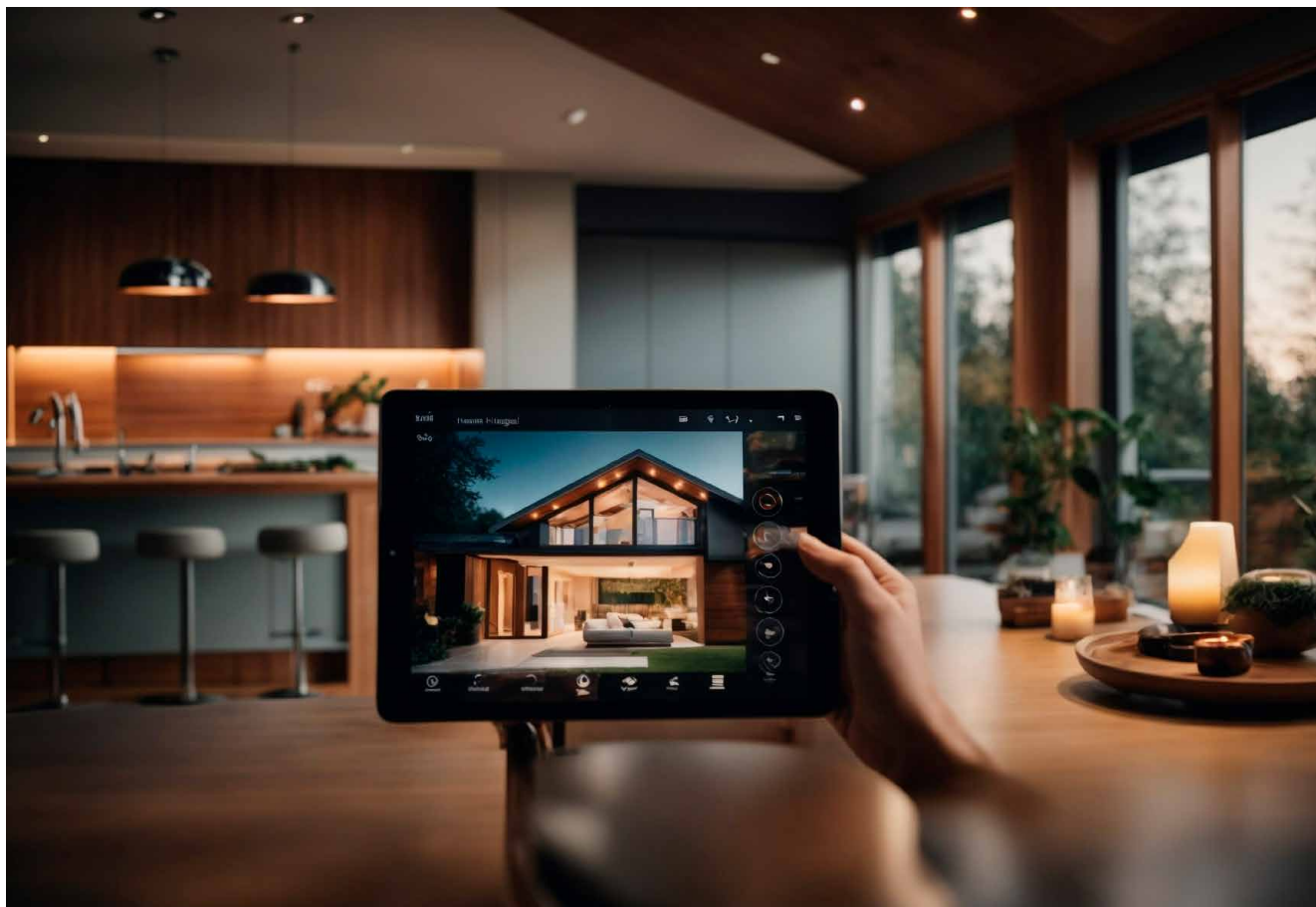
Lighting



Sockets

and more ...





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products that are easy to use and offer convenience: Ambient Assisted Living. This term can be translated as "assistance solutions for a self-determined everyday life", i.e. it refers to electronic aids. These help people with disabilities, for example, to stay in their familiar surroundings for longer – a big plus when you think about demographic change. Ultimately, however, clever technology helps everyone, just like accessibility. Another strong future-orientated sales argument.

From Alexa to Siri

Essential for the smart home: mobile apps. The applications are the convenient control centres for the smart home. There is still no all-purpose solution, but Matter is a promising approach here too: all Matter-enabled devices can be operated with any Matter application – from Apple Home and Google Home to Samsung SmartThings. As a smart home control centre, you no longer need your own gateways thanks to Matter: Smart Speakers – and in future also smart TVs, WLAN routers and the like – act as border routers. In most cases, these are already in the house anyway and take on this task "on the side", so to speak.

All-round solutions

Apart from sensor technology, motorisation continues to enjoy increasing popularity. In conjunction with sensors, it can even save lives. In the event of a fire, for example – keyword smoke gas – an automated window can prevent the worst from happening. But even without this extreme case, these clever solutions bring benefits, namely fresh air and a sense of well-being: Health and a mould-free home go hand in hand. When it comes to doors, the classic mechanical lock is far from being a thing of the past, but automatic locks have triggered a development: Digital operating options (e.g. via app, finger scan or code keypad) point the way to the smart home.

Electronic through and through

There are also digital milestones such as the Instinct by MACO door locking system – electronic through and through. "With this revolutionary system, we have fundamentally rethought the door," says Robert Andexer, Head of the Door & Smart Products business unit at MACO. This begins with flexibly positionable locking components that allow creative freedom in door design and ends with the customer in the networked home: Instinct can be controlled using various methods – and integrated into the smart home. ►

The Instinct app has also been updated and new operating modes such as sleep mode and security mode are available. In addition, the sharing of access authorisations has been further simplified: the development of applications is also moving towards simplicity and convenience. More at www.maco.eu/instinct

Blackout and candlelight?

Change of subject: What happens in the smart home in the event of a power cut? This question is on many people's minds. The good news is that even the dreaded blackout is usually easy to deal with – as there are usually manual alternatives. And once the power is back on, the systems usually start up again automatically – or at least tell you what to do via an app. The fully electronic Instinct locking system now has an additional emergency power supply module in addition to the standard integrated UPS module¹: this means that it can even be operated using a standard USB-C power bank in the event of a blackout. So nobody has to worry about standing in front of a locked door by candlelight.

Convenience at the touch of a button

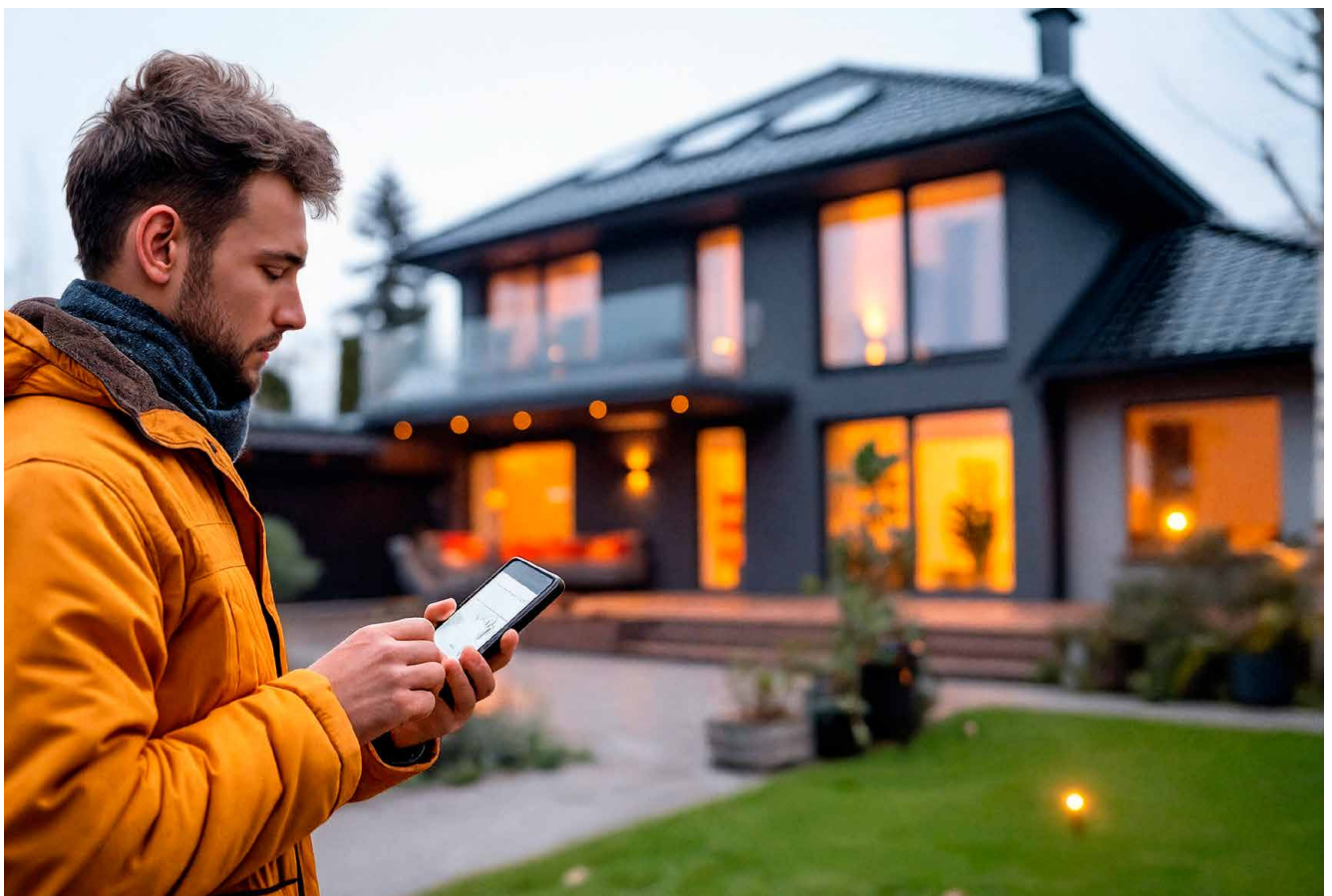
Automation and digitalisation do not stop at the sliding door. Modern architecture plays with openness: large glass surfaces not only provide a panoramic view, but also decisively

characterise the effect of a house with. However, this also means that sliding door units have to be moved. This works particularly conveniently with the help of a drive: "Motorised elements are perceived as a major gain in comfort – a good argument in sales talks with the end customer," says Hanspeter Platzer, Head of Product Management Large Areas at MACO. "Our Move HS Comfort Drive can be integrated into the smart home on request." The motorisable lift and slide system InfinityView also ensures a special aesthetic with its particularly narrow sash frames. And if you want to monitor your sliding door, you can simply use sensors from the Sense family.

Modern elegance

However, contemporary architecture and modern living do not only mean large glass surfaces, but also minimalism and elegance. If you want to go one step further, combine design with the smart home and plan intelligent components: Digital lighting systems, for example, open up innovative possibilities in building design. However, the intelligent home is by no means limited to new builds – many solutions are also suitable for existing buildings. The networked home is therefore certain to triumph – with innovative solutions that help window and door manufacturers to realise future-oriented opportunities.

¹ UPS = Uninterruptible power supply





Digital all along the line

From development to delivery to the finished product: digitalisation has many faces in companies today. This not only benefits the company itself – keyword efficiency – but also the customer. Using MACO as an example, we show what this can look like.



Research

- Use of modern software in product development
- › Topology-optimised product conserves resources



Production

- Use of cobots and fully automated systems
- › Reliable and durable quality products



Services

- Versatile digital services
- › Efficient processes within the framework of the business relationship



Logistics

- Digital ordering processes, fully automated warehouses
- › Modern logistics at the cutting edge



Product

- Digital products as part of the full product range
- › New marketing opportunities for window and door manufacturers



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CONSTRUCTION INDUSTRY IN UPHEAVAL

SUSTAINABLE INNOVATIONS FOR A GREENER FUTURE

Whether travelling, on the plate or when shopping. Whether Fridays for Future, climate conferences or the Green Deal: Sustainability is not only omnipresent in the media, it has also found its way into our everyday lives. Sustainable building and living are the game changers for a greener future.



#TOGETHER WE CARE

FOR THE SAKE OF THE ENVIRONMENT

Small steps, big change

Take public transport to work instead of the car – or even pedal to work yourself. No unnecessary waste and if you do, then separate it. Upcycling and recycling instead of buying and throwing away. These are small things that together make a big difference – and that many people are already doing on a daily basis. Our future depends on a healthy planet and we are all called upon to ensure that it is still worth living on for future generations: individuals as well as politicians and businesses.

Sustainable living starts at home

The trend towards a sustainable lifestyle continues unabated. Building and living is one of the biggest levers for reducing the ecological footprint: Reason enough to not only define this as a core area for a green transition as part of the Green Deal, but more and more building owners and renovators are also focussing on it. The good news is that sustainable building and living is easy to implement. Often, it doesn't require radical changes, but rather conscious decisions – from planning and the choice of materials to the use of innovative technologies.

BIM offers new potential

In new buildings, Building Information Modelling (BIM) opens up completely new perspectives for sustainable construction: This involves creating a digital 3D representation of the building that depicts all physical and functional information about the structure. This means that environmentally relevant factors, such as solar radiation and ventilation, can already be included in the design phase.

Thermal and energy behaviour are optimally coordinated or energy-efficient building technology is planned with the appropriate sensor technology for a smart home. "The BIM model contains a wide range of information, for example on the material composition of the building materials used. If you look specifically at our fittings, it tells me how to maintain them or recycle them in the event of dismantling. Digitalisation and sustainability go hand in hand here," reports Alexander Wesser, who is responsible for the Product Portfolio & Services division at MACO. ►

The timber frame construction with the pipework is visible in the 3D model.





Sustainability meets smart home

In future, the home should not only be intelligent, but also sustainable. Fortunately, the two trends complement each other. By transforming your home into a smart home, you can save money in the long term, make your life easier and also contribute to protecting the environment. How can you do that? Let's think of a modern house with large expanses of glass – and a spring day when the sun is shining from the sky. Without a good ventilation concept, the oasis of well-being quickly turns into a stuffy sauna. This is exactly where clever, sustainable building products come into play.

Saving energy with brains

Ventilating at the right time and to the right extent without increasing energy consumption and thus heating costs – this is possible thanks to a ventilation strategy that is easily implemented with sensor-based window control. Sensors detect the status of the window (open, closed, tilted). Enriched with data on CO₂ content and temperature in the interior or weather information, an energy-efficient ventilation plan can be created.

As if by magic ...

But there's more to the smart home, Alexander Wesser points out: "If windows and doors are also equipped with electromechanical fittings, they can be controlled automatically or remotely via a smartphone or tablet, for example. They also use sensors to recognise when it's time for fresh air, open windows and doors – and regulate heaters or air conditioning systems at the same time. This means that rooms can be ventilated at night or in the early hours of the morning without the user having to do anything." The automatic control of the building elements not only enables greater living comfort, but also significant savings in energy consumption. And that benefits both the wallet and the environment.

Long happiness

But the hidden technology in the window can do even more in terms of sustainability: hardware is not only characterised by its own longevity, it also increases the service life of the window and door elements in which it is installed. The new MACO Move HS roller carriage shows what is important: The user-optimised kinematics and the special control of the lifting



link ensure an even distribution of force to all rollers – so that no roller is overstressed and therefore wears out more quickly. The rollers are additionally protected by brushes – ensuring convenient operation of the window elements for many years to come. This is also sustainable. And with the right maintenance and care, the service life of windows and doors can be extended even further.

So that money doesn't flutter out of the window

Customers can optimise their homes sustainably not only in new builds, but also with refurbishments. The energy-efficient refurbishment of existing buildings in particular is essential for achieving climate targets. And MACO has solutions up its sleeve for this too: the further developed MACO Multi Matic IQ turn/tilt fitting, for example, not only improves the air gap equalisation thanks to the new i.S. pivot, but the contact pressure can also be adjusted more easily and precisely. The entire window is thus durable, maximum tightness and an important component of the energy-friendly building envelope.

Externally certified

For MACO, there is no way around sustainable and circular business practices. To this end, the company is not only assessed in terms of its environmental awareness (all Austrian sites are ISO 14001 certified), but also in terms of its circularity. With success: since 2023, MACO has been the second Austrian company ever to bear the Circular Globe Bronze label.



Fittings become greener

And that is by no means all. MACO not only focuses on sustainable building products, the company also scrutinises and is also changing the way they are produced. This starts as early as the design phase, as Sustainability Manager Petra Engeler-Walch reveals: "During product development, we pay attention to minimising component weight, the lowest possible use of raw materials and a sustainable mix of materials – every detail is reviewed in terms of its ecological impact tested." The MACO Circularity Index, which compares materials in terms of their recyclability, provides support in this regard. This makes it possible to filter out the most environmentally friendly combination for the subsequent articles. The topology of the products is also fine-tuned with software support – until geometry, resource consumption, functionality and quality are optimised in perfect harmony. And 3D printing can be used to produce not only tools, but also small orders in a material- and energy-saving way. ►

Conserve resources

A glance at the roof of the production halls at the Salzburg headquarters shows that MACO takes its ecological responsibility very seriously. There – as at the other production sites – newly installed photovoltaic systems convert sunlight into valuable energy. "Whether it's water, raw materials or energy – by investing in machinery and innovative production processes, we aim to minimise the use of resources," says Engeler-Walch, providing an insight into the Salzburg family business's commitment to sustainability.

Zinc different

One of these innovative approaches is a completely unique surface finish: what was previously galvanised for aesthetic reasons is now sanded with a grain waste product while maintaining the same quality. With 214 million parts per year, this saves a lot of chemicals, zinc and energy.

THINK IN CYCLES



MACO is turning several screws to minimise its ecological footprint.

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THE SPECIALITY OF OUR PRODUCTS LIES IN THE TECHNOLOGY BEHIND THEM: THEY HELP PEOPLE CAN MAKE A PERSONAL CONTRIBUTION TO THE FIGHT AGAINST CLIMATE CHANGE WITHOUT SIGNIFICANTLY CHANGING THEIR BEHAVIOUR OR DO WITHOUT LIVING COMFORT. <<

ALEXANDER WESSER,
PRODUCT PORTFOLIO & SERVICES

Creating tomorrow Joining forces

In the future report, which will be published for the fourth time in a row in 2024, MACO presents its diverse sustainable initiatives: from all business areas, markets and along the entire production chain. In keeping with the environmental concept, no printed copies are used.

Interested parties can find the digital version at www.maco.eu/nachhaltigkeit



EPD, ESRS, CSRD? Do you have a clear view? What's behind these abbreviations and what's in store for the industry in terms of sustainability.

This EU directive introduces detailed sustainability reporting obligations and will gradually become mandatory for large companies and, from 2027, for smaller ones too: Information on risks and opportunities arising from social and environmental issues as well as the impact of business activities on people and the environment must be disclosed: depending on the size of the company and its turnover, as early as 2025 for the 2024 financial year. Even smaller, unlisted companies (SMEs) will not be able to avoid this in the long term.

They describe the binding structure and scope of sustainability reports. After the materiality analysis, it is determined which topic-specific chapters and key figures of the ESRS are relevant and reportable for the respective company.

Environmental Product Declarations (EPDs) in the construction industry provide planners and auditors with factual, neutral and scientifically sound information on the environmental impact of construction products. Ideally, the entire life cycle of the product is taken into account. They form the basis for holistic planning and assessment of buildings.

The Green Deal is a package of policy initiatives designed to set the EU on the path to a green transition in order to ultimately achieve its goal of becoming climate neutral by 2050.

Sustainable construction concerns the entire life cycle of buildings and includes, for example

- › Integrated planning methods
- › The use of recyclable building materials and materials
- › Resource-conserving and energy-efficient construction methods
- › Sustainable smart energy systems based on renewable energy sources
- › Flexible utilisation concepts
- › Solutions for the demolition of buildings and/or the recycling of components and materials





Service?

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We start with product quality. We get you to the finish line with good service. Benefit from simple hardware configuration, automated ordering processes, made-to-measure assembly and a testing service that standardises customised requirements via licences. We are your partner for safe and economical products and processes.



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