



Our values for cooperation

Partnership based on the parameters

- **Reliability**

We are a hardware manufacturer with a high market continuity and stability...

- ... our in-house production share is over 98 % and we can react fast and flexibly to market changes;
- ... we offer a wide range of products and can provide hardware solutions for your product line all-in-one-hand

- **Innovative force**

We are a company...

- ... that offers innovations, which can provide a competitive edge for your company's market;
- ... that contributes to a secure future of its customers, by adopting intelligent solutions to guarantee functionality and quality, while ensuring that the cost to the customer is minimised.

- **Individuality**

We are your partner...

- ... for tailored solutions, integrated into the infrastructure and potential that your production offers;
- ... who invests in developments that guarantee you an unmistakable profile.

- **Service strengths**

We are people...

- ... who promote dialogue with customers and place our key focus on serious and competent advice.





Clear strengths

- High-performance product development
- In-house certified standard tests for unit testing
- Sustained quality assurance over all product groups
- Innovative TRICOAT surface protection and surface finish technologies guarantee reliable products
- Supply-to-demand with optimized production processes and expansion of our sales network
- Our consulting strength focuses on the sustained growth of our customers
- Support with the production of customer brochures
- Customer training tailored to your needs
- Enhanced provision of data, hardware calculation program, online catalogue and individual customer platform with ordering option to support you.

Our quality demand

- Newly certified suppliers
- Pre-tested selection of materials
- In-house material testing centre
- Self-developed production systems
- Latest 3-D measuring techniques guarantee top quality
- Complex precision testing as a result of individual tests
- Exacting test criteria verified and certified by external accredited test institutes
- Comprehensive in-series monitoring
- Certified according to ISO 9001 for more than 20 years





Sustainability

MACO Germany has been a member of the German Sustainable Building Council (DGNB) since January 2013. Founded in 2007, the Council is a non-profit, non-governmental organisation that, today, is the central platform for sustainable building in Germany.



MACO defined and firmly anchored the term "sustainability" in its corporate strategy several years ago. A strategy that strikes the right balance of ecological, social and economic aspects.

- **ISO 14001 – Standard for environmental management**
The international environmental management standard ISO 14001 defines the internationally recognised requirements for an environmental management system.
- **BS OHSAS 18001 – Standard for Occupational Health and Safety Management**
Working conditions must be designed to ensure that working is, and remains, a feasible proposition from a physical and psychological viewpoint in the face of an extended working life.
- **ISO 9001 – Quality standard**
We have defined standards for the entire development and manufacturing process through to sales. This allows us to ensure the defined performance features, on the one hand, and implement these under economical conditions, on the other. This brings you (and MACO) the decisive economic advantage.
- **Sustainability with DGNB**
"Besides ecology, economy and user convenience, functional aspects, technology, processes and location are the focal issues for planning and implementing sustainable buildings and city accommodation." (source: translated from German at www.dgnb.de)

MACO solutions

Examples of product solutions are the Fiber-Therm threshold made of glass-fibre reinforced polymer (GFRP) and the manufacture of a variety of PVC hardware components in black with added recycling material.

Benefits for the end user

Reducing the consumption of resources ensures that heating energy does not escape to the outside, and that thermal bridges stand no change.





Our product ranges

Windows



We offer a high-quality, extremely comprehensive performance package covering windows and French doors that can be tailored individually to markets and customer requirements.

MULTI turn-only and T&T hardware

- Sophisticated design
- Long-term, secure functionality over the years
- Energy-saving potential and intact sealing



MULTI POWER

ESPAGS espagnolettes

- Reverse mode locking cam
- Highest installation efficiency
- Highest demands for operating convenience and security



Mach 3

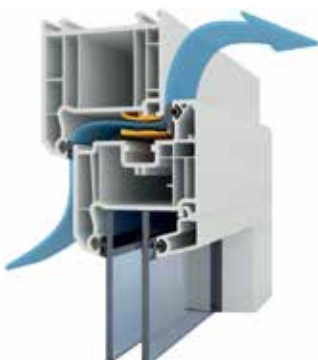
EMOTION window Handles

- Model line Rhapsody, Harmony, Symphony and Tentazione
- With locking function as child-proof safety lock and burglar-resistant up to resistance class RC 3
- Latch sets, handle and escutcheon cover sets, wing escutcheon covers, classic window pulls, service handles



Harmony window handle

Ventilation



Although everyone is talking about "care-free" ventilation systems, not everybody is willing and able to pay for this comparatively expensive solution. Particularly when there are other ways to obtain comfortable, individual and inexpensive solutions. Our ventilation versions for timber and PVC guarantee fresh air in manual mode. Also available as a retrofit option.

- Mechanical window ventilation
- User-independent ventilation units



Concealed window valve



Our product range

Doors

PROTECT door locks are perfect for any front door, apartment door and side entrance door as entry point to public and private areas. After all, the innovative multi-point locking system helps to provide effective protection against damage and theft for protect property and the private sphere. Additional packages, such as noise protection and thermal insulation are taken into account just as much as the desire for the convenience of keyless door operation.



Z-TA automatic lock

PROTECT door locks

- Lock
- Top hat
- Striker and striker plate
- French casement drive-gear
- Finger operated door shootbolt



Hook&bolt locking system

openDoor access control system

- Transponder-Plus
- Code
- Touch



Touch



Code



Transponder

PRO-DOOR door strips

- 3D adjustment without having to unhinge the door
- Manufactured from pure aluminium
- High-stability fastenings



Partially concealed T100 R butt hinge



Our product range

Sliding doors

Discover the harmonic confluence of inside and out and give expression to your individual innovative concepts. Free expression in living spaces also means flexible opening and expansion. With the RAIL-SYSTEMS sliding hardware, manufacturers can utilise a full-range solution all-in-one hand that is optimised for maximum benefit to the end user and best-possible handling during assembly and installation. Our range also includes drive gears, rollers, sealing rails, thresholds, frame covers and handles.

RAIL-SYSTEMS lift&slide hardware

- For lift&slide units made of PVC, timber and timber/aluminium up to a sash weight of 400 kg
- Several sash levels possible
- Applicable for all systems

RAIL-SYSTEMS slide&tilt hardware

- Three designs: SKB-S, SKB-SE, SKB-Z
- Suitable for PVC, timber and timber/aluminium for sash weights up to 200 kg
- RC2-capable depending on the individual unit equipment from the door producer

RAIL-SYSTEMS Parallel stop sliding hardware

- Suitable for PVC, timber and timber/aluminium for sash weights up to 200 kg
- Effortless operation with integrated energy store
- RC 2 possible in parallel setting



Steel hook drive gear



SKB-Z system with forced control



Energy store



Our product solutions

RUSTICO window shutter hardware



Deluxe shutter catch

Many people find shutters charming. But they are more than just a decorative element. They provide protection against rain, hail, sun, snow and coldness, stop gazing eyes and make a burglar's life more difficult.

- Shutter hinges for all types of window shutters
- Pins
- Safety catch
- Deluxe shutter catch
- "Classic" shutter catch
- Shutter inside openers
- Snap holders
- Snapper
- 2F shutter end piece



Shutter inside openers

Surface finish / TRICOAT-PLUS

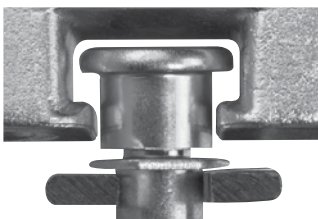


MACO's vertical integration for in-house production is more than 95 percent. This also includes the surface processing technologies during production: One innovation in this context is the TRICOAT-PLUS surface finish for rugged environments that MACO introduced several years ago.

- Extremely corrosion-resistant TRICOAT-PLUS
- Silver look (electro-plating)
- RUSTICO-PREMIUM (powder coating)
- Anodizing
- Wet varnishing
- Vacuum metallizing
- Plastic coating



Security



i.S. locking cam

The i.S locking system is the power house behind the MACO T&T security technology up to resistance class RC 4. Lift&slide doors are suitable for RC 2 and CE applications depending on the how the door manufacturer configures the individual units.

- Burglary-resistant striker plate
- MACO TRESOR window handles
- EN-compliant security plate
- Security workshop





Our service solutions

As part of the obligation to provide a CE marking every window manufacturer must provide practical verification that the constructional units are airtight, water-tight and resistant to wind (impermeability and water-tightness). The required test must be carried out by an accredited and certified testing agency.

Accredited MACO Test Centre

MACO is as an external partner agency of gbd-lab GmbH. Window manufacturers receive an internationally valid test certificate for impermeability and water-tightness directly from MACO. In addition, MACO can also carry out tests for burglary resistance in the accredited field.



MACO Win 2.0 hardware calculation program

- Manages price lists and conditions
- Produces order easily
- Effortlessly manages all MACO hardware versions



"Extranet" service platform

- Order platform
- Individual download area
- Technical online catalogue
- Image service

Online catalogue

- Clear-cut product structures
- Selection of material and/or installation situations
- Download matrix for drawings and data sheets
- Fast plain text search



Offline versions

- Data update when Internet connection present
- Optimized for use with Windows 8.1 tablets
- Bar code scan function
- All articles can be filtered according to material usability

