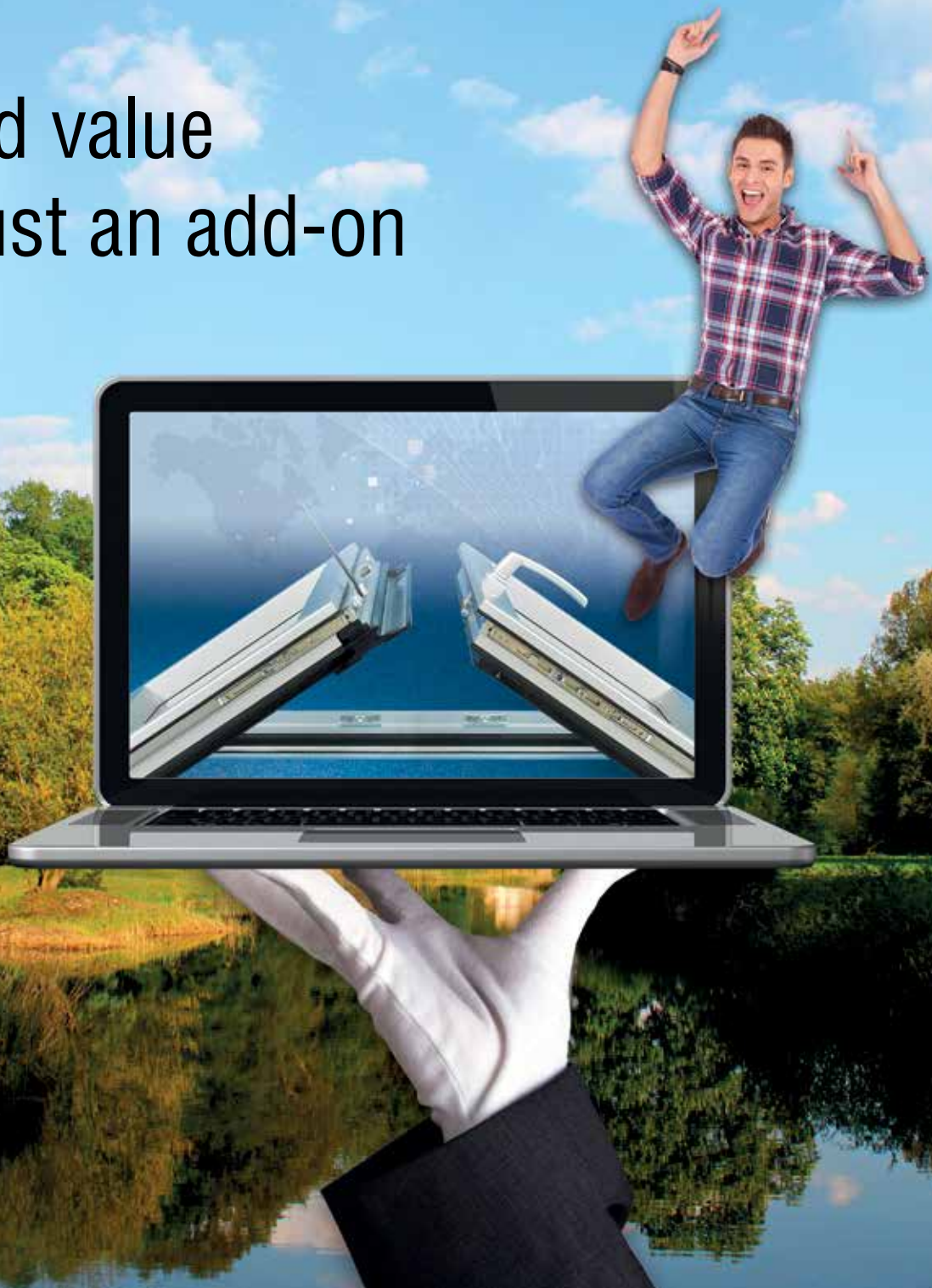


TECHNOLOGY IN MOTION



Added value
not just an add-on



SERVICES
FOR CUSTOMERS



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. MACO operates 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. All test certificates have the same validity as test certificates from other renowned accredited and certified test institutes.

MACO test centre: Standard tests in accredited range

- Standard tests all-in-one-hand from analysis to certification testing
- Clear description of performance for exact calculation of costs
- MACO experts
- The standard-compliant tests are performed using state-of-the-art testing equipment
- The MACO test services offer guaranteed short throughput times
 - » 10 working days in the Premium Package from availability of the test units in Salzburg
 - » 20 working days in the Standard Package from availability of the test units in Salzburg
- Optional: Full service including logistics for test units



At a glance

- All in one hand
- Internationally valid test certificate
- Complete handling including testing within shortest period of time
- Clear description of services and absolute cost security





Services offered for joint seal and water-tightness

Basic	Standard	Premium
<ul style="list-style-type: none"> • Test rig preparation & documentation • Factory test & weak point analysis • Test within 40 working days from availability of the unit in Salzburg • MACO factory test certificate 	<p>Like Basic, plus:</p> <ul style="list-style-type: none"> • Certification testing for a standard-size unit • Test within 20 working days from availability of the unit in Salzburg • gbd-Lab test certificate 	<p>Like Standard, plus:</p> <ul style="list-style-type: none"> • Test within 10 working days from availability of the unit in Salzburg



Weathering test rig for air-tightness, water-tightness and resistance to wind

Detailed description of performance for impermeability and water-tightness

Time guarantee

- Performance of tests ordered and provision of corresponding documentation within the period of performance of the individual performance packages (from 10 days)

Test services

- Weak point analysis, solution proposal and advice, including on-site optimisation in cooperation with the customer
- Normative full-scale testing

Certificate

- Accredited and certified verification of the test in German and English languages

Optional

- MACO can organise the entire logistics chain on request
- Disposal of the test unit



Services offered for burglar resistance

	Basis	Standard	Premium
RC 1 N	Standard test system analysis MACO factory certificate	Period of 20 days gbd laboratory certificate	Period of 10 days gbd certificate
RC 2/RC 2 N	Analysis of weak points MACO factory test certificate	Period of 20 days gbd laboratory certificate	Period of 10 days gbd certificate
RC 3	Analysis of weak points MACO factory test certificate	Period of 20 days gbd laboratory certificate	Period of 10 days gbd certificate

Detailed performance description for burglary resistance

Time guarantee

- Consultation from MACO experts to produce your hardware combination and documentation and prepare the unit for testing

Test services

- Normative full-scale testing

Certificate

- Accredited and certified verification of the test in German and English languages

Optional

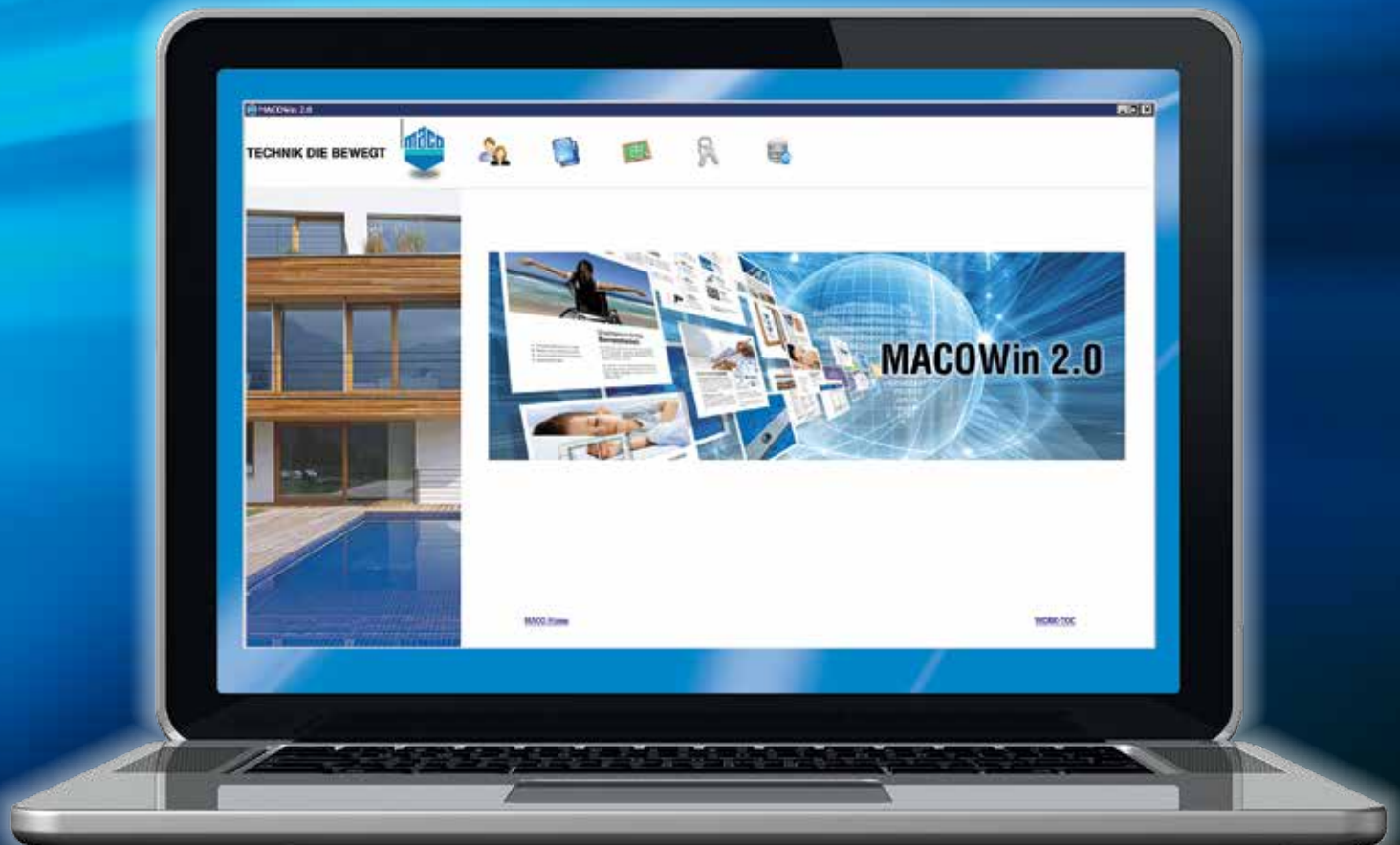
- MACO can organise the entire logistics chain on request
- Disposal of the test unit
- Glass connection only



Resistance under dynamic load



Testing of the static load



Hardware calculation made easy – MACOWin 2.0

Utilise valuable data as required!

In just a few steps, MACOWin 2.0 generates a complete parts list for all conventional opening mechanisms and hardware versions. Select the window types and enter the sash rebate sizes to obtain a corresponding parts list for your offers and calculations. The generated parts lists can be adapted at any time. The parts list can be output in a variety of data formats (csv, txt, doc, pdf, etc.). MACOWin 2.0 provides immediate access to a large number of conventional opening mechanisms and hardware versions. These can be used as the basis for individual supplements and customised adaptations. The link to the Technical

Catalogue (TOM) provides the relevant technical information that is required for processing the hardware components.

Further export options also provide product data for 12 window manufacturing programs. Besides calculation data, the exports also output all relevant information about the product. They are required for controlling machining centres for example.



Easy customer and contact management

- Store company address and logo
- Store other contact data for orders/projects

Manage price lists and conditions

- Import/export options for price lists
- Calculate a hardware matrix with set prices

Produce orders easily

- Name of offer/project
- Selection of window types
- Entry of window dimensions
- Calculation of parts lists
 - » with articles, quantities and prices
- » Each article is linked to technical catalogue (TOM)
- » List with processing steps and times
- » Option to switch hardware colours (silver/TRICOAT-PLUS)

Effortlessly manages all MACO hardware versions

- Opening mechanisms and hardware versions are available
- Customer-specific supplements and changes possible at any time
- Basic version expandable with import/export functions
 - » For new MACO products
 - » For modifications, etc.

Export function to 12 window manufacturing programs

Link to the Technical Online Catalogue MACO (TOM)

- Access to full technical information and notes for correct processing of the hardware
- Standalone and multi-user capable





MACO “Extranet” customer portal

The full version of our “Extranet” customer portal will provide a one-stop shop for partners of the whole MACO group. All customer-specific and technical information and documents are collected here, where they are easily accessible to customers.

Unlike the Internet, the Extranet is a password-protected area in the World Wide Web where only registered users (MACO employees, customers and business partners) have access on an individual basis.

The Extranet is accessible 24/7 at

<https://extranet.maco.eu>

It offers functions like Technical Online Catalogue MACO (TOM), Teleassistant, Complaints, Services (such as courses and events, as well as the option for direct payment.

At a glance

- 24/7 accessible everywhere
- All customer-specific and technical information and documents in one place
- Less paper – all information up-to-date and available in digital form
- Contact data of your personal contact person
- Teleassistance, complaints and further services (such as course and events)



Order platform

As part of the MACO customer portal, Extranet is the simplest and quickest way to send us your order requests. If you require similar articles regularly, you can save your shopping basket template for reuse. This avoids the tedious job of having to enter each article.

In the future, we would like to give you the opportunity to place articles in your shopping basket directly from the Technical Online Catalogue MACO (TOM). Furthermore, the order platform already provides a full overview of all your orders, invoices and delivery note.



At a glance

- Quick and easy order option
- Option to create order templates
- Overview of orders, invoices and delivery notes





TOM – Technical Online catalogue MACO for MULTI-MATIC turn-only and tilt-turn hardware

Find MACO hardware, combine sets, generate PDF data sheets, send orders automatically. Piles of paper was yesterday Today, you can surf through the Technical Online Catalogue from MACO (TOM). The online catalogue is becoming more and more popular among customers.

Currently, data are available for the main product group MULTI-MATIC turn-only and turn&tilt hardware. During the ongoing production process, the online catalogue will be supplemented successively to include the MACO PROTECT door locks and RAIL-SYSTEMS sliding fittings hardware programs. Its user-friendly navigation makes the catalogue a

self-explanatory online experience. Current hardware data entered continuously and made available to you in periodic updates. The search and filter functions make researching easy and always find up-to-date hardware information.

Demand-based

Collect the data you need yourself in the online catalogue - tailored to your individual requirements. For example, you can use the window frame material pre-selection function to match the article range to your particular user situation. Furthermore, special filters are also available for each product group.



All hardware data are available as a PDF data sheet in print-friendly A4 format for download.

Use the “interactive hardware combination settings” to find the desired articles for certain designs easily and quickly.

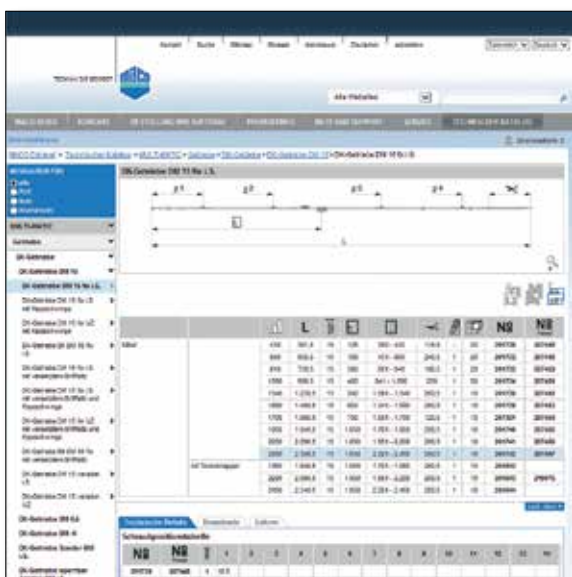
Always up-to-date

As soon as there are changes in a product database, your data sheet is recreated in a fully automated process. This keeps you up-to-date on the current hardware data, without having to compare these yourself. TOM does this for you! You can also download other files that are relevant for

planning. These include technical drawings in EPS or DXF format, for example.

Login

Use a protected login for customer access to the Technical Online Catalogue MACO. It gives you access to the customer-specific Extranet platform. Contact your MACO technical consultant for you access details.





TOM – Technical Online catalogue MACO for MULTI-MATIC turn-only and tilt-turn hardware

At a glance

- The online catalogue is a web application. The only application prerequisites are a functional Internet connection and a login. A local installation on a workstation is not possible (a free app is available for this purpose).
- Clear-cut product structures: They present all technical product information at a glance.
- Selection of material and/or installation situations
- Clear and short navigation paths
- Zoom function for technical drawings
- Download matrix for drawings and data sheets
- Fast plain text search
- Scalability of market and language variants



TOM Offline app for Windows 8.1

The award-winning offline app^x for Windows 8.1 makes the information in the Technical Online Catalogue available even far away from UMTS mobile networks and WLAN. With a view to keeping data quantities to a minimum during synchronisation, the app shows the most important information and functions of the Technical Online Catalogue in offline mode. If an Internet connection is available, the existing

data can be updated to allow the user to continue working offline with the current data inventory.

With the intuitive touch screen, the user can find the corresponding devices fast and navigate easily through the required data. The app can of course be operated using the mouse instead of the touch display.

A special function is reserved exclusively for the offline app: the search function via bar

code scan. The camera of a mobile terminal device can be used to scan in the article bar code on the packaging. The search function provides direct access to the catalogue page with the particular product.

^xThe app achieved 3rd place at the Constantinus Award 2012.



At a glance

- Once downloaded, the most important data of TOM are available offline
- Data update when Internet connection present
- Optimized for use with Windows 8.1 tablets including intuitive touch screen operation
- Bar code scan function to access the relevant product page directly using the MACO bar code
- All articles can be filtered according to usability of the material (timber, aluminium, PVC)



TECHNOgramm app for iPhone and iPad

- Current product information, producer stories and innovations from MACO
- Top up-to-date and always present
- Optimised for iPad and iPhone





MACO lets you handle sustainability

Sustainability is a strategic cornerstone that has been anchored in MACO's corporate strategy as "Sustainable and environmentally-friendly economics" for several years now.

Ecological, social and economic aspects are well balanced.

Milestones

- Three certified management systems: Environment acc. to ISO 14001, work safety and health acc. to BS OHSAS 18001, quality acc. to ISO 9001
- Member of the German Sustainable Building Council (DGNB) since January 2013
- The DGNB Navigator lists the 3-latch door locks Z-TA Automatic and Z-TA Comfort
- Optimised carbon footprint of the hardware range MACO MULTI MATIC: The CO₂ value of the window hardware tops the values of the eco balance model of the Locks and Fittings Industry Trade Association
- MACO Environmental Product Declaration (EPD) for window hardware and door locks



- Material exchange and recycling; among other things: Fiber-Therm thresholds made of glass-fibre reinforced plastic, production of various PVC hardware components in black with added recycling material
- Climate Alliance Company MACO Salzburg

Ambassador for sustainability

- 3-latch door lock PROTECT Z-TA
- MULTI POWER fully concealed turn&tilt hardware up to 150 kg sash weight
- T&T hardware MULTI MAMMUT up to 180 kg sash weight and 3.6 qm format size
- MULTI pivot post and scissor stay hinge double pot for 160 kg sash weight
- MULTI deluxe hardware
- MULTI TRANSIT threshold
- RAIL-SYSTEMS GFRP threshold
- RUSTICO window shutter hardware for thermal insulation



MITGLIEDSURKUNDE

DGNB
Deutscher GreenBuilding Award
Green Building Council

Die Arbeit der Deutschen Gesellschaft für Nachhaltiges Bauen e.V. verfolgt das Ziel, Lebensräume nachhaltig zu gestalten. Der Verein ist die zentrale Plattform für alle, die sich für die nachhaltige Bauweise interessieren und engagieren.

Ihre/rn gebaute Umwelt wird nachhaltig geplant, gebaut und genutzt werden. Die Deutsche Gesellschaft für Nachhaltiges Bauen e.V. unterstützt in diesem Zweck ein Zertifizierungssystem, das eine objektive Bewertung und damit Rückmeldung unserer gebauenen Umwelt ermöglicht.

Das Mitglied

MACO Bauprodukte GmbH
Mitglieds-Nr. 132713
Mitglied seit: 11.11.2012

U. Kersch-Bauer
Opfer

bestätigt dass Sie/Sie und Sie/Sie als/nach Mitglied/schaft bei MACO
einen aktiven Beitrag für die nachhaltige Gestaltung unserer Lebens-
räume leisten.

Bezeichnet
Prof. Dr. Ina Kersch-Bauer
Präsidentin der Deutschen Gesellschaft
für Nachhaltiges Bauen e.V.

Bezeichnet
die Deutsche Gesellschaft
für Nachhaltiges Bauen e.V.

Bezeichnet
die Deutsche Gesellschaft für Nachhaltiges Bauen e.V.
Bezugsdatum: 11.11.2012

Bezeichnet
Hauptquartier: Berlin, Hauptgeschäftsbereich: DGNB

bestätigt am 11. November 2012



**MACO
SERVICES**




MAYER & CO BESCHLÄGE GMBH

ALPENSTRASSE 173
A-5020 SALZBURG
TEL +43 662 6196-0
FAX +43 662 6196-1449
maco@maco.at
www.maco.at

MACO BESCHLÄGE GMBH

Haidhof 3
D-94508 SCHÖLLNACH
TEL +49 9903 9323-0
FAX +49 9903 9323-5099
d-maco@maco.de
www.maco.de

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