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DMB TECHNICS MARKETS

Household goods
Measurement technology
E-mobility
Industry

Medical technology
Building technology
Automotive industry

More information here:



A GROWING VISION



I started out in the LCD sector over 40 years ago. It was an exciting time in which I helped to shape the STN patent, which had global significance. I took this experience and passion and founded DMB Technics AG 20 years ago together with two colleagues.

Initially, we concentrated on passive LCDs, but as technology progressed we soon expanded our portfolio to include active TFT LCDs. Over the years, we gradually integrated new add-ons, such as touch panels and dedicated front glass panels, in order to offer our customers tailor-made solutions.

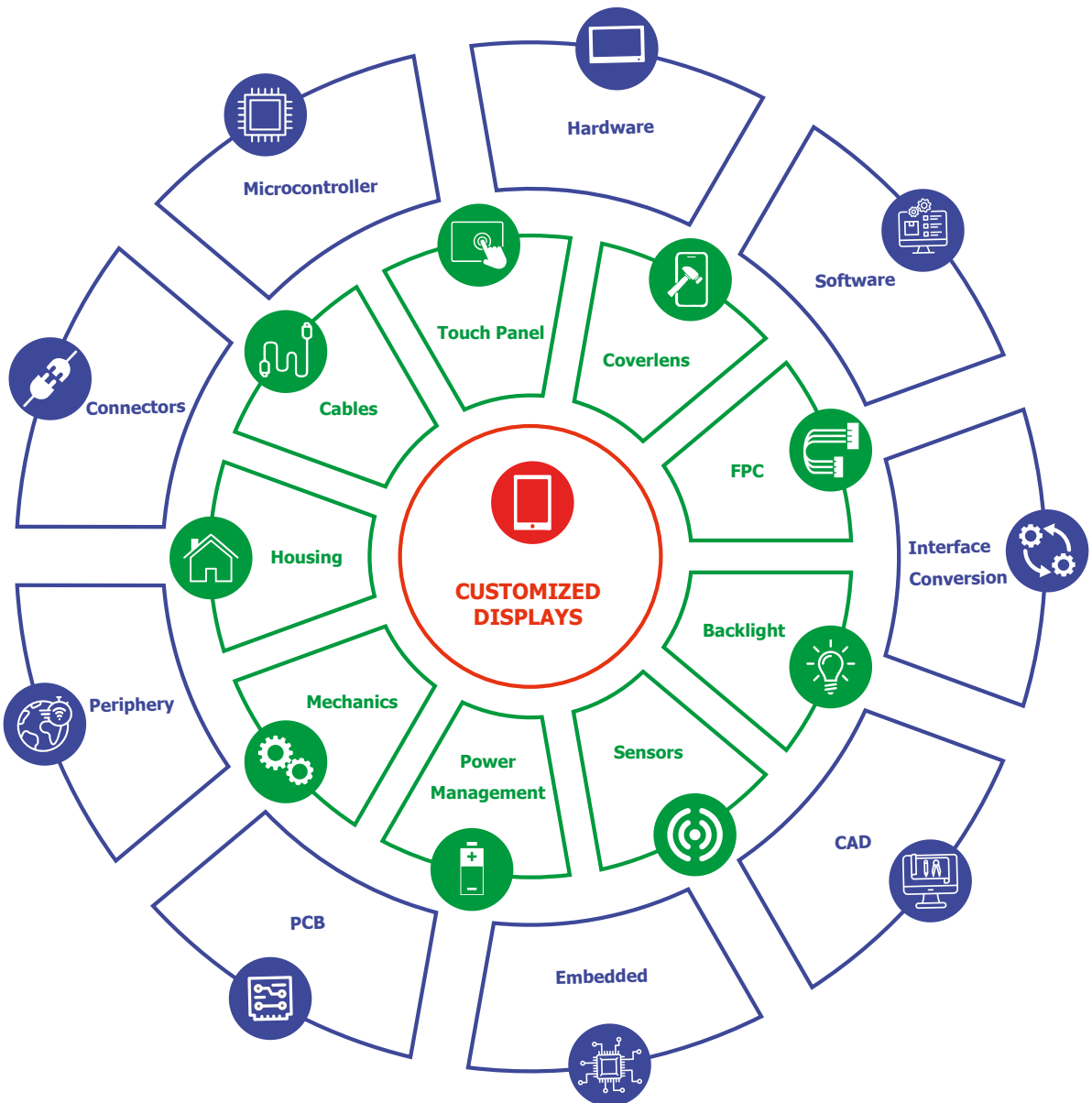
These days, almost every customized display is far more than just a visual presentation. Supplementary mechanical components and, above all, intelligent electronics paired with the respective software are becoming increasingly important. In addition to the customer-specific display, we now also offer exciting, fully integrated, customized HMI-Solutions.

What sets us apart? Our team has unrivalled expert knowledge and approaches display solutions with the utmost customer focus and technical excellence. Our curiosity drives us to constantly develop new, innovative approaches. We are completely customer-focussed – we listen and understand the customer's needs and turn them into a reliable solution.

We recognise risks and trends early on thanks to our wide, long-standing network in Asia and our profound understanding of local markets, supply chains and culture. Supported by a team on site, we offer our customers a decisive advantage and added value in our collaboration.

Dieter Heimgartner, founder of DMB Technics AG

FROM CUSTOMIZED DISPLAYS TO CUSTOMIZED HMI-SOLUTIONS



CUSTOMIZED DISPLAYS



The display is the core element of every human-machine interface (HMI). Rapid technological advances have brought a multitude of possibilities, such as high-resolution AMOLED displays, classic LCD technology and energy-saving e-paper solutions. Our many years of experience and our broad portfolio mean we can offer customized solutions for your specific requirements. We select the optimal display for you using all available display technologies:

TFT displays

AMOLED displays

ePaper displays

LED displays

LCD displays

PMOLED displays

FALD displays

Micro LED displays

More information here:



CUSTOMIZED ADD-ONS



Our displays go well beyond the standard. We adapt them precisely to your requirements by integrating customized add-ons, from customized touch panels and cover lenses, customized backlights, individual FPC connections and pinouts to LED drivers and sensors such as ambient light and proximity and audio interfaces. We optimise power management, offer mechanical add-ons such as mounting solutions and light guides, and take care of the housing – whether it's injection moulded, sheet metal or milled parts. Finally, we fit your individual display with pre-assembled cables for seamless integration.

Backlights

FPC

Touch panels

Cover lenses

Power management

Mechanics

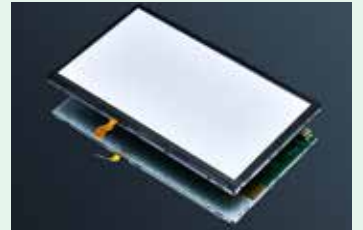
Housings

Sensors

Cables

BACKLIGHTS

For LCD and TFT displays, the right backlight is crucial for perfectly displaying your content. We offer customized backlight solutions with an optimal match for the brightness, colour temperature, energy efficiency and form factor of your application. Integrating FALD technology can also significantly increase optical performance. Special LED drivers, uniform illumination or special requirements – whatever your vision, we are here to implement it.



FLEXIBLE PRINTED CIRCUIT BOARDS (FPCs)

Our flexible printed circuit boards (FPCs) can be individually adapted for length, shape and pinout. They enable the integration of board-to-board connectors instead of ZIF tails, offering EMI shielding if required and allowing connection combinations for the display, touch panel, sensors and power supply – for a compact and reliable solution.

More information here:



TOUCH PANELS

Touch panels are an indispensable part of modern human-machine interaction (HMI). They form the interface between people and technology and define the user experience to a large degree.

Technological diversity for optimal performance

Capacitive touch panels (CTP/PCAP), other technologies such as infrared touch (IR) and resistive touch panels (RTP) – we find the ideal solution for your specific requirements. We consider elements like sensor structure, glass thickness and operating requirements to ensure outstanding operating precision.

Intelligent control for smooth processes

An optimally coordinated touch driver IC and customized firmware are crucial for the performance of your touch panel. At DMB Technics AG, we have the expertise to perfectly match these components to your application to ensure smooth processes.

Robust parts for demanding applications

Our touch panels are always precise and, if your application requires it, robust as well. For example: they operate reliably even with thick gloves (glove touch) or under the influence of water or other liquids (waterproof). This makes them suitable for demanding applications where other systems fail.

Durability and optimal readability

We offer a variety of assembly methods to ensure a long service life and optimal readability of your touch panels. In addition to cost-effective air-gap bonding, we often use optical bonding to further improve durability and readability.

More information here:



POWER MANAGEMENT

Our solutions are flexible enough to adapt to the voltage sources of your electronic systems. For example, we enable a single voltage supply by using DC/DC transformers, or boost or step-down converters directly on the FPC. We also integrate LED drivers as well as VCOM and VGH/VGL controls for optimal display performance.



MECHANICS

Every application has highly specific requirements for the mechanical integration of an HMI. With our many years of experience from countless projects, we always implement the optimal solution. One example: sealing in the customer's housing.

- Sealing between the cover lens and the housing with high-performance adhesive tapes
- Sealing of housing openings with EPDM or silicone seals

Depending on the application, we can guarantee everything from simple dust-resistance and protection against splash water to complete protection class IP68/69 watertightness – for long-lasting, reliable solutions.



HOUSINGS

Our customized housing design adapts precisely to your requirements. Depending on the area of application and material preference, we offer:

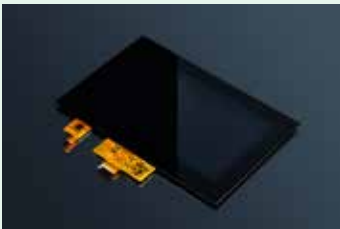
- Injection-moulded housings with different plastics such as ABS, PC, TPA, silicone
- highly stable CNC-machined aluminium housings with matching surface finish

For perfect integration and optimal protection of your electronics.



COVER LENSES

By using different materials such as glass panels in a variety of forms or PMMA plastic, our cover lenses not only offer mechanical protection, but also versatile design and finishing options. AG (anti-glare) treatment or AR (anti-reflective) and AF (anti-fingerprint) coatings, free form design, screen or ceramic printing and hidden decor for a seamless, modern appearance.



SENSORS

We integrate sensors directly into the HMI design to optimise the user experience. Ambient light sensors for automatic brightness adjustment or proximity sensors for contactless operation – our solutions adapt perfectly to your requirements.



CABLES

We also supply customized cables that are perfectly tailored to your application. With optional high flexibility, interference shielding or special lengths and cross sections, our solutions ensure a reliable connection in any environment.



CUSTOMIZED HMI-SOLUTIONS



How do we define an HMI-Solution? For us, the key is state-of-the-art display and touch technology combined with integrated intelligent electronics. Only intelligent electronics can turn a display into a real interface between human and machine – the core of every HMI-Solution. We can integrate powerful hardware as well as customized software into our solutions. This symbiosis enables us to develop HMI systems that are perfectly tailored to our customers' requirements. Our HMI-Solutions are as flexible and customized as our customers' applications.

Hardware

Software

CAD

PCB

Microcontroller

Embedded

Interface Conversion

Connectors

Periphery

HARDWARE | PCB

The electronics are the core of every HMI. We offer fully customized PCBA design that's perfectly tailored to your requirements. For PCBs in rigid, multilayer or flex configurations – we develop intelligent solutions with microcontroller integration for maximum performance.



SOFTWARE

Efficient software development tailored to your application and requirements. We coordinate GUI designs, driver development and business logic to create customized solutions for your systems – flexible, reliable and optimally integrated.



PCB | INTERFACE CONVERSION

We ensure the seamless integration of your electronics by adapting interfaces to your requirements. RGB, LVDS or MIPI DSI, or other interfaces such as HDMI, eDP, SPI and I²C – we offer the right solution for maximum compatibility.



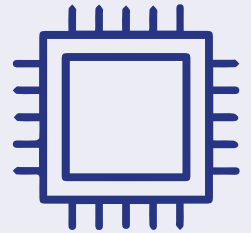
PCB | PERIPHERALS

Maximise the performance of your HMI by integrating actuators, I/O interfaces, memory solutions, cameras, speakers and NFC technology. This creates a smart, versatile solution that's perfectly tailored to your requirements.



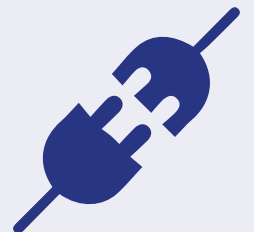
PCB | MICROCONTROLLERS

Microcontroller integration (e.g. STM32, ESP32, NXP, RT1170) enables intelligent and powerful HMI solutions that are individually tailored to your requirements for maximum efficiency and flexibility.



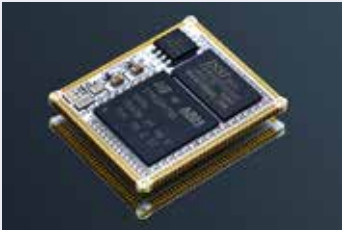
PCB | CONNECTORS

We use connectors that are precisely tailored to your requirements and applications for optimal integration of your electronics. Whether you want standard or special solutions – we enable the use of various connector types for data, signal and energy transmission. We ensure maximum compatibility, reliability, long-term availability and easy integration into your existing system architecture.



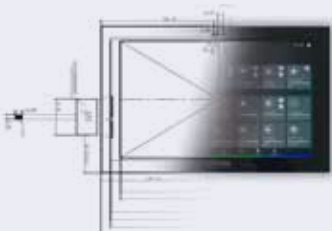
PCB | EMBEDDED

By integrating system on modules (SoM) on a carrier PCB, you can create compact, powerful solutions for demanding applications. Using various MCUs and integrated functions such as Bluetooth and WiFi ensures a flexible, scalable and energy-efficient system architecture. This allows for easy integration of complex functions, individually adapted to your requirements.



CAD

We use all common 2D and 3D CAD formats for precise product development. The seamless exchange of data and coordination between all participants ensures efficient, smooth collaboration, no matter whether you're using 3D design, eCAD or MCAD.



ASIA TEAM – LOCAL PRESENCE FOR MAXIMUM EFFICIENCY



MAGGIE YANG

Supplier Relationship Manager
Commercial Affairs



JENNY ZHANG

Supplier Relationship Manager
Quality Affairs



MATT FUNG

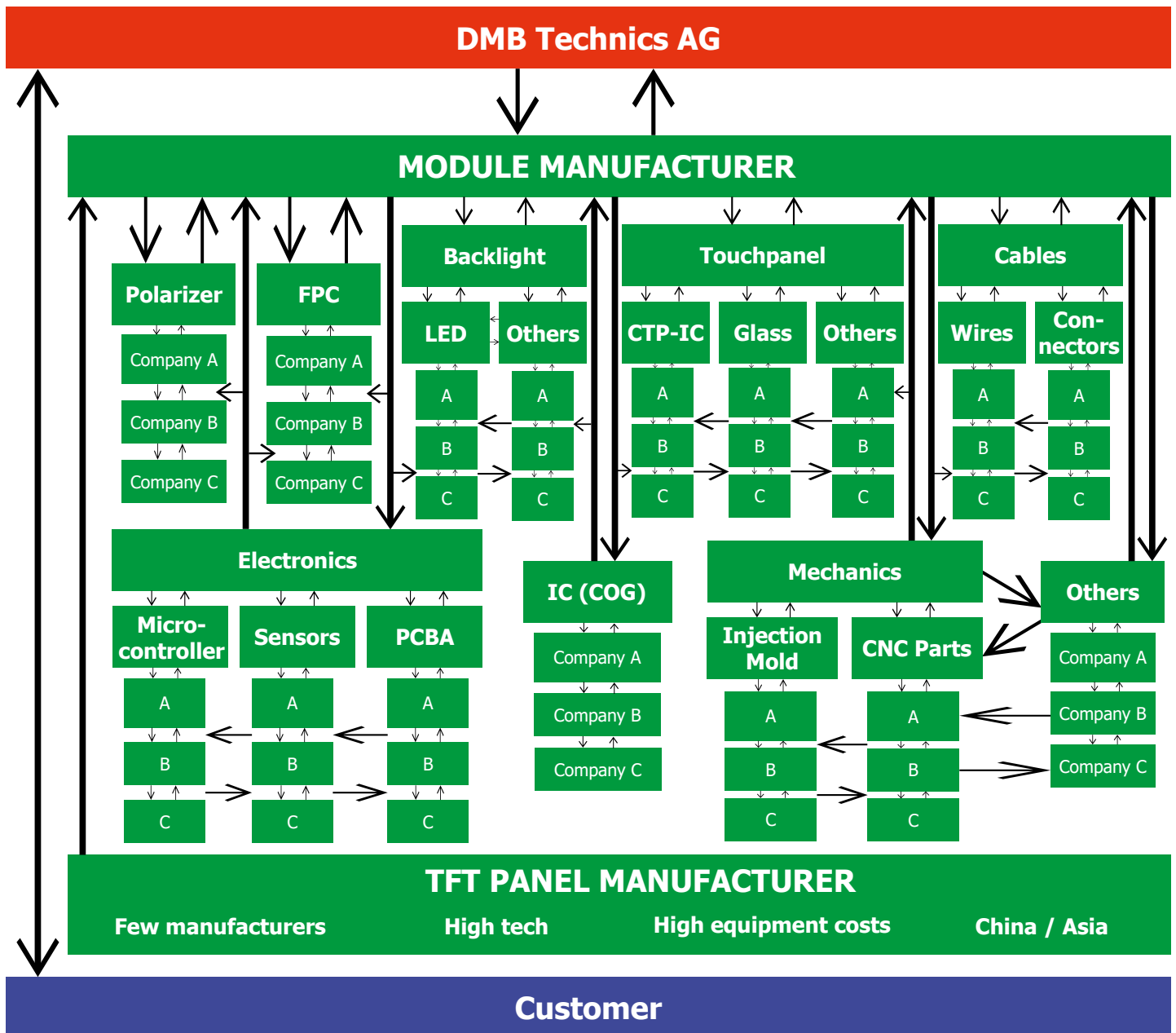
Resident Project Manager

We rely on a strong local presence with our own employees on site. This enables us to work closely with our production partners and to ensure our quality standards and efficient coordination along the entire supply chain.

We have had our own team in China and Taiwan for over 10 years, ensuring close cooperation with our production partners. This local presence means we can quickly be on site with our direct suppliers – and in particular, our indirect suppliers – when required and react flexibly to changes in the supply chain.

Together with our European team, our Asia team regularly carries out audits and initial sample tests directly at the manufacturer's premises to ensure our high quality standards. With our employees working in the same time zone and native language as the manufacturers, smooth communications and efficient coordination are a given. The close connection to the production sites also helps us to identify trends early on and respond proactively. At the same time, our teams are seamlessly integrated into DMB processes and understand our international customers' specific requirements very well. This ensures the highest quality, security of supply and optimal support along the entire supply chain.

SUPPLY CHAIN – COMPLEX PROCUREMENT SITUATION



SUPPLY CHAIN – COMPLEXITY AND DEPENDENCIES IN THE DISPLAY INDUSTRY

A display assembly consists of numerous individual components that are manufactured and brought together in a highly complex supply chain. There are a few particularly crucial components that the entire industry depends on.

The actual cells or panels of modern TFT and AMOLED displays come from just a handful of manufacturers, most of which are based in China. COG (chip-on-glass) and driver ICs also come from a very limited number of suppliers. These core components are then assembled by manufacturers to form complete display modules. This step involves processes such as COG/FOG bonding, polarisation film lamination and backlight assembly.

The entire supply industry for these components – from glass substrates to ICs and backlights – is predominantly located in China. That's why proximity to the manufacturers is essential for the efficient management of supply chains. We know this market better than just about anyone else thanks to the network we have built up over many years. Our profound understanding of market mechanisms and dependencies enables us to minimise supply security risks and ensure long-term availability of displays for our customers. And having our own DMB team on site means we are always close to the action, ready to respond quickly to developments.



OUR VISION, MISSION AND VALUES

Vision

We are the experts in human-machine interaction.

Mission

The long-term success of our partners is our top priority. Through customer focus and expertise, we develop customized and innovative solutions. We strive for excellence in all areas.

Values

Customer-focused

Excellent

Reliable

Solution-oriented

Curious

OUR SERVICES

Matching customer requirements to manufacturers

We find the right manufacturer for your individual needs to create optimal solutions.

Much more than just traditional distribution

In addition to all-round technical service, we take care of the whole delivery process until the end product is safely in your warehouse. From forecast handling and various delivery types (cost-optimised direct sea freight to express parcel service from our European warehouse) to flexible logistics models (delivery plan connection, consignment warehouse and Kanban) and complete import processing – we ensure that everything runs smoothly.

Feasibility and concept studies

We verify the technical feasibility of your ideas and use them to develop tailor-made concepts.

Product optimisation

We optimise existing display solutions to improve performance, efficiency and, above all, costs.

Service-oriented advice

We offer comprehensive advice and support – from conception to the implementation of your solution.

Service throughout the entire product life cycle

We support your project from the first idea in product development to the end of the project life cycle in after-sales service.

WHY DMB? – OUR EXPERTISE

With over 20 years' experience in the display industry, we are your partner for customized solutions. Our experts combine in-depth knowledge with innovative technologies to develop displays and HMI solutions that are tailored precisely to your requirements.

Know-how

With our many years of technical know-how and our comprehensive, in-depth understanding of processes, we develop solutions that are precisely tailored to the needs of our customers.

Close customer relationships

With highly motivated personal contacts, we guarantee our customers fast, expert competent support for all their concerns.

Asia network

We recognise risks and trends early on thanks to our wide, long-standing network in Asia and our profound understanding of local markets, supply chains and culture. Supported by a team on site, we offer our customers a decisive advantage and added value in our collaboration.

Production partner selection

With a deep understanding of our production partners' skills and strategies, we select the optimal partner for every customer project.

Agile organization

With our high level of personal responsibility, lean organisation and minimal bureaucracy, we act efficiently and quickly.

Financial stability

Our stable financial basis means we can react to market changes, enter into strategic partnerships and make long-term investments.

DMB TECHNICS – YOUR BENEFITS

Development and production from a single source

We support you throughout the entire development process – from conception and design to series production. Working closely with you, we ensure that every display is tailored precisely to your needs.

Future-oriented innovation

Our innovation team is constantly working on new technologies to offer you the best and most advanced display solutions at all times. We think ahead and develop solutions that give you a competitive advantage.

In-house laboratory for utmost quality assurance


Our in-house laboratory is equipped with high-precision measuring instruments and the latest testing technology to ensure the highest quality standards. We optimise contrast, brightness and colour fidelity through optical measurements, while electrical tests ensure the functionality and efficiency of our displays. In addition, environmental and long-term tests simulate extreme conditions such as temperature, humidity and UV radiation, while mechanical stress tests check the stability and robustness of our solutions.

FROM YOUR NOTEPAD TO OUR CUSTOMIZED SOLUTION





The Customizing Class

YOUR EXPERT FOR CUSTOMIZED DISPLAYS AND HMI-SOLUTIONS

 engineered in Switzerland

Get in touch!

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**Or configure your customized
HMI-Solution with our Display
Expertiser!**

