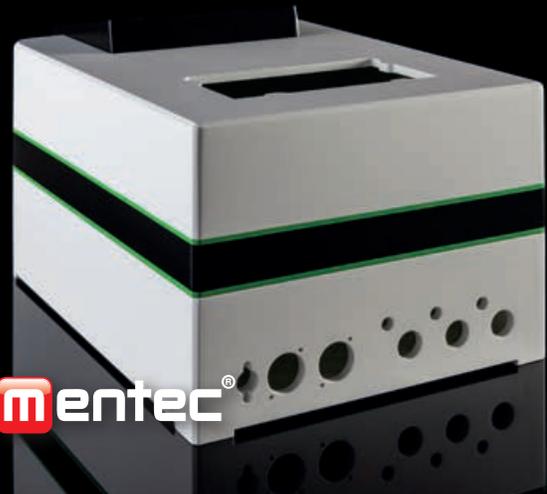




Our housings:  
The most beautiful way  
to present  
your products!

 **mentec**<sup>®</sup>



**mentec**<sup>®</sup>

## **mentec<sup>®</sup> GmbH – a very special company!**

Ladies and gentlemen, dear readers,

If you want to manufacture attractive products economically, it is worth investing your time in reading this brochure.

Get to know the many possibilities of mentec<sup>®</sup>.

We form many types of plastics into complex shapes through sophisticated processes and combine them with other components. This results in individual, durable and functional plastic housings from a batch size of one up to series production.

Furthermore, we offer you various functional elements such as membrane and rubber keypads, touch displays or exclusive products from our acrylic glass factory.

Let us convince you - about us - our ideas - our team and our work!

Your mentec<sup>®</sup>-Team



#### Thousands of opportunities

As you can see in this picture, there are countless options for shaping and material combination.

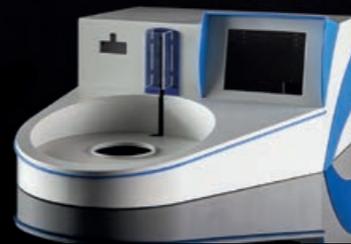
For example, a combination of aluminium and polystyrene (UL94 V0), a fire-retardant material...



#### Specially adapted

This all-in-one housing accommodates monitor and technology, the EMC coating shields electromagnetic radiation. The openings of the housing allow optimum cooling and are precisely matched to the cable sockets.

With our K-BOX® technology, your housing is adapted precisely to the technology you design – not the other way round!



#### Shapes and colours

Our K-BOX® technology includes a multitude of forming processes. This enables us to manufacture even complex moulds in small quantities without the need for costly tool production.

The material combination of various plastics and acrylic glass displayed here was chosen with care. A visually pleasing result was achieved which meets the desired and functional requirements of the materials.



#### A broad range of experience

Realization of thousands of different housings with a wide range of requirements has enriched and increased our creativity.

In this example a light guide was installed because the diodes could not be led to the outside of the housing.



#### Big hatch...

It engages with the aid of a ball pressure piece and opens very wide. The housing is light and portable thanks to the aluminium handle. Shape and colour create a harmoniously dynamic look.



#### Surfaces

Smooth, grained, polished, glossy, brushed, lacquered, transparent, carbon look. Each surface or surface finish has its own character and specific properties.

We will be happy to assist you in the selection of materials.

## Plastic housings – economical in any quantity!

We can do something that most of our competitors are not able to do: produce small and medium batch sizes of complex plastic housings at economical prices.

Shorter product cycles always require a lot of flexibility in manufacturing. Profitability has to be taken into account. We have implemented production processes such as the K-Box® technology, which shapes plastic without needing specially manufactured tools for a specific mould. This saves time and money, especially with small series or prototypes.

Our production sites in Eisenberg/Pfalz and Surberg/Bavaria offer you different production levels and thousands of options:

EMC coatings shield electromagnetic radiation, light guides, numerous mechanical accessories for opening, closing, fastening..., various shapes, colours and surfaces, functional or optical combinations of different materials...

We will be pleased to assist you with our knowledge and experience during the development and, of course, accompany you through to the final product.



## High-quality processed acrylic glass shows exclusivity

Acrylic glass is an attractive material when it comes to high-quality products. In our acrylic glass factory in Surberg near Traunstein we produce masterpieces in terms of design and quality with experienced employees and state-of-the-art laser technology.

For our housing production this means that we can produce and offer you transparent covers, windows, light guides or even complete housings made of acrylic glass in excellent quality.

We also use this fantastic material more and more often as a design element. Whether for a single order or series production: we deliver!



Our success is based on our determination to provide high-quality products at competitive prices for satisfied customers with competent employees.

By striving for a mutually successful business relationship, we never lose sight of the benefits for our customers.

Due to this attitude, our loyal customer base continues to grow. With the honing of our production processes and the experience gained through constant new challenges from our customers, we get better and always are a little bit ahead of the pack!

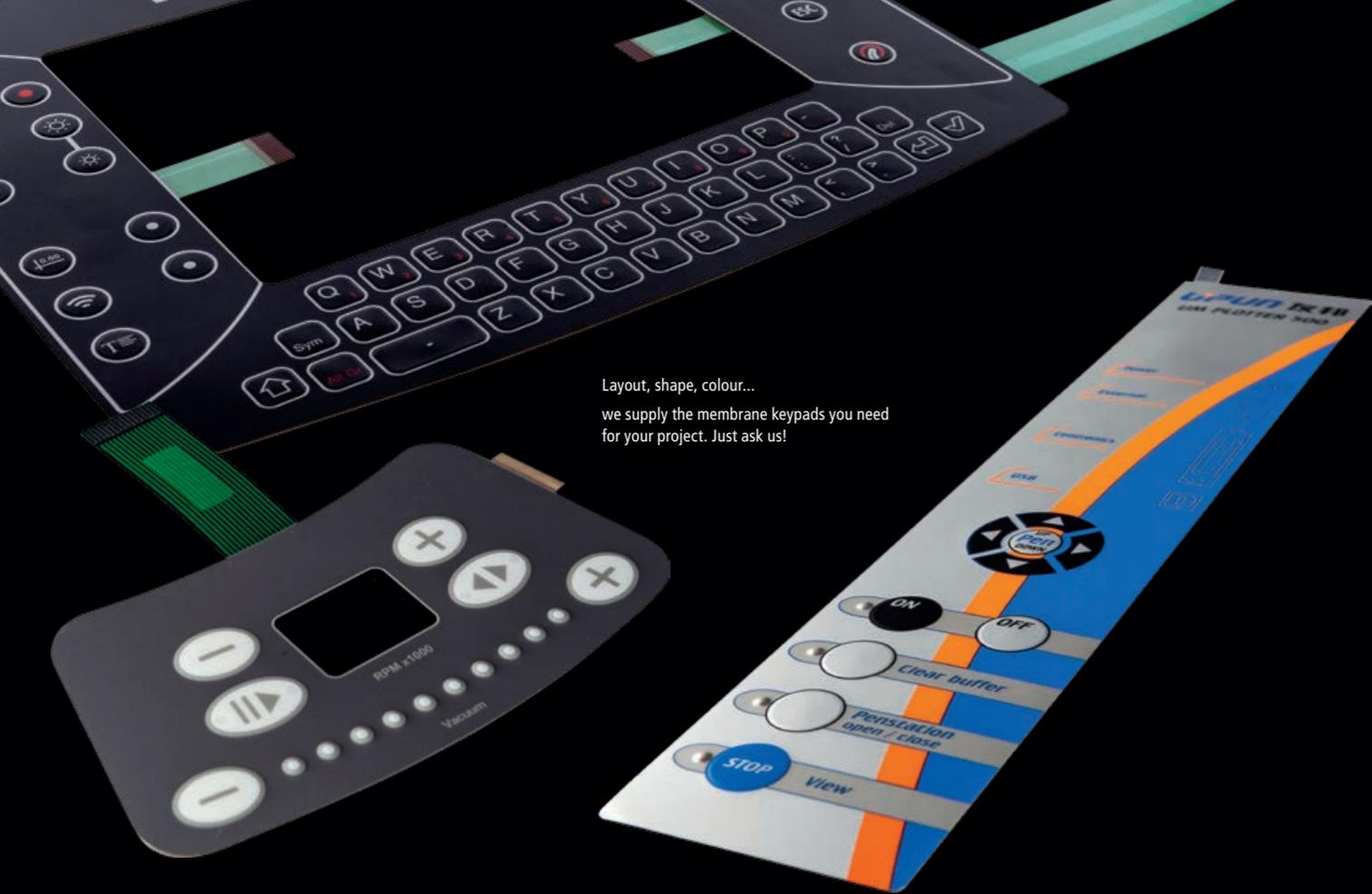
We are committed to meeting the specified requirements for our services and products.

## State-of-the-art laser and milling technology – New: Formats up to 3000 x 2000 mm

In order to realize high quality products, you need the best technology and people who love and understand it. We have both! Our motivated team operates large machinery including ultra-modern CNC milling machines, CNC laser cutters, bending machines and other systems for plastics processing.

At mentec all processes seamlessly integrate from development to production planning, production, to quality control - and can be optimized and tuned at any time if required. In 2017 and 2018 the complete CNC production machinery was renewed and substantially extended.

We can now also process panel formats up to 3000 x 2000 mm (e.g. shower cabins for caravans). All internal processes, both in manufacturing and administration, are strictly in accordance with the requirements of DIN EN ISO 9001:2015. All processes have been adapted to our high quality standards and are constantly monitored and optimized.



Layout, shape, colour...

we supply the membrane keypads you need for your project. Just ask us!

## Membrane keypads from mentec<sup>®</sup> – feel the difference!

Most technical devices require communication interfaces. Membrane keypads or overlays are often used as a cost-effective solution. As a supplement to our housings or as an individual order, mentec offers you a wide range of individual, customer-specific implementation options. We also offer these technologies:

- Screen or digital printing
- Different surfaces (matt, glossy, brushed, antibacterial)
- Metal domes from 6 to 20 mm
- Conductor tracks in silver ink or for special requirements in copper
- Integrated LEDs or side LEDs
- Key illumination by EL foil or light guide (LGF)
- Keys with doming (epoxy)
- Special construction for high IP protection class
- Integration of touch panels
- Keyboards based on printed circuit boards
- Extra high embossing for improved touch sensitivity
- Integrated EMC shielding
- Membrane keypads with silicone covers
- Capacitive membrane keypads (touch panels)
- Keypads on metal plates

We are happy to help to design an optimal product for you.



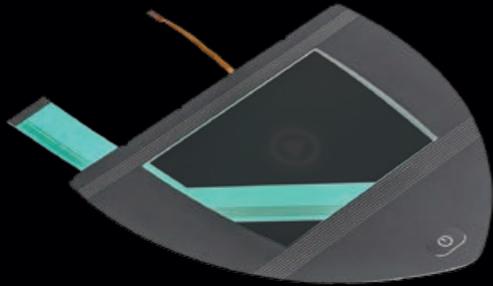
A backlit silicone keypad, individually manufactured for the needs of our customer.



Silicone keypad with lacquered surface. Laser etched and backlit symbols.



Silicone keypad with coloured plastic caps for special requirements.



Surface and shape of our touch panels are individually adaptable.



Of course also in combination with a membrane keypad.

## Silicone keypad – robust and resistant

Our silicone keypads can withstand many adverse environmental influences like moisture, chemicals, dirt and high-load capacity... and they come at attractive production costs. These are just a few reasons why silicone keypads are used in so many areas, often without being visible.

There are almost no limits to design and haptics, because the key's size and height as well as key stroke and the necessary pressure force are freely selectable.

Additionally, the highly elastic material can seal the housing or can be used as a light guide for backlit keys. Another very attractive form is the keypad based on a membrane keyboard, which combines the advantages of both systems.

## The touch panel – operate devices intuitively!

The electronics of our touch units allow the display of a variety of buttons. This makes it possible to realize even complicated menu controls in a user-friendly way. As with our other products, we supply you with touch panels that are customer-specific and individual. Some standard sizes are also available. In combination with a membrane keypad or overlay you receive a complex control unit, which allows you complete freedom.

- Maximum size 550 x 410 mm or 21.5 inch
- 4-, 5- or 8-Wire technology
- Capacitive or resistive design
- Life expectancy of 1,000,000 actuations or more depending on technology
- Surface hardness > 3H



We deliver numerous milled and turned parts made of metal and plastic. We are looking forward to your inquiries!



Accessories are not only functional - correctly chosen, they often decisively underline the appearance of the finished housing. We always have a large selection in stock.

## Milled and turned parts

From prototypes to mass production, we assemble milled and turned parts. As a supplement to our housings or as an individual product, we can mill components from various plastics for you – with a surface finish if required. In addition, we supply milled and turned parts made of plastic, aluminium and stainless steel, even without housings. Ask us – we will be pleased to give you a quote!

We deliver numerous milled and turned parts made of metal and plastic – We look forward to your enquiries!

## Over one million housing accessories...

... are always in stock, so that we can supply you quickly and easily with perfect plastic housings. Various housing foot variants, screws for thermoplastics (PT screws), hinges, handles, locks and countless other components are available for your projects.

Let us advise you which accessories may be best suited for your task.



## Thank you for your interest in our services and products

As you can see - we do not only shape plastics – we create functionality in attractive designs at reasonable prices, even for small quantities.

For example, we provide a precisely fitting plastic housing with a great surface, several acrylic elements, a membrane keyboard and a touch panel, placed on elegantly designed feet and secured with a locking system.

Interested? Call or write to us – right now!



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