

BÖLLHOFF

SUCCESS
STORY

Creative. Visionary. Successful.



Efficient cooperation is the foundation for success. Yours and ours.

Passion for successful joining.



kessler systems and Böllhoff create contact



The company kessler systems

Since its foundation in 2010, kessler systems has expanded continuously.

Located in Königseggwald, the company is specialised for conductor plates and electrical components as well as systems and tools from prototyping, smaller and medium series to large-scale production.

Over seven million produced components and more than 1,000 projects could be realised within the last six years.

kessler systems is internationally represented by subsidiaries and partners in Portugal, Lithuania, Bulgaria, China, Taiwan, Korea and Hong Kong.

The customer portfolio includes development offices, medium-size companies and conglomerates from industrial electrics, lighting technology, IoT, embedded systems, communication electrics, automotive industry as well as sensor and data processing technology.

One customer is Gühring KG, based in the Swabian town Albstadt-Ebingen.



Touch display made by kessler systems on a tool dispensing system of Gühring

Innovative tool management

Gühring KG is one of the worldwide leading manufacturers of rotating precision tools for metal cutting. Its portfolio comprises amongst others the tool management. Tool dispensing systems including IT-based management connect production with information technology and increase consequently efficiency as well as flexibility. This service guarantees the customer a transparent and optimised cutting process.

The integrated Gühring Tool Management Software is simply used via the attached touch display on the tool dispensing system.

Initial situation

kessler systems assembles these displays for tool dispensing systems in their own production. In order to fasten the display halves, process-reliable joining elements should be used. They have to be fixed invisible on the glass surface to emphasise the design of the touch screens. Moreover it is assumed, that the finished display then can be easily screwed to the housing of the material dispensing system.

In case of larger glass or touch screens, the processing of the used elements should also be flexible and efficient.



Bonded ONsert® in a display of kessler systems



ONsert® Portable

The solution: ONsert® – Bonding of fastening elements

The ONsert® technology allows the adhesive bonding of various fasteners to a wide range of materials. As a specialist in mechanical joining systems, Böllhoff has developed together with DELO, the expert in intelligent adhesive technology, a new fastening system which combines the best of both worlds.

The solution: our ONsert® Smart type. Fastening elements with a socket made of transparent plastic are bonded to the customer component using light-curing adhesive. The short cycle times, the material-friendly process as well as the flexibility of the fasteners and the processing are the most important aspects.


The manual processing of the ONsert® fastener is done by the battery-operated LED curing lamp ONsert® Portable. Simply position the device, press down, and start the joining process by pressing the start button. The light source comes on for a specified exposure time, in which the adhesive hardens. The relevant parameters can be set on a PC and transferred to the tool.

With the ergonomic ONsert® Portable and its short curing times, kessler systems processes both smaller and larger quantities efficiently. About 10,000 pieces of ONsert® Smart fasteners in the dimension M 6 x 18 are assembled annually in displays for tool dispensing systems.

Did we spark your interest? Talk to us.

Customer benefits

- Full mechanical load capacity immediately after irradiation (< 4 seconds)
- Fastening elements cannot be seen on the visible side
- The ONsert® joint does not need a drilling into the glass surface
- Can be processed manually or automatically



Worldwide for you a strong partner – at 39 locations in 24 countries.

Böllhoff Group

Archimedesstraße 1–4 | 33649 Bielefeld | Germany

Phone +49 521 4482-1387 | Fax +49 521 4482-658

fasteningtechnology@boellhoff.com | www.boellhoff.com



Subject to technical change.
Reprinting, even in extract form, only permitted with express consent.
Observe protective note according to ISO 16016.