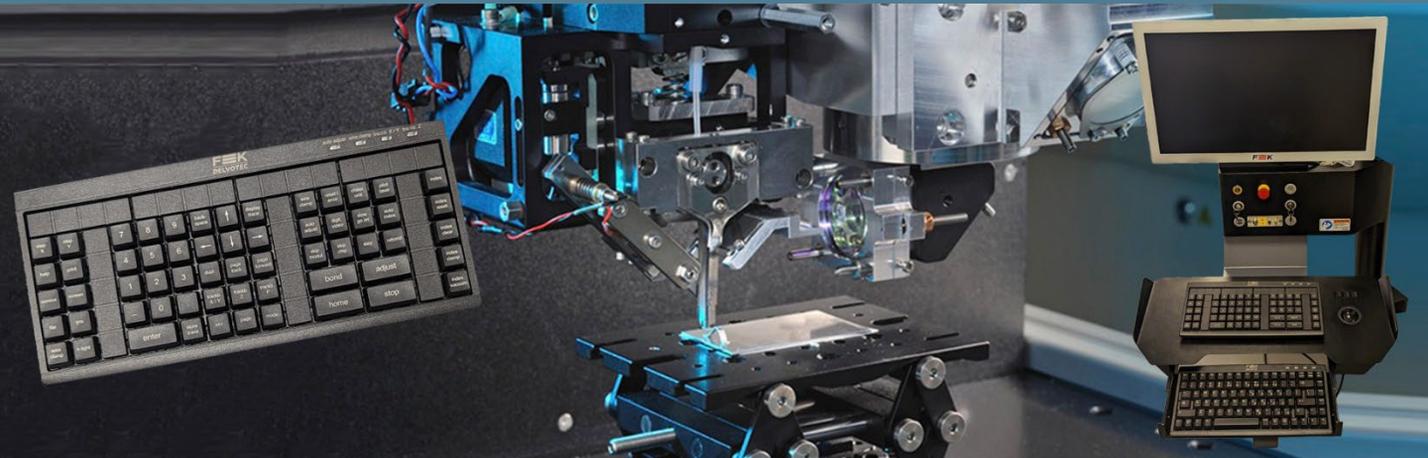


Individual Machine Control with Customized Industrial Keyboard



Challenge

Ultrasonic laser bonding machines that are used in the manufacturing of power electronics (for example, in the automotive industry) are one of F & K Delvotec top notch products. The highly innovative laser bonding developed by F & K Delvotec combines the advantages of wire bonding and laser welding in a state-of-the-art technology.

For these newly developed high-tech systems, the bonding technology company was looking for a functional control panel. The machine control should match the operating parts of their traditional bonding machines regarding the layout, status indicators and installation situation. Furthermore, an additional industrial keyboard with the same compact dimensions was required for software programming and text input. Therefore F & K Delvotec was in need for a second, alphanumeric keyboard with a small footprint.

Solution

We were able to program all the necessary operating commands for the machine control into our compact keyboard MCI 96. The layout could be structured in the usual function blocks so that the operator can quickly find his way around. Various statuses of the machine and its elements are indicated via the status LEDs of the programmable built-in keyboard.

The industrial keyboard MCI 96 convinced our client with its compactness, ergonomics and its industry-optimized robustness in regards of ESD, dust and splash water protection as well as reliability. Both keyboards have been perfectly adapted to the installation situation with fitting screwing points. In the future, F & K Delvotec will equip each new laser bonding machine with two PrehKeyTec keyboards.

"In cooperation with PrehKeyTec, we were able to quickly and easily create the ideal machine control for our requirements with a high degree of customization and quality, at an extremely reasonable price."

Daniel Linscott, Development Engineer at F & K Delvotec

Contact

Since the company was formed in 1978 **F & K DELVOTEC GmbH** (<https://www.fkdelvotec.com/en/>) has regularly produced pioneering work in the development of revolutionary new technologies that have subsequently progressed to market standards.

One of several reasons for this is the uncommonly high investment in research and development, unusual for a medium sized company. This is often tied in to combined research projects such as Wirecoat, RoBe, HotAI, or Flexjoin with leading companies in the semiconductor and electronics industries as well as internationally recognized research institutes.

Numerous awards underline the status of innovation leader, most recently the Innovation Award from Productronica 2015 for the revolutionary Laser bonder.

PrehKeyTec GmbH (<https://www.prehkeytec.com/>) is a leading international manufacturer of high-quality data entry solutions for professional applications. In close cooperation with our business partners, we develop and produce specific keyboards and scanners at our headquarters in Mellrichstadt. Our products give our worldwide customers advantages in terms of reliability and efficiency in manufacturing, retail and many other sectors.