The modular core of the ZED device family

ZELTWANGER is setting new standards in leak and functional testing with the universal measuring module ZEDcore.

(Dußlingen, 09/09/2019) Modern, high-performance, and modular – ZELTWANGER is taking leak and functional testing in a new direction with the revolutionized ZED device family. As well as a new design and increased computing power, the ZEDcore measuring unit primarily enables high-end leak testing devices to be adapted to customer requirements even more precisely and quickly, and test processes can be integrated into production workflows more easily. In plug-and-play mode, they can be inserted by the customer independently and started without further installation. For companies, this means more flexibility, more efficiency, and more Industry 4.0.

ZEDcore – modularity is the core of the ZED device family

Fiercer competition, increasingly autonomous production processes, shorter cycle times – ZELTWANGER has not only redesigned the ZED device family, but has also launched a completely new modularity aspect with the ZEDcore to support companies with the challenges they are facing.

“The building block principle of the new ZEDcore measuring modules is unique on the market,” explains Steffen Nabholz, Head of Sales at ZELTWANGER Dichtheits- und Funktionsprüfsysteme. “They form the core of the device family.” If they were previously permanently installed in the majority of devices, the measuring circuits can be used in ZED devices in future and operated without any issues. This also means that the measuring units can be exchanged for different test procedures or a measuring unit can be used in different devices.

The advantages of this innovation are clear: Increased flexibility in testing procedures; shorter downtimes during production since no installation is required; low spare parts stock since measuring circuits can be easily exchanged; time and cost savings with calibration as only the individual measuring module needs to be sent to ZELTWANGER Dichtheits- und Funktionsprüfsysteme, as well as lower follow-up costs as there is no longer any need for stand-by devices.

OPC UA – the ZED device family speaks the machine language of the future

The leak and functional testing specialists have also adjusted the performance potential of the test systems and increased the computing performance of all devices. They also all feature OPC UA interfaces, which is unique on the market. The uniform interface allows modules to be integrated into existing systems without any programming knowledge and to connect to components from other manufacturers. All ZED devices without exception are therefore ready for Industry 4.0.

Design – the ZED device family is aesthetically pleasing

The entire ZED device family is being given an attractive, uniform look for the future. The ergonomic front deserves a special mention. All leak testing devices have a slightly beveled front, which makes operation easier, even at low heights. And the intuitive user interface, including a multi-touch function on the 16:9-format displays, increases user-friendliness.

“Our in-house application development and our comprehensive service continue to play a major role,” adds Nabolz. With the new modularity in the field of leak testing as well as the intensive cooperation in terms of adaptation, ZELTWANGER is helping its customers to reposition themselves in the area of Industry 4.0 and to take an important step into the future.

ZELTWANGER Holding GmbH

Technology and quality leader

The Zeltwanger Group has established a well-respected position in the market with its modular assembly and testing systems, which can be constructed individually and flexibly. The main focus is on manually linked “one-piece flow” line concepts and ergonomic single-position systems. In addition, fully automated part carrier and robot-based assembly systems meet customer-specific requirements. The range includes leak testing systems, modular assembly systems, pin assembly systems, and polishing systems for ceramic substrate. For use in the medical and biotechnological field, systems are created in accordance with European and American standards and the “Good Manufacturing Practice” guidelines.