

eloprint Introduces a *New Generation* of Test Fixtures

Contributed by eloprint

The new “BAL” test fixture design from the 3D printing start-up enables the programming and testing of PCBs in the smallest of spaces with the highest level of individuality and the option of double-sided contacting.

3D printing is not only the inexpensive way to produce test fixtures, but it also enables outstanding delivery times and individual adaptations for assemblies with any form factor. With the new “BAL” design, eloprint’s test fixtures are now more robustly built and have less wear. A linear guide rail also enables double-sided contacting of the PCBs. With guide pins, PCBs are positioned either by their edge or through holes and placed on a spring-loaded carrier plate. When the test specimen is inserted, there is no contact with the test needles in the needle bed below. By operating the lever, the individual hold-down device is moved from top to bottom, and the DUT is pressed linearly onto the test needles. Assembled components are of course taken into account. If required, a second needle bed can be integrated into the hold-down device, which enables double-sided contacting of the test item.

The “BAL” design was developed especially for small PCBs. Larger PCBs continue to be

contacted with the proven “PRL” adapters. Unlike conventional test fixtures, here the needle carrier is moved upwards to the PCB by operating a lever.

Functional test adapters are delivered within one to three weeks. Traditional systems often cost many times as much with development times of several months. Individual customer requirements are taken into account during the development process: switches, connectors, attachments, etc. pose no problem.

The estimated costs can be calculated individually on the eloprint website (eloprint.com). The costs for development and production are shown separately.

This transparency automatically results in quantity discounts.

Despite the difficult order situation due to Corona, eloprint was able to significantly increase its turnover in 2020 and win many new customers, which enabled the start-up to grow steadily and further develop its products.

eloprint’s customers include small as well as medium-sized and large companies from various industries. Having built up a solid network of new and returning customers, the company plans to further establish itself in Germany and gain a foothold in the international market. To this end, the product portfolio is to be further expanded.



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