

Test your boards with no limits

4060

FLYING PROBE TESTER



4060 is the multi-purpose flying probe system designed to cover the widest range of test requirements. High mechanical **speed**, **dual sided probing**, extreme **accuracy**, comprehensive range of **board loading** modules, overall **configurability** and **fast set-up** changes: **4060's** performances and flexibility give you all you need to adaptably answer your production needs.

Great **ease of use** and **rapidity** are offered by **Leonardo Express**, the operating system of SPEA's testers. Leonardo express allows non-expert users to quickly develop a test program in six completely **guided steps**, requiring just **a few simple settings**.

All-in-one Tester

Board testing with **4060** is accurate and complete: The system can be equipped with a **range of instruments** to perform, in addition to full in-circuit test, multi-function tests including all the techniques required for the board.

Therefore, **4060 can contact simultaneously both sides of the board**, so it represents the most convenient solution when not all components are accessible from just one side. The dual-sided probing reduces the number of moves required to execute the test program, while using a single test program for both the sides, which results in a strong reduction in the overall test time.

Flexibility

4060's test offers the **greatest versatility in use**:

- no product-specific setup
- easy and quick test program development
- product exchanges require only to modify the test program accordingly
- wide test area: 686 x 610 mm

The system can be **flexibly used either in automated way** (with in-line integration, or automated loaders/unloaders from rack) **or loading the boards manually**, with no need of changeover operations.

Extreme Accuracy

Board accessibility is not an issue with **4060**. The flying probes can contact directly the pins of ultra fine pitch components, such as 01005, 0201, RQFP.

Accuracy and reliability are ensured by the best movement technologies: linear motors with magnetic guides and linear optical encoders positioned directly on X, Y and Z axis, with 0,012 µm resolution. The probes are moved with no mechanical friction, and their real position is dynamically measured with precision.

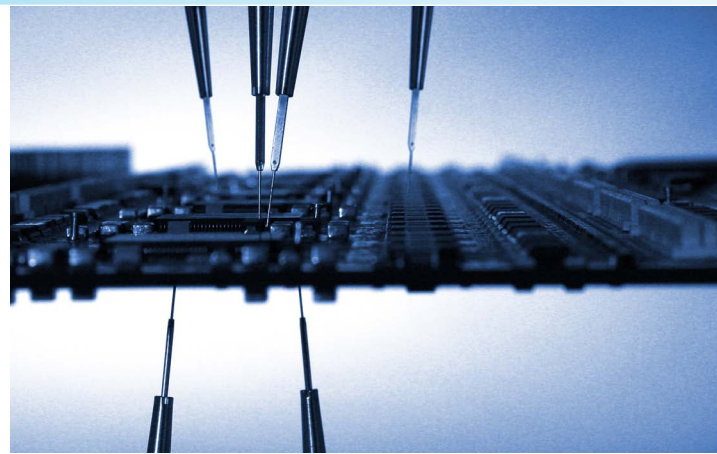
Easy-to-use

Leonardo Express – the new operating system for SPEA testers – is especially designed for non-experts users, to quickly generate a test program also for complex boards with thousands of nets.

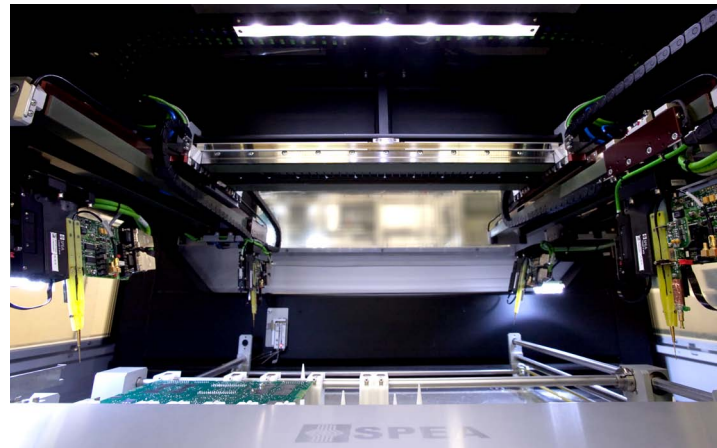
All the steps – CAD import and processing, testability and accessibility analysis, test program generation and debug – are implemented with **the same instrument set**, that is integrated in a graphic interface minimizing the learning curve. **Friendly menus, customizable toolbars** and **on-line help** make the interface extremely easy-to-use.

Main Features

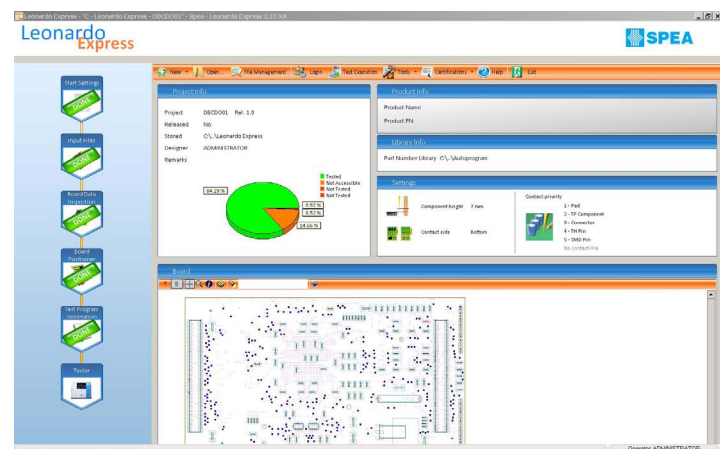
Flying probes	4 top + 2 bottom
Probe angle	16° & 5°
Cameras	2 top + 2 bottom
Axis movement	Linear motors with linear measuring encoders on X-Y-Z axis
Board loading	Manual (front or shuttle-aided loading), In-line, combined
Footprint	1780 x 1240 x 1700 mm
Test area	686 x 610 mm
Input Power	110-240 VAC, 50-60 Hz UL/CSA compliant



The probes contact both sides of the board simultaneously



The probes contact the board with extreme accuracy



Leonardo Express Operating System makes 4060's use extremely easy

Multi-function Test Capabilities

- In-Circuit Test
- SMART In-Circuit Test
- Nodal Impedance Test (NIZT)
- Short test based on nodal impedance measurement
- Open Pin Scan
- Power Test
- On-Board Programming
- Optical Test
- Boundary Scan