Seica

20 Years
Leading the way
Flying probe technology

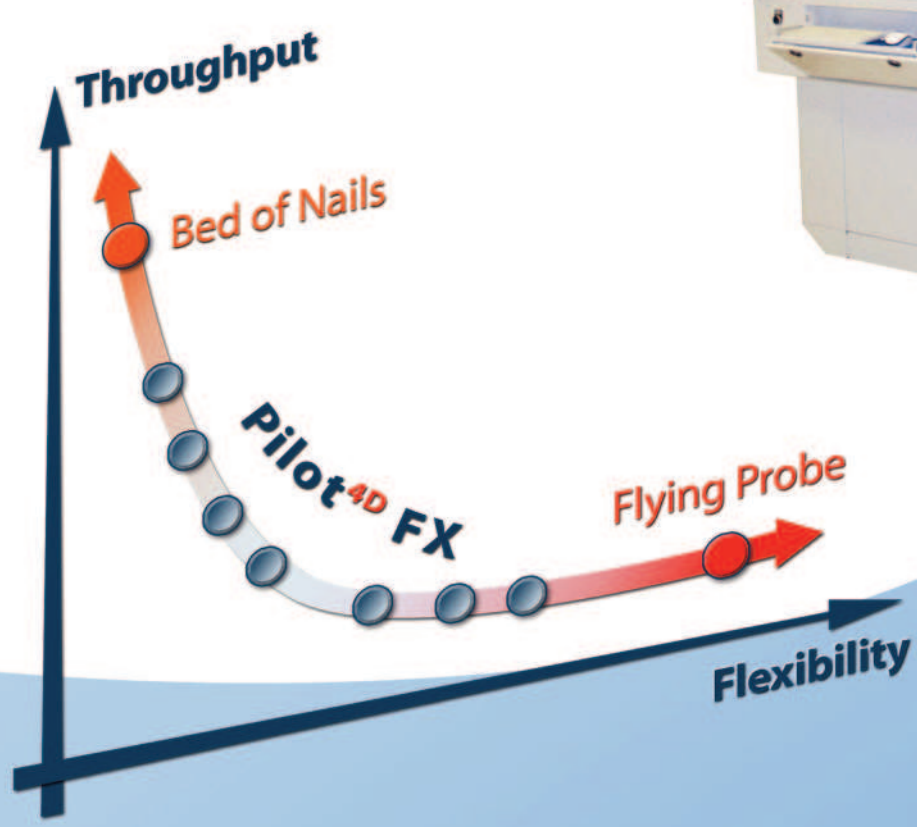
Pilot4D FX

The new **Pilot4D FX** platform revolutionizes in-circuit and functional panel test, bridging the gap between Bed of Nails and Flying Probe test.

Pilot4D FX is the right compromise in productivity and flexibility, designed specifically to test panels.
Thanks to an its revolutionary mechanical architecture, the system optimizes and shares test resources, including special, often costly, instrumentation.

FULL PANEL TEST
at the **cost**
of a single board **TEST**

Pilot4D FX is not only about resource optimization, or innovation (there is nothing similar on the market today) or automating test; it is, above all, a breakthrough in the test philosophy.



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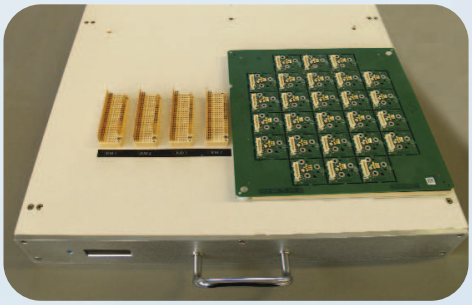
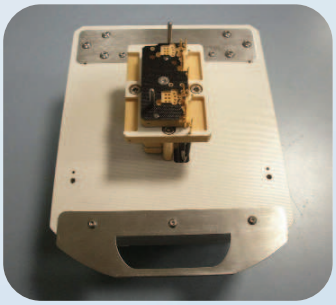
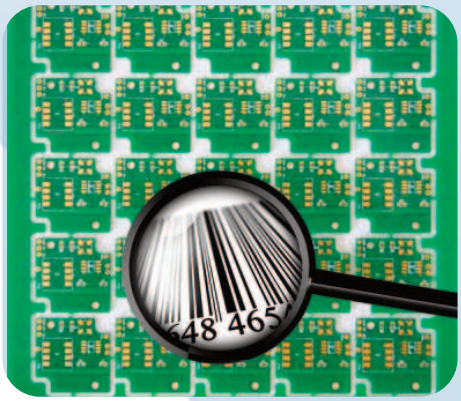
A “flying” bed of nails for panels





The **Pilot^{4D} FX** system provides the capability to share test resources, moving a small, low-cost fixture from one board to another, effectively eliminating the need to duplicate them in the system.
The mechanical architecture of the system allows the test head, which carries the fixture, to rotate in order to accommodate any configuration of panel layout, and the **Pilot^{4D} FX** is fully implementable in an automated production line, making it an innovative and efficient part of the process.
The **Pilot^{4D} FX** system features all of the core performances and benefits of the Seica VIP test platform, including hardware and software scalability.

Traceability



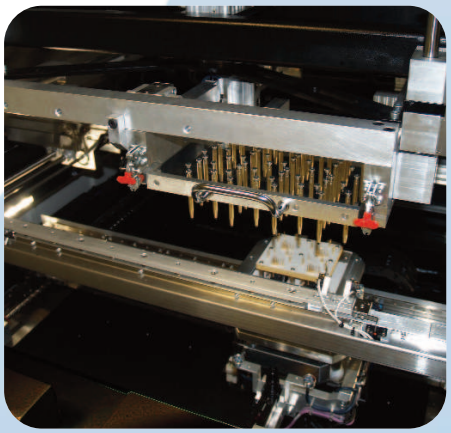
The **Pilot^{4D} FX** uses a state-of-the-art color camera which, in addition to fiducial centering, is able to acquire the serial number of each single board within the panel. An integrated marker is available to mark the tested boards, according to user-defined rules. Thanks to Seica’s wide experience in high-volume production test, the VIVA test software is able to communicate with external databases, enabling full integration of the **Pilot^{4D} FX** system into the user’s own production management environment.

Scalability

The **Pilot^{4D} FX** has a 19’’ rack for the integration of external instrumentation, ensuring resource scalability for new applications.
The integration of dedicated OBP programming modules, sensors for LED test applications, Boundary Scan test, and communication management via standard protocols (for example: CAN BUS, LIN), are only some of the possible capabilities that can be implemented

TECHNICAL TABLE

Max. number of channels	128
Fixture dimensions	12x12 cm or 21x21 cm
Rotation of the fixture head	270°
Vision system	Color camera
Board locking system	Automatic
Panel dimensions	Minimum: 100 x 50 mm (4 x 2 in.)
Maximum:	610 x 540 mm (23 x 17 in.)
Board thickness	0.8 - 7.0 mm (0.033 - 0.28 in.)
Board weight (max.)	8 Kg (17.64 lbs.)
Max. component height on top side	100 mm (3.9 in.)
Max. component height on bottom side	40 mm (1.57 in.)
UUT edge clearance	3 mm
Board loading	Horizontal, with SMEMA conveyor
System power	230 V 50 Hz 12 A
Air flow	Min. 3.5 bar 60 l/min
Dimensions (W x D x H)	170 x 214 x 172 cm
Weight	1500 kg



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Seica reserves the right to change the technical specifications without notice

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