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Pilot BT

Seica

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Product Overview

- *The increasing demand from the Electric Vehicles (EV) battery industry for electric cars has changed the high-volume production battery arrays test. To meet the most complex technical needs, Seica has designed and developed the PILOT BT flying prober for EV Battery Test, the latest addition to Series, which is a validated, verified and completely automated system to test full-size EV lithium ion battery packs.*

Characteristics

Test area	• Its very large test area (1050 x 865 mm) not only enable it to handle the many battery configurations currently on the market, but the capacity to manage the configurations of the future. The standard system configuration includes a pass-through conveyance by Bosch, but it can also be configured with customer-specified conveyance solutions integrated into completely automated lines No matter the battery technology, type, size or shape, Seica has a solution for high production, reliable, and repeatable test.

Direct measurements on the four flying heads	• The system features up to 4 independent test heads driven with synchronous brushless motors (XYZ), to provide a high-level dynamic response. Each one of the four heads features a mini fixture to test up to four individual cells in a single movement in either an X or Y axis orientation.

Flying mini-fixture: 4-wire kelvin test	• The aim of the tester is to measure one of the most important parameters of the battery: the bonding resistance.
	• Each one of the four mini-fixtures is equipped with:
	  ◦ Four thermally stabilized and insulated resistance meters, which enable the measurement of the bonding resistance of a single battery cell to the common plate. It is possible to discriminate mΩ resistor values with 1 μΩ resolution and high accuracy.
	  ◦ A 200 MHz Digital Signal Processor (DSP) for processing the analog measurements to ensure fast and efficient data processing through a 1 Gigabit Ethernet connection with the system PC.

VIVA>NEXT> Software and MES integration Option	• Like any other Seica solution, the PILOT BT NEXT> test system, uses the VIVA>NEXT> platform, which provides two authentication methods managed through the Seica proprietary graphic editor MY VIEW:
	  ◦ The standard Windows authentication
	  ◦ The new 'VIVA User Authentication' through which the customer can select the user with different privileges.
	• Since the customer manages the production and material flow through the MES software, the Seica PILOT BT NEXT> can be connected to the customer MES (Manufacturing Execution System). Through its proprietary Adapter, Seica can integrate all customer MES platforms.

Contact

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