XILS600

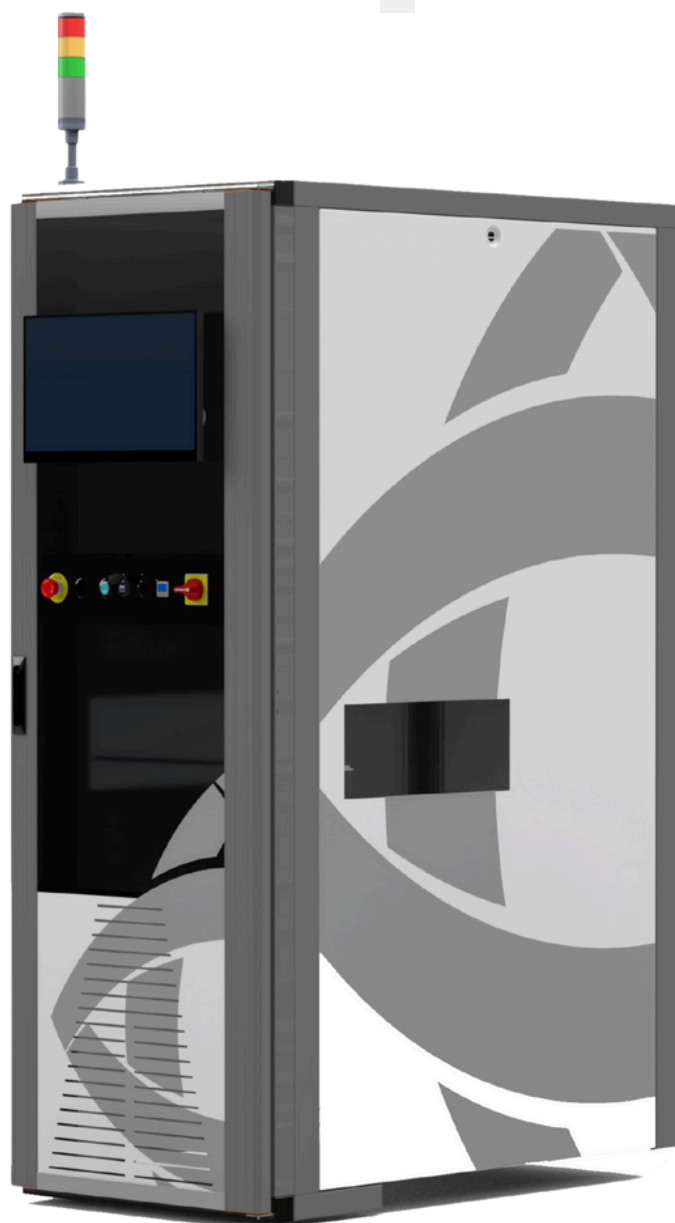## EXTENDED IN-LINE
TEST SYSTEM

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XILS600: FLEXIBLE, COMPACT AND MULTIPURPOSE HANDLER

The **XILS600** is the perfect handling testing solution for **applications that require multiple stations to operate in parallel** while maintaining a physical serial layout.

Thanks to a **double conveyor system at the SMEMA level**, its design eliminates the need for parallel lines on the shop floor, to efficiently meet cycle-time demands. The **XILS600** is **especially beneficial for critical instruments**, ensuring optimal performance throughout the testing process.

Key Benefits

/ Compact and multipurpose handler specially developed for **ISP (Flashing)** and **FCT (Functional)** applications.
/ Possibility of connection to the XILS800 and XILS600 handlers or to others XILS600 handlers in a serial line.
/ Compact footprint: thanks to a double conveyor system at the SMEMA level, handlers can be connected in a serial line, enabling an inline system configuration with other handlers.
/ Built-in communication system: handlers can communicate with one another internally, eliminating the need for additional link-conveyors, bar-code readers, and buffering stations.
/ Configurable line setup: easily configurable via software and customized on a case-by-case basis during product setup.
/ Special Instrumentation subrack with secondary interface for fixture, featuring short wiring distance between the instrumentation and the UUT.
/ Lateral actuation for DUT connectors, such as USB and Ethernet: ensures precise insertion force control, enhancing reliability and performance.
/ Suitable to verify LED status (on/off), luminance and colour parameters.

Features

- High-resistance iron and aluminum structure designed to handle +3 kN forces.
- Automatic electrically adjustable conveyor width with programmable memory settings.
- Very thin (6 mm) conveyor profile.
- High-speed conveyor with programmable speeds of up to 1000 mm/s.
- Main conveyor with bypass option.
- Secondary conveyor at SMEMA level for pass-through function.
- Second optional stopper allowing sequential loading of smaller boards (up to 250 x 460 mm) within the same machine cycle time for parallel panel tests.
- Two fixture sizes to accommodate specific PCB requirements.
- Servomotor-controlled compression movement during the test.

- Dual-stage testing with servomotor programmable testing heights.
- Handling time of approx. 6 sec. (machine cycle time excluding test).
- Fixture coding on both bottom and top plates for product/fixture validation.
- Modular pilon blocks for integrating additional instrumentation such as CAN, RF, pneumatic, or other specific needs.
- 20U rack positions available for instrumentation integration.
- Machine control communication drivers for .NET, NI LabWindows/CVI, LabVIEW, or any other third-party platforms with TCP/IP communication sockets.
- Beckhoff virtual PLC installed in the instrumentation PC.

	XILS600
Typical application	ISP,FCT
Max. PCB size	510 x 460 mm
Min. PCB width	75 mm
Component top side clearance	100 mm
Component bottom side clearance	50 mm
Drive force (nominal)	3kN
Recommended/Max test points	1000
Handling time (machinecycle)	approx. 6 Sec (*)
Fixture exchange time	< 3 min
Dimensions (length)	1200 mm
Dimensions (width)	720 mm
Dimensions (height)	2000 mm
Weight	750 kg
Rackeable/Instrumentation space	20U General Purpose
Interface type	Pylon Blocks
Machine control	Beckhoff
Machine communication	Sockets communication
Electrical power	3x380V AC 50 - 60 Hz
Pneumatic requirements	6 bar
Vacuum required	N/A
CE approved	Yes

(*) This handling time will depend on the speed of the conveyors installed before and after our machine.

Fixtures

Fixturing developed in accordance with prior **FEA analysis**. **Probe Impact analysis** for fixture validation. **Pallet/Carrier** for checking individual (de-panelized) daughter board.

Turn Key Applications
Complete turn key Flashing and Functional Applications including:

- Testability (test Coverage) Report.
- Repeatability (CGK) - Means Capability.
- Report Repeatability (CPK) - Process Capability Report.
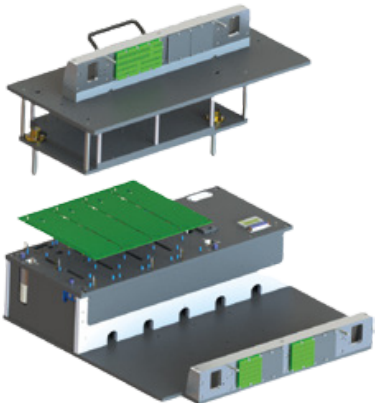
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