









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
- 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.

- 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
- Servomotor-controlled compression movement during the

- Dual-stage testing with servomotor programmable testing
- 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
- 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.

| Typical application | ISP,FCT |
|-------------------------------|-------------------|
| Max. PCB size | 510 x 460 mm |
| Min. PCB width | 75 mm |
| Component top side clearance | 100 mm |
| nponent 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 |
| ckeable/Instrumentation space | 20U General Purp |
| Interface type | Pylon Blocks |
| Machine control | Beckhoff |
| Machine communication | Sockets commur |
| Electrical power | 3x380V AC 50 - 6 |
| 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.

XILS600

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