

# XILS800-TSi

Up to 5.120 Test Points  
Max PCB size: 510x460 mm



Designed to your exact needs for high number of test points, large panels and future expandability. The XILS handler series is prepared for the most demanding applications.

Wide range of PCB dimensions, high handling speed, fast and easy setup, facilitated product changeover, flexible and adapted to different electronic test technologies, the XILS will be the best choice for your In Line testing needs.

## XILS800-TSi

In a seamless partnership with Teradyne we have fully integrated their TestSystem Inline platform (TSi51, TSi51.5 and TSi52) into our XILS800 handler.



ICT powered by



## Features

- High resistance Iron and aluminium structure to handle +10KN forces.
- TSi52 – Up to 2560 TP @ 2.8N/TP + 1280 Fixture Top/Bottom transfer pins @ 1.1N/TP.
- TSi52 – Up to 5120 TP @ 1.5N/TP + 2560 Fixture Top/Bottom transfer pins @ 1.1N/TP.
- Maximum PCB size of 510x460 mm.
- Automatic electrical Adjustable Conveyor Width (with memories).
- Very thin (6 mm) Conveyor Profile.
- High speed conveyor with programmable speed up to 1000mm/s.
- Main conveyor with Bypass option.
- 2 standard stoppers allowing the sequential loading of smaller boards (up to 250x460 mm) within the same machine cycle time for parallel panel tests.
- 2 fixture sizes to adjust the exact PCB needs.
- Servomotor controlled compression movement during the test.
- Dual Stage testing.
- Servomotor programmable test heights.
- Handling Time approx. 4s (machine cycle time excluding test).
- Less than 3 minute fixture changeover time.
- Fixture Coding on both Bottom and Top plates for product/fixture validation.
- 2 Modular ODU additional connectors with fixture for RF, pneumatic and other specific needs.
- 12U rack positions used for Teradyne TSi52 instrumentation integration.
- Beckhoff PLC or optional PC.
- Machine Control communication drivers for .NET, NI LabWindows CVI, LabVIEW or any other third-party platforms with TCP/IP communication sockets.
- Standard extended SMEMA protocol.
- Electric Power: 3x400V AC 50-60 Hz.
- Pneumatic Requirements: 6 bar.
- Vacuum Requirements: 40cfm, 1.13 cubic meter/minute.
- CE Approved.

### PCB Under Test Specification

Max. TP (bottom+top)	2560	5120
Max. probe force	2.8 N	1.5N
Max. fixture top/bottom transfer pins	1280	2560
Max. fixture top/bottom transfer pins force	1.1 N	1.1N
Max. PCB component height Bottom side	50 mm	
Max. PCB component height Top side	100 mm	
Min. PCB border without components	2,5 mm	
Max. PCB length	510mm	
Max. PCB width	460 mm	
Min. PCB width	100 mm	

### Mechanical Specifications

Length	810 mm
Width	1200 mm
Height	1850 mm
Weight	850 kg
Conveyor max. width	460 mm
Conveyor min. width	100 mm
Transportation height	940 + 40 mm
Max. convey or speed	1000 mm/s
Max. upper base plate speed	117 mm/s
Conveyor movement direction	Left ▶ Right / Right ▶ Left
Electrical requirements	3x400V AC 650-60 Hz
Pneumatic requirements	6 Bar
Vacuum requirements	40 cfm / 1.13 m <sup>3</sup> /min

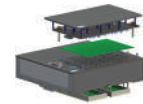
### Models

XILS800-TSi51  
XILS800-TSi51.5  
XILS800-TSi52

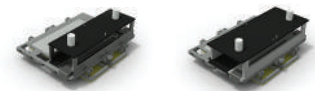
### Fixture Compatibility

#### Own fixture models

XILS800-TSi51 and XILS800-TSi52



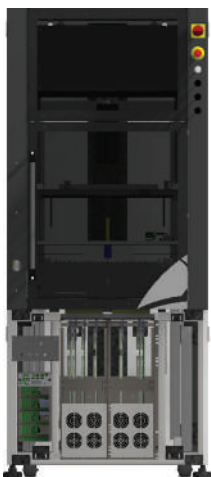
ILS 700 and ILS1200 Fixture Series



XILS800 ILS Fixture Adapter



Front  
open case



TERADYNE  
inside

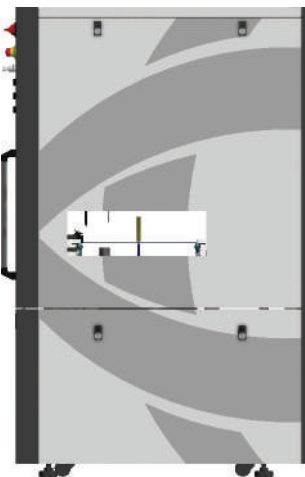
Front  
closed case



Back



Right



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