MILS700

EXTENDED IN-LINE TEST SYSTEM

eiit

A Controlar company

eiit
A Controlar company

MILS700: PRECISION, HIGH SPEED AND COST-EFFICIENCY HANDLER

The **MILS** test handling series is a compact and **cost-effective solution** compatible with various electronic test technologies for PCB assembly and demanding testing applications.

It is designed to meet specific requirements for In-System Programming (ISP) and Functional Testing (FCT), **supporting a wide range of PCB dimensions** and providing future expandability.

Additionally, the MILS series offers **high handling speeds**, along with a quick and easy setup process for a smooth and continuous product changeover. These handlers can be connected in a serial line enabling an In-Line system configuration with other handlers.

Key Benefits

- Compact and multipurpose handler specially developed for **ISP (Flashing)** and **FCT (Functional)** applications.
- Compatible with instrumentation from multiple manufacturers, such as Teradyne, Keysight, Checksum, TRI, and more.
- Fast and ergonomic fixture exchange: ensures swift, straightforward setup process, simplifying product changeovers.
- Compact footprint: handlers can be connected in a serial line enabling an inline system configuration with other handlers.
- Lateral actuation for DUT connectors, such as USB and Ethernet: ensures precise insertion force control, enhancing reliability and performance.

Features

- High-resistance aluminum structure designed to handle up to 8 kN forces.
- Automatic adjustable conveyor width with programmable memory settings.
- High-speed conveyor with programmable speeds of up to 1000 mm/s.
- Pneumatic system compression.
- Dual-stage testing.
- Compatible with XILS-600 and ILS-700 fixture kits.
- Handling time of approx. 5 sec. (machine cycle time excluding test).
- Less than 3 minutes fixture changeover time.
- Fixture coding on both bottom and top plates for product/fixture validation.
- Modular pilon blocks for integration of instrumentation such as CAN, RF, pneumatic, or other specific needs.
- Machine control communication drivers for .NET, NI LabWindows/CVI, LabVIEW, or any other third-party platforms with TCP/IP communication sockets.
- Beckhoff virtual PLC with HMI.

	MILS700
Typical Application	ISP, FCT
Max. TP (bottom+top)	1000
Max. probe force	8 Kn
Max. fixture top/bottom (transfer pins)	500
Max. PCB component height	52 mm
Min. PCB border without components	5 mm
Max. PCB size	1 x (510 x 350 mm) o 2 x (245 x 350 mm)
Min. PCB size	60 mm
Handler Specifications	
Dimensions (length)	1200 mm
Dimensions (width)	700 mm
Dimensions (height)	1650 mm
Weight	500 kg
Conveyor max. width	350 mm
Conveyor min. width	60 mm
Transportation Height	930 + 40 mm
Handling time (machine cycle)	Approx 5 sec (*)
Max. Conveyor Speed	1000 mm/s
Max. Top Plate Speed	117 mm/2
Conveyor Movement Direction	Left > Right / Right > Left
Electrical Requirements	3x380 VAC 50-60 Hz
Pneumatic Requirements	5-7 Bar
Fixture Exchange Time	<3min
Machine Communication	Sockets Communication
Rackeable/Instrumentation Space	10U General Purpose
Interface Type	Pylon Block
CE approved	Yes

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

Innovation, Quality and **Passion for Engineering.**

01 SPAIN | **02** PORTUGAL | **03** MEXICO | **04** GERMANY | **05** INDIA | **06** MALAYSIA | **07** CHINA | **08** USA

eiit
A Controlar company

+34 91 890 46 14
info@es.controlar.com
www.controlar.com/en/eiit

EIIT - A Controlar company
Camino Robledo de Chavela, 9-B
28210 Valdemorillo - Madrid
Spain

Aeronautics

Special **Test** Equipment

Automation Systems

Solutions Equipment & Partnership

AENOR AEROSPACE QUALITY EN 9100 OP-0006/2014

AENOR GESTIÓN DE LA CALIDAD ISO 9001 ER-0947/1997

IQNET RECOGNIZED CERTIFICATION

INNOVATIVE SME

EMPRESA SALUDABLE