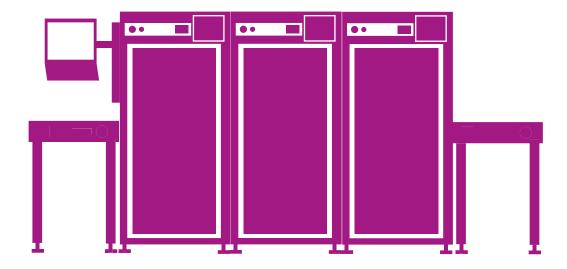


Test Handlers

Stylenology
Technology





Test Handlers

with the inline equipment.

More than 1 million TV motherboards are tested every year using 6TL FastATE test-handling equipment, and this is only because thanks to 6TL33 systems, the production testing environment will be flexible and efficient, helping towards the always valued Return of Investment.

6TL's portfolio of test handlers is enough to fulfill the needs of every electronics production line. It ranges from small to big PCBs, up to 600x455mm and 3000 test probes. production throughput when necessary by just adding an additional test handler into the line. But the flexibility goes

important it is to have test automation ready for the new industrial revolution: the Industry 4.0, where shorter time to market, flexibility and more efficiency are key parameters.

To measure the efficiency of a line, Production engineers use the OEE, that explains them how much right-first time product the line produces compared to what it should have produced in the allocated time.

6TL Test handlers will help to achieve a high OEE:

Setting up the handlers for testing different products will be a fast operation. Automatic engagement mechanisms the changing time fast. In addition, test engineers will be able to develop test sequences Off-Line, without disturbing the production and only when the test fixture will be debugged, it can be moved in to the in-line same fixture kit).

A combination of functional test and in-circuit test is possible thanks to the multi-stage contacting technology press, with pushing forces up to 600Kg. Devices under test can be either PCB level or Finished product ones.

6TL test handlers will operate in a coordinated manner to reach the highest up time, and this is thanks to the integrated bypass function, that makes the 6TL33 more flexible than any other in-line test handling device in the market: when a handler in the line is not working, the rest of them will continue testing parts and the percentage of time the line will be operating effectively, will be higher.

When it comes to integration, 6TL handlers offer enough space to integrate 19" rack instruments, and are equipped with VPC 9025 series receivers, so that all the YAV modules family can be directly adopted to end-up with a minimumaccess to any part of the system through side panels and front or rear door.

The system setup, control or fault-diagnose is an easy task for operators thanks to the 6TL user interface software.

Use 6TL Test Handlers, and enjoy the application of the Industry 4.0 in your production environment

Key features

- Heavy-duty, reliable and high precision system for high demanding production environments
- Bypass: Scalable solution to avoid bottlenecks in production
- Short handling time
- Easy and Short set up time: Fast fixture exchange time, automatic belt width adjustment and automatic test sequence
- Able to handle both PCBAs and DUT carriers (Finished products)
- Industry 4.0 ready. Flexible and Efficient system

Standard features

- FastATE technology: Modular, scalable and top flexible approach; Minimum wiring and easy maintenance
- Servo driven pushing mechanism
- Automatic PCBA width adjustment
- VPC 9025, 25 slot receiver for direct integration of YAV
- Standard SMEMA extended interface
- LabVIEW drivers
- ESD safe
- CE compilant

Options

- Third conveyor for Product Carrier return
- Light tower
- Input and Output handling equipment.
- Data Matrix kit.















	Feature List	6TL31	6TL33	6TL33PD	6TL34	6TL35
neral	Power Requirements	800VA (190265VAC), Single 1Ph, 50/60Hz	1200VA (190265VAC), Single 1Ph, 50/60Hz	1200VA (190265VAC), Single 1Ph, 50/60Hz	1200VA (190265VAC), Single 1Ph, 50/60Hz	1200VA (190265VAC), Single 1Ph, 50/60Hz
	Weight	350Kg	440Kg	440Kg	380Kg	490Kg
	Dimensions (WxDxH)	766x1600x1300	800x1500x1800	800x1500x1800	1122x1750x1638	1122x1750x1638
g	Compressed air	6bar	6bar	6bar	6bar	6bar
ure	Press Unit	Servo actuated	Servo actuated	Servo actuated	Servo actuated	Servo actuated
	Technology	Rack&Pinion, Cantilever	4 Linear Spindle, Ball Bearing, Lift Up	4 Linear Spindle, Ball Bearing, Push Down	4 Linear Spindle & Ball bearing; Push Down	4 Linear Spindle, Ball Bearing, Lift Up
	Press Force (Kg; TPs)	90Kg; 450 TPs	350Kg; 1500 TPs	600Kg; 3000 TPs	600Kg; 3000 TPs	255Kg; 1250 TPs
	InLine Fixture	Manual	Semi-automatic, auto-engagement	Semi-automatic, auto-engagement	Semi-automatic, auto-engagement	Semi-automatic, auto-engagement
	Mass Interface	VPC Receiver, 9025, 25 slots	VPC Receiver, 9025TR, 25 slots	VPC Receiver, 9025TR, 25 slots	VPC compatible, 8 slots	VPC Receiver, 9025TR, 25 slots
	Number of Fixture insertions	20000	20000	20000	20000	20000
	Fixture Exchange Time	60s	20s	20s	20s	20s
	Fixture compatibility	No	Yes, with 6TL off-line systems	Yes, with 6TL off-line systems	Yes, with 6TL off-line systems	Yes, with 6TL off-line systems
	Double deck Fixture management	Yes	Yes	Yes	Yes	Yes
Ē	Board Warp Sensor	Not necessary	Not necessary	Yes, in Fixture (Application available)	Not necessary	Not necessary
Line Integration	Bypass Conveyor	No	Yes	Yes	No	Yes
	Retour Conveyor	No	Optional	Optional	Optional	Optional
	InLine Integration	SMEMA extended	SMEMA extended	SMEMA extended	SMEMA extended	SMEMA extended
	Barcode reader	Optional (directly integration through txt file)	Optional (directly integration through txt file)	Optional (directly integration through txt file)	Optional (directly integration through txt file)	Optional (directly integration through txt file)
	Conveyor height	925-975mm (SMEMA)	925-975mm (SMEMA)	925-975mm (SMEMA)	925-975mm (SMEMA)	925-975mm (SMEMA)
	Conveyor width adjustment	Automatic	Automatic & synchronized for all handlers in a line	Automatic & synchronized for all handlers in a line	Automatic	Automatic & synchronized for all handlers in a line
	Transport Speed	50-600 mm/s	50-600 mm/s	50-600 mm/s	50-600 mm/s	50-600 mm/s
	SW+HW for handler assignation	No	Included (extra IPC and UPS in "Line Master Handler")	Included (extra IPC and UPS in "Line Master Handler")	No	Included (extra IPC and UPS in "Line Master Handler")
	PCB size (min - max)	50x50 - 394x382mm	50x50 - 350x450mm	50x50 - 350x450mm	50x50 - 600x455mm	50x50 - 600x455mm
	PCB thickness	1mm	1mm	1mm	1mm	1mm
	PCB exchange time	5,5s	4,5s	3,5s	4,5s	4,5s
	Top and bottom contact	Yes	Yes	Yes	Yes	Yes
	Max Height Components	Top: 90mm; Bottom: 30mm	Top: 90mm; Bottom: 30mm	Top: 90mm; Bottom: 30mm	Top: 90mm; Bottom: 30mm	Top: 90mm; Bottom: 30mm
⊢	Fixture Kit P/N	H72008050	AB799	AB799	AG588	AH500
김	Adapter for Off-Line Fixture P/N	No	AH257			
ğ	19" Free Rack space	26 HU	20 HU	19 HU	58 HU	35 HU
hte	Receiver Postiion / Capacity	Horizontal / 25 modules	Vertical / 25 modules	Vertical / 25 modules	Vertical / 8 modules	Vertical / 25 modules
	Controller	IPC	IPC	IPC	IPC	IPC
	Test Rack power management	Yes, Temperature and Power consumption	Yes, Temperature and Power consumption	Yes, Temperature and Power consumption	Yes, Temperature and Power consumption	Yes, Temperature and Power consumption
	Operator Interface	No	14" touch TFT monitor and 19" TFT in Line Master	14" touch TFT monitor and 19" TFT in Line Master	No	14" touch TFT monitor and 19" TFT in Line Master
	Standards	CE	CE	CE	CE	CE

Order Information

Oraci	Information				
P/N	Description	Comment			
H71003100	6TL31 Test Handler, Single Operation	Group Operation is not available with 6TL31 Handling technology			
H72008050	Bare Fixture Kit for 6TL31 Test Handler				
H71003400	6TL34 Test Handler, Single Operation	Group Operation is not available with 6TL34 Handling technology			
AG588	Bare Fixture Kit for 6TL34 Test Handler				
H71003300	6TL33 Test Handler, Single Operation (no bypass)				
H710033PD	6TL33 Test Handler, Single Operation (no bypass), Push Down				
H71003302	6TL33 Test Handler, Group Operation (with bypass), Master				
H710033P2	6TL33 Test Handler, Group Operation (with bypass), Master, Push Down				
H7100330S	6TL33 Test Handler, Group Operation (with bypass), Slave				
H710033PS	6TL33 Test Handler, Group Operation (with bypass), Slave, Push Down				
AB799	Bare Fixture Kit for 6TL33 Test Handlers				
AH257	Fixture Adapter from 08N to 33	Box to adapt 6TL08N fixtures to 6TL33 Test Handlers			
H71003500	6TL35 Test Handler, Single Operation (no bypass)				
H71003502	6TL35 Test Handler, Group Operation (with bypass), Master				
H7100350S	6TL35 Test Handler, Group Operation (with bypass), Slave				
AH500	Bare Fixture Kit for 6TL35 Test Handlers				
AL417	Fixture Adapter from 08X to 35	Box to adapt 6TL08X fixtures to 6TL35 Test Handlers			
AJ299	Barcode Reader, without support. To install in previous conveyor	Mandatory for Group Operation. Other non homologated code readers, will require additional engineering quotation			
H71003390	Slave to Master Conversion Kit (Traceability Station)	Include parts to update a Slave system into Master system: Controller, TFT, keyboard, Smema-Link, Ethernet switch, UPS			
AK125	Linking conveyor Inspection 1 segment (600mm)	The P/Ns listed are the most common products used by our customers. For much other options,			
AK142	Single Magazine Loader	please, contact 6TL.			
AK127	Double Magazine Unloader				
AK128	Repair Verification Station 2 Level 1 Segment (800mm)				

Support:



Your project always on time, on budget and fulfilling the agreed specification.

Close collaboration between 6TL and production team is important when starting to fit the FastATE concept into the customer process



Spare parts

Available spare part kits according to agreed 6TL warranty terms.



Repair Service

We are able to repair very fast any damaged part.



Product installation

6TL engineers may be available for installation of systems according to our guidelines and standards to secure the Start of Production date.



On-Site support

Whenever needed, 6TL technical staff is ready to help so that your line downtime is minimized.



Maintenance

Preventive maintenance plans



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