

6TL33

TEST HANDLER



fastATE[®] Technology platforms
are the ideal base
to develop ATE solutions

6TL provides the base, the
integrator provides the ATE

The 6TL-33 is a top-class Electronics Test handler, following the FastATE technology, meaning true hardware and software modularity as well as a real scalable solution. For medium to high production requirements, where flexible ATEs are needed, the 6TL-33 is a reliable option.

In multi-station configurations (more than one 6TL-33 working together), the line operation can be set and monitored from the header station. The SJAT (Smart Jig Assignment Technology) will consider all the handlers as a group to coordinate the test execution, by-pass and return conveyors and get as a result the optimum test performance. The SJAT will also manage to provide all traceability and repair station information.

Operation reliability is assured thanks to completely independent power and control for the conveyors of each handler, to get a line fault-tolerant operation (if one handler is stopped, the line is still producing).

Fixtures exchange operation is easy and safe due to auto-lock when detection as well as controlled automatic release. Touch screen monitors will provide detailed status and test execution progress.

The 6TL-33 features a powerful Platform Manager, the 6TL MMI, controlling the power thanks to intelligent PDU's (instrument switch-off while not in use, and sequential power on), the cooling system, and the system maintenance.

Overall, the 6TL-33 is a top class, modular and scalable production tool for high reliability environments.

- FastATE technology: Modular, scalable and top flexible approach; Minimum wiring and easy maintenance; LabVIEW drivers.
- Ideal for mid to high electronic production batches with 100% test station up time.
- Suitable for ICT, BS, ISP, FCT.
- Multi-station (more than one handlers working together) operation, with by-pass, and smart jig assignment.
- High accuracy multi-stage servo-controlled press system, up to 3.000N
- 25-module High quality mass interconnect receiver, Virginia Panel 9025.
- 24U 19" rack free space for instruments integration (PXI, ICT core, loads, power supplies,...)
- Easy & Fast Fixture management: Exchange time <20s; Automatic identification for automatic software selection and automatic conveyor set-up
- Phi6 Operator interface
- Small footprint
- CE compliant; ESD safe
- Options: Conveyor for pallet return; Light tower; Input&Output conveyors



Platform Operation	In-Line
Type	Test Handler with 19" rack space, and by-pass
Handling time	4,5s (from DUT detected to DUT ready to test)
Wxdxh	796 x 1500 x 1750 mm
Weight	350 Kg
Press unit	Included; Automatic operation; 3000N maximum force
Fixturing type	Upper and Lower, Baseband and HF; Multi-stage (ICT, FCT, HighPot)
Double deck fixture	Yes
Top and bottom contact	Yes
Max. PCB Panel size	388 x 382 mm
PCB edge supports	3mm minimum
Max. top side comp. height	100 mm
Max. bot side comp. height	12 mm
Built in 19" rack free space	24 U
Mass interconnect solution	25 slots, Virginia Panel 9025
Platform Manager	6TL MMI H73000700 (Power, Temperature & Safety management)
Platform Controller	Industrial PC
Traceability	Barcode reader assembled in inlet conveyor
SMEMA compliance	Yes, SMEMA extended. Transport height: 940...965mm
Operator interface	10" touch TFT Monitor
Keyboard + mouse	Yes, FKeyboard EU layout with trackball kit (Magnetic lock).
Included YAVModules	YAV90PNE, Pneumatic subsystem; 5bar



The 6TL33 is ideal for	ISP	Combine with YAV90ISP and Algocraft WriteNow Programmer
	ICT	Combine with YAV90Q06 and MTS-30 from Digitaltest
	Boundary Scan	Combine with YAV90JTAG, YAV90JTAH and JTAG Technologies
	Functional Test	Combine with YAV90CIN, YAV904X8 and PXI Chassis (6TL-08 Plus)
In the following environments	Production, mid to high sized production batches	

As any *fast*A^{TE} base platform, the 6TL33 features:

- 6TL **YAV**Modules compatibility. In particular, best fit with: YAV90CIN / YAV904X8 / YAV9JTAG / YAV9JTAG / YAV90ISP
- PXI chassis direct integration
- Reliable mass interconnect interface (VPC 90 series compatible)
- Short delivery time

	No By-Pass Conveyor	Includes By-Pass Conveyor, and SJCT controller (controller for test cell assignment).	Includes By-Pass Conveyor, SJCT controller and Pallet return conveyor	Exchangeable Fixture kit for 388x382 mm Max.PCB. Probes plate, moving plate and pusher's plate. ITA 9025. Stopper. YAVCANCONS.	Platform status beacon (three lights +buzzer)	
Multistation	No	Yes	Yes			
PN	H71003301	H71003302	H71003303	AB799	H78001000	