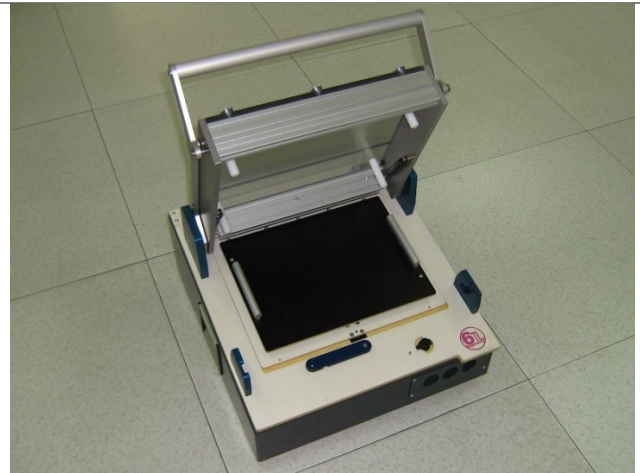


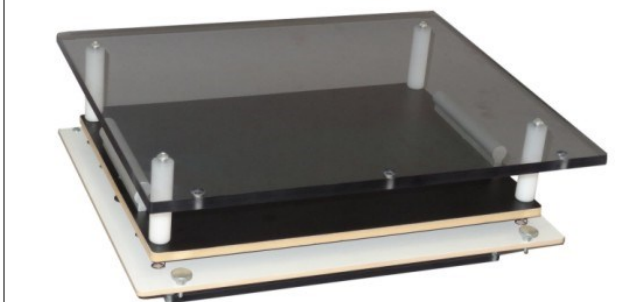
6TL SmartFixture & Cassettes



H7200671S SmartFixture

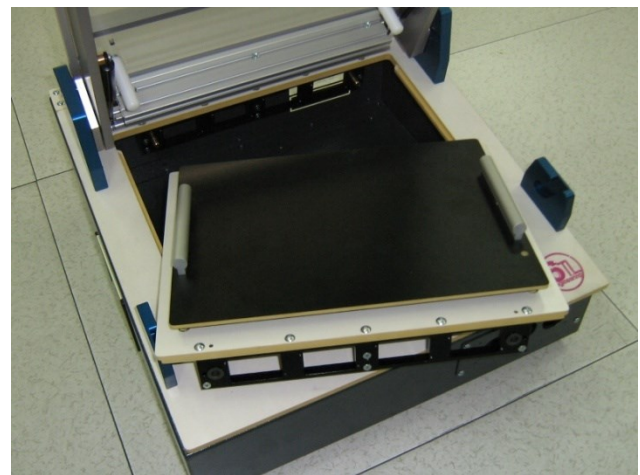


H72007115 SmartFixture with Icon Interface



Each H7200671K SmartFixture cassette includes;

- a transparent pusher plate with push fingers.
- a transparent receptacle protection plate.
- a 10mm thick probe plate.
- a 5mm thick moving plate.
- 10 Pcb push fingers and 4x Moving plate pushers.



H72007116 Cassette with Icon interface

The 6TL SmartFixture concept,

Is designed as a flexible modular and affordable testfixture solution for use as a standalone functional test system. The metal enclosure from the H72007115, H7200671S or H72007215 SmartFixtures are 470/750 x 490 x 100 x 170 mm in size and are ergonomically formed. They offer a large internal space to build in additional electronics, including a 6TL YAVPack. The test fixture uses a robust and precise manual linear press-down system with a 12 mm linear movement to ensure a correct, friction free vertical stroke when pushing the UUT onto the test probes. The ball bearings ensure a long term, error free, smooth operation of the mechanism. The ergonomically designed arm is equipped with two gas struts to ensure an easy opening and closing of the fixture during production. When fully closed the system is locked in position until the operator lifts it again, after the test. A magnetic lock is available as option.

An easy removable aluminum backplane with a pre-tooled hole pattern to allow the installation of 6TL YAVPACK solutions is present. The aluminum backplane can be easily customized to hold any Interconnections or connectors required for connection to any external equipment or controller.

The Front panel includes a pre-tooled area to install an optional 802031Z MMI CAN bus controlled MMI (Push button and Display module) for easy operator control of the test sequence and to communicate with any build-in YAVPack.

The entire SmartFixture top, including the cassette and interface, if present, can be unlocked and opened up to 80° to allow an easy access to the internal wiring of the interface and the testprobes inside the cassette for maintenance and debug purposes. It provides also an easy access to the installed YAVPack and additional tester electronics. The system

can be opened in any of the fixed positions of the mechanical opener. For normal service and maintenance operations this arm allows the fixture safely to be opened at 80°.

In case of a cassette with Icon Interface the board can be fixed to the cassette outside the fixture using the storage screws. Through the Icon connectors you can do any debug work without having to use the SmartFixture base unit.




Sample applications.



Sample SmartFixture with YAVPack

General Specifications for SmartFixture with and without Icon Interface;

- 1) Mechanical linear press-down system with 12 mm linear movement
- 2) 2000 N maximum force (1000 test probes of 200 gr.)
- 3) Exchangeable cassettes with or without VPC icon compatible interface
- 4) Maximum DUT height 60 mm (higher values require additional pusher plate milling)
- 5) Overall enclosure dimensions
H72007115: 470 x 490 x 100 x 170 mm (WxDxH1xH2)
H72007215: 750 x 490 x 100 x 170 mm (WxDxH1xH2)
- 6) Locked 80° casting fixture top plate for easy components installation inside
- 7) Removable back panel pre-tooled for a YAVPACK placement → 
- 9) Pre-tooled front panel for a MMI Pushbuttons and Display Module placement
- 10) Locking system to lock the top plate with the base housing, (Key lock is optional)
- 12) Test cassettes including 10 mm isolated receptacle test probes plate, 5 mm antistatic moving plate, Removable transparent ESD safe Pushers Plate, VPC Icon compatible ITA Interconnect interface with room for up to 4 VPC iCon ITA Modules, 4 x Moving Plate Pushers, 10 x DUT Pushers, 25 x DUT Stoppers.

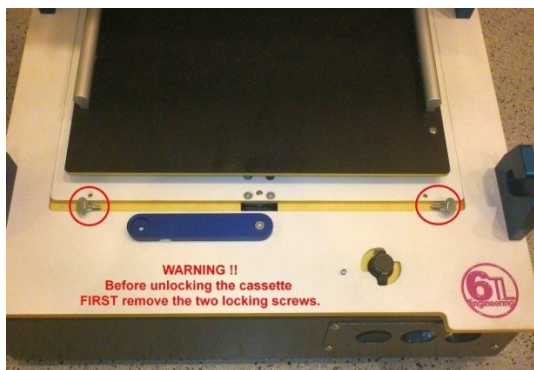
Specific specifications for SmartFixture without internal cassette interface.

- 1) Exchangeable cassettes **NO** interface and a Free UUT Test area off;
H72007116: 300 x 250 mm
H72007216: 580 x 250 mm

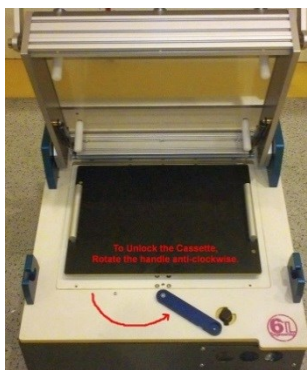
Specific specifications for SmartFixture with internal Icon cassette interface.

- 1) VPC Icon compatible receiver Interface with space for up to 4 x Virginia Panel iCon Receiver Modules
- 2) Manual front rotation lever for easy connection/disconnection of the Interchangeable Test Cassettes
- 3) Modules and contacts available for Hi Volt (1.500 V), Hi Current (60 A), Electrical Signals, Serial and Parallel Buses, Coaxial RF (up to 40 GHz), Thermocouple, Pneumatics, POF fiber, Single Mode Fiber, for both receiver and ITA
- 4) Exchangeable cassettes with VPC Icon compatible ITA interface and a Free UUT Test area off;
H72007116: 300 x 250 mm
H72007216: 580 x 250 mm

Replacement of the Cassettes



1) Remove the two locking screws



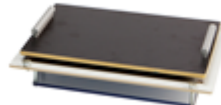
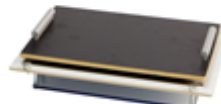




2) Unlock the cassette from the receiver.



3) Remove the cassette.



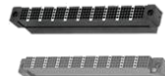

Part numbers:

Pn.	Part number	Description	Picture
1	MG-6TL02 40330002 Sistel P/N: TBD	Base Mechanical test fixture with 12mm full linear engagement for max PCB size 337x250mm and a maximum of 1000 test probes (2N). The system has no Internal Interface between the cassette and the receiver (Base unit). (cassette not included)	
2	MG-6TL02 SmartFixture 41570322 Sistel P/N: H7200671S	Base Mechanical SmartFixture with 12mm full linear engagement for max PCB size 337x250mm and a maximum of 1000 test probes (2N). The system has no Internal Interface between the cassette and the receiver (Base unit). This unit is prepared to build in any YAVPack its controls will be available on the front. (cassette not included)	
3	MG-6TL02-10 40330007 Sistel P/N: H7200671K	Cassette with 10mm probe plate, 10mm Pusher plate and 5mm thick probe protection plate, for max PCB size 337x250mm and a maximum of 1000 test probes (2N) this cassette has no interface, for use with MG-6TL02 and MG-6TL02 SmartFixture (Incl. 10x push fingers + 10x PCB Support 2mm)	
4	MG-02-10 40330030 Sistel P/N: TBD	Optional cassette, same as MG-6TL02-10 but this time with an 8mm thick probe protection plate, typical used when you have high probe count and components up to 8mm high on the bottom of the PCB.	
5	MG-6TL03 40330044 Sistel P/N: TBD	Base Mechanical test fixture with 12mm full linear engagement for max PCB size 580x250mm and a maximum of 1000 test probes (2N). The system has no Internal Interface between the cassette and the receiver (Base unit). (cassette not included)	




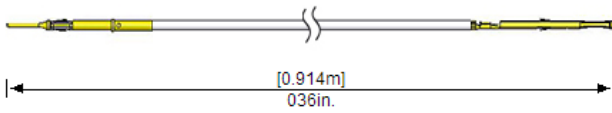
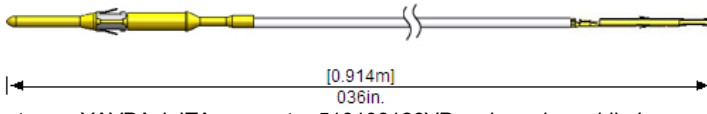
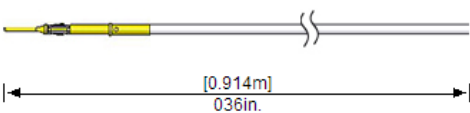
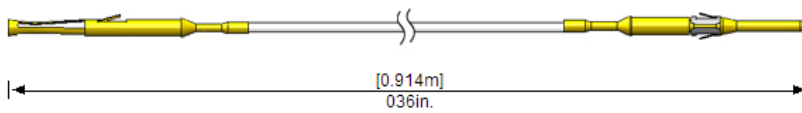
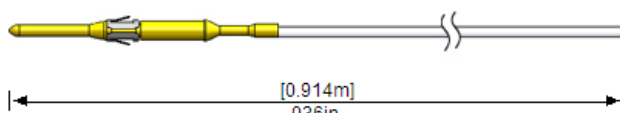
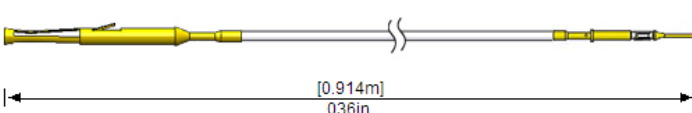
Pn.	Part number	Description	Picture
6	MG-6TL03 SmartFixture 41570323 Sistel P/N: H7200672S	Base Mechanical SmartFixture with 12mm full linear engagement for max PCB size 580x250mm and a maximum of 1000 test probes (2N). The system has no Internal Interface between the cassette and the receiver (Base unit). This unit is prepared to build in any YAVPack, its controls will be available on the front. (cassette not included)	
7	MG-6TL03-10 40330027 Sistel P/N: H7200672K	Cassette with 10mm probe plate, 10mm Pusher plate and 8mm thick probe protection plate, for max PCB size 580x250mm and a maximum of 1000 test probes (2N) this cassette has no interface, for use with MG-6TL03 and MG-6TL03 SmartFixture (Incl. 10x push fingers + 10x PCB Support 2mm)	
Fixtures with Icon module Interface			
8	MG-6TL02-ICO ???????? Sistel P/N: TBD	Base Mechanical test fixture with 12mm full linear engagement for max PCB size 337x250mm and a maximum of 1000 test probes (2N). The system has an Internal ICON based receiver interface (VPC ICON Mass Interconnect Modules used), between cassette and receiver (Base unit). (cassette and ICON modules not included)	
9	MG-6TL02-ICO SmartFixture 40330045 Sistel P/N: H72007115	Base Mechanical SmartFixture with 12mm full linear engagement for max PCB size 337x250mm and a maximum of 1000 test probes (2N). The system has an Internal ICON based receiver interface (VPC ICON Mass Interconnect Modules used), between cassette and receiver (Base unit). This unit is prepared to build in any YAVPack, its controls will be available on the front. (cassette and ICON modules not included)	
10	MG-6TL02-10-ICO 40330046 Sistel P/N: H72007116	Cassette with 10mm probe plate, 10mm Pusher plate and 5mm thick probe protection plate, for max PCB size 337x250mm and a maximum of 1000 test probes (2N) this cassette has an ICON compatible ITA interface, for use with MG-6TL02-ICO and MG-6TL02-ICO SmartFixture (Incl. 10x push fingers + 10x PCB Support 2mm) (Icon modules are not included)	
11	MG-6TL03-ICO SmartFixture Sistel P/N: TBD	Base Mechanical SmartFixture with 12mm full linear engagement for max PCB size 580x250mm and a maximum of 1000 test probes (2N). The system has an Internal ICON based receiver interface (VPC Icon Mass Interconnect Modules used), between cassette and receiver (Base unit). This unit is prepared to build in any YAVPack, its controls will be available on the front. (cassette and Icon modules not included)	
12	MG-6TL03-10-ICO Sistel P/N: TBD	Cassette with 10mm probe plate, 10mm Pusher plate and 8mm thick probe protection plate, for max PCB size 580x250mm and a maximum of 1000 test probes (2N) this cassette has an ICON compatible ITA interface, for use with MG-6TL03-ICO SmartFixture (Incl. 10x push fingers + 10x PCB Support 2mm) (Icon modules are not included)	



Spareparts			
13	40330500 Sistel P/N: TBD	6TL MG02-10 Pusher plate 10mm KASI-AS-08 ESD Coated, for use in 6TL SmartFixture with and without Icon Interface or 6TL-08 (Interface not supplied)	
14	40330501 Sistel P/N: TBD	6TL MG02-10 Moving plate 5mm CEM1 AS For use in 6TL SmartFixture with and without Icon Interface or 6TL-08 (Interface not supplied)	
15	40330502 Sistel P/N: TBD	6TL MG02-10 Moving plate 8mm CEM1 AS For use in 6TL SmartFixture with and without Icon Interface or 6TL-08 (Interface not supplied)	

Pn.	Part number	Description	Picture
16	40330502 Sistel P/N: TBD	6TL MG02-10 Probe Plate 10mm CEM1 For use in 6TL SmartFixture without Icon Interface or 6TL-08 (Interface not supplied)	
17	4033050? Sistel P/N: TBD	6TL MG02-10-ICO Probe Plate 10mm CEM1 For use in 6TL SmartFixture with Icon Interface (Interface not supplied)	
18	40330504	6TL MG02 PCB Pusher L=56,4mm	
19	40330505	6TL MG02 PCB Pusher L=58,4mm	
20	40330506	6TL MG02 MP 5mm Plate Pusher 63x15mm	
21	40330507	6TL MG02 MP 8mm Plate Pusher 61x15mm	
22	H72008937	PCB Pusher L=56,4 mm. Package of 10 units	
23	H72008941	PCB Stopper L= 3 mm. Threaded. Package of 25 units	
24	TBD	Pushers Plate fixing screw for cassette storage, test development and debug purposes.(set of 2)	
25	TBD	Moving Plate support spring	
26	60IM00192X	Test cassette slicing guide	
27	60IM025X	Tooling Pin Steel, D=3mm, H=24mm, M3 male thread	
28	H72008923	Package of 10 units of 60IM025X	
29	H72008910	PCB guide Square corner for DUT placing. Package of two units	

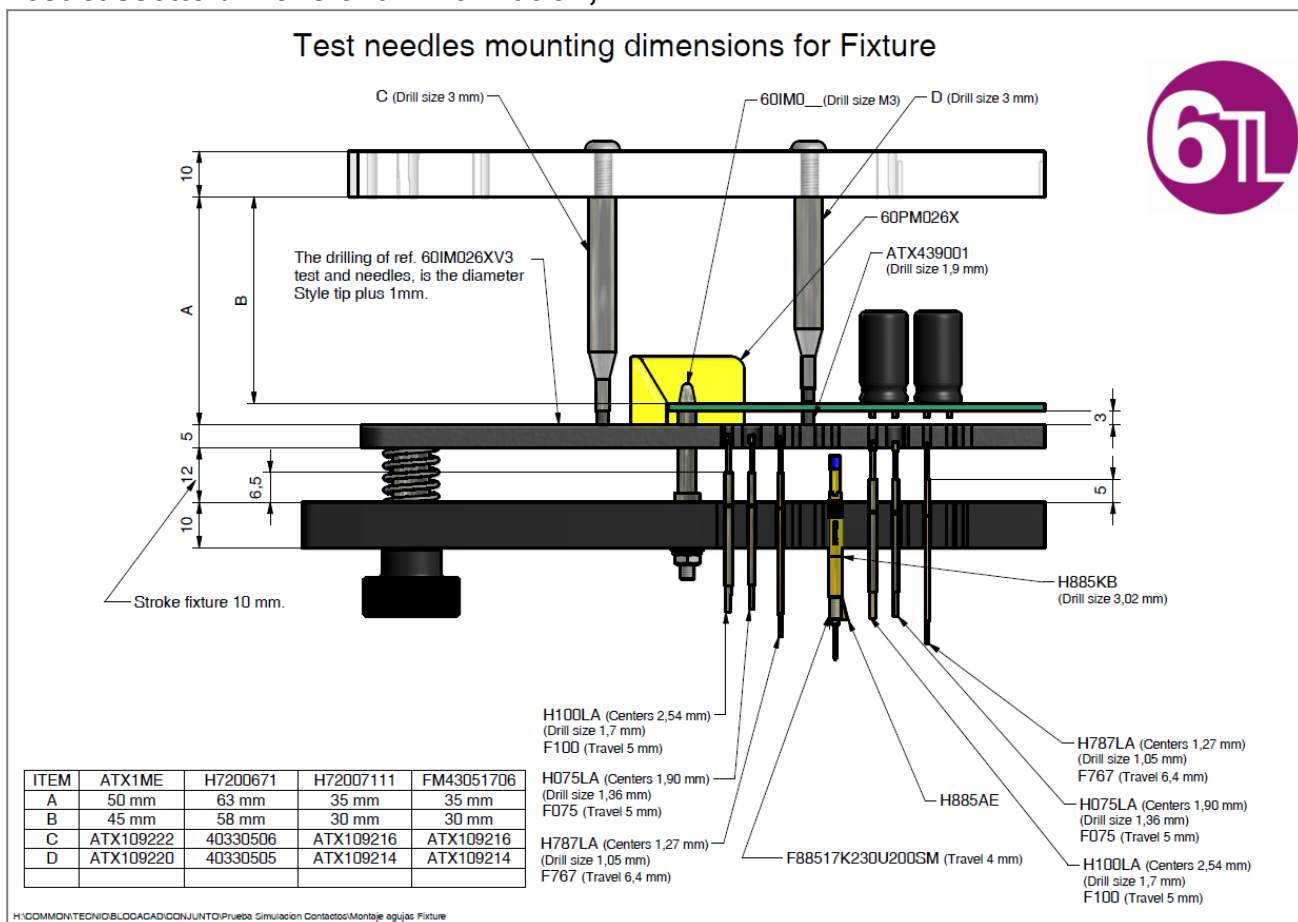
Itm.	Part number	Description	Picture
1.	YAVPACKF4	YAVPack 4-Slots ITA Frame Only for use in SmartFixture version with YAVPack.	
2.			
3.			
4.	510108126VP	Signal Module, ITA, TriPaddle, 96 Position Only for use in SmartFixture version with YAVPack.	
5.			
6.	510151105VP	Signal Module, ITA, QuadraPaddle, 192 Position, Unloaded Only for use in SmartFixture version with YAVPack.	
7.	510160103VP	TriPaddle Signal / Mini Power and Mini Coaxial Module, Receiver, iCon, 64/8 Position Only for use in SmartFixture version with Icon interface.	

Itm.	Part number	Description	Picture
8.	510161103VP	TriPaddle Signal / Mini Power and Mini Coaxial Module, ITA, iCon, 64/8 Position Only for use in SmartFixture version with Icon interface.	
9.	510160108VP	Signal Module, Receiver, TriPaddle, iCon, 96 Position Only for use in SmartFixture version with Icon interface.	
10	510161108VP	Signal Module, ITA, TriPaddle, iCon, 96 Position Only for use in SmartFixture version with Icon interface.	
11.	510160104VP	Mini Power and Mini Coaxial Module, Receiver, iCon, 24 Position Only for use in SmartFixture version with Icon interface.	
12.	510161104VP	Mini Power and Mini Coaxial Module, ITA, iCon, 24 Position Only for use in SmartFixture version with Icon interface.	
13.	910112104VP	Tool, Extraction, Mini Power/Mini Coaxial/Mini Pneumatic Contacts, Receiver and ITA	
14.	910110102VP	Tool, Extraction, TriPaddle and Thermocouple, Receiver and ITA	
15.	510160101VP	Signal Module, Receiver, QuadraPaddle, iCon, 160 Position, for Crimp Contacts Only for use in SmartFixture version with Icon interface.	

Itm.	Part number	Description	Picture
16.	510161101VP	Signal Module, ITA, QuadraPaddle, iCon, 160 Position Only for use in SmartFixture version with Icon interface.	
17.	910110111VP	Tool, Extraction, QuadraPaddle, ITA	
18.	910110112VP	Tool, Extraction, QuadraPaddle, Receiver	
18.	7-121962124-020VP Also available in 20" and 72" lengths.	Signal, ITA, QuadraPaddle (5 Amps) 22 AWG White XLPVC (5 Amps) Signal, Receiver, QuadraPaddle (5 Amps)  [0.914m] 036in. Connection between YAVPack ITA connector 510151105VP and Quadrapaddle Icon receiver Modules	
20.	7-105966124-036VP Also available in 20" and 72" lengths.	Signal, ITA, TriPaddle (7 Amps) 26 AWG White XLPVC (1.5 Amps) Signal, Receiver, QuadraPaddle (5 Amps)  [0.914m] 036in. Connection between YAVPack ITA connector 510108126VP and quadrapaddle Icon receiver Modules	
21.	7-121962000-036VP Also available in 20" and 72" lengths.	Signal, ITA, QuadraPaddle (5 Amps) 22 AWG White XLPVC (5 Amps)  [0.914m] 036in. Wiring between Icon ITA interface quadrapaddle module and receptacle	
22.	7-106966106-036VP Also available in 20" and 72" lengths.	Signal, Receiver, TriPaddle (7 Amps) 26 AWG White XLPVC (1.5 Amps) Signal, Receiver, TriPaddle (7 Amps)  [0.914m] 036in. Connection between YAVPack ITA connector 510108126VP and tripaddle Icon receiver Modules	
23.	7-105966000-036VP Also available in 20" and 72" lengths.	Signal, ITA, TriPaddle (7 Amps) 26 AWG White XLPVC (1.5 Amps)  [0.914m] 036in. Wiring between Icon ITA interface tripaddle module and receptacle	
24.	7-106966123-036VP Also available in 20" and 72" lengths.	Signal, Receiver, TriPaddle (7 Amps) 26 AWG White XLPVC (1.5 Amps) Signal, ITA, QuadraPaddle (5 Amps)  [0.914m] 036in. Connection between YAVPack ITA connector 510108126VP and tripaddle Icon receiver Modules	

Itm.	Part number	Description	Picture
25.	MM77979201	<p>USB → CAN Converter used to controll /calibrate any YAVModule directly from a PC with the supplied Phi6 Explorer software. Can also be used to program any YAVModule using Labview, TestStand, or any other application with the from 6TL available drivers.</p>	
26.	Optional YAVPacks	<p>Optional YAVPack to turn any fixture into a SmartFixture, The YAVPack Bundles (YPB) are compact embedded testing solutions, used to configure low cost standalone functional test systems.</p> <p>Every YPB is a combination of the following devices assembled inside a compact 4-slot chassis:</p> <ul style="list-style-type: none"> - Standard YAV modules - Power supply - Cycles counter - Man Machine Interface (MMI) <p>visit www.6TLEngineering.com/6tl/yavpacks for more information.</p>	<p>YAVPack00 Content.</p> 

Test cassette dimensional information;



fastATE [®] Technology		Smart Cassettes					
Smart Fixtures & Smart Cassettes compatibility chart		Sistel P/N	H7200671K	H720067??	H7200672K	H72007116	H720071??
Romex P/N		MG-6TL02-10-40330007	MG-6TL02-10-40330030	MG-6TL03-10-40330027	MG-6TL02-10-ICO-40330046	MG-6TL03-10-ICO-??	MG-6TL03-10-ICO-??
Moving Plate dimensions (mm) (3)		337x250	337x250	580x250	337x250	580x250	580x250
Moving Plate Thickness (mm)		5	8	5	5	5	5
Test Area Dimensions (mm) (4)		300x250	300x250	543x250	300x225	543x225	543x225
iCon Interface		NO	NO	NO	YES	YES	YES
Moving Plate Pushers (5)		4 x 40330506 (63x15 mm)	4 x 40330507 (61x15 mm)	4 x 40330506 (63x15 mm)	4 x 40330506 (63x15 mm)	4 x 40330506 (63x15 mm)	4 x 40330506 (63x15 mm)
PCB Pushers (1)		15 x 40330505 (58,4 mm)	15 x 40330505 (56,4 mm)	20 x 40330505 (58,4 mm)	15 x 40330505 (58,4 mm)	20 x 40330505 (58,4 mm)	20 x 40330505 (58,4 mm)
PCB Spacers (2)		10 x ATX439001 (5x3 mm)	10 x ATX439001 (5x3 mm)	30 x ATX439001 (5x3 mm)	10 x ATX439001 (5x3 mm)	30 x ATX439001 (5x3 mm)	30 x ATX439001 (5x3 mm)
Base Plate slicing guides		NO	NO	NO	2 x 60IMO0192X	2 x 60IMO0192X	2 x 60IMO0192X
Smart Fixtures		Sistel P/N	Enclosure Dimensions (mm)	iCon interface	YAV PACK pre-tooling		
H720067??	470x490x100x170	NO	NO			OK	
H7200671S	470x490x100x170	NO	YES			OK	
H720067??	750x490x100x170	NO	NO			OK	
H7200672S	750x490x100x170	NO	YES			OK	
H720071??	470x490x100x170	YES	NO				OK
H7200711S	470x490x100x170	YES	YES				OK
H720071??	750x490x100x170	YES	YES				OK

For more information please contact our agent in the Benelux.



Romex BV
Remmerden 5
3911 TZ Rhenen The Netherlands
Tel; +31-(0)317-398787
Email; info@romex.nl