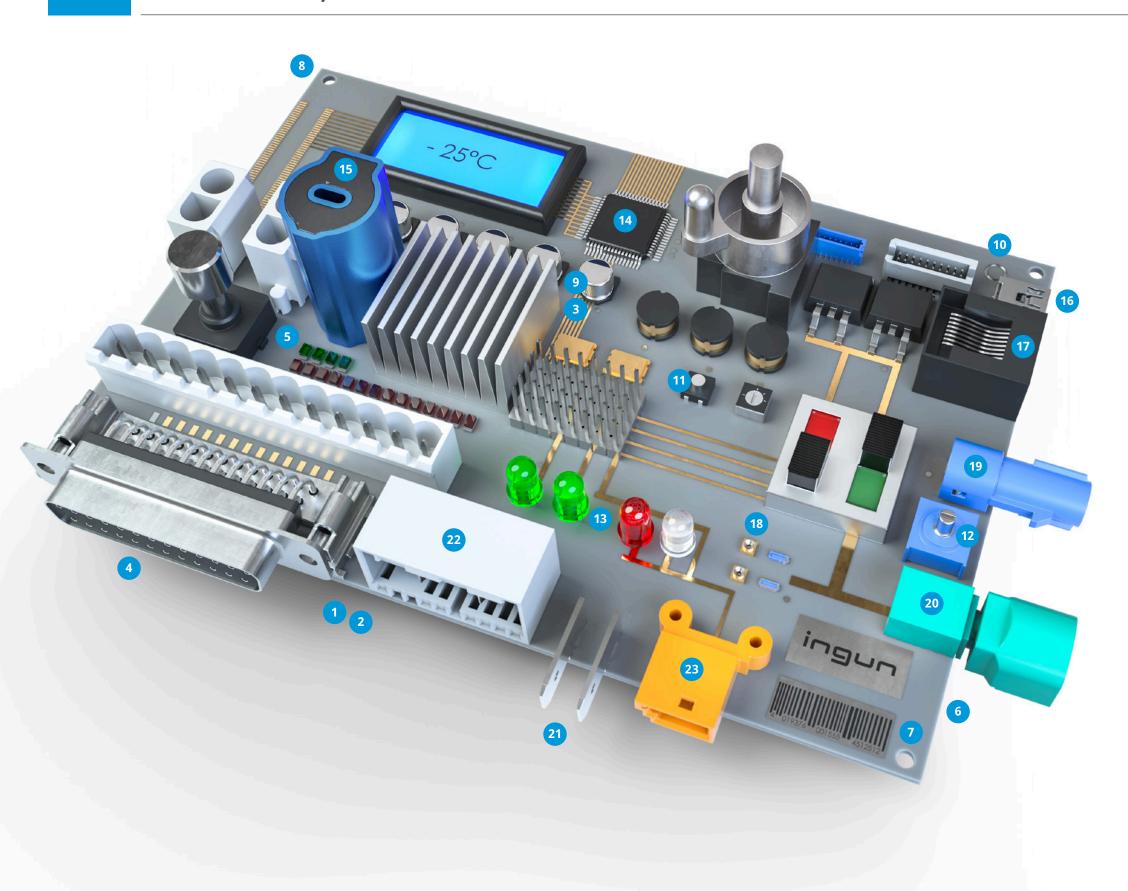
TEST FIXTURE KITS AND ACCESSORIES IN ELECTRONICS PRODUCTION



modular | reliable | versatile



PROVEN, STANDARDISED SOLUTIONS FOR EVERY TESTING TASK



- 1. Single-stage contacting, bottom
- 2. Dual-stage contacting, bottom
- 3. Single-stage contacting, top
- 4. Lateral contacting
- 5. Pushrods
- 6. PCB support pins
- 7. Tooling pins 8. Pre-centring pins
- 9. Transfer fields
- 11. Button activator
- 12. Adjustment of screw-in devices

10. Tested as "good" marking

- 13. LED check
- 14. Open Test check
- 15. Component detection
- 17. RJ45 contacting
- 16. USB contacting

- 18. RF switch contacting
- 19. Fakra contacting
- 20. HSD contacting

ESD materials

Upgrade kits to expand function 🗸

- 21. Flat connector contacting
- 22. High voltage contacting
- 23. High current contacting

MA VA PA WS Single-stage contacting bottom 🗸 🗸 🗸

*** * * ***

3 3 3				
Single-stage contacting top	~	~	~	~
Dual-stage contacting bottom	~	~		~
Lateral contacting	~	~	~	~
Radio frequency contacting	~	~	~	~
Radio frequency shielding	~			
High current contacting	~	~	~	~
Fine pitch contacting	~	~		
Tandem unit	~	~		

TEST FIXTURE KITS

MA Manual test fixtures



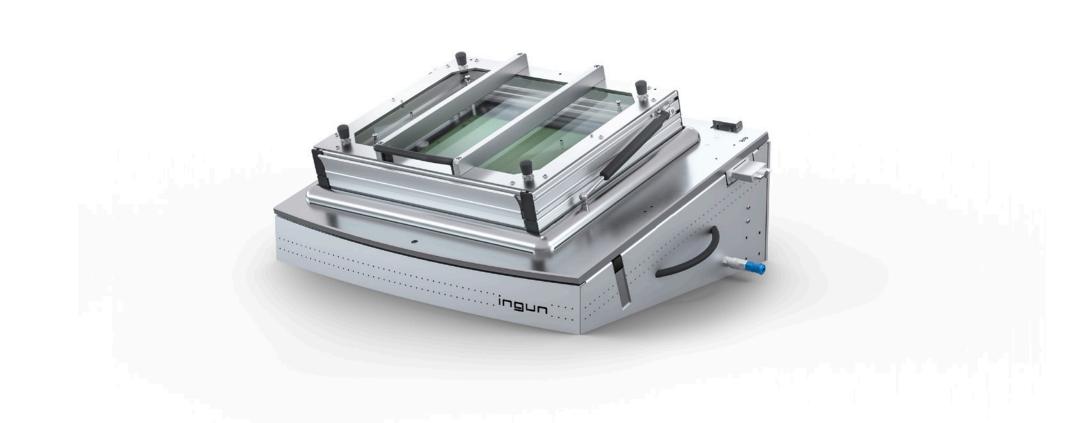
- Contacting stroke is generated manually
- Exchangeable kit with internal interface and stand-
- alone test fixture Various sizes and series available
- Exchangeable kits in standard, ESD, and RF versions
- Can be modularly expanded with functional units Contact force up to 2 kN
- Suitable for all common test systems

VA Vacuum test fixtures



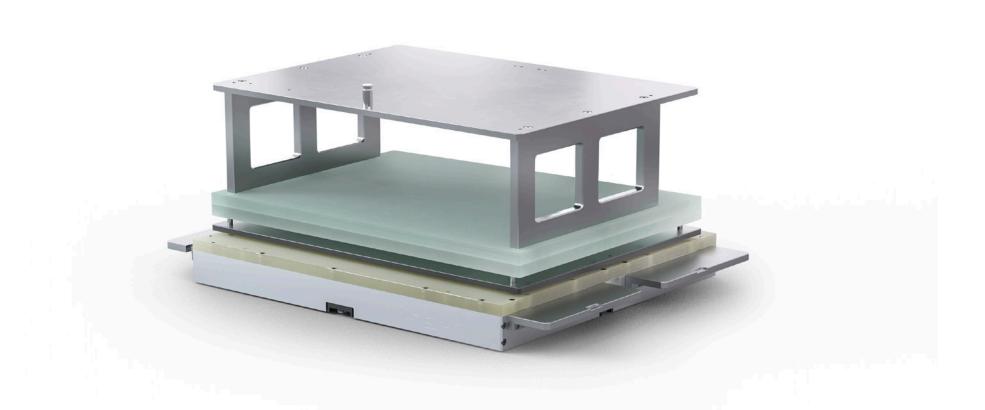
- Contact stroke is vacuum-generated
- Stand-alone test fixture
- Various sizes and series available Can be configured with various customisations,
- e.g. vacuum cover or additional contact unit
- Contact force up to 24 kN
- Low wear, as there are few moving mechanical parts
- Suitable for all common test systems

Pneumatic test fixtures



- Contacting stroke is generated pneumatically
- Exchangeable test fixture with internal interface
- Various sizes and series available
- Exchangeable kits in standard and ESD versions
- Contact force up to 2.5 kN
- Includes stiffener bars and circumferential finger guard

ws Inline interchangeable kits



- Contacting stroke generated by the inline test system
- Various sizes and series available

top part (WSO)

- Modular design consisting of bottom part (WSU) and
- Low wear, as there are few moving mechanical parts Quick, easy installation which does not require tools
- Suitable for all common test systems

ACCESSORIES

FB Functional units



- Using funtional units, test fixtures and exchangeable kits can be expanded to meet indiviudal testing need as required. Numerous units are available for manual fixtures and exchangeable kits to realise:
- Increased ease of use, e.g. self-opening units
- Increased testing safety, e.g. locking units
- Reduced handling times, e.g. lifting units

ZUB Customising accessories



- Comprehensive range for DUT-specific customisation, suitable for every application, e.g.:
- Tooling pins
- PCB support pins Pre-centring pins
- Pushrods
- Interface blocks
- Side-approach mechanism Screwing units

Board marker probes

- Button activiators
- Spring-loaded test probes











TEST FIXTURE KITS AND ACCESSORIES

ATE MAxx14

VA 2073L-2e

VA XXXX SERIES

Pressure frame unit

Additional contacting unit

VACUUM ASSEMBLIES

 Vacuum-free zone Test under standard atmosphere Top contacting not

Manual closing

 Vacuum-free zone Test under standard

atmosphere

Manual closing

Top contacting not

 ESD-compliant cover Manual closing

Test under vacuum

Manual closing

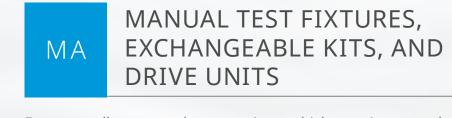
Top contacting possible

Top contacting possible

ATS MAxx/HF/ESD



modular | robust | dependable



For manually-operated test stations which require a moderate

amount of test points to be tested.



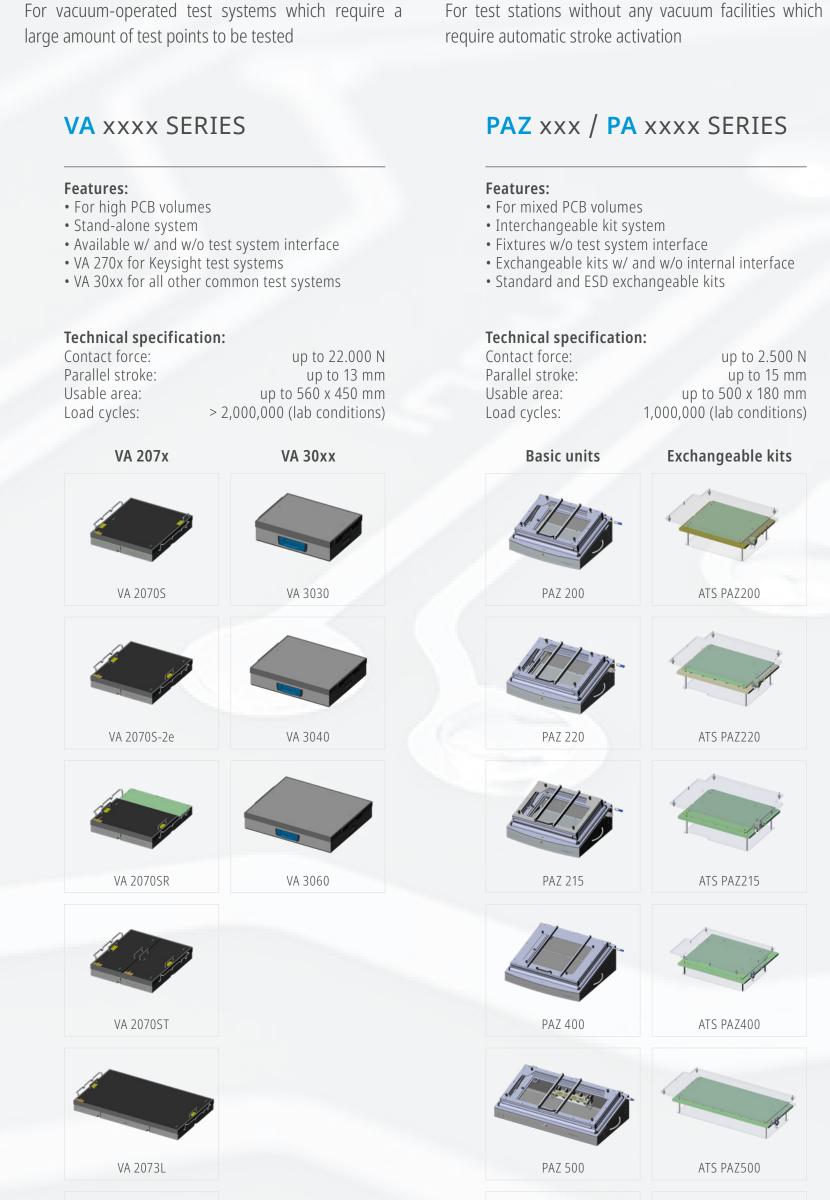
Safety switch, NC/NO Safety switch, solenoid Safety switch, magnetic Self-opener, pneumatic

Anti-pinch protection

Actuator safety switch

Push button box

Used to easily and reliably control the functional nits available for the manual test fixtures



TEST FIXTURES

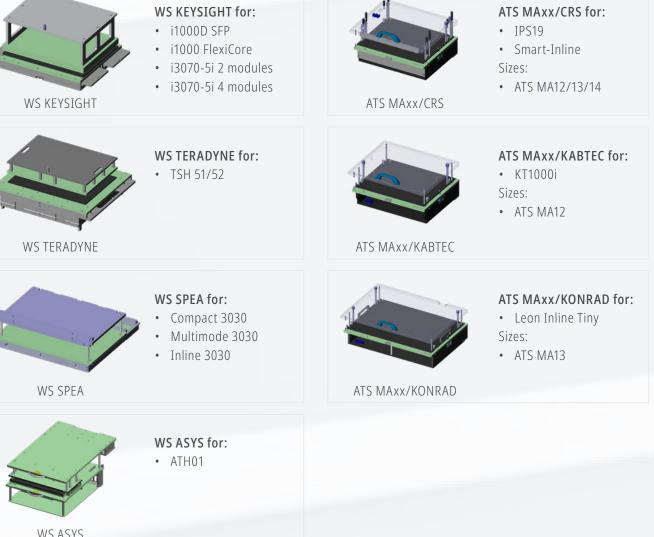


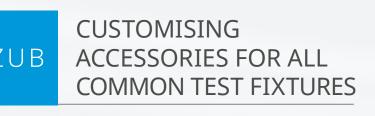
PNEUMATIC TEST

FIXTURES AND



dular design c top unit (WS ck installation	t common inline test systems onsisting of bottom unit (WSU)	 Features: For high PCB v Available for m Modular desig top (NDH) unit Quick installati Easy exchange inline test systems 	ost common inlirn n consisting of boon, without the robetween MA xxxx	ottom (KTE) and need for tools
nical specific	ation:	Technical speci		
ct force: el stroke: e area: cycles:	acc. to inline test system acc. to inline test system up to 670 x 380 mm > 2,000,000 (lab conditions)	Contact force: Parallel stroke: Usable area: Load cycles:	acc. to inline sy acc. to inline sy up	ystem / MA fixtu ystem / MA fixtu o to 540 x 310 m 00 (lab condition
WS	Inline test system	ATS MAX	x Inli	ne test system
	WS KEYSIGHT for: • i1000D SFP		ATS MA	Axx/CRS for:





For standard and project-specific on-site customisation of all common test fixtures and exchangeable kits

> Suitable for all common exchangeable kits Suitable for all common interchangeable kits



For preventive maintenance and/or to replace worn

Components can be exchanged by operators

Ordering and storage of individual components

Pressure frame plates Gas pressure springs

MA GDF mounting unit Bolt replacement set

Front bearing blocks

Clamping lever, ATE

RF wire-mesh seals

themselves on site

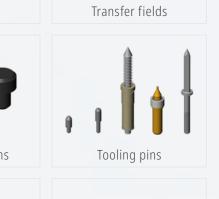
not necessary

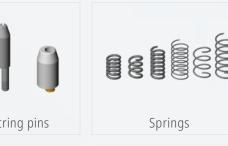
CUSTOMISING ACCESSORIES SPARE PART KITS

Features:	Features:
 Extensive, high-quality range 	 Spare parts for worn parts available as kits
 Individually configurable for specific projects 	single parts including installation instruction
 Ideal for independent, on-site customisation 	for safe and easy exchange
 Installation documentation provided 	 Quick, reliable, easy maintenance
 Suitable for all common test fixtures 	 High-precision individual components

Spare parts for maintenance



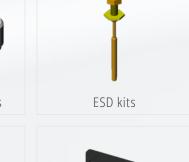








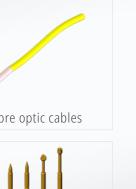




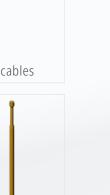






















MA xxxx SERIES

UPGRADE KITS

Functional units for increased ease of use, reduced handling times, and increased testing reliability

Self-opener, electric Closed fixture checks Locked fixture checks Lockings units, closed Locking units, open

Pass/fail indication

Protective cover, VDC

Stiffener bars

MA xxx SERIES

UPGRADE KITS

64-pole male connector 96-pole male connector

Functional units