



**Testfixtures
LED-Test
Probes**

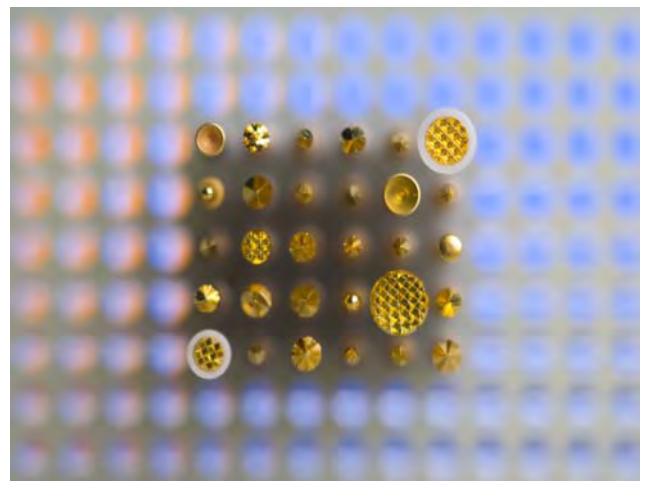




Table of contents:

I. Description of products and news

- [1. We about us](#)
- [2. Testability for loaded Boards](#)
- [3. X-Probe Fixtures](#)
- [4. Digital LED Colour Analyzer](#)
- [5. Shielded Test Fixture](#)
- [6. Fine Pitch Fixture System](#)

II. Probes

- [1. General](#)
- [2. QA Catalog](#)
- [3. QA integratMate® Contacts](#)
- [4. QA integratMate® D-Series](#)

III. Fixtures

- [1. Aeroflex \(IFR\)](#)
- [2. Agilent](#)
- [3. Digitaltest](#)
- [4. Rohde & Schwarz](#)
- [5. Scorpion](#)
- [6. Spea](#)
- [7. Teradyne \(GenRad\)](#)
- [8. Teradyne](#)
- [9. Changeable fixture](#)
- [10. Turn table unit](#)

IV. Receiver

- [1. G12 Receiver](#)
- [2. TSI Receiver](#)

V. LED Test

VI. Accessories



Table of contents:

I. Description of products and news

[1. We about us](#)

[2. Testability for loaded Boards](#)

[3. X-Probe Fixtures](#)

[4. Digital LED Colour Analyzer](#)

[5. Shielded Test Fixture](#)

[6. Fine Pitch Fixture System](#)

1. We about us



Office and workshop in Alling near Munich



Production plant Hamm in Nordrheinwestfalen

For over 25 years GPS Prüftechnik has been standing for technical achievements, innovation, quality and reliability.

Our very high goal is to guarantee customer satisfaction by an absolute quality of our products and services.

We are able to reach this goal with the close contact to our customers, a team of technical specialised employees and a rapid and exact response to customers requirements.

The development of our company supports us in the way of thinking.

Network of distribution

GPS Prüftechnik works together with powerful partners which fulfil the high requirements of GPS Prüftechnik considering the closeness to the customer and the quality of service.

Beside our foreign offices in Switzerland and Hungary, we have partners in France, Finland, Great Britain, Holland, Italy, and Spain which work with us very close.

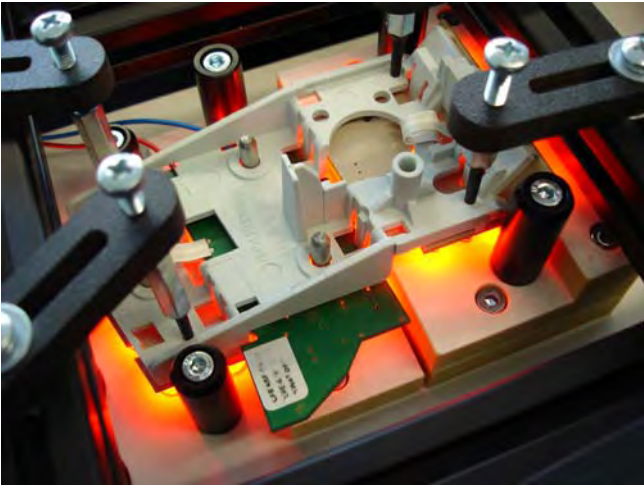


Production plant Seligenstadt near Frankfurt a.M.



Production plant Zalaegerszeg Hungary

Digital LED Colour Analyzer



The GPS Digital Colour Analyzer tests the full spectrum of visible light from very dim to the brightest LED.

An unrivalled repeatability by testing colour and intensity of LEDs is guaranteed.

The GPS Digital Colour Analyzer provides a very economical solution for your LED testing.

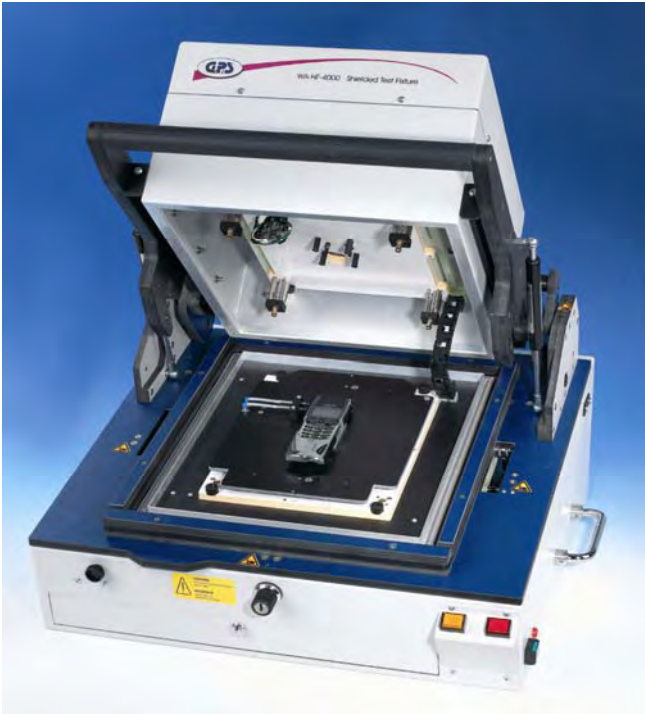
The GPS Digital Colour Analyzer offers fast and automatic testing for both the colour and brightness (intensity) of Light Emitting Devices (LEDs).

The applied Digital Colour Sensor allows a colour depth of 12 bit resolution for the colours red, green and blue.

With the Digital Colour Sensor therefore an unmatched accuracy of measurement of colour and intensity can be reached.



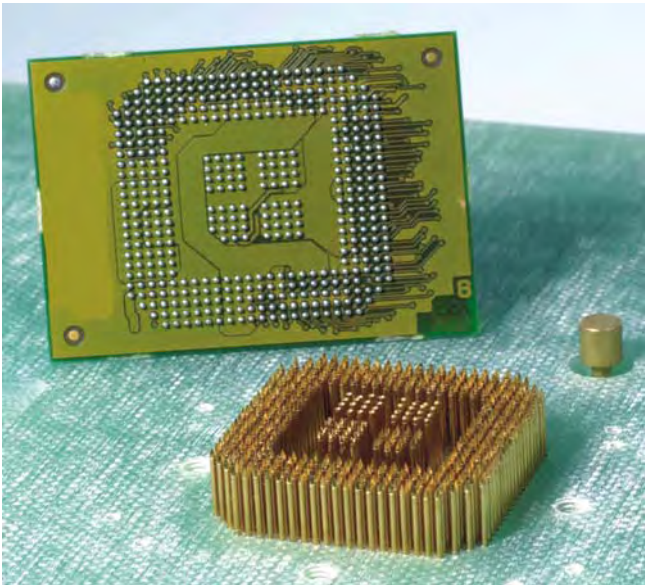
Shielded Test Fixture



The GPS WA-HF-4000 is a shielded test fixture for testing objects with radio interface as mobile phones, PDAs (personal digital assistance), radio keys, cordless phones and other small devices. The testing objects can work on the basis of very different radio standards like GSM, WCDMA (UMTS), *Bluetooth*^{TM*}, WLAN or Home RF. This test fixture is applicable particularly to the production and also to service, repairs and quality assurance. In the HF shielded area there are no interfering parts as boards or something else, so that good capture conditions can be reached. To avoid interfering reflexions in the test fixture additional HF and audio absorber can be installed.



X-Probe® Fixture



Das X Probe®-Designkonzept zeichnet sich, verglichen mit einem konventionellen Federkontaktstift- und Hülsen-System, durch einen robusteren Federkontaktstift für ein kleineres Raster aus. Wird die Hülse von einem 100mil (2,54mm) Federkontaktstift entfernt, kann der Federkontaktstift in einem 75mil (1,90mm) Raster eingesetzt werden (X75 Serie). Ein 75mil (1,90mm) Federkontaktstift kann in ein 50mil (1,27mm) Raster (X50 Serie) und ein 50mil (1,27mm) Federkontaktstift in ein 39mil (0,99mm) Raster (X39 Serie) eingesetzt werden.

Die X Probe®-Serie besteht aus zwei Teilen, nämlich aus einem Federkontaktstift und einem Termination-Pin. Der Federkontaktstift ist nach dem von QA patentierten „rolled probe tube design“ konstruiert und am Ende mit einer modifizierten Steckhülse versehen. Diese Steckhülse verlängert das Gehäuse des Federkontaktstiftes, alle anderen Eigenschaften sind jedoch gleich.



Fine Pitch Fixture



For the Fine Pitch Fixture rigid probes of the Bare Board Test (bare boards) are used.
The fixture system consists of the base fixture and the test head.
The test head leads the rigid probes to the test pad of the UUT so that test pad sizes up to 0,4mm diameter can be contacted safely.
The center to center is 0,5mm.
Fine Pitch Fixtures are offered as well as mechanical, pneumatical and vacuum fixtures.



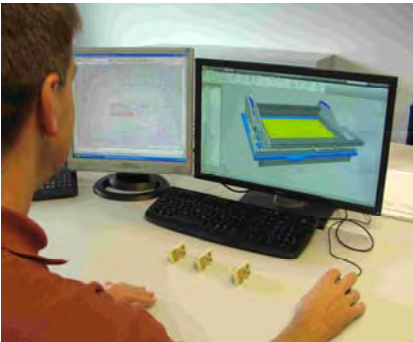
With qualified employees and newest production technologies we are able to offer our customers the best technical solution.

CNC-controlled drilling- and milling machine

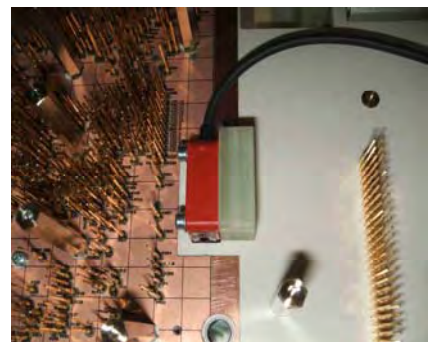


The ATE industry is very quality conscious. It is therefore our goal to offer to our customer high quality solution, technically as well as in service. The keys to constantly providing high quality and technical solution are well trained, skilled and highly motivated employees and the use of up to date production equipment. Most of our employees have been working in the ATE business for years and pass on their steadily growing experience to the newer colleagues through our internal training program. Our production equipment is mostly computer aided to ensure a smoothly production data flow and highest quality.

Semiautomatic wiring system

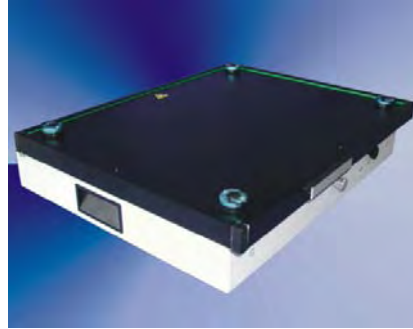
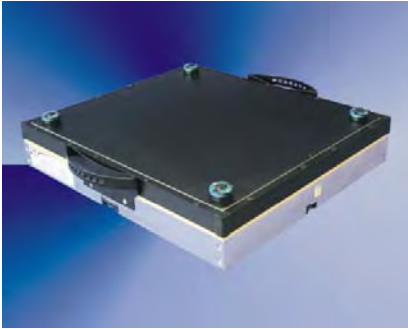


Modernste Software Tools wie Autodesk, Inventor und NC Polaris



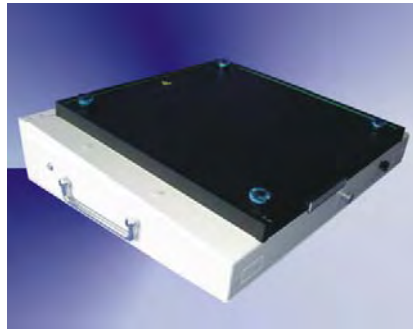
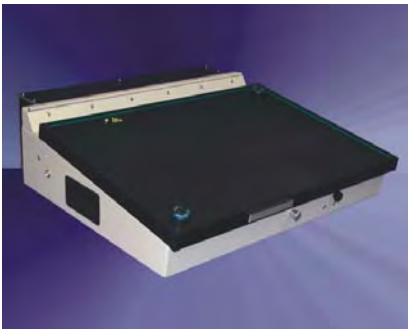
Customized fixtures

Vacuum Fixture

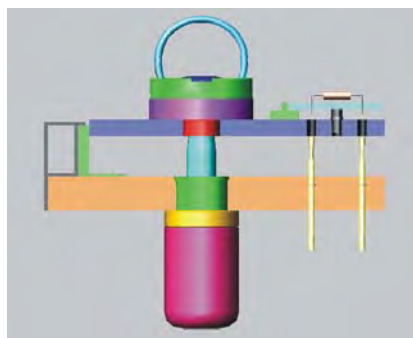


For all vacuum fixtures there is a variety of options available. The most popular are listed here:

- Dual well option to reduce handling time or to optimize the required space.
- Double sided probing with our top side probing unit which combines parallel lowering in approaching the unit under test with easy access in the opened position.
- Integration of opens test sensors into the fixture from the top as well as from the bottom side.
- Dual stage option to switch off easily all probes that are not required for critical measurements without removing the unit under test from the fixture.
- Mechanical or pneumatical edge connector probing to test at the connector's pins.
- Mechanical or pneumatical operation of switches, buttons etc. to test these devices as well.

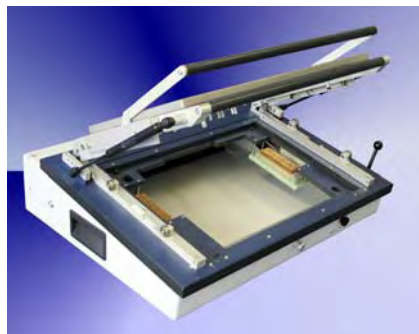
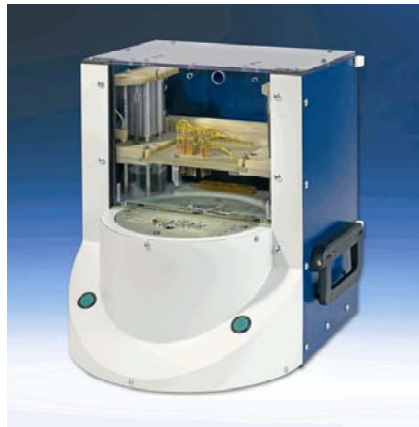


Vacuum fixtures for all important Test Systems



The patented fastening system "Plug And Guide"

Changeable Fixture



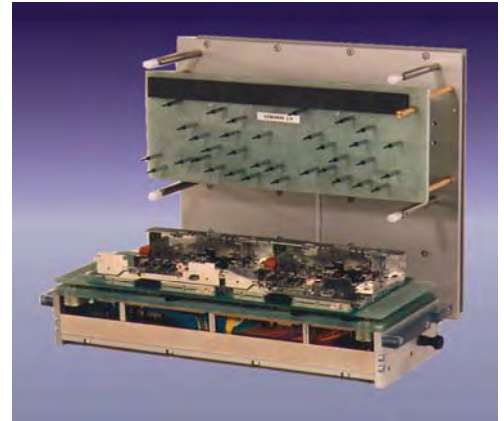
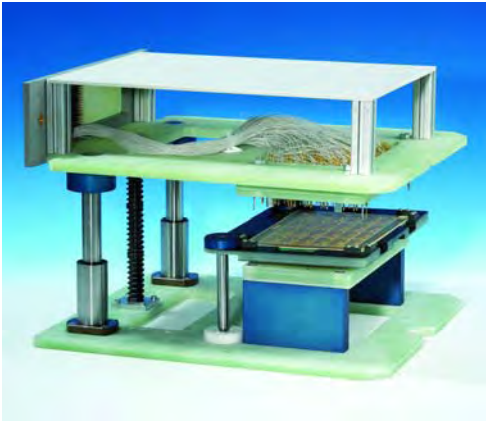
We offer various cassette fixturing solution for customers which produce a number of different boards in small batches. The boards specific part of these cassette fixtures can be exchanged in the base unit which help reducing fixturing costs.



Zur verschleißfreien Kontaktierung von unterschiedlichen Buchsen, bieten wir eine Vielzahl von Anfahrmechaniken und Prüfstecker wie Western- oder USB-Stecker.



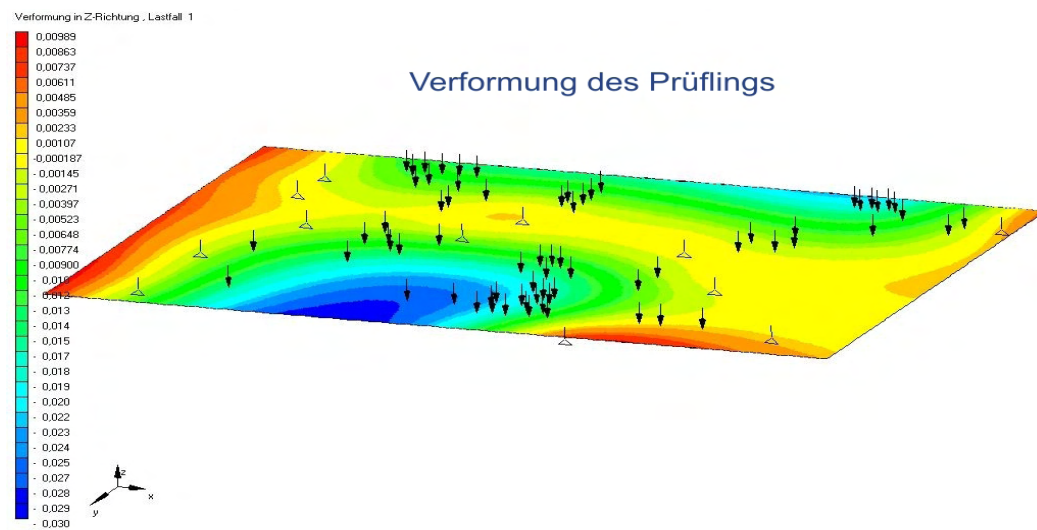
In-Line Systems and Special Fixture



Beside our standard product range we have already developed various customised solutions with integrated controllers and stand-alone test systems.

We see ourselves as specialists for probing printed circuit boards. So if you have a test requirement of any kind please do not hesitate to contact us and we will try to develop a solution together with you.

Stress Analysis of Loaded Boards in Test Fixtures

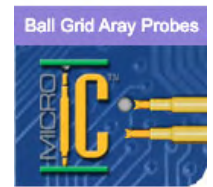
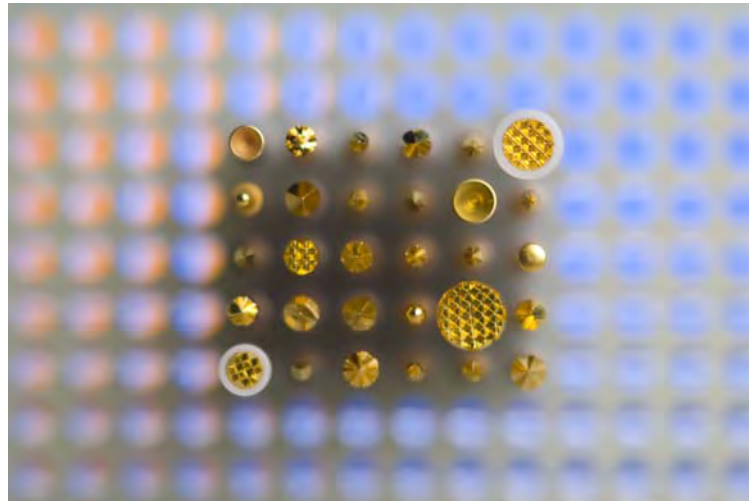


The stress analysis is for an optimal design of test fixtures regarding their distance pins and push down fingers according to the spring force of the test probes.

The calculation shows the expected distribution of deformation and bending stress as well as the surface pressure of each push down finger.

We would like to advise you on the development of new test fixtures or also would like to calculate your fixtures which are already in use.

QA probes



The probes are very important for the pointing accuracy of the whole fixture. The QA probe design features a patented self alignment of the probes in the uncompressed position.

The spring is longer compared to the conventional probe design although the outside dimensions are compatible. The longer spring ensures a minimum mechanical lifetime of 1 Million cycles.

The risk of probe failure due to spring fatigue is therefore negligible. The probe plunger is based to ensure a constant probe resistance.

This helps stabilizing the electrical measurements. With an automatized production QA is able to offer a wide variety of tip styles and spring force at a short delivery.

We sell QA probes exclusively in the areas of Germany, Austria, Switzerland, Hungary, Czech Republic and Slovakia.

2. X-Probe Fixture



The better solution





TABLE OF CONTENTS

[4.1 X Probe®-Socketless Technology](#)

[4.2 Advantages and Features of X Probe®-Socketless Technology](#)

[4.3 Platforms](#)

[4.4 Pointing Accuracy of X Probe®-Socketless Technology](#)

[4.5 Suggested Mounting Hole Specifications](#)

[4.6 Calculating X PROBE Termination Pin Set Heights](#)

[4.7 Calculation between Standard Fixture and X Probe®-Fixture](#)

4.1 X Probe®-Socketless Technology



The X PROBE design concept is taking a larger more robust probe and mounting it on closer centers compared to a conventional probe and socket system. By eliminating the socket from the system, a .100" center probe can be mounted on .075" centers (X75 Series), a .075" center probe can be mounted on .050" centers (X50 Series) and a .050" center probe can be mounted on .039" centers (X39 Series).

The X PROBE Socketless Series is comprised of two parts; a probe and a termination pin. The probe is designed around the patented rolled probe tube design with a modified interconnect receptacle on the bottom. This interconnect receptacle increases the X PROBE tube length slightly. All other aspects of the probe are the same.

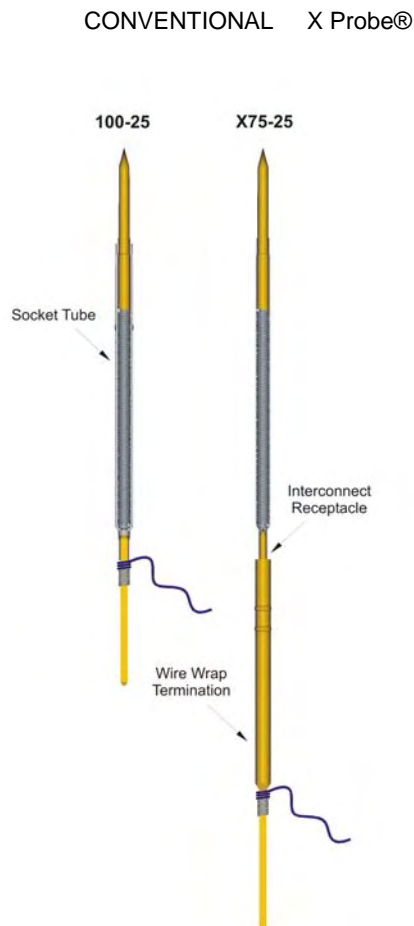


Figure1

The interconnect receptacle receives the precision interconnect pin located at the top of the termination pin. The termination pin is unique in that it performs all of the functions of a typical socket while staying within the diameter of the probe tube.



4.2 Advantages and Features of X Probe®-Socketless Technology

- Mount “larger” probes on closer centers for longer probe life.
- Eliminating the single press ring socket increases pointing accuracy.
- Extensive probe to termination pin insertions versus competitive products.
- Replace socketless probes as easily as conventional probes for preventive maintenance.
- Wide variety of tip styles and spring force selections to accommodate various test targets.
- Available in .050 [1.27] center probe with .400 [10.16] stroke for dual level testing.
- Double-ended termination available for wireless test fixtures.
- Multiple set heights allow for various test probe height requirements.
- Easily incorporated into fixture designs for all test platforms: Agilent, GenRad, Teradyne and others.
- X PROBE Socketless Technology is compatible with all existing manufacturing and assembly techniques.

4.3 Platforms

The X PROBE is compatible with Agilent, Teradyne, and others. Existing fixture kits are able to accommodate X PROBES even when additional plates are required. In general, the height of the fixture is increased to maintain the depth of the wiring area to accommodate the personality pins and alignment plate. A taller dress frame is required to accommodate any additional height.

With design considerations, standard test probes can be mixed mounted with the X PROBE Series. A standard socket would mount in the Probe Plate and clearance holes would have to be drilled in the Spacer* and Back Plates. In a vacuum fixture, a gasket or seal method would have to be designed to maintain the integrity of the vacuum. The best approach is to cut out areas in the plates where the sockets are to be mounted and design inserts with gaskets to accommodate them.

Agilent Fixture with X Probe® Technology

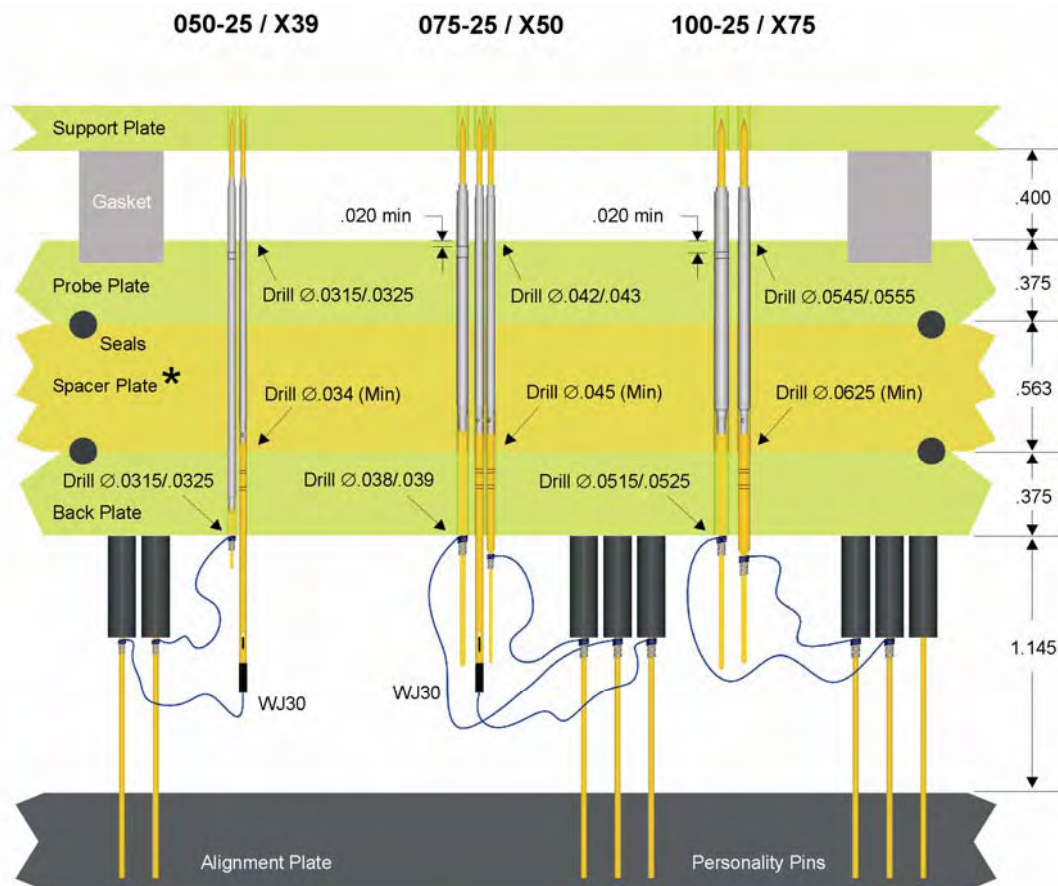


Figure 2

All plate thickness dimensions are suggested.

Teradyne Fixture with X Probe® Technology

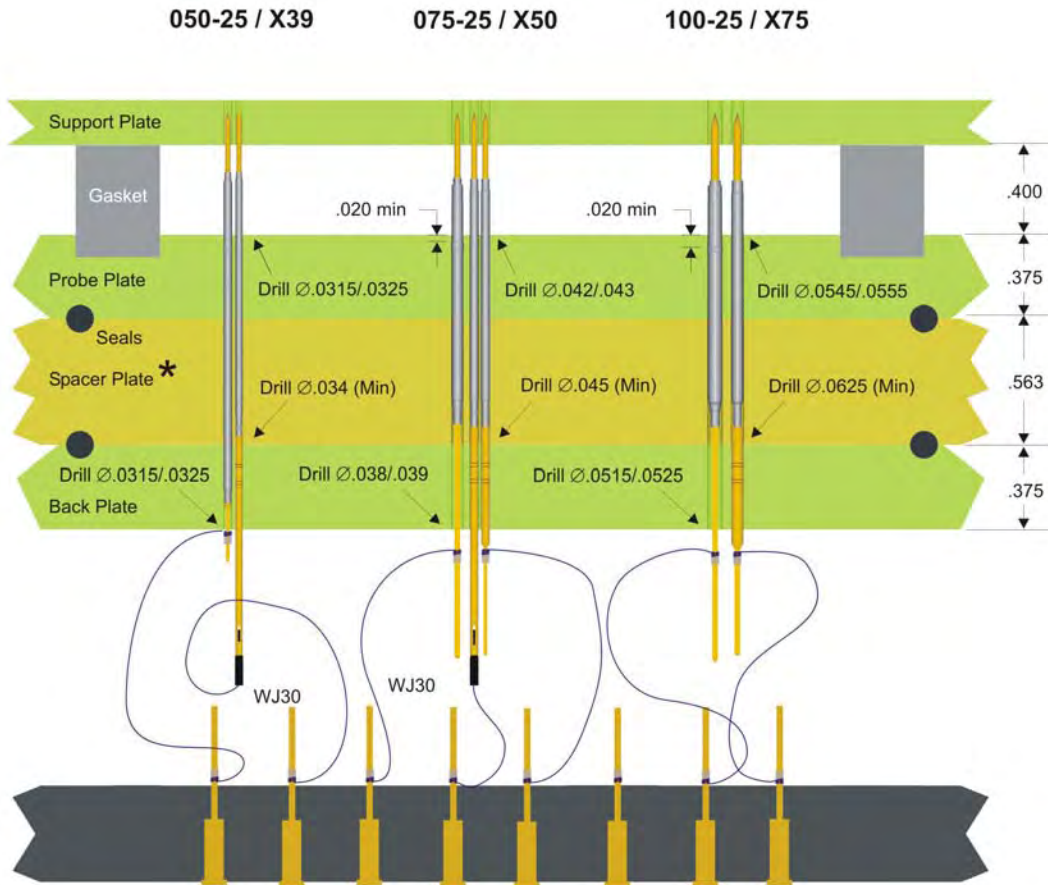


Figure 3

All plate thickness dimensions are suggested.

The X PROBE design can be used with pneumatic, mechanical and vacuum fixtures.

X Probe® Socketless Technology Wireless with Multiple Set Heights

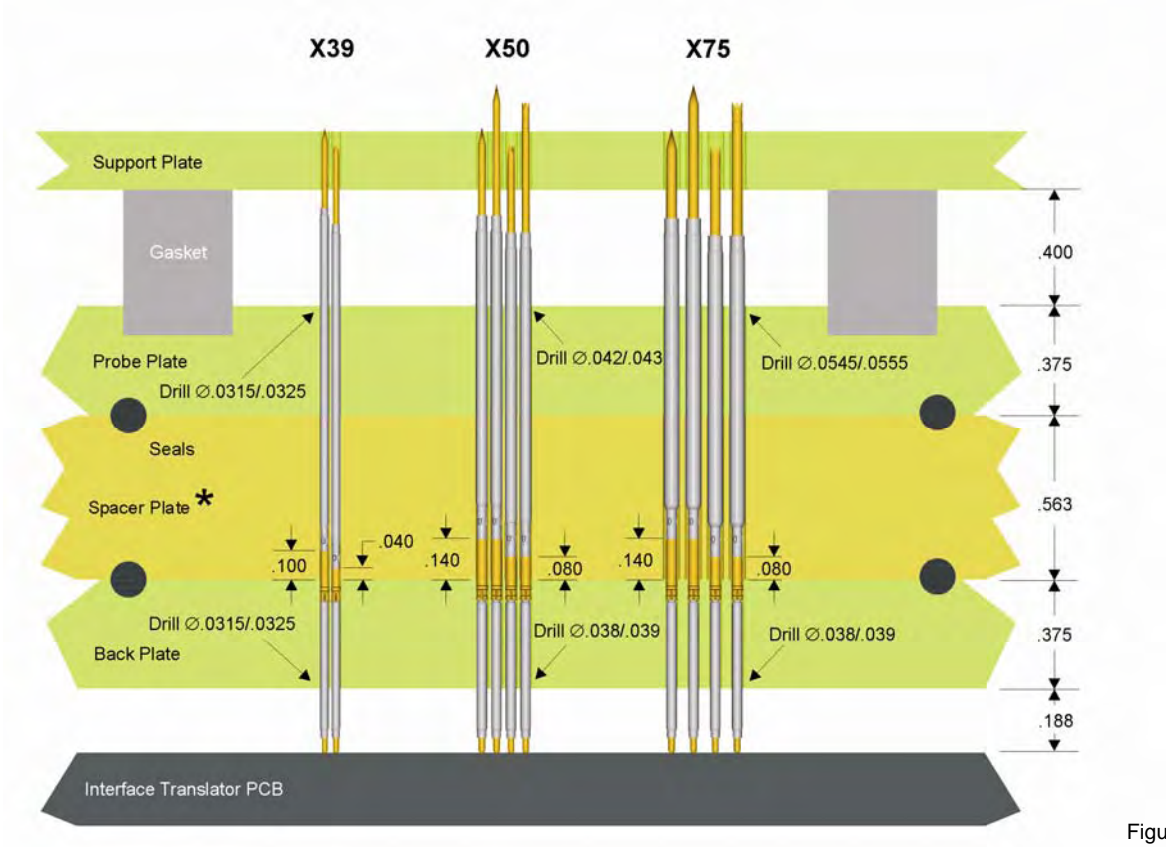


Figure 4

All plate thickness dimensions are suggested.

Wireless Fixture available for Aeroflex, GenRad, Teradyne and Digitaltest.
Please ask for other interfaces.

X Probe® Socketless Technology Wired with Multiple Set Heights

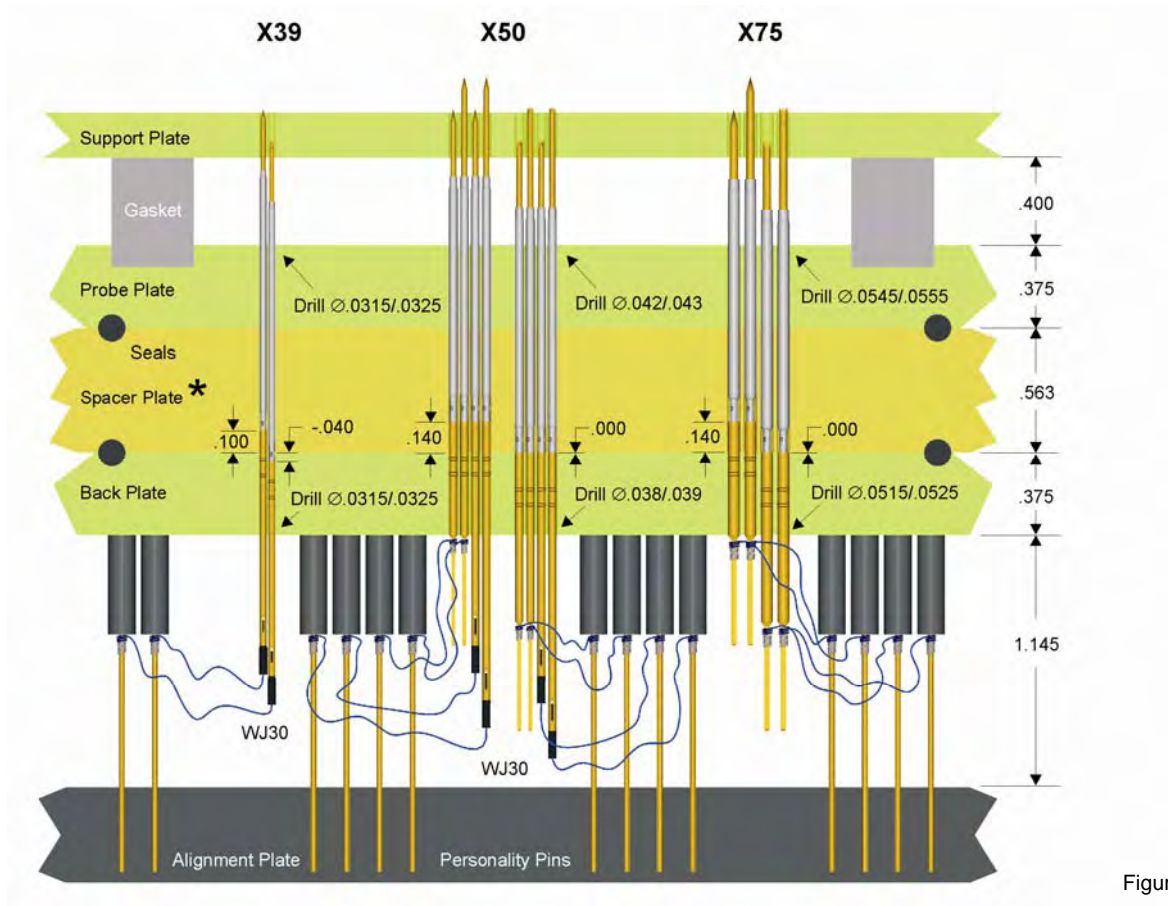


Figure 5

All plate thickness dimensions are suggested.

4.4 Pointing Accuracy of X Probe®-Socketless Technology

Pointing accuracy is defined as the maximum radial deviation of a probe tip from the true centerline of a probe's mounting hole. The total probe-to-target accuracy is dependent upon the "Fixture Offset", the "Scatter Pattern Offset", and the "Scatter Pattern Diameter". Thus, with the use of X PROBE technology, the user can expect at least 40% better pointing accuracy compared to a conventional probe and socket system.

Performance summary

Product Series	Resistance	Mechanical Life	
	Average mOhms	# of Cycles	Stroke
X39-PRP25	44	1.000.000	4,25 mm
X50-PRP25	25	1.000.000	4,25 mm
X50-PRP40	24	50.000	8,05 mm
X75-PRP25	17	1.000.000	4,25 mm
X75-PRP40	14	100.000 (X Spring)	8,05 mm
X75-PRP40	14	1.000.000 (L Spring)	8,05 mm

Figure 6

4.5 Suggested Mounting Hole Specifications

The X PROBE termination pins are installed in the Back Plate of the fixture and are used to adjust the set height of the probe while providing the electrical connection from the probe to the fixture wiring.

The X PROBE Socketless Series is available in two Termination types: wired and wireless. The following chart gives recommended hole sizes and pin gauges for G-10/FR4 or similar materials:

Series	Plate	Probe Mounting Hole	Termination Mounting Hole
X39	Probe Plate (KTP)	0,8-0,826 mm	./.
	Spacer Plate	min 0,86 mm	./.
	Back Plate	./.	0,8-0,826 mm
	Pin Gauge PN	PG-X39	PG-X39
X50	Probe Plate (KTP)	1,07-1,09 mm	./.
	Spacer Plate	min 1,14 mm	./.
	Back Plate	./.	0,97-0,99 mm
	Pin Gauge PN	PG-X50	PG-X50
X75	Probe Plate (KTP)	1,38-1,41 mm	./.
	Spacer Plate	min 1,57 mm	./.
	Back Plate	./.	1,31-1,33 mm
	Pin Gauge PN	PG-X75A-P	PG-X75A-T

Figure 7

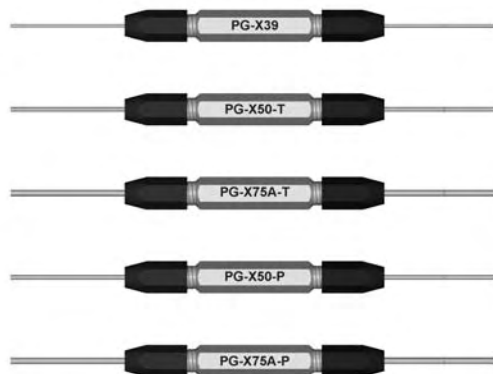


Figure 8

Pin Gauge PN

4.6 Calculating X Probe Termination Pin Set Heights

Termination pin set height is a critical factor in the performance and life of the X Probe. When set too low, the X Probe is under-stroked, reducing the contact force and the probe's ability to penetrate surface contaminants. When set too high, the X Probe is over-stroked, resulting in decreased spring life or possible Tipp damage due to bottoming. To calculate the proper set height, follow these steps:

1. Make a cross-sectional sketch of the fixture in the actuated (2/3 stroke) position. The sketch at right is typical of many vacuum fixtures.
2. Dimension the thickness of the items that stack up on the top surface of the probe mounting plate. Add these dimensions to get a final distance (H) from the top of the plate to the contact surface of the UUT. Subtract the average lead length from this dimension if contacting component leads.
3. (A) is the distance from the UUT to the top of the Back Plate.
4. (C) is the X Probe tube length (see table).

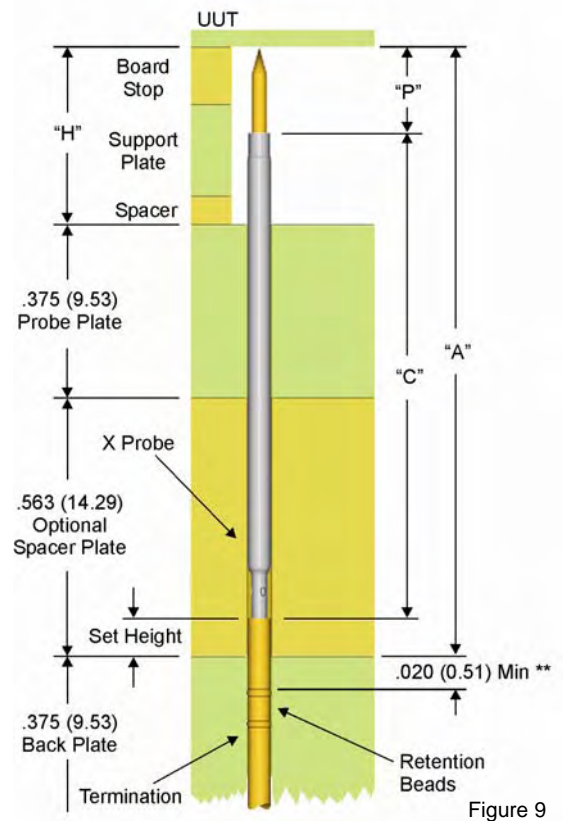


Figure 9

5. (P) is the distance from the X Probe tip to the top of the X Probe tube (see table). Remember this dimension is with the X Probe compressed to its recommended working travel.

$(A) = (H) + 9,53 \text{ mm KTP (Probe Plate)} + 14,29 \text{ mm (optional Spacer Plate)}$. Use actual plate thickness or standoff lengths as per your design.

Proper set height = $(A) - (C) - (P)$

Key Probe Dimensions for Calculating Set Heights			
Series	Probe Tube Length C	Recommended Extension P	Available Set Height Ranges
X39-25	29,92 mm	2,67 mm	1,02-2,54 mm
X50-25	28,19 mm	3,38 mm	0-3,56 mm
X50-40	28,19 mm	3,38 mm	0-3,56 mm
X75-25	27,94 mm	3,63 mm	0-3,56 mm
X75-40	27,94 mm	3,63 mm	0-3,56 mm

Figure 10

4.7 Calculation between Standard Fixture and X Probe®-Fixture

Test Points number	Standard Fixture				X-Probe Fixture			
	100 mil.	75 mil.	50 mil.	39 mil.	100 mil.	75 mil.	50 mil.	39 mil.
100	3.130,00 €	3.262,00 €	3.712,00 €	4.249,00 €	3.729,00 €	3.729,00 €	3.878,00 €	4.296,00 €
200	3.470,00 €	3.734,00 €	4.634,00 €	5.708,00 €	4.208,00 €	4.208,00 €	4.506,00 €	5.342,00 €
300	3.810,00 €	4.206,00 €	5.556,00 €	7.167,00 €	4.687,00 €	4.687,00 €	5.134,00 €	6.388,00 €
400	4.150,00 €	4.678,00 €	6.478,00 €	8.626,00 €	5.166,00 €	5.166,00 €	5.762,00 €	7.434,00 €
500	4.490,00 €	5.150,00 €	7.400,00 €	10.085,00 €	5.645,00 €	5.645,00 €	6.390,00 €	8.480,00 €
600	4.830,00 €	5.622,00 €	8.322,00 €	11.544,00 €	6.124,00 €	6.124,00 €	7.018,00 €	9.526,00 €
700	5.170,00 €	6.094,00 €	9.244,00 €	13.003,00 €	6.603,00 €	6.603,00 €	7.646,00 €	10.572,00 €
800	5.510,00 €	6.566,00 €	10.166,00 €	14.462,00 €	7.082,00 €	7.082,00 €	8.274,00 €	11.618,00 €
900	5.850,00 €	7.038,00 €	11.088,00 €	15.921,00 €	7.561,00 €	7.561,00 €	8.902,00 €	12.664,00 €
1000	6.190,00 €	7.510,00 €	12.010,00 €	17.380,00 €	8.040,00 €	8.040,00 €	9.530,00 €	13.710,00 €
1100	6.530,00 €	7.982,00 €	12.932,00 €	18.839,00 €	8.519,00 €	8.519,00 €	10.158,00 €	14.756,00 €
1200	6.870,00 €	8.454,00 €	13.854,00 €	20.298,00 €	8.998,00 €	8.998,00 €	10.786,00 €	15.802,00 €
1300	7.210,00 €	8.926,00 €	14.776,00 €	21.757,00 €	9.477,00 €	9.477,00 €	11.414,00 €	16.848,00 €
1400	7.550,00 €	9.398,00 €	15.698,00 €	23.216,00 €	9.956,00 €	9.956,00 €	12.042,00 €	17.894,00 €

Figure 11

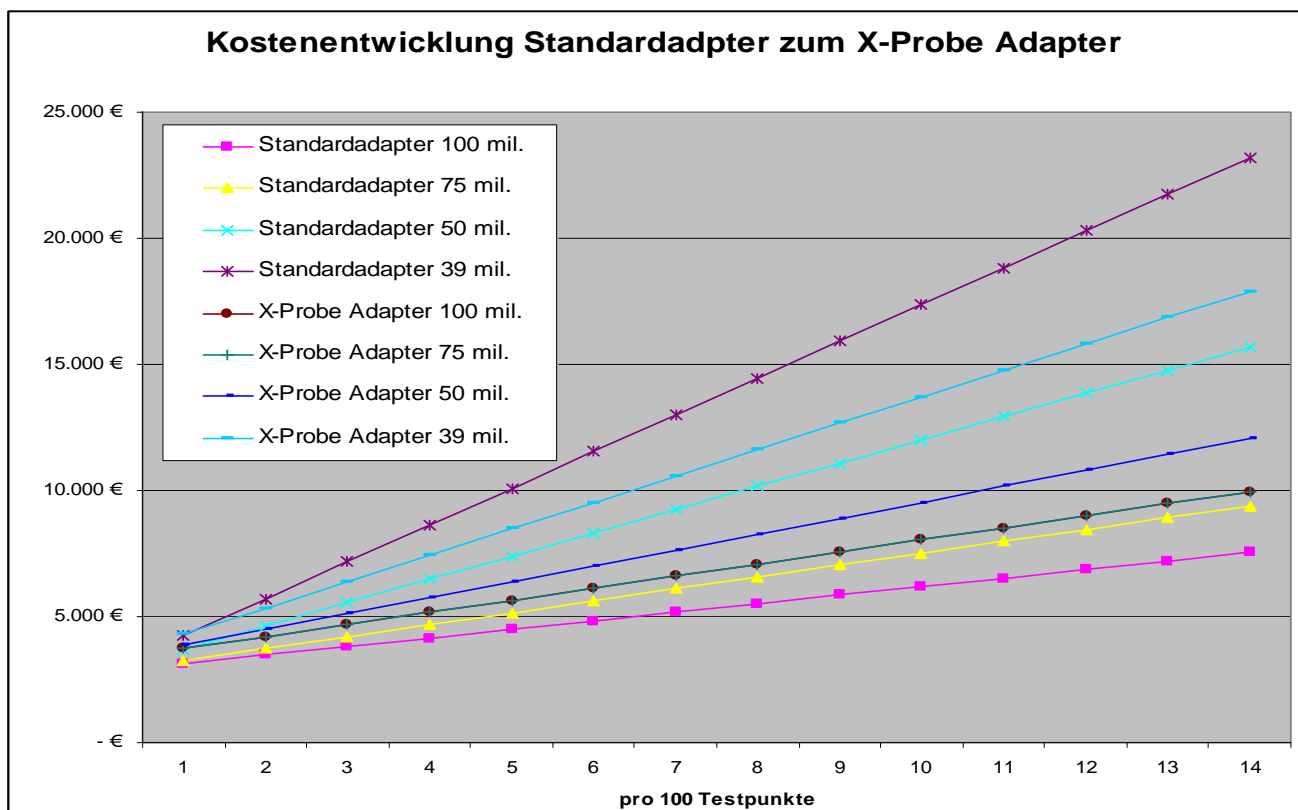
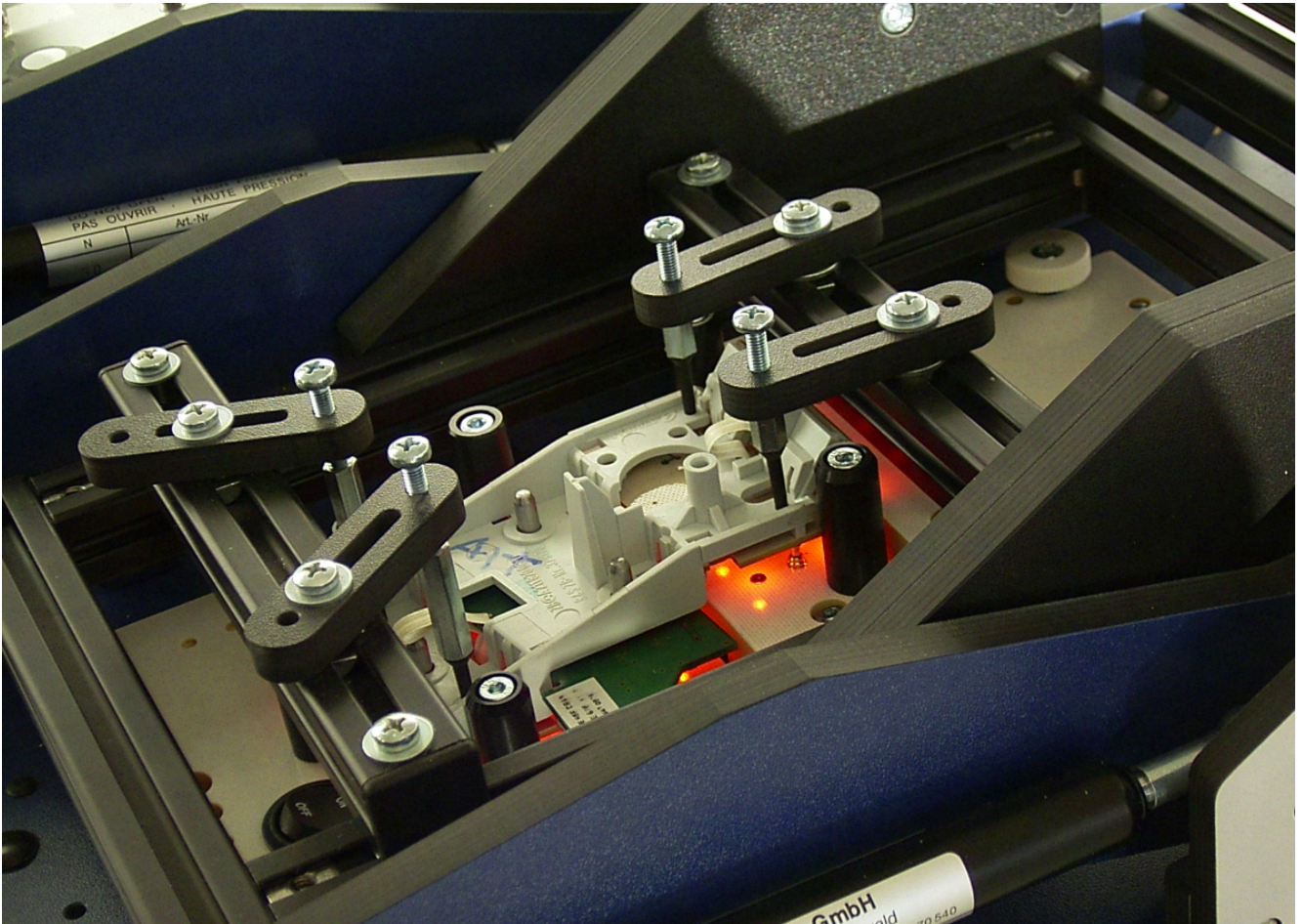


Figure 12

3. Digital LED Colour Analyzers



LED TESTING JUST GOT EASIER

TABLE OF CONTENTS

5.1 General Information

5.2 Advantages and Features of Digital Colour Analyzer

5.3 Measuring Colour using Hue

5.4 Fixture building guidelines

5.5 Digital LED Colour Analyzer

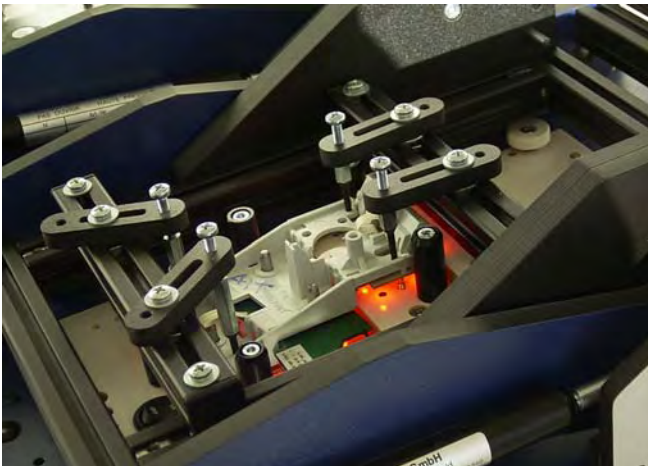
5.6 Spezification of the Digital LED Colour Analyzer

5.1 General Information

With over 20 years experience in the In Circuit Test (ICT) industry and extensive knowledge of the Automatic Test Equipment (ATE) environment, the GPS LED Analyzer provides a fast and reliable solution for testing of LED colour and intensity in a Production environment.

Communications with the GPS LED Analyser is via RS 232 or USB interface.

The use of plastic fiber optic cable of 1mm diameter allows light from LEDs on very close centers be tested for both colour and intensity consistency. The plastic fiber optic cable, which has a bend ratio of 15mm, eliminates the need to use light pipes, light guides or light probes. The fibre optic is easily fixtured in a 75 thou receptacle mounted over the centre of the LED.



One example of use to check brake lights LEDs

Figure1

Mounting the LED Colour Analyzer in an In-Circuit-Test Fixture.

Figure2





5.2 Advantages and Features of GPS Colour Analyzer

The LED Analyzer is used in the following applications:

- PCB LED Testing
- Automotive Dashboard LEDs
- Switches with LED Backlighting
- Indicating LEDs
- Automotive LEDs and Brake Lights
- Mobile Appliances and Cellphones
- Traffic Signals
- Industrial and Medical
- Backlighting and Projection
- LCDs and TFT Displays

Features:

- Test up to 495 LEDs simultaneously
- Test Standard, High and Low Brightness LEDs
- Test 7 segment displays
- Functional and Incircuit Test
- Uses flexible plastic optic fibers for ease of installation
- Low intensity testing

Benefits:

- Fast and accurate LED Colour and Intensity Measurement
- Simple setup and easy to use
- Low cost
- No operator intervention required

Additional Information:

- Easy to program
- Free software included
- Full Technical support provided
- Excellent Repeatability

5.3 Measuring Colour using Hue

At GPS we use Hue to describe colour. This is a useful quantity, because colour can be represented by a single number in the Hue system instead of three values in RGB system.

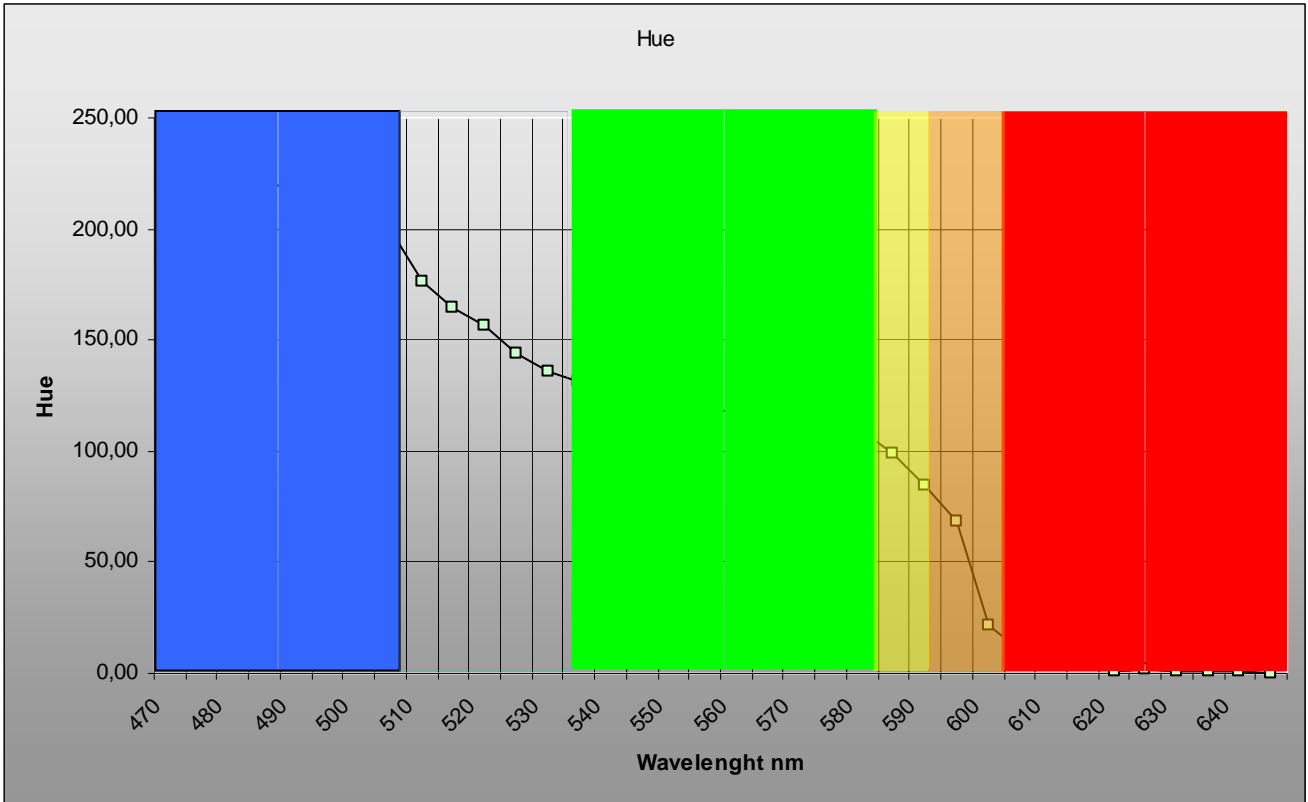


Figure 3

The colour spectrum can be described by a colour wheel. This is a system where the three primary colours (Red, Green and Blue) are represented by 0 degrees, 120 degrees and 240 degrees respectively.

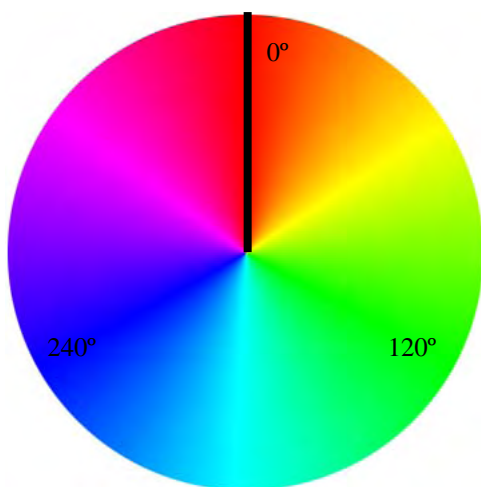


Figure 4

All colours can be created by adding together different quantities of the three colours. For example yellow, is a mixture of green and red. Cyan is a mixture of blue and green. White is regarded as equal amounts of each colour (not shown in this diagram).

As we can see in the diagram it is not clear exactly where one colour ends and another begins. In this situation it is up to the observer to determine the colour. In the case of the green region, green can lie anywhere within 100° to 140°. In the case of the blue region blue can lie anywhere within 220° to 260°. Red is slightly different because of the Hue system.

Red can lie between 0° and 10° or 355° and 360°. In the circular system 0 and 360 are the same

5.4 Fixture building guidelines

Introduction

Construction of the fixture is one of the most critical aspects of a successful implementation of the GPS Led Analyser. If this step is implemented properly the resulting tests will be more stable and repeatable with low risk of false failures.

Plastic Fiber

Understanding the fiber used in the GPS Led Analyser is critical. The fiber used is 1mm outside diameter with a 0.5mm core.

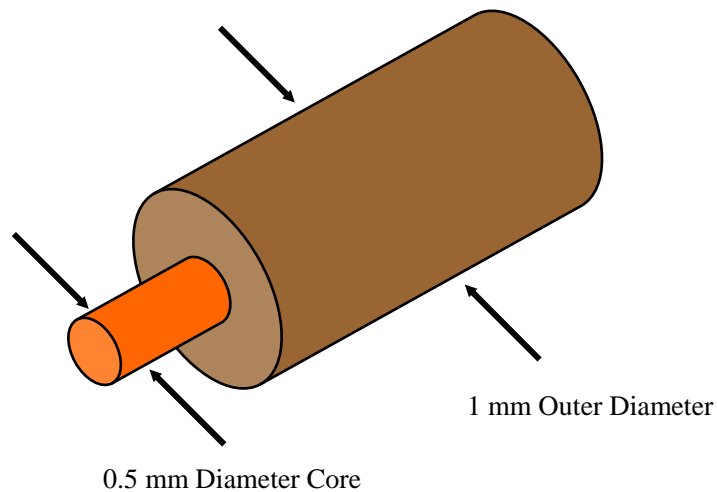


Figure 5

Some important characteristics of the fiber are as follows

- Minimum bend radius 15mm
- Operating temperature range of fiber -55 to +70 degrees celcius
- Numerical aperture 0.5
- Included light collection angle of 60 degrees

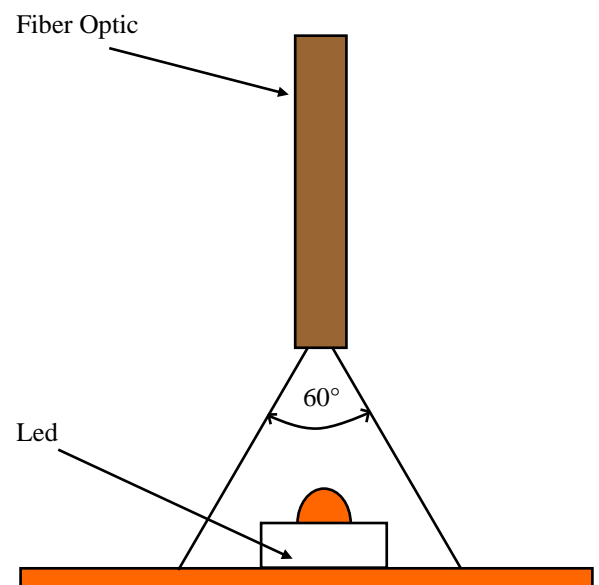


Figure 6

Optical Measurement using Fiber optic Cable

There are some important considerations when using a fiber optic cable to test the light intensity of an LED. The most important of these is the relative position of the fiber with respect to the LED and the gap between the fiber and the LED. To a lesser degree the angle between the fiber and the LED can also have an influence on the test results.

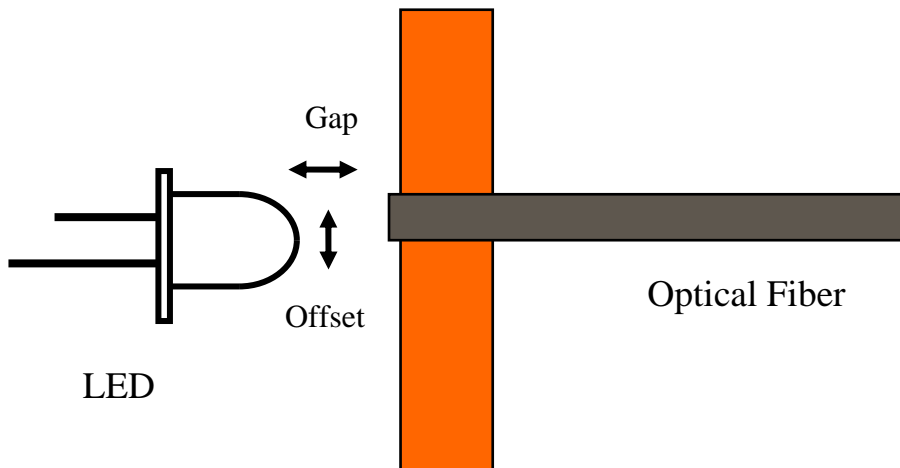


Figure 7

The following is a plot of Intensity Vs Gap. This is called an inverse square relationship so if the gap is doubled the intensity reduces to $\frac{1}{4}$ of the original intensity. From this it can be seen that if the gap is very narrow then a small increase or decrease in gap will cause a very big change in measured intensity. We would recommend that the minimum gap is at least 2mm and preferably 4 to 5mm.

Effect of Gap on the Intensity Measured by Fiber

Relative Intensity vs Distance

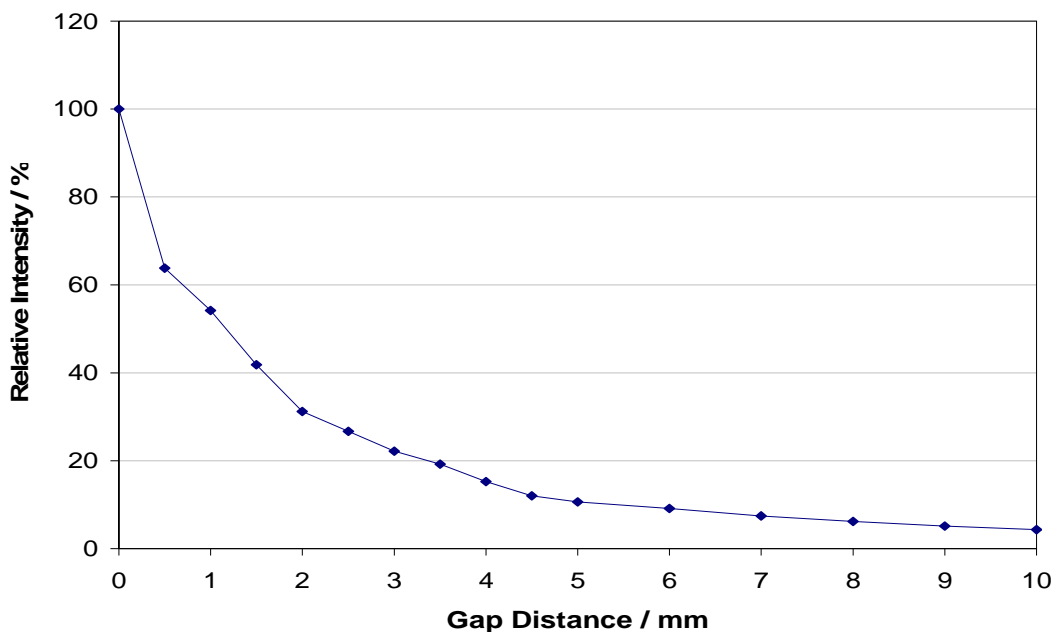


Figure 8

The following is a graph of Intensity Vs offset. This graph was generated using a surface mounted Led which has a bright centre point and a bright circle of light around the centre point. As can be seen from the graph when the gap is 1mm and the offset is changed from -2mm to +2mm the intensity shows a very rapid change. The three peaks are a profile of the led intensity as the fiber passes the bright circle and the centre bright spot. As the gap increases the rate of change becomes much less but the maximum intensity is also decreased considerably. This decrease in intensity can be compensated for by using the SK command through the serial port.

**Variation of Intensity as Function of Gap & Offset
(1 mm Fiber)**

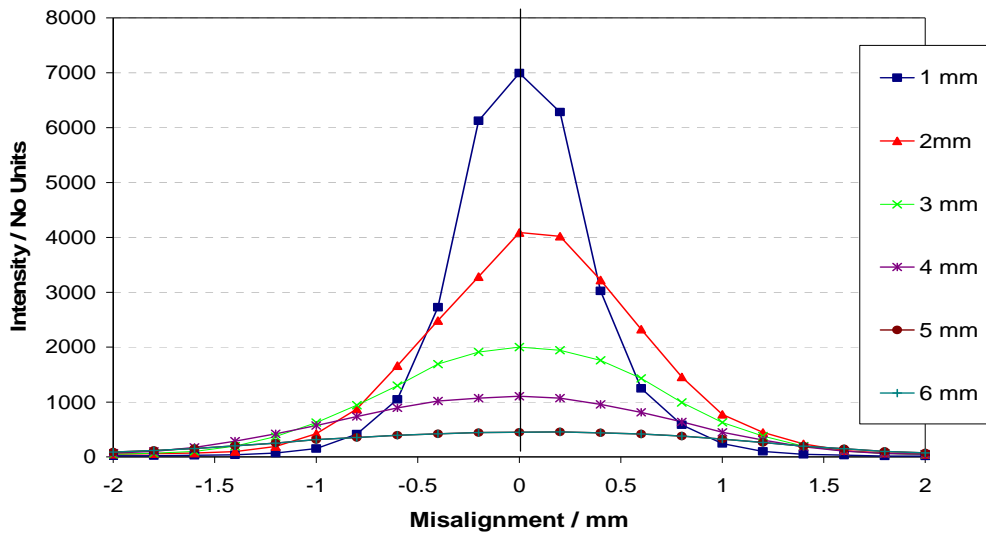


Figure 9

Mounting the Fiber

The recommended method of mounting the fiber is using the supplied 1mm ID, 75 thou receptacle (socket). This is ideal as any fixture house will be familiar with mounting these receptacles in a test fixture. Another advantage of the receptacle is the internal indentation which is very effective at holding the fiber in position during the debug process. When debug is complete the fiber can be held in position using a small dot of silicon adhesive



Figure 10

Attachment for thin fiber:

Additional to the 75mil receptacle (socket) you can also use the Attachment E39-F9.

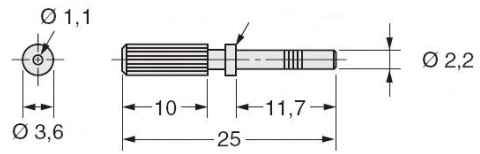
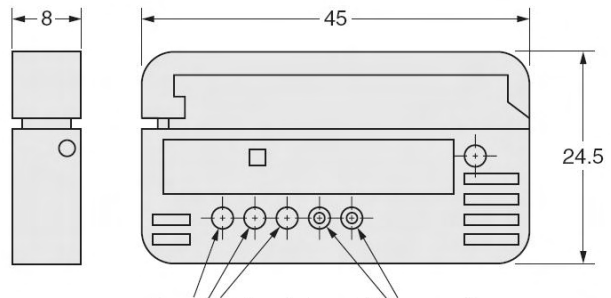
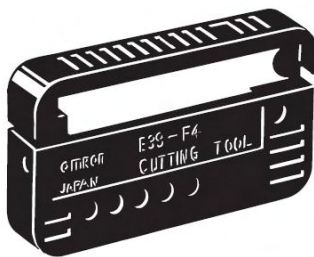


Figure 11

Cutting the Fiber

The fiber can be shortened with a fiber cutter to the correct length. In order to guarantee a clean cut of the fiber, it is recommended to use each cutting hole only once.

Fiber Cutter
E39-F4



Standard fiber insertion hole

Thin fiber insertion hole

Figure 12

5.5 Digital LED Colour Analyzer



Figure 17

The GPS Digital Colour Analyzer allows fast and automatic testing the Colour and Brightness (Intensity) of Light Emitting Devices (LEDs). Tests the full spectrum of visible LEDs from very dim to the brightest on the market. The new digital colour sensor allows unrivalled repeatability for colour and intensity testing.

The LED Analyzer is used in the following applications:

- PCB LED Testing
- Automotive Dashboard / Brake Lights, Daytime running lights / Interior
- Switches with LED Backlighting
- Mobile Applications - Cell Phones, Backlighting
- Industrial and Medical Instruments
- Signaling
- Architectural Lighting

Key Features:

- Designed for any Test Platforms
- Tests the full spectrum of visible LEDs
- Tests Intensity from very dim to the brightest LEDs
- Unrivalled repeatability for colour and intensity readings
- Available with 2 to 5 channels
- Allow up to 495 LEDs to test simultaneously
- Ease of Use – Instant on
- Excellent Technical Support
- Free Drivers and Software
- Designed for Testing Colour and White LEDs
- Tests Bicolor and Tricolor LEDs
- RS 232 and USB Interface
- Robust and reliable design
- Uses flexible plastic Optical Fibres for ease of installation

5.6 Spezifikation of the Digital LED Colour Analyzer

Physical:

Board Dimensions	70x65x35mm (W x L x H)
Fiber Length	600mm
Fiber Diameter	1,00mm
Number of Fibers	2 to 5
Min. bend radius of Fiber	15mm
Operating Temperature Range	0C° to +50C°

Electrical:

Supply Voltage	5,0 V
Supply Current	80 mA
Interface	RS232 (Serial) USB Interface

Optical:

Red Wavelength	615 nm
Green Wavelength	540 nm
Blue Wavelength	465 nm
Wavelength Range	450 nm to 650 nm

Accuracy:

White	$x = \pm 0,0015, y = \pm 0,0015$
Red (615nm)	± 3 nm
Green (540nm)	± 4 nm
Blue (465nm)	± 3 nm

Test Results:

RGB	Colours in %, Intensity
HIS	HUE, Saturation, Intensity
CIE 1931 2°- degree XY- Value	



II. Probes and Sockets

[1. General](#)

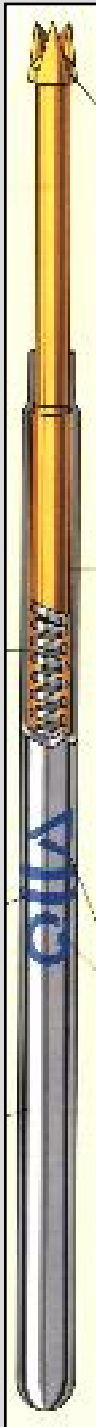
[2. QA Catalog](#)

[3. QA integratMate® Contacts](#)

[4. QA integratMate® D-Series](#)

Probes, Sockets and Accessories

General Information



Probes are one of the most important parts of a fixture. A perfect probing depends aside from the pointing accuracy of the probes decisively on the quality of the probes. Therefore GPS uses only QA probes and distributes those exclusively in the German-speaking countries and also in the European area.

The three parts of probes are:

- the plunger with the contact tip,
- the spring which ensures the needed contact pressure,
- the tube which carries the spring and in which the plunger moves.

Decisive for the lifetime of the probe is a durable gold plating to guarantee a low probe resistance to the UUT and to the socket. The same goes for the sockets, which are wired to the interface. The probe springs are made of a long-lived spring steel to prevent an early fatigue.

Another criterion of quality are the production tolerances of the probes and the sockets. The lower these tolerances are in comparison with the diameters of the probes the lower the scatter pattern diameter is (i.e. the radial deviation of a probe tip from the true centerline of the probe mounting hole). The scatter pattern diameter can be limited easier at probes with a larger diameter than with a smaller one - even through highly precise production. Therefore we recommend to use 1/10" center probes wherever possible. This recommendation should always be taken into consideration by designing the board in order to reduce the fixturing costs.

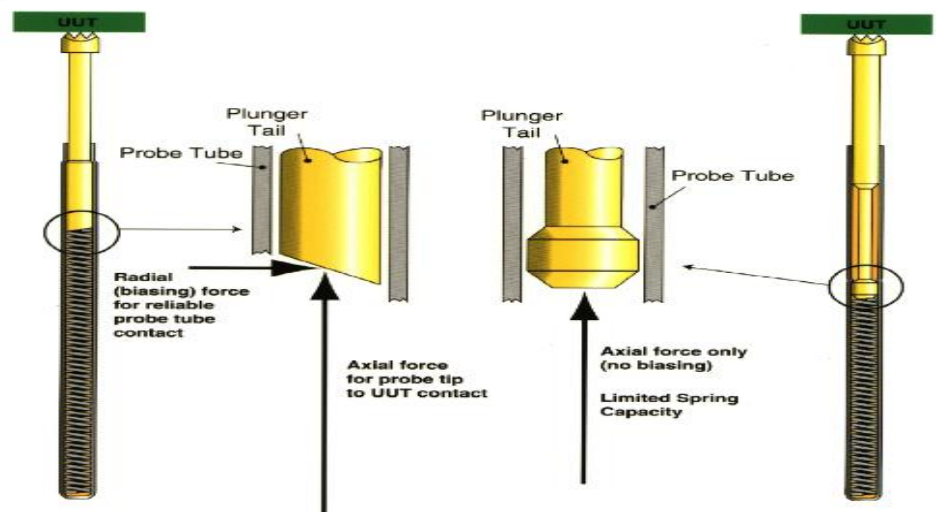
Probes, Sockets and Accessories

Design

Design of the patented probes

QA's PR Design stands out for the following essential qualities:

1. The first is a probe tube and plunger design that reduces radial plunger play at the probe tube opening. The clearance between the tube and the plunger has been reduced by forming the tube around the plunger itself. This feature reduces play from side to side and significantly improves pointing accuracy.
2. These probes also feature a patented biasing system for the tail end of the plunger. Biasing is the name given to the intentional loading of the plunger against the inside surface of the probe tube. An angled surface machined on the plunger tail mates with the spring and allows it to exert a small radial force on the tube. This biasing force causes a well-defined wiping action between the plunger and the inner surface of the probe tube to provide improved electrical contact.
3. Another unique design and performance advantage of this probe design is the increased spring space in the tube. Through this design, our probes offer higher spring forces than any competitive probe of the same overall size.



Probes, Sockets and Accessories

Product Information and Material

Product informations:

In the following there is a short summary of the QA-Products and the price list which goes with it.

The indication for each serie is made by the centers and the stroke. The 100-25 serie, for example, is for a 100 mil (2,54 mm) center to center and has a stroke of 0,25" (6,35 mm). The key for the specific items is shown on the next page.

Materials:

Two popular materials are available in most of the series: gold plated (G) and special gold plated (P) pins. The difference lies in the time of the gold plating. Normal gold can be applied to the probe only after the drawing process, because it would exfoliate during the drawing process. Compared with that the special gold plating (P) can be applied before the drawing process because it is not as brittle. Therefore the electrical resistance of these probes is lower than of normal gold plated ones. The following table shows the electrical resistences of 500 and 1.000.000 probings.

	500 Probings	1.000.000 Probings
SERIE	max. mOhm / min. mOhm	max. mOhm / min. mOhm
PRG	21 / 15	39 / 15
PRP	17 / 10	36 / 12

Angaben von QA-Technology

Probes, Sockets and Accessories




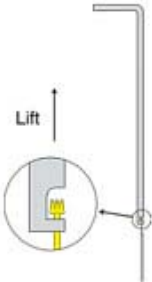

<p>Specification:</p> <p>Adjustable tool with a built-in micrometer in inches and millimeter for 50, 75 and 100 mil pins</p> <p>Order no.: AT-xxxM KIT (e.g. AT100M Kit for 100 mil)</p>	
<p>Specification:</p> <p>Insertion tool, for 25, 39, 50, 75 and 100 mil probes with pre-set heights (from flat to 7,0 mm)</p> <p>Orderno.: Itxxx SETxxx (e.g. IT75 SET 3,20mm)</p>	
<p>Specification:</p> <p>Socket extraction tool for 39 - 125 mil sockets</p> <p>Orderno.: ETxxx (e.g. ET39)</p>	
<p>Specification:</p> <p>Probe extraction tool for 75 and 100 mil probes</p> <p>Orderno.: PExxx (e.g. PT75)</p>	
<p>Specification:</p> <p>Probe installation tool for probes from 39-100 mil</p> <p>Orderno.: PTxxx (e.g. PT100)</p>	



Table of contents:

III. Fixtures

1. [Aeroflex \(IFR\)](#)
2. [Agilent](#)
3. [Digitaltest](#)
4. [Rohde & Schwarz](#)
5. [Scorpion](#)
6. [Spea](#)
7. [Teradyne \(GenRad\)](#)
8. [Teradyne](#)
9. [Changeable fixture](#)
10. [Turn table unit](#)

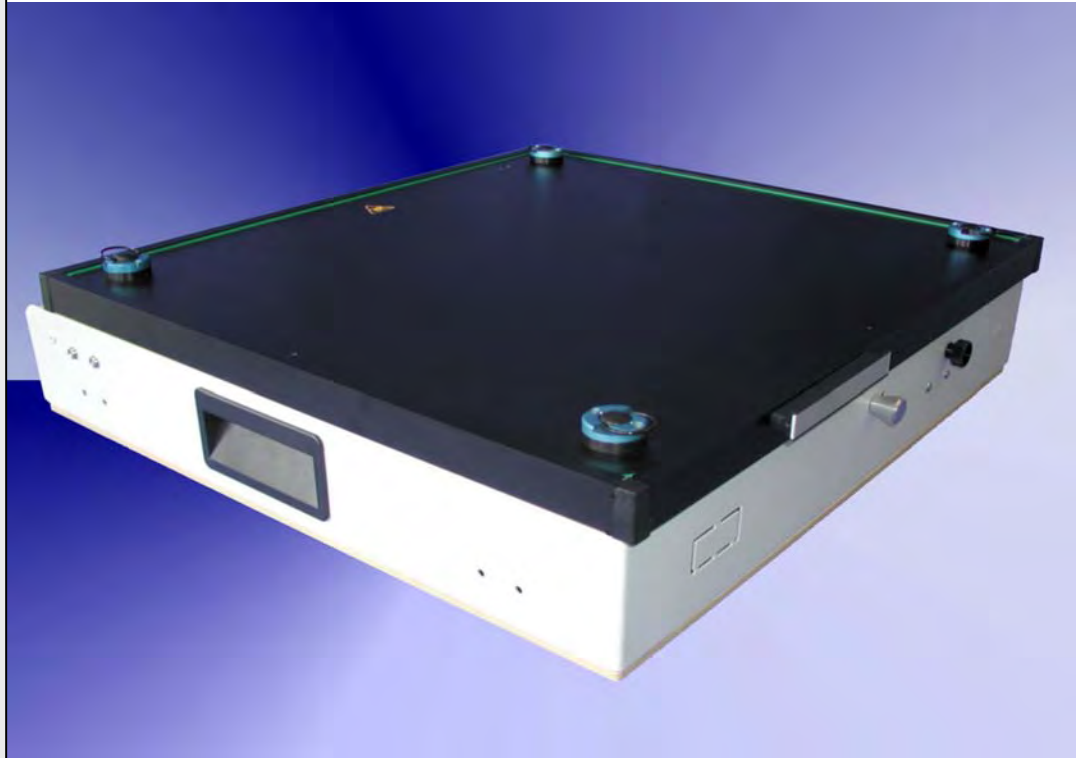


1. Aeroflex (IFR)

[1. Test System 4200](#)

[2. Test System 5300](#)

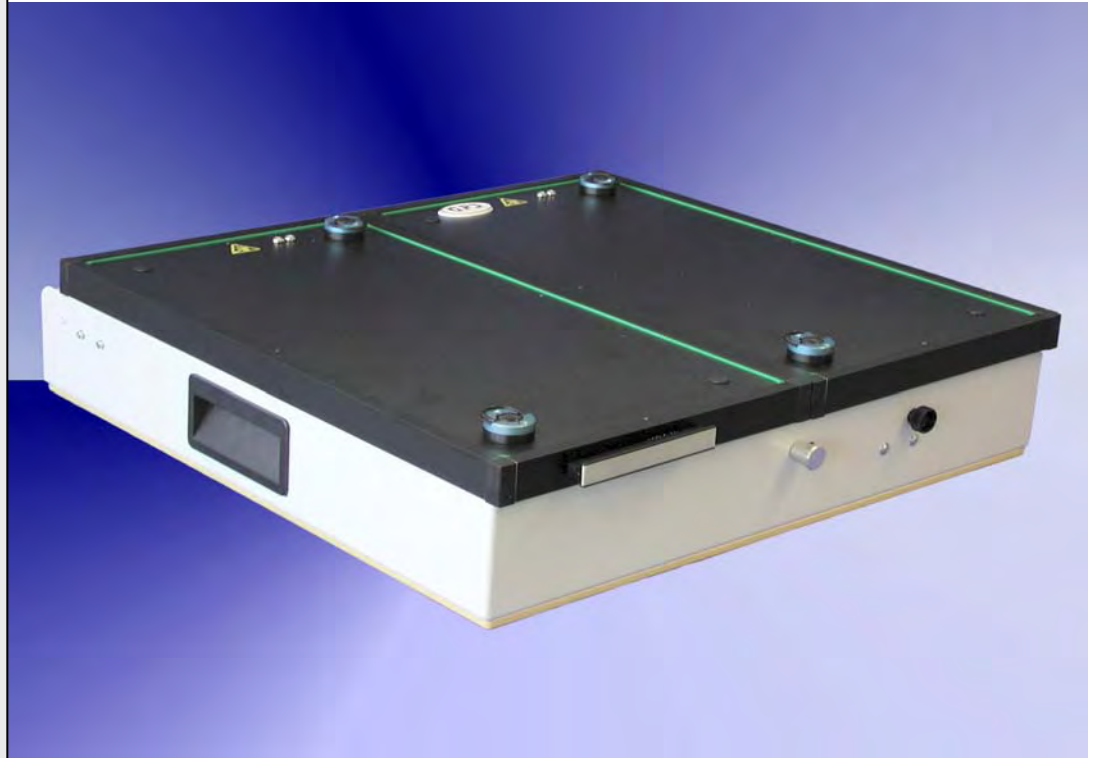
MD-42-1100



Fixture specification

- Outside dimensions : 510 x 520 x 130 mm
- Max. working area : 430 x 390 mm
- Stable quality through the case and the aluminium frame
- PAG - plug and guide system
- Moving plate made of ESD plate material
- Probe plate made of epoxy material (10 mm)
- GPS ESD sealing of vacuum chamber
- Rounded edges (for a better intake)
- Protecting errector standard
- Case can be opened during the debugging
- Outpouring intended for the use of a counter
- ESD leakage probes standard
- Moving plate 8 mm (optional)
- Interface without insertion
- Short delivery time


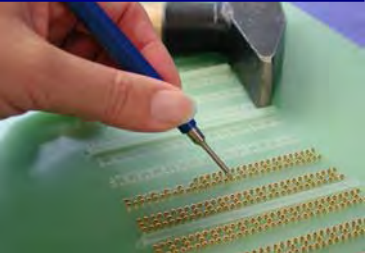
MD-42-2100



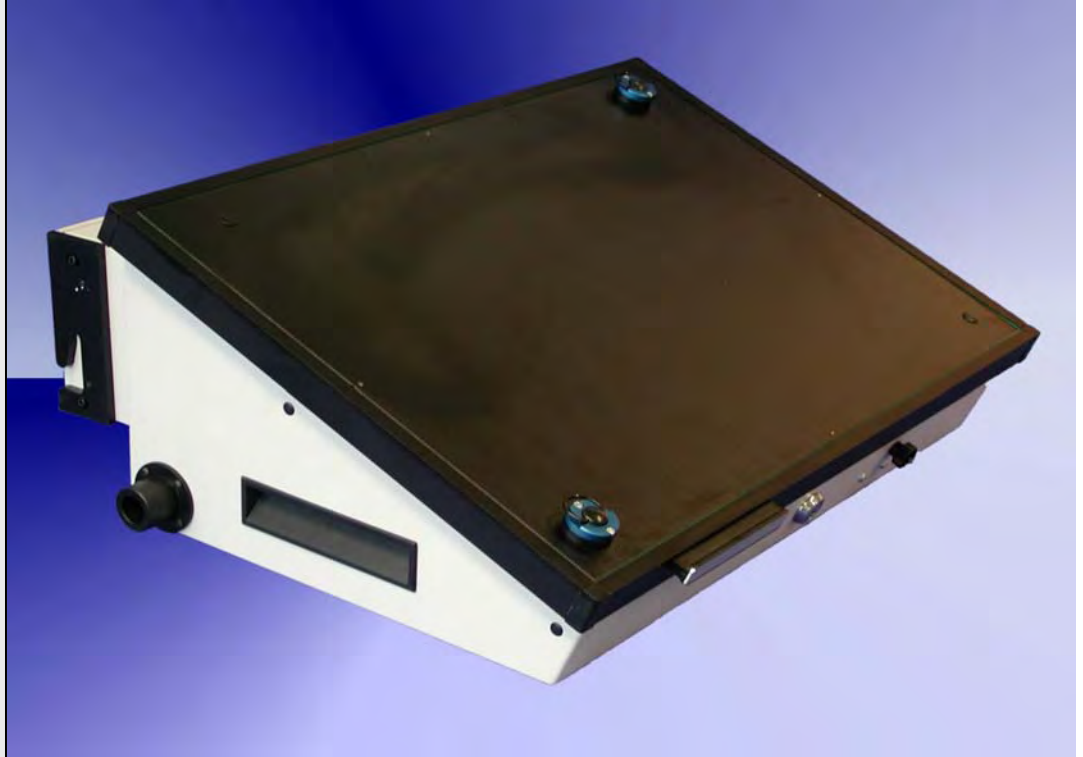
Fixture specification

- Outside dimensions : 510 x 520 x 130 mm
- Max. working area : 2 x (170 x 390) mm
- Stable quality through the case and the aluminium frame
- PAG - plug and guide system
- Moving plate made of ESD plate material
- Probe plate made of epoxy material (10 mm)
- GPS ESD sealing of vacuum chamber
- Rounded edges (for a better intake)
- Protecting errector standard
- Case can be opened during the debugging
- Outpouring intended for the use of a counter
- ESD leakage probes standard
- Moving plate 8 mm (optional)
- Interface without insertion
- Short delivery time

Accessories for MD-42-1100

<p>Specification: Interface pin flat</p>		<p>Specification: Insertion of additional interface pins each additional pin</p>	
<p>Order number:</p>	<p>SIP-90-2</p>	<p>Order number:</p>	<p>VER-26</p>


MD-53-1100



Fixture specification

- Outside dimensions: 590 x 490 x 145 mm
- Max. working area : 436 x 282 mm
- Cant for easy handling
- Stable quality through the case and the aluminium frame
- PAG - plug and guide system
- Moving plate made of ESD plate material
- Probe plate made of epoxy material (10mm)
- GPS ESD sealing of vacuum chamber
- Protecting errector standard
- Case can be opened during the debugging
- ESD leakage probes standard
- Moving plate 8 mm (optional)
- Short delivery time

Accessories for MD-53-1100

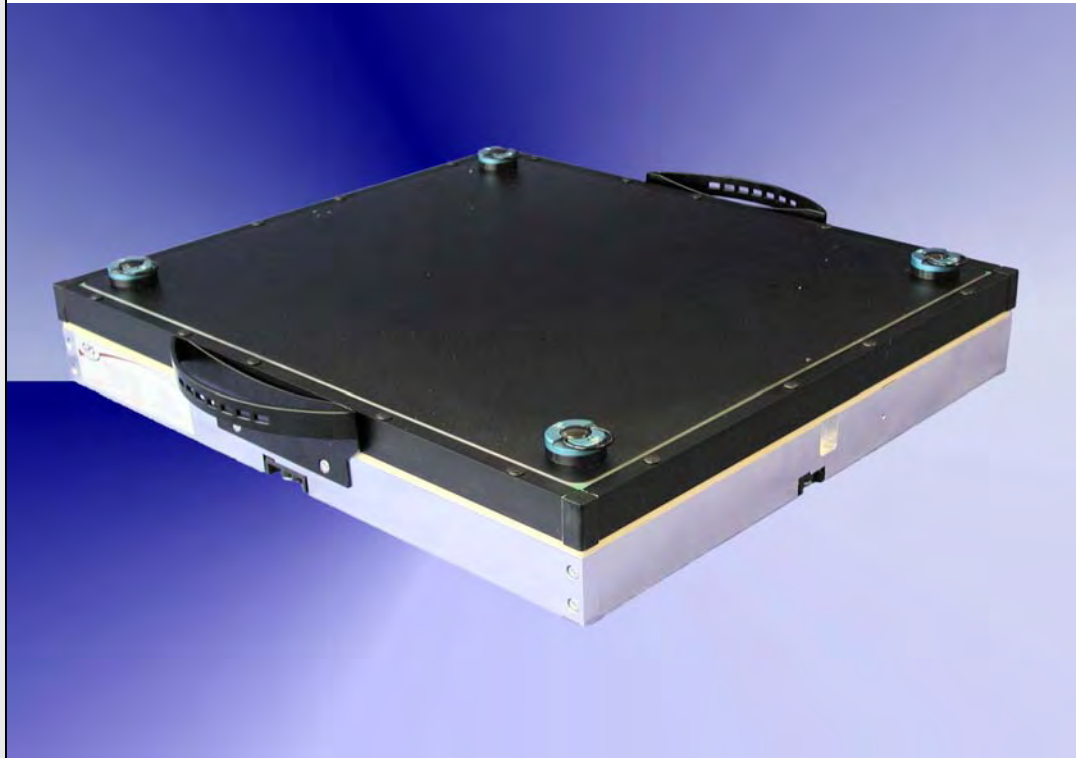
<p>Specification: Connectors, 96 pole</p>			
<p>Order number:</p>	<p>FL-C-96-WW-13-GERADE</p>		

2. Agilent

1. [Agilent Fixture small](#)
2. [Agilent Fixture large](#)
3. [Agilent Fixture X-Probe](#)
4. [Agilent Accessories](#)

HP-70-11GP

HP-70-11CP

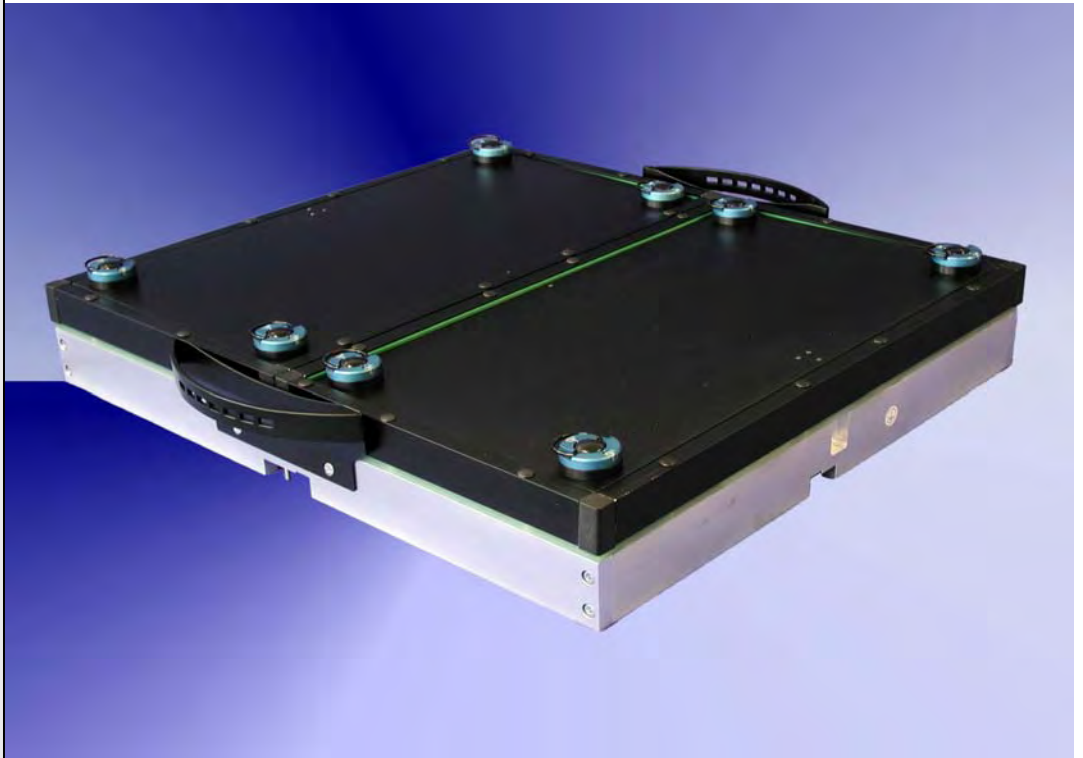


Fixture specification

- Outside dimensions : 480 x 460 x 85 mm
- Max. working area : 354 x 299 mm
- Original Agilent interface plate
- Stable quality through the aluminium frame
- PAG - plug and guide system
- Moving plate made of ESD plate material
- Probe plate made of G10 material (15mm) - GP quality
- Probe plate made of epoxy material (15 mm) - CP quality
- GPS ESD sealing of vacuum chamber
- Rounded edges (for a better intake)
- ESD leakage probes standard
- Screen printing on the surface and on the underside of the probe plate
- Ergonomically designed grips
- Extensive offer of Test Jet components
- Vacuum plate 8 mm (optional)
- Short delivery time

[return to table of contents](#)

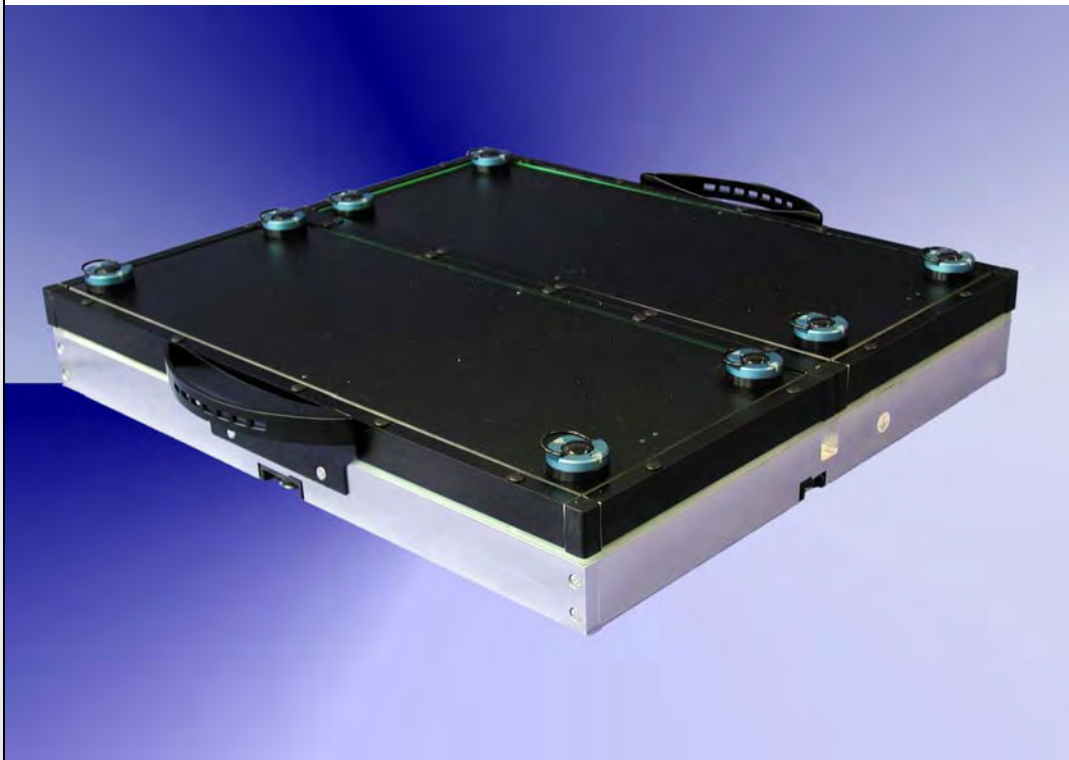
HP-70-21GP



- Outside dimensions : 480 x 460 x 85 mm
- Max. working area : 2x (165 x 340) mm
- Original Agilent interface plate
- Stable quality through the the aluminium frame
- PAG - plug and guide system
- Moving plate made of ESD plate material
- Probe plate made of G10 material (15mm) - GP quality
- GPS ESD sealing of vacuum chamber
- Rounded edges (for a better intake)
- ESD leakage probes standard
- Screen printing on the surface and the underside of the probe plate
- Ergonomically designed grips
- Extensive offer of Test Jet components
- Vacuum plate 8 mm (optional)
- Short delivery time

[return to table of contents](#)

HP-70-22GP

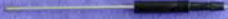



Fixture specification

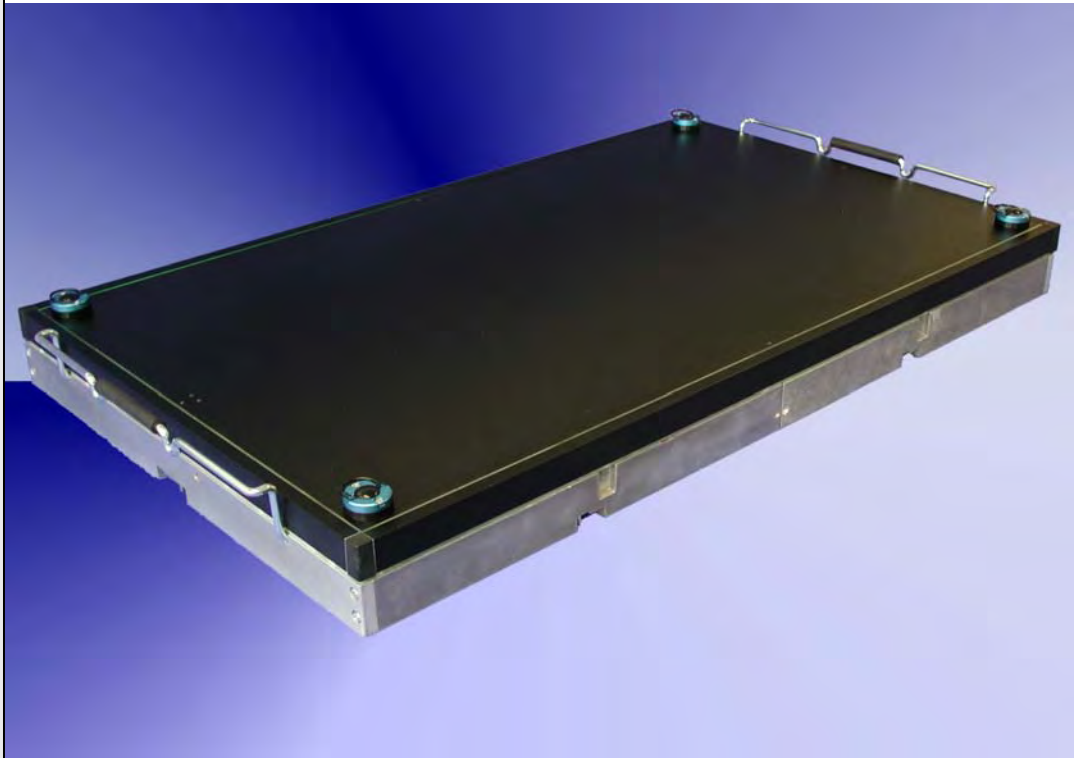
- Outside dimensions : 480 x 460 x 85 mm
- Max. working area : 2x (150 x 380) mm
- Original Agilent interface plate
- Stable quality through the aluminium frame
- PAG - plug and guide system
- Moving plate made of ESD plate material
- Probe plate made of G10 material (15mm) - GP quality
- GPS ESD sealing of vacuum chamber
- Rounded edges (for a better intake)
- ESD leakage probes standard
- Screen printing on the surface and on the underside of the probe plate
- Ergonomically designed grips
- Extensive offer of Test Jet components
- Vacuum plate 8 mm (optional)
- Short delivery time

[return to table of contents](#)

Accessories for HP-70-21GP

Specification: Personality pin		Specification: Loading of personality pin	
Order number:	HP-44-275	Order number:	VER-24
			<p style="text-align: right;">return to table of contents</p>

HP-70-3100

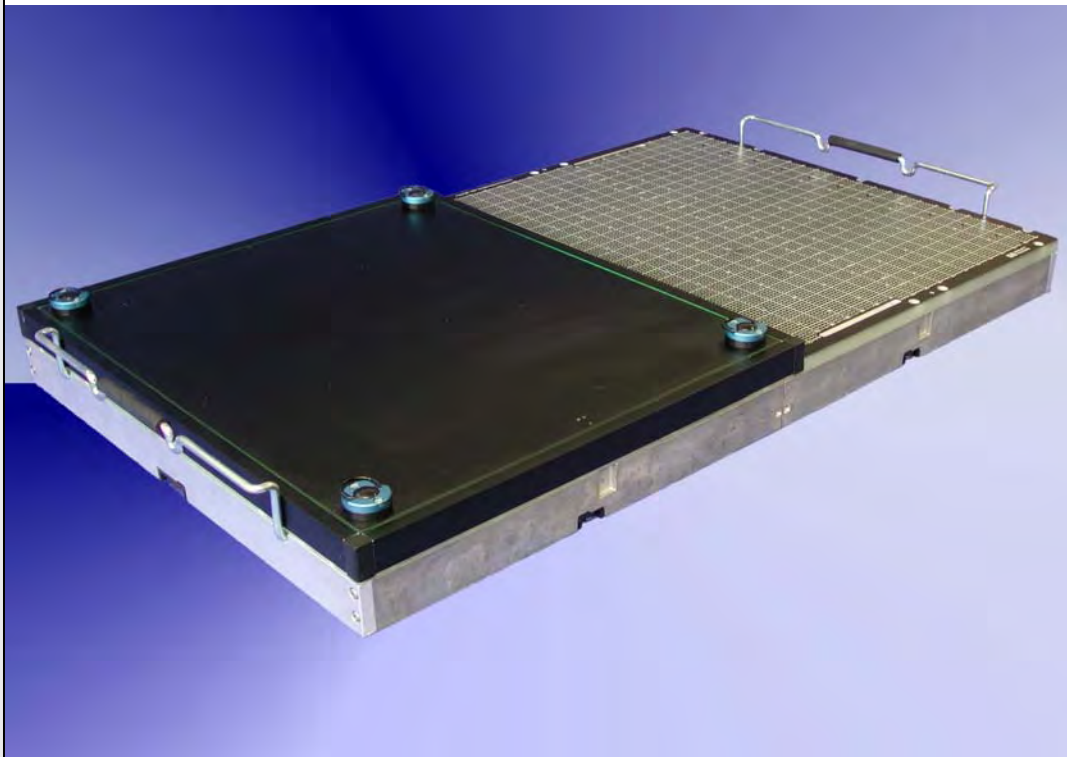


Fixture specification

- Outside dimensios : 800 x 460 x 85 mm
- Max. working area : 700 x 380 mm
- Original Agilent interface plate
- Stable quality through the the aluminium frame
- PAG - plug and guide system
- Moving plate made of ESD plate material
- Probe plate made of G10 material (15mm) - GP quality
- GPS ESD sealing of vacuum chamber
- ESD leakage probes standard
- Screen printing on the surface and on the underside of the probe plate
- Handles with rubber tread
- Extensive offer of Test Jet components
- Vacuum plate 8 mm (optional)

[return to table of contents](#)

HP-70-3200

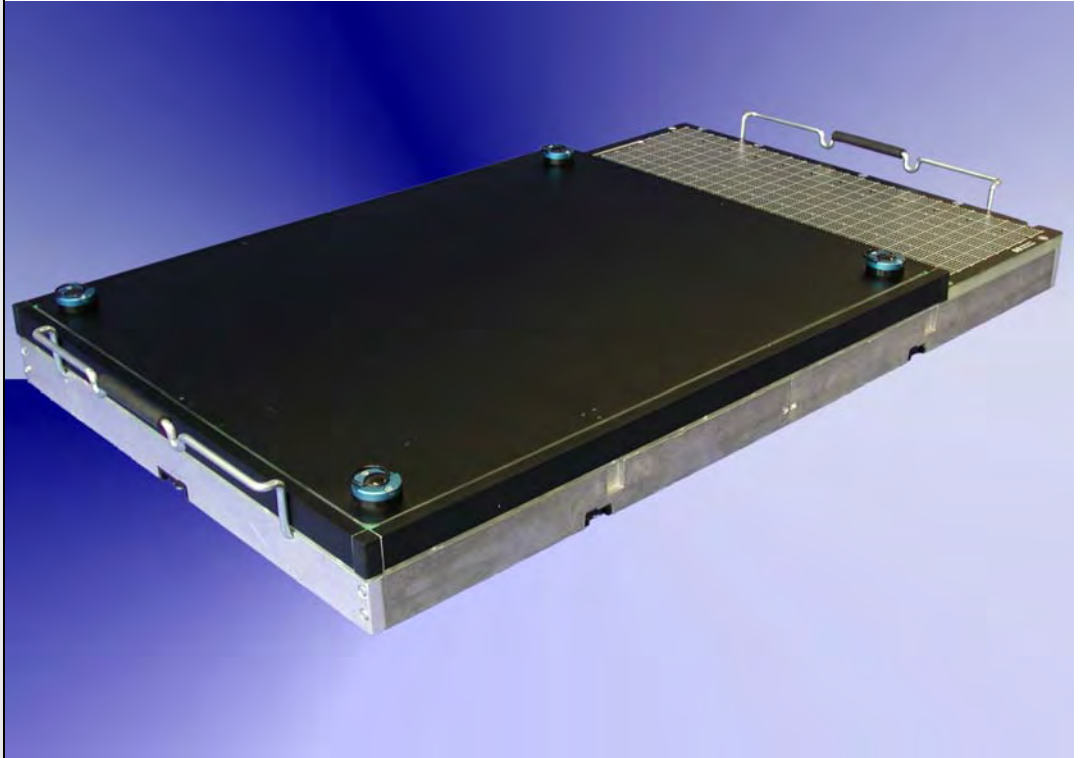


Fixture specification

- Outside dimensions : 800 x 460 x 85 mm
- Max. working area : 340 x 380 mm
- Original Agilent interface plate
- Stable quality through the aluminium frame
- PAG - plug and guide system
- Moving plate made of ESD plate material
- Probe plate made of G10 material (15mm) - GP quality
- GPS ESD sealing of vacuum chamber
- ESD leakage probes standard
- Screen printing on the surface and the underside of the probe plate
- Handles with rubber tread
- Extensive offer of Test Jet components
- Vacuum plate 8 mm (optional)
- Also available as large dual well (HP-70-4100)

[return to table of contents](#)

HP-70-3300



Fixture specification

- Outside dimensions : 800 x 460 x 85 mm
- Max. working area : 475 x 350 mm
- Original Agilent interface plate
- Stable quality through the aluminium frame
- PAG - plug and guide system
- Moving plate made of ESD plate material
- Probe plate made of G10 (15mm) - GP quality
- GPS ESD sealing of vacuum chamber
- ESD leakage probes standard
- Screen printing on the surface and on the underside of the probe plate
- Handles with rubber tread
- Extensive offer of Test Jet components
- Vacuum plate 8 mm (optional)

[return to table of contents](#)

HP-70-11XGP

HP-70-11XCP

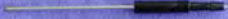



Fixture specification

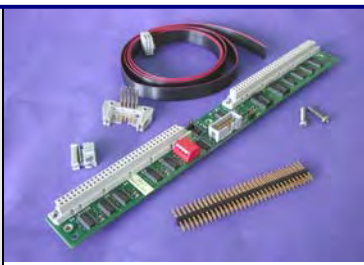
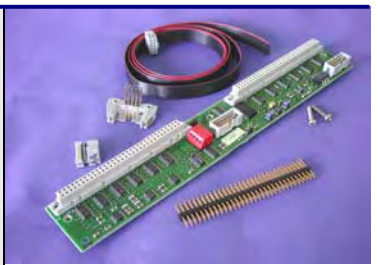
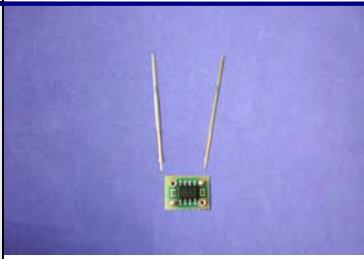

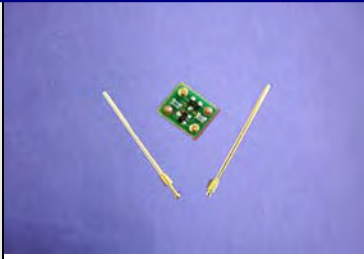
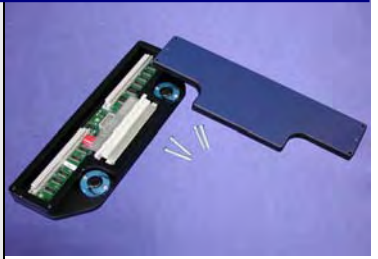

- Outside dimensions : 480 x 460 x 100 mm
- Max. working area : 354 x 299 mm
- Original Agilent interface plate
- Stable quality through the aluminium frame
- PAG - plug and guide system
- Moving plate made of ESD plate material
- Probe plate made of G10 material (15mm) - GP quality
- Probe plate made of epoxy material (15 mm) - CP quality
- GPS ESD sealing of vacuum chamber
- Rounded edges (for a better intake)
- ESD leakage probes standard
- Screen printing on the surface and on the underside of the probe plate
- Ergonomically designed grips
- Extensive offer of Test Jet components
- Vacuum plate 8 mm (optional)
- **X-Probe Socketless Technology**

[return to table of contents](#)








Accessories for HP-70-11XGP/XCP

Specification: Personality pin		Specification: Loading of personality pin	
Order number:	HP-44-275	Order number:	VER-24
			<p style="text-align: right;">return to table of contents</p>

TJ-MB to TJ-KIT

<p>Specification: Multiplex-Board (MUX-Board), connector and cable incl.</p> <p>Order number:</p>	 <p>TJ-MB</p>	<p>Specification: Multiplex-Board for C-Test, connector and cable incl.</p> <p>Order number:</p>	 <p>TJ-MB-C</p>
<p>Specification: Sensor electronic, probes incl.</p> <p>Order number:</p>	 <p>TJ-BB</p>	<p>Specification: Sensor electronic for C-Test, probes and sockets incl.</p> <p>Order number:</p>	 <p>TJ-BB-C</p>
<p>Specification: Sensor electronic, special spring probes incl.</p> <p>Order number:</p>	 <p>TJ-KIT</p>	<p>Specification: Opens-Change-Box Box with connector and PAG- arrester bolts, without TJ-MB and wiring</p> <p>Order number:</p>	 <p>OWB-TJ</p>
<p>Specification: Opens-Change-Box Box with connector and PAG- arrester bolts, without TJ-MB-C and wiring</p> <p>Order number:</p>	 <p>OWB-TJ-C</p>		<p>return to table of contents</p>

TJ-SP-SO 14/16 to TJ-SP-CG

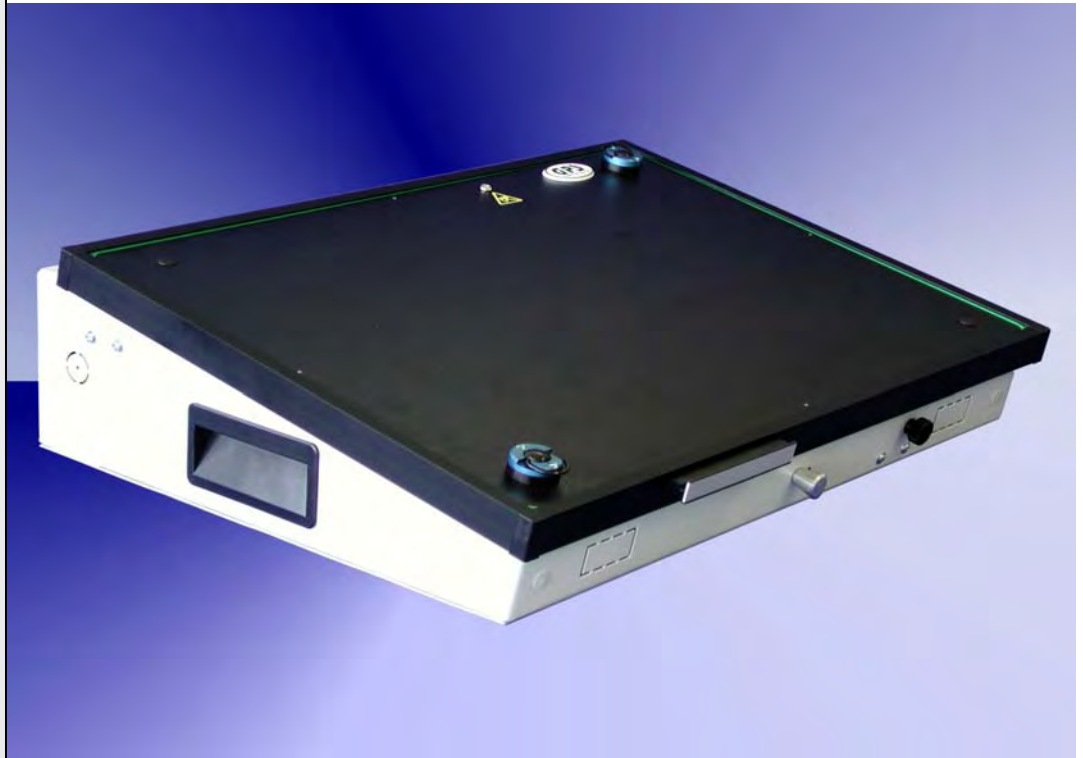
<p>Specification: TestJet sensor plate matching with SO14/16-box Dimension: 11,0 x 9,5 mm</p> <p>Order number:</p>	 <p>TJ-SP-SO 14/16</p>	<p>Specification: TestJet sensor plate matching with SO20-box Dimension: 14,0 x 10,5 mm</p> <p>Order number:</p>	 <p>TJ-SO20</p>
<p>Specification: TestJet sensor plate Dimension: 30,5 x 30,5 mm</p> <p>Order number:</p>	 <p>TJ-SP-1.2</p>	<p>Specification: TestJet sensor plate Dimension: 63,5 x 63,5 mm</p> <p>Order number:</p>	 <p>TJ-SP-2.5</p>
<p>Specification: TestJet sensor plate for connectors Dimension: 155,0 x 12,0 mm</p> <p>Order number:</p>	 <p>TJ-SP-Conn</p>	<p>Specification: TestJet sensor plate large, for C-Test Dimension: 7,7 x 5,0 mm</p> <p>Order number:</p>	 <p>TJ-SP-CG</p>
<p>Specification: TestJet sensor plate small, for C-Test Dimension: 6,3 x 3,7 mm</p> <p>Order number:</p>	 <p>TJ-SP-CK</p>		<p>return to table of contents</p>



3. Digitaltest

1. [Digitaltest Test System MTS 60](#)
2. [Digitaltest Test System MTS 100](#)
3. [Digitaltest Test System MTS 200](#)
4. [Digitaltest Test System MTS 300](#)

DT-60-1100




Fixture specification

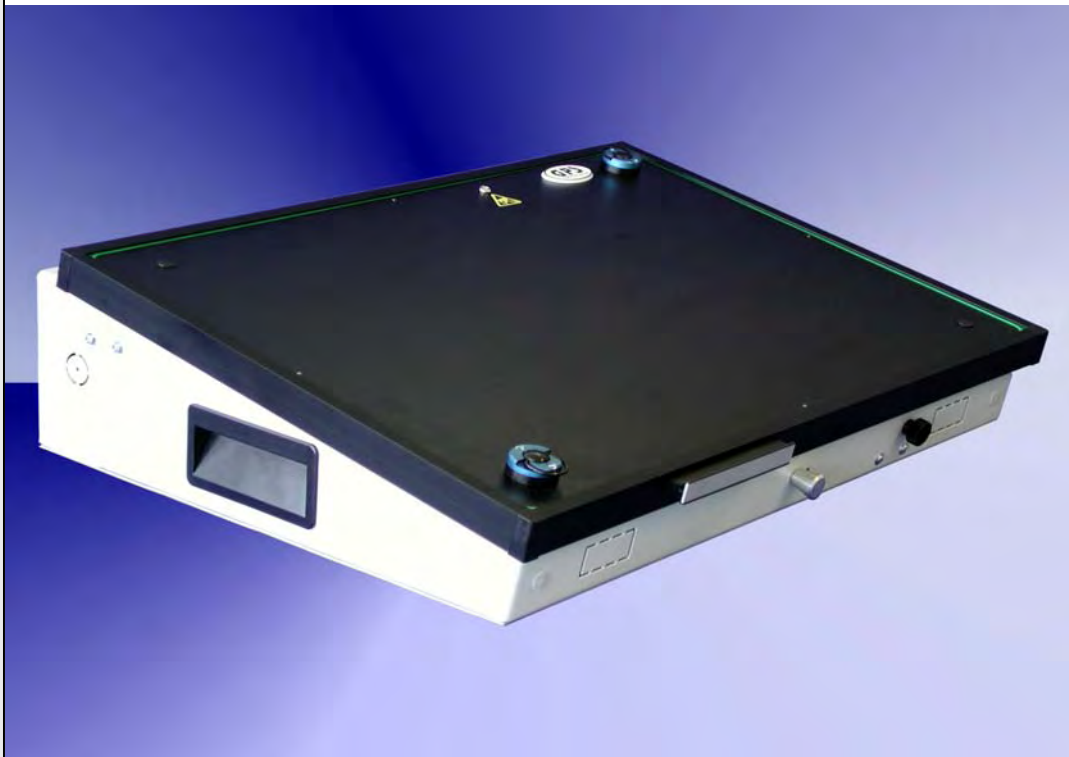
- Outside dimensions : 530 x 390 x 145 mm
- Max. working area : 450 x 320 mm
- Cant for easy handling
- Stable quality through the case and the aluminium frame
- PAG - plug and guide system
- Moving plate made of ESD plate material
- Probe plate made of G10 material (10mm)
- GPS ESD sealing of vacuum chamber
- Rounded sealing edges (for a better intake)
- Protecting erectors standard
- Case can be opened during the debugging
- Outpourings intended for the use of a counter
- ESD leakage pins standard
- Moving plate 8 mm (optional)
- Interface without pins
- Short delivery time

[return to table of contents](#)

Accessories for DT-60-1100

<p>Specification: Connector 64 pole (a+c)</p> <p>Order number:</p>	 <p>FL-C-64-WW-17</p>		
			<p style="text-align: right;">return to table of contents</p>

DT-100-1100




Fixture specification

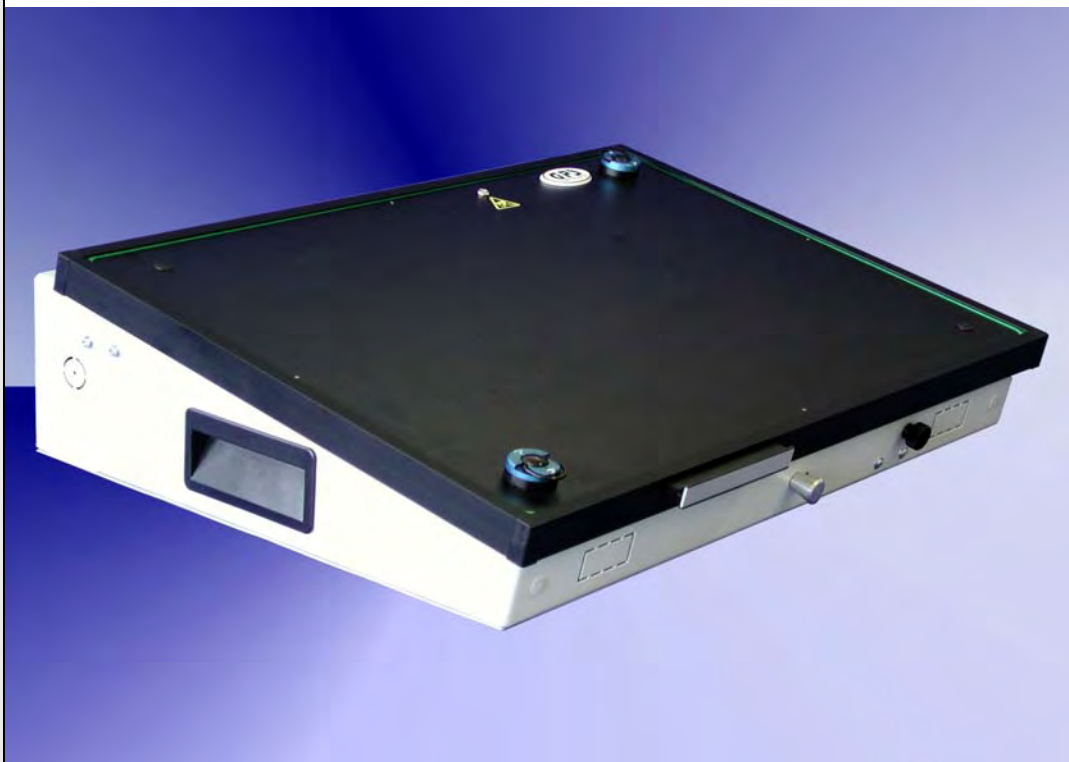
- Outside dimensions : 530 x 390 x 145 mm
- Max. working area : 450 x 320 mm
- Cant for easy handling
- Stable quality through the case and the aluminium frame
- PAG - plug and guide system
- Moving plate made of ESD plate material
- Probe plate made of G10 material (10 mm)
- GPS ESD sealing of vacuum chamber
- Rounded sealing edges (for a better intake)
- Protecting errector standard
- Case can be opened during the debugging
- Outpourings intended for the use of a counter
- ESD leakage pins standard
- Moving plate 8 mm (optional)
- Interface without connectors

[return to table of contents](#)

Accessories for DT-100-1100

<p>Specification: Connector 48 pole</p> <p>Order number:</p>	 <p>FL-E-48-WW</p>		
			<p>return to table of contents</p>

DT-20-1100

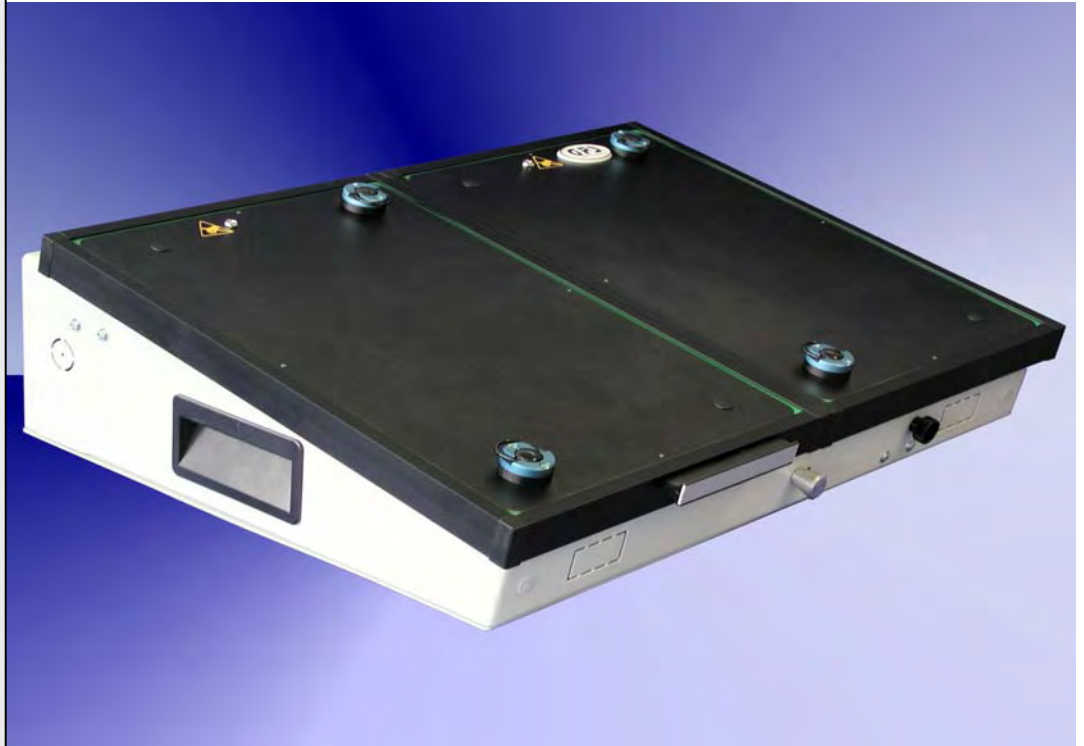


Fixture specification

- Outside dimensions: 540 x 420 x 130 mm
- Max. working area : 440 x 280 mm
- Cant for easy handling
- Stable quality through the case and the aluminium frame
- PAG - plug and guide system
- Moving plate made of ESD material
- Probe plate made of G 10 material (10mm)
- GPS ESD sealing of vacuum chamber
- Rounded sealing edges (for a better intake)
- Protecting errector standard
- Case can be opened during the debugging
- Outpourings intended for the use of a counter
- ESD leakage probes standard
- Moving plate 8 mm (optional)
- Interface without pins
- Short delivery time

[return to table of contents](#)

DT-20-2100



Fixture specification

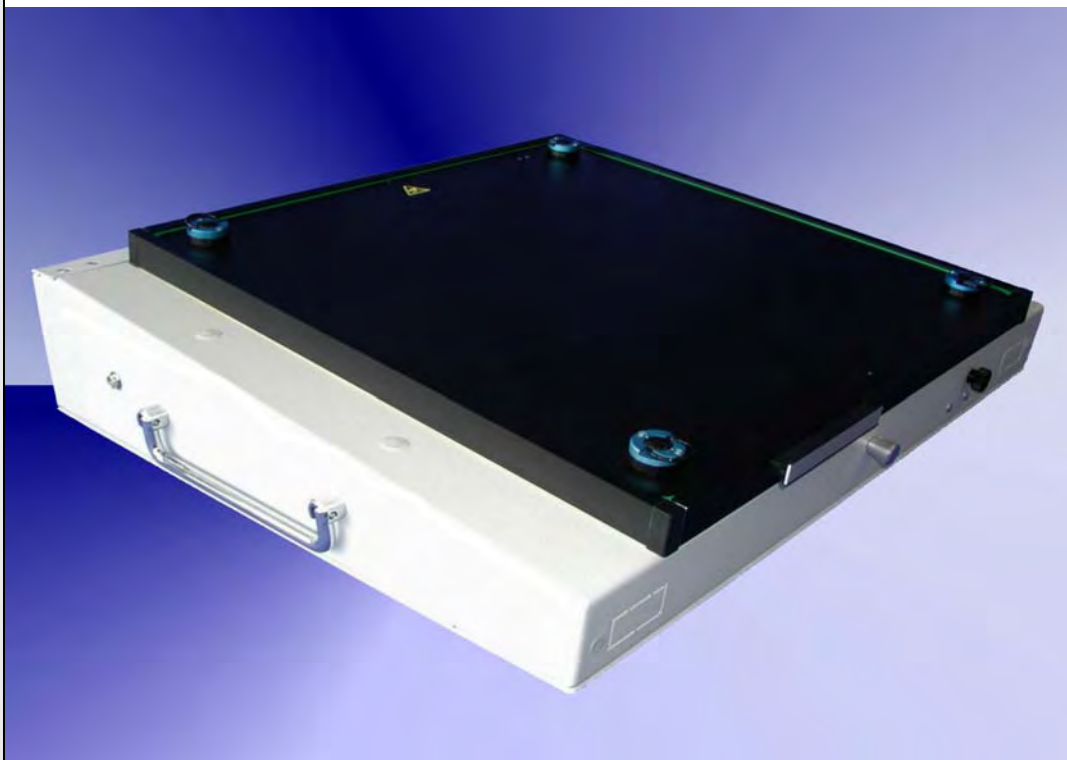
- Outside dimensions: 540 x 420 x 130 mm
- Max. working area : 2x (170 x 280) mm
- Cant for easy handling
- Stable quality through the case and the aluminium frame
- PAG - plug and guide system
- Moving plate made of ESD material
- Probe plate made of G 10 material (10mm)
- GPS ESD sealing of vacuum chamber
- Rounded sealing edges (for a better intake)
- Protecting errector standard
- Case can be opened during the debugging
- Outpourings intended for the use of a counter
- ESD leakage probes standard
- Moving plate 8 mm (optional)
- Interface without pins
- Short delivery time

[return to table of contents](#)

Accessories for DT-20-1100

<p>Specification: Interface panel without pins, with screen printing</p> <p>Order number:</p>	 <p>DT-20-100</p>	<p>Specification: Insertion of the interface panel with 512 pins (Mux), Driver/Sensor and Power Supply</p> <p>Order number:</p>	 <p>DT-20-200</p>
<p>Specification: Interface pin cup</p> <p>Order number:</p>	 <p>SIP-90-3</p>	<p>Specification: Insertion of additional interface pins</p> <p>Order number:</p>	 <p>VER-26</p>
			<p>return to table of contents</p>

DT-30-1100



Fixture specification

- Outside dimensions : 580 x 530 x 150 mm
- Max. working area : 375 x 358 mm
- Cant for easy handling
- Stable quality through the case and the aluminium frame
- PAG - plug and guide system
- Moving plate made of ESD plate material
- Probe plate made of G10 material (10 mm)
- GPS ESD sealing of vacuum chamber
- Rounded sealing edges (for a better intake)
- Protecting erectors standard
- Case can be opened during the debugging
- Outpourings intended for the use of a counter
- ESD leakage pins standard
- Foldable grips, can be mounted on the top or at the side
- Moving plate 8 mm (optional)
- Interface without pins
- Short delivery time

[return to table of contents](#)

Accessories for DT-30-1100

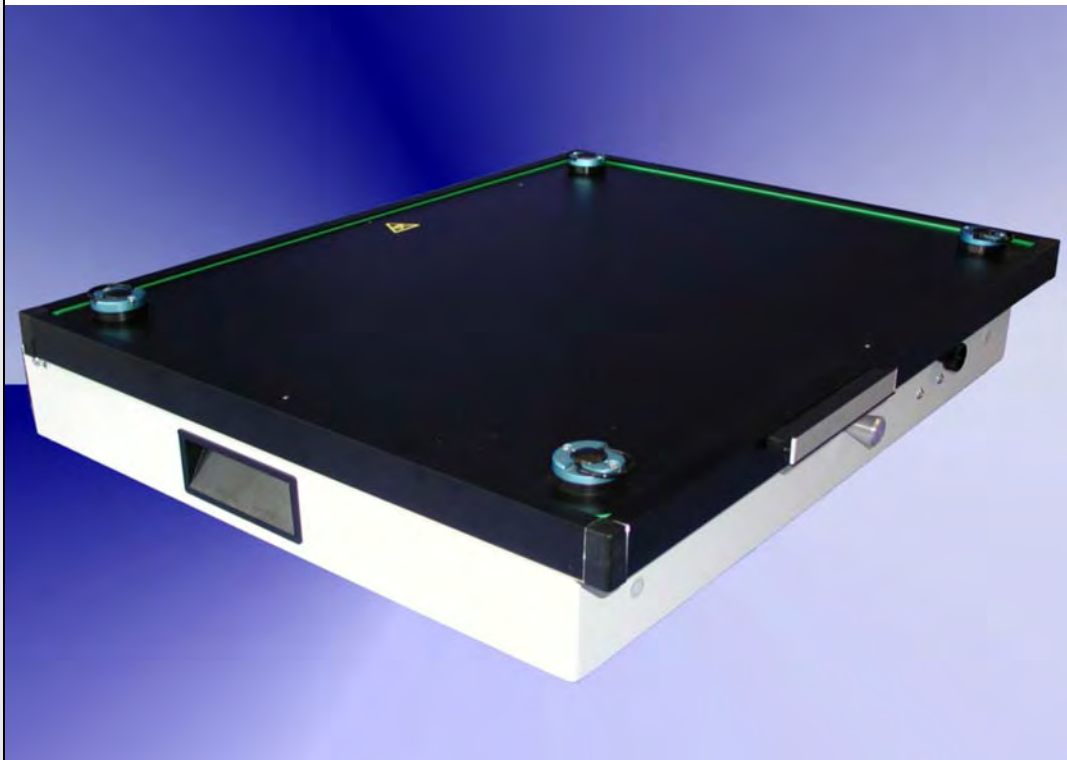
<p>Specification: Interface pin cup</p>		<p>Specification: Insertion of additional pins each additional pin</p>	
<p>Order number:</p>	<p>SIP-90-3</p>	<p>Order number:</p>	<p>VER-26</p>
			<p style="text-align: right;">return to table of contents</p>



4. Rhode & Schwarz Test Systeme

- [1. R & S TSI-TSA Fixture](#)
- [2. R & S TSU Fixture](#)
- [3. R & S TSVP G20 Fixture](#)

TSI-50-1100



Fixture specification

- Outside dimensions : 510 x 430 x 100 mm
- Max. working area : 400 x 290 mm
- Cant for easy handling
- Stable quality through the case and the aluminium frame
- PAG - plug and guide system
- Moving plate made of ESD plate material
- Probe plate made of G10 (CP quality) 10 mm
- GPS ESD sealing of vacuum chamber
- Rounded edges (for a better intake)
- Protecting erectors standard
- Case can be opened during the debugging
- Outpourings intended for the use of a counter
- ESD leakage probes standard
- Foldable grips can be assembled at the sides or on the surface
- Moving plate 8 mm (optional)
- Interface without insertion
- Short delivery time

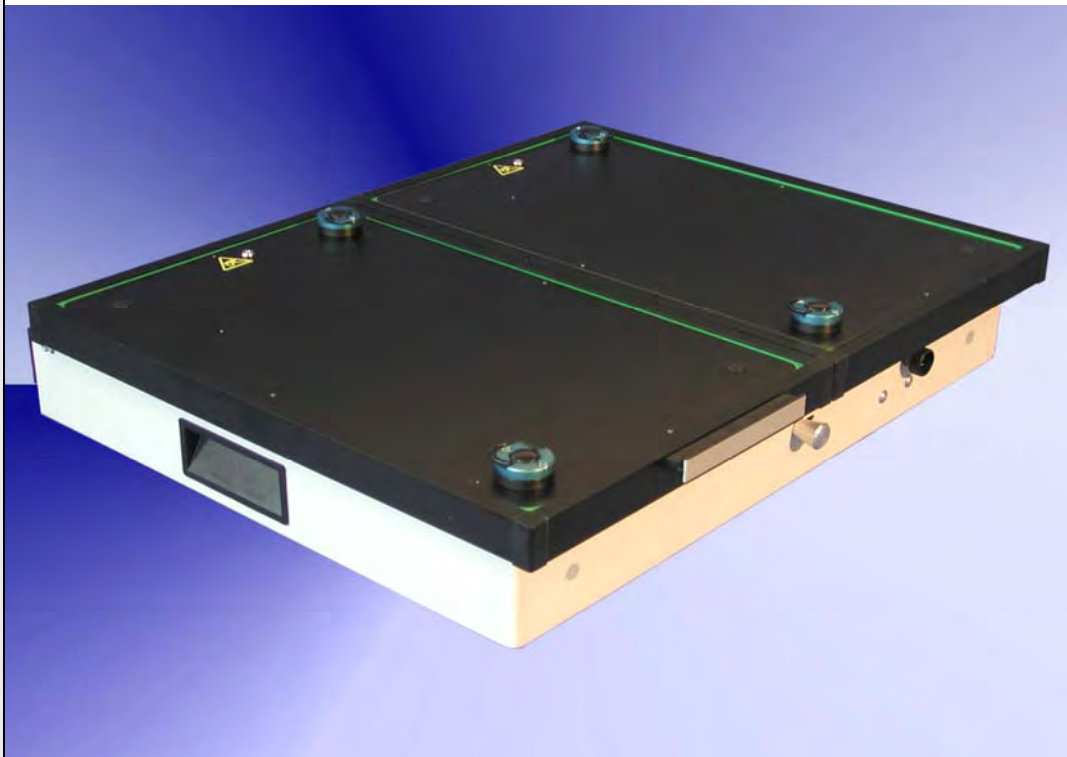
TSI-50-1200



Fixture specification

- Outside dimensions : 490 x 340 x 100 mm
- Max. working area : 310 x 190 mm
- Stable quality through the case and the aluminium frame
- PAG - plug and guide system
- Moving plate made of ESD plate material
- Probe plate made of G10 (CP quality) 10 mm
- GPS ESD sealing of vacuum chamber
- Rounded edges (for a better intake)
- Protecting errector standard
- Case can be opened during the debugging
- ESD leakage probes standard
- Moving plate 8 mm (optional)
- Interface without insertion
- Short delivery time

TSI-50-2100



Fixture specification

- Outside dimensions: 510 x 430 x 100 mm
- Max. working area: 2 x (290 x 146) mm
- Stable quality through the case and the aluminium frame
- PAG - plug and guide system
- Moving plate made of ESD plate material
- Probe plate made of G10 (CP quality) 10 mm
- GPS ESD sealing of vacuum chamber
- Rounded edges (for a better intake)
- Protecting errector standard
- Case can be opened during the debugging
- ESD leakage probes standard
- Grip to open the fixture
- Moving plate 8 mm (optional)
- Short delivery time

Büro Süd
Waldstr. 4
D-82239 Alling
Telefon +49-8141-52 747-0
Telefax +49-8141-52 747-47

Büro Rhein Main
Ferdinand-Porsche-Str.17
D-63500 Seligenstadt
Telefon +49-6182-89 37-0
Telefax +49-6182-89 37-37

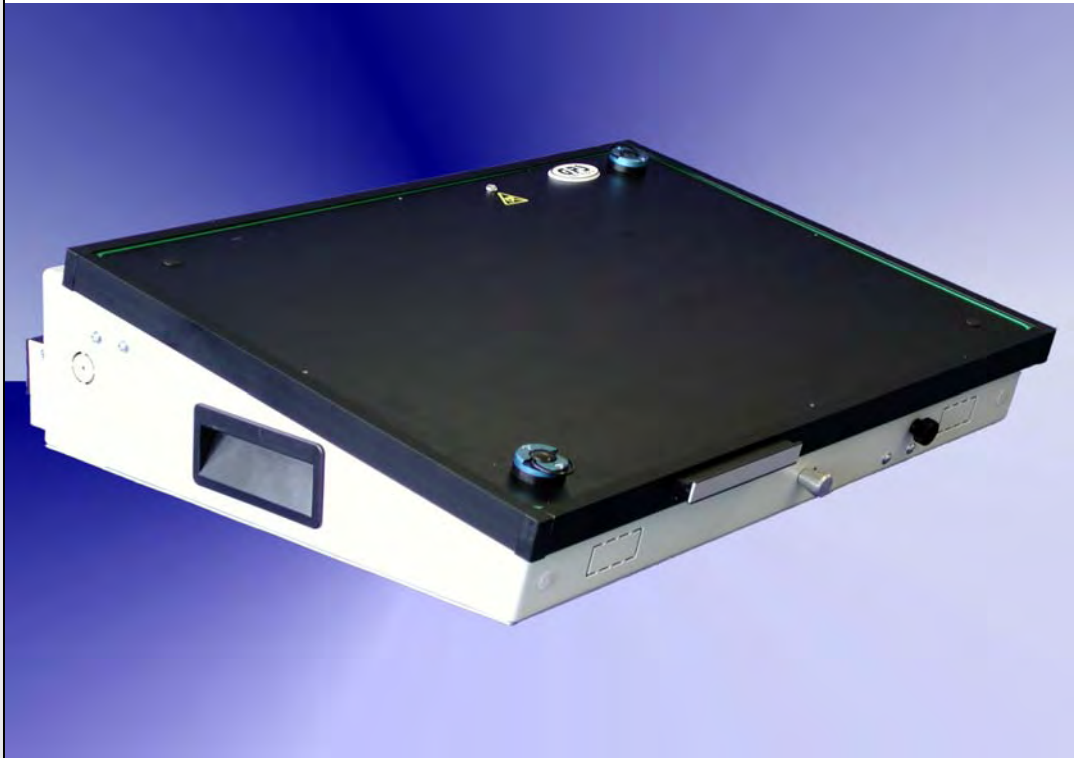
Büro Westfalen
Steigerring 25
D-59075 Hamm
Telefon +49-2381-99 110-0
Telefax +49-2381-99 110-99

Schweiz
Täferstr. 2a
CH-5405 Baden-Dättwil
Telefon +41-56-483 25 80
Telefax +41-56-483 25 89

Ungarn
Zirnyi M. u. 105
HU-8900 Zalaegerszeg
Telefon +36-92 510 740
Telefax +36-92 510 741

Internet
gps-prueftechnik.de
E-Mail:
info@gps-prueftechnik.de

TSI-50-3100



Fixture specification

- Outside dimensions : 550 x 500 x 160 mm
- Max. working area : 490 x 320 mm
- Cant for easy handling
- Stable quality through the case and the aluminium frame
- PAG - plug and guide system
- Moving plate made of ESD plate material
- Probe plate made of G10 (CP quality) 10 mm
- GPS ESD sealing of vacuum chamber
- Rounded edges (for a better intake)
- Protecting errector standard
- Case can be opened during the debugging
- Outpourings intended for the use of a counter
- ESD leakage probes standard
- Moving plate 8 mm (optional)
- Short delivery time

Büro Süd
Waldstr. 4
D-82239 Alling
Telefon +49-8141-52 747-0
Telefax +49-8141-52 747-47

Büro Rhein Main
Ferdinand-Porsche-Str.17
D-63500 Seligenstadt
Telefon +49-6182-89 37-0
Telefax +49-6182-89 37-37

Büro Westfalen
Steigerring 25
D-59075 Hamm
Telefon +49-2381-99 110-0
Telefax +49-2381-99 110-99

Schweiz
Täferstr. 2a
CH-5405 Baden-Dättwil
Telefon +41-56-483 25 80
Telefax +41-56-483 25 89

Ungarn
Zirnyi M. u. 105
HU-8900 Zalaegerszeg
Telefon +36-92 510 740
Telefax +36-92 510 741

Internet
gps-prueftechnik.de
E-Mail:
info@gps-prueftechnik.de

TSI-50-4100



Fixture specification

- Outside dimensions : 550 x 500 x 160 mm
- Max. working area : 2 x (320 x 195) mm
- Cant for easy handling
- Stable quality through the case and the aluminium frame
- PAG - plug and guide system
- Moving plate made of ESD plate material
- Probe plate made of G10 (CP quality) 10 mm
- GPS ESD sealing of vacuum chamber
- Rounded edges (for a better intake)
- Protecting errector standard
- Case can be opened during the debugging
- Outpourings intended for the use of a counter
- ESD leakage probes standard
- Moving plate 8 mm (optional)
- Interface without insertion
- Short delivery time

Büro Süd
Waldstr. 4
D-82239 Alling
Telefon +49-8141-52 747-0
Telefax +49-8141-52 747-47

Büro Rhein Main
Ferdinand-Porsche-Str.17
D-63500 Seligenstadt
Telefon +49-6182-89 37-0
Telefax +49-6182-89 37-37

Büro Westfalen
Steigerring 25
D-59075 Hamm
Telefon +49-2381-99 110-0
Telefax +49-2381-99 110-99

Schweiz
Täferstr. 2a
CH-5405 Baden-Dättwil
Telefon +41-56-483 25 80
Telefax +41-56-483 25 89

Ungarn
Zirnyi M. u. 105
HU-8900 Zalaegerszeg
Telefon +36-92 510 740
Telefax +36-92 510 741

Internet
gps-prueftechnik.de
E-Mail:
info@gps-prueftechnik.de

Accessories for TSI-50-1100

<p>Specification: Interface block , 170 pole, interface pin flat</p> <p>Order number:</p>	 <p>TSI-50-100</p>	<p>Specification: Interface block , 170 pole, interfac pin cup</p> <p>Order number:</p>	 <p>TSI-50-102</p>

Büro Süd
Waldstr. 4
D-82239 Alling
Telefon +49-8141-52 747-0
Telefax +49-8141-52 747-47

Büro Rhein Main
Ferdinand-Porsche-Str.17
D-63500 Seligenstadt
Telefon +49-6182-89 37-0
Telefax +49-6182-89 37-37

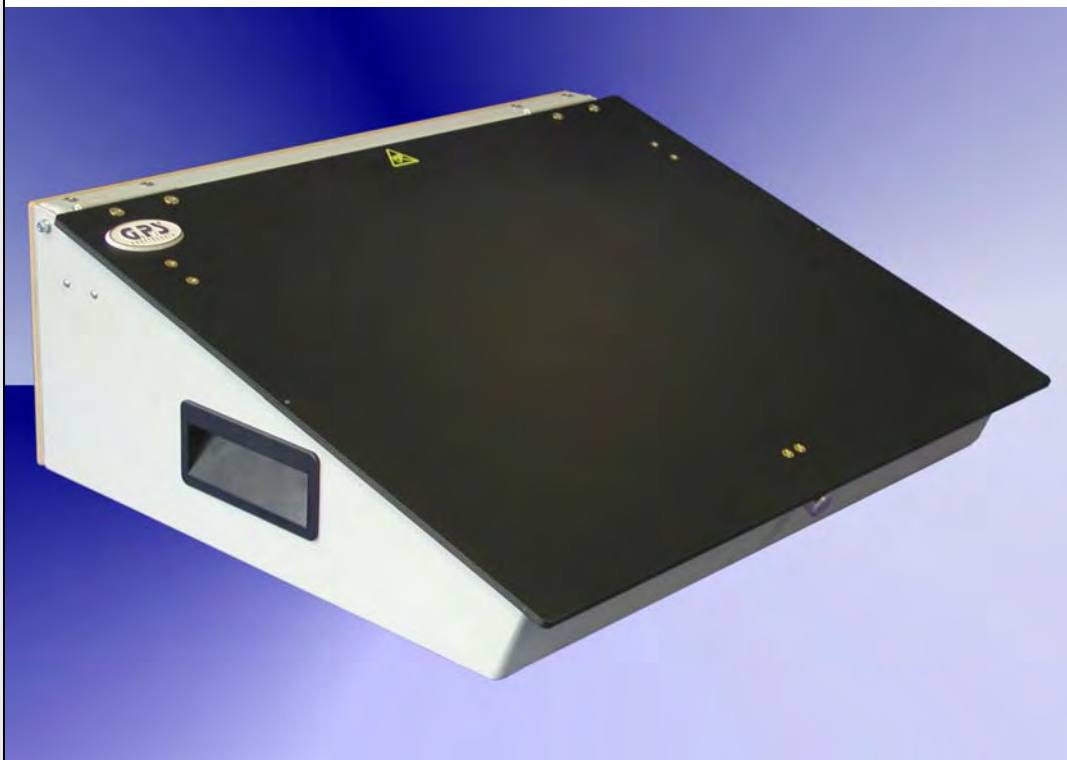
Büro Westfalen
Steigerring 25
D-59075 Hamm
Telefon +49-2381-99 110-0
Telefax +49-2381-99 110-99

Schweiz
Täferstr. 2a
CH-5405 Baden-Dättwil
Telefon +41-56-483 25 80
Telefax +41-56-483 25 89

Ungarn
Zirnyi M. u. 105
HU-8900 Zalaegerszeg
Telefon +36-92 510 740
Telefax +36-92 510 741

Internet
gps-prueftechnik.de
E-Mail:
info@gps-prueftechnik.de

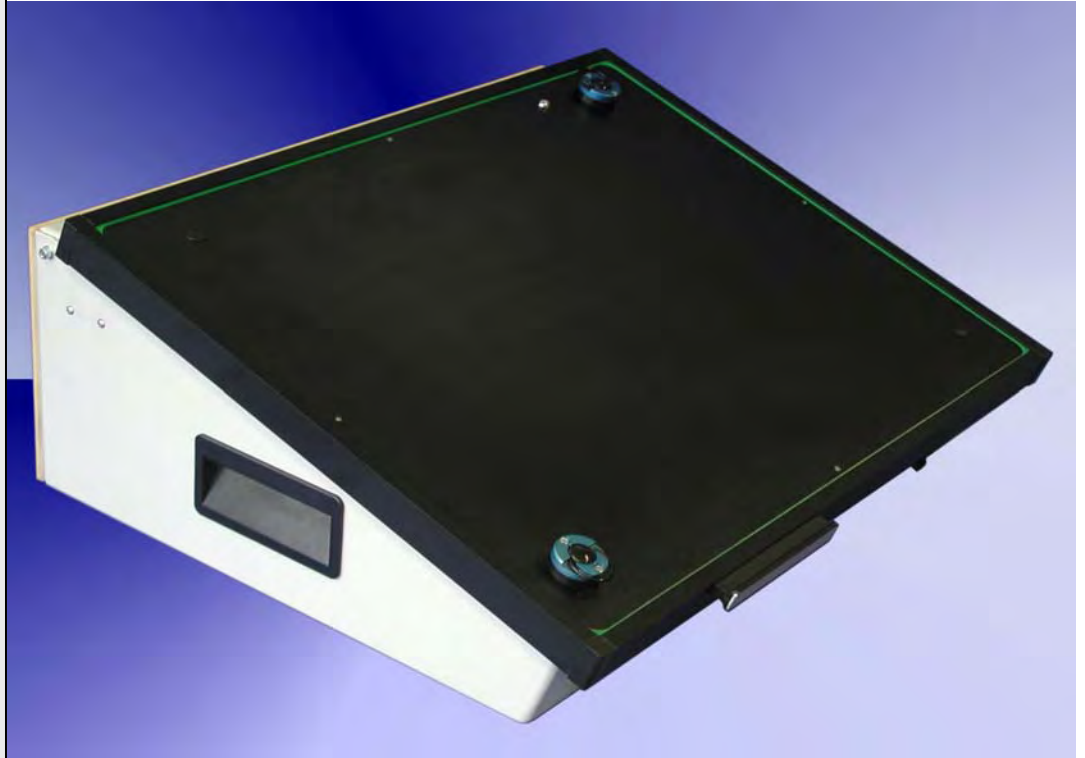
TSU-50-500



Fixture specification

- Outside dimensions : 510 x 430 x 190 mm
- Max. working area : 430 x 330 mm
- Cant for easy handling
- Stable quality through the case and the aluminium frame
- Moving plate made of ESD plate material for a self made completion
- Protecting errector standard
- Case can be opened during the debugging
- Interface without insertion
- Short delivery time



TSU-50-1100



Fixture specification

- Outside dimensions : 510 x 440 x 210 mm
- Max. working area : 450 x 310 mm
- Cant for easy handling
- Stable quality through the case and the aluminium frame
- PAG - plug and guide system
- Moving plate made of ESD plate material
- Probe plate made of G10 (CP quality) 10 mm
- GPS ESD sealing of vacuum chamber
- Rounded edges (for a better intake)
- Protecting errector standard
- Case can be opened during the debugging
- ESD leakage probes standard
- Moving plate 8 mm (optional)
- Interface without insertion
- Short delivery time

Accessories for TSU-50-1100

<p>Specification: Interface connector, 64 pole</p>		<p>Specification: Interface connector, 96 pole</p>	
<p>Order number:</p>	<p>FL-C-64-WW-17-Gerade</p>	<p>Order number:</p>	<p>FL-C-96-WW-13-Gerade</p>

Büro Süd
Waldstr. 4
D-82239 Alling
Telefon +49-8141-52 747-0
Telefax +49-8141-52 747-47

Büro Rhein Main
Ferdinand-Porsche-Str.17
D-63500 Seligenstadt
Telefon +49-6182-89 37-0
Telefax +49-6182-89 37-37

Büro Westfalen
Steigerring 25
D-59075 Hamm
Telefon +49-2381-99 110-0
Telefax +49-2381-99 110-99

Schweiz
Täferstr. 2a
CH-5405 Baden-Dättwil
Telefon +41-56-483 25 80
Telefax +41-56-483 25 89

Ungarn
Zirnyi M. u. 105
HU-8900 Zalaegerszeg
Telefon +36-92 510 740
Telefax +36-92 510 741

Internet
gps-prueftechnik.de
E-Mail:
info@gps-prueftechnik.de

G20-50-1100



Specification:

- Interface are modular and reconfigurable
- Outside dimensions: 555 x 500 x 245 mm
- Max. working area: 470 x 330 mm
- Cant for easy handling
- PAG - plug and guide system
- Probe plate made of G10 (CP quality) 10 mm
- GPS ESD sealing of vacuum chamber
- Protecting errector standard
- Rounded edges (for a better intake)
- QuadraPaddle™ contacts ensure reliable connections to over 20.000 mating cycles
- Stable quality through the case and the aluminium frame
- Exact guidance
- Vacuum- und pneumatic ports integrable
- Thermocouple and fiber optic integrable

Accessories for TSVPG 20 Vacuum Fixture

<p>Interface, Alu Frame, without Modules R&S ITA G20 Module</p> <p>Order number: 410 120 115</p>	
<p>Vacuum port:</p> <p>R&S ITA G20 Module, Vacuum Interfacemodule, ITA Vacuum Double Port</p> <p>Order number: G20-50-150/1</p>	
<p>ITA Modul:</p> <p>ITA Modul 192 pol. Male, unloaded</p> <p>Order number: 510 151 105</p> <p>ITA Modul 192 pol. □ Wire Wrap Post, fully loaded with Male Wire Wrap Contacts</p> <p>Order number: 510 151 113</p>	
<p>Signal ITA Contact:</p> <p>ITA Contact, Crimp/Solder, 22– 24 AWG (max.) Order number: 610 138 109</p> <p>ITA Contact, Wire Wrap Post Order number: 610 138 111</p>	
<p>ITA Modul:</p> <p>ITA Modul 192 pol. WireWrap Post, fully loaded with Male Wire Wrap Contacts Order number: 510 151 109</p>	
<p>ITA Modul:</p> <p>Signal Modul, with 96 pol. WireWrap Post</p> <p>Order number: G20-50-250/1</p> <p>Cover Plate for G20 Modul, 1 Slot</p> <p>Order number: G20-50-210</p>	

Accessories for TSVP G20 Vacuum Fixture

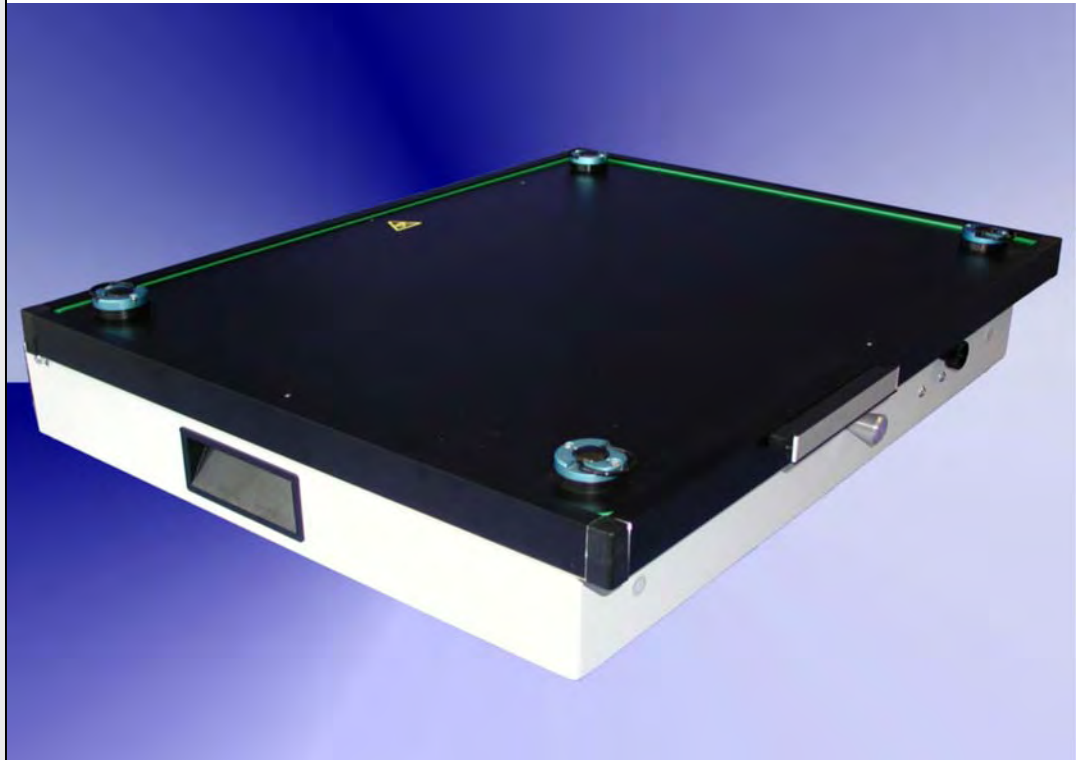
<p>Receiver Hybrid Modul: Mini Power Modul (RCVR) 19 Contact Mini Koaxial Modul (RCVR) 19 Contact Order number: 510 104 123 Order number: 510 104 120</p> <p>ITA Hybrid Modul: Mini Power Modul (ITA) 19 Contact Mini Koaxial Modul (ITA) 19 Contact Order number: 510 108 115 Order number: 510 108 111</p>	
<p>Receiver Modul: Mini Power Modul (RCVR) 16 Power Contact / 16 Sense Contact Order number: 510 104 206</p> <p>ITA Modul: Mini Power Modul (ITA) 16 Power Contact / 16 Sense Contact Order number: 510 108 178</p>	
<p>Min Power Receiver Contact: Min Power Receiver Contact, Solder, 8 AWG bis 50 A, 480 VAC, max. 10 Milliohms Order number: 610 116 112</p> <p>Min Power ITA Contact: Min Power ITA Contact, Solder, 8 AWG bis 50 A, 480 VAC, max. 10 Milliohms Order number: 610 115 124</p>	
<p>Min Coaxial Receiver Contact: Min Coaxial Receiver Contact, RG 316 Min Coaxial Receiver Contact, RG 178 Order number: 610 104 114 Order number: 610 104 141</p> <p>Min Coaxial ITA Contact: Min Coaxial ITA Contact, RG 316 Min Coaxial ITA Contact, RG 178 Order number: 610 103 115 Order number: 610 103 130</p> <p>Mini Coaxial contacts have a min. VSWR less than 1,02 up to 500 MHz. Crosstalk is down less than 60 dB @ 500 MHz, Insert loss is less than 0,05dB @ 500MHz, Resistance is 5 Milliohms max. @ 0,5 Amps, never exceeding 10 Milliohms.</p>	



5. Scorpion Testsystem

1. Scorpion ITA Fixture

TSI-50-1100



Fixture specification

- Outside dimensions : 510 x 430 x 100 mm
- Max. working area : 400 x 290 mm
- Cant for easy handling
- Stable quality through the case and the aluminium frame
- PAG - plug and guide system
- Moving plate made of ESD plate material
- Probe plate made of G10 (CP quality) 10 mm
- GPS ESD sealing of vacuum chamber
- Rounded edges (for a better intake)
- Protecting erectors standard
- Case can be opened during the debugging
- Outpourings intended for the use of a counter
- ESD leakage probes standard
- Foldable grips can be assembled at the sides or on the surface
- Moving plate 8 mm (optional)
- Interface without insertion
- Short delivery time

[return to table of contents](#)

TSI-50-1200

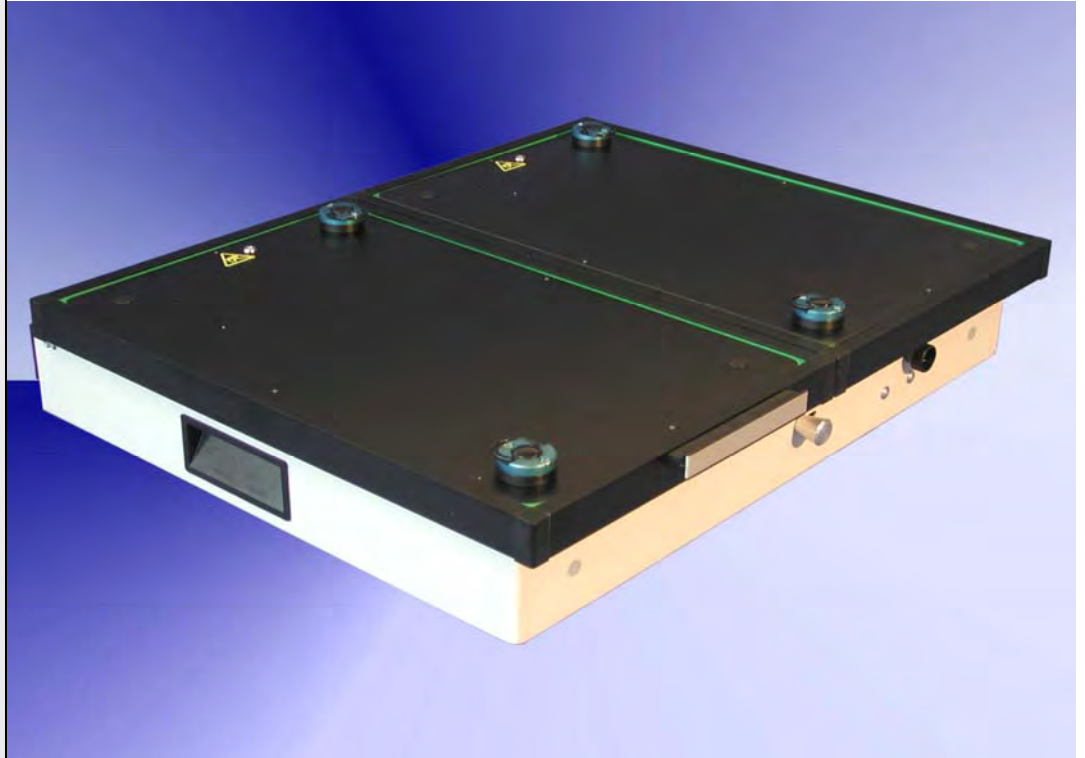


Fixture specification

- Outside dimensions : 490 x 340 x 100 mm
- Max. working area : 310 x 190 mm
- Stable quality through the case and the aluminium frame
- PAG - plug and guide system
- Moving plate made of ESD plate material
- Probe plate made of G10 (CP quality) 10 mm
- GPS ESD sealing of vacuum chamber
- Rounded edges (for a better intake)
- Protecting errector standard
- Case can be opened during the debugging
- ESD leakage probes standard
- Moving plate 8 mm (optional)
- Interface without insertion
- Short delivery time

[return to table of contents](#)

TSI-50-2100

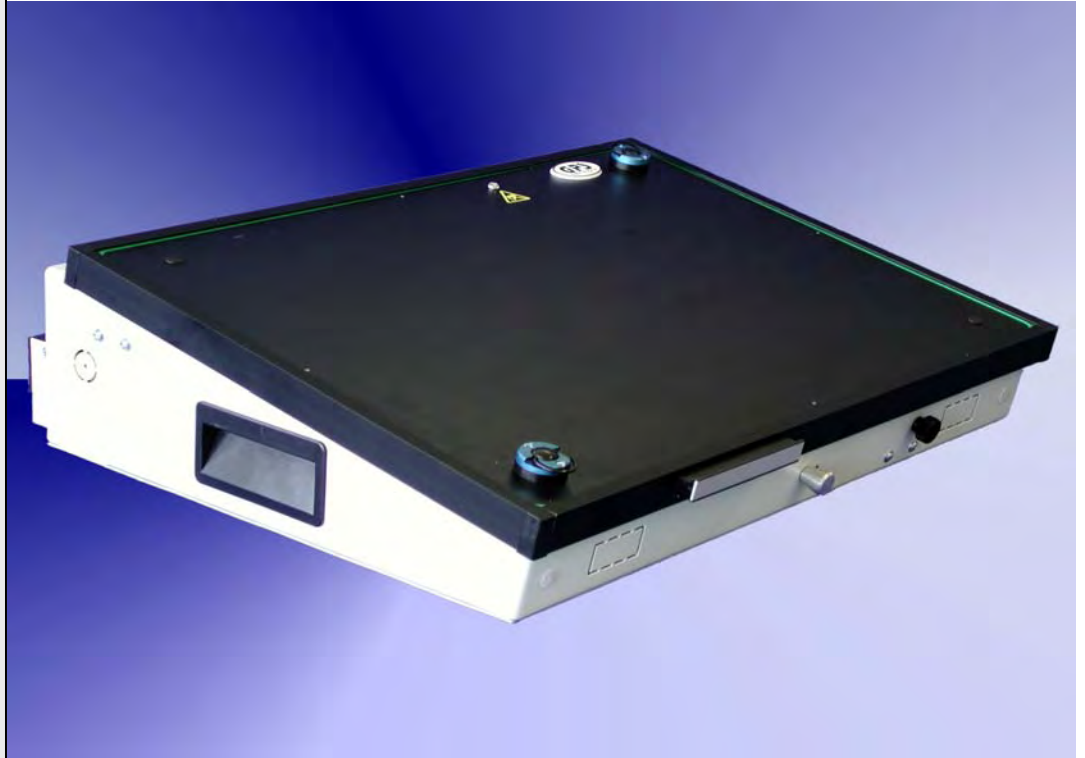


Fixture specification

- Outside dimensions: 510 x 430 x 100 mm
- Max. working area: 2 x (290 x 146) mm
- Stable quality through the case and the aluminium frame
- PAG - plug and guide system
- Moving plate made of ESD plate material
- Probe plate made of G10 (CP quality) 10 mm
- GPS ESD sealing of vacuum chamber
- Rounded edges (for a better intake)
- Protecting errector standard
- Case can be opened during the debugging
- ESD leakage probes standard
- Grip to open the fixture
- Moving plate 8 mm (optional)
- Short delivery time

[return to table of contents](#)

TSI-50-3100




Fixture specification

- Outside dimensions : 550 x 500 x 160 mm
- Max. working area : 490 x 320 mm
- Cant for easy handling
- Stable quality through the case and the aluminium frame
- PAG - plug and guide system
- Moving plate made of ESD plate material
- Probe plate made of G10 (CP quality) 10 mm
- GPS ESD sealing of vacuum chamber
- Rounded edges (for a better intake)
- Protecting errector standard
- Case can be opened during the debugging
- Outpourings intended for the use of a counter
- ESD leakage probes standard
- Moving plate 8 mm (optional)
- Short delivery time

[return to table of contents](#)

Accessories for TSI-50-3100

<p>Specification: Interface block, 170 pole, interface pin flat</p>		<p>Specification: Interface block, 170 pole, interface pin cup</p>	
<p>Order number:</p>	<p>TSI-50-100</p>	<p>Order number:</p>	<p>TSI-50-102</p>

[return to table of contents](#)

Büro Süd
Waldstr. 4
D-82239 Alling
Telefon +49-8141-52 747-0
Telefax +49-8141-52 747-47

Büro Rhein Main
Ferdinand-Porsche-Str.17
D-63500 Seligenstadt
Telefon +49-6182-89 37-0
Telefax +49-6182-89 37-37

Büro Westfalen
Steigerring 25
D-59075 Hamm
Telefon +49-2381-99 110-0
Telefax +49-2381-99 110-99

Schweiz
Täferstr. 2a
CH-5405 Baden-Dättwil
Telefon +41-56-483 25 80
Telefax +41-56-483 25 89

Ungarn
Posta út 63
HU-8900 Zalaegerszeg
Telefon +36-9250-84-50
Telefax +36-9250-84-60

Internet
gps-prueftechnik.de
E-Mail:
info@gps-prueftechnik.de

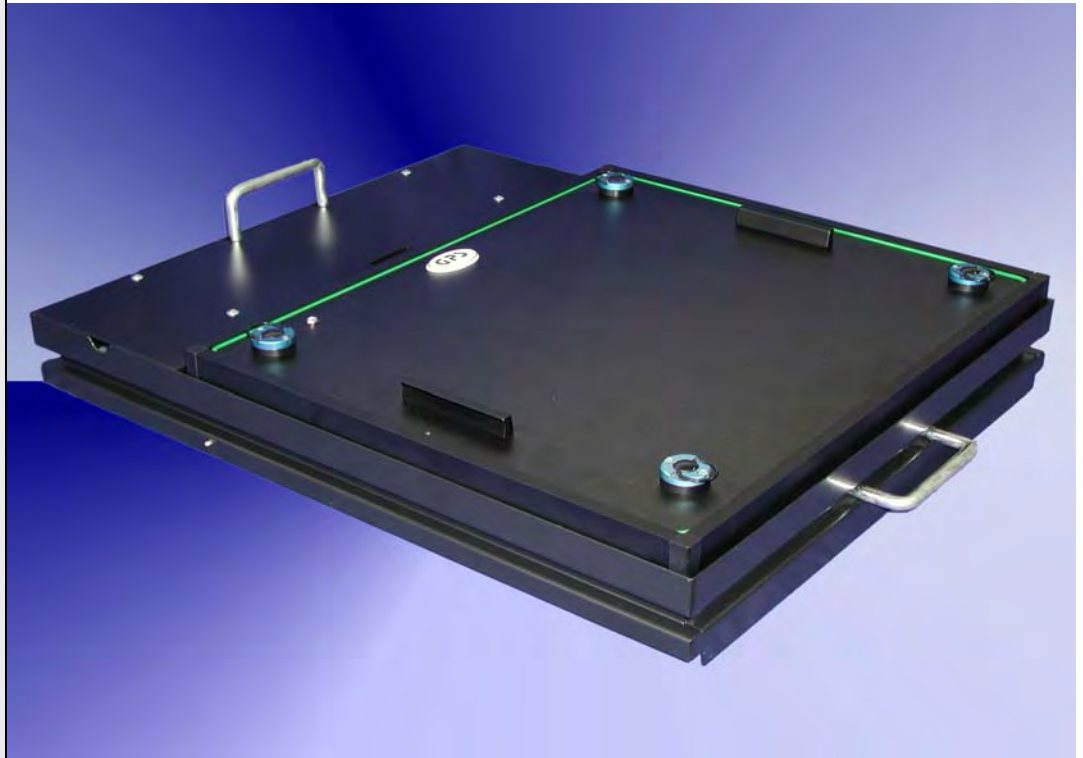


6. SPEA

[1. Unitest Easytest Fixture](#)

[2. SPEA 3030 Fixture](#)

BZIF-3600-1100V



Fixture specification

- Single well fixture for Uni / Easytest 500 testsystem
 - Outside dimensions : 490 x 525 mm
 - Max. working area : 365 x 295 mm
 - Stable quality through the case and the aluminium frame
 - PAG - plug and guide system
 - Moving plate made of ESD plate material
 - Probe plate made of G10 (CP quality) 10 mm
 - GPS ESD sealing of vacuum chamber
 - Rounded edges (for a better intake)
 - Original SPEA Interface
 - Outpourings intended for the use of a counter
 - ESD leakage probes standard
 - Moving plate 8 mm (optional)
 - Interface without insertion
- Short delivery time

More fixtures BZIF und TZIF by request

[return to table of contents](#)

Accessories for BZIF-3600-1100V

<p>Specification: Compressed air connection 1/4", on the side of the fixture</p> <p>Order number:</p>	 <p>BZIF-3600-DRUCKLUFTÜBERGABE</p>	<p>Specification: Interface wrap pins, 2 x 72</p> <p>Order number:</p>	 <p>BZIF-3600-EINPRESSLEISTE</p>
<p>Specification: Counter H7EC-BL (OMRON) without reset</p> <p>Order number:</p>	 <p>Zähler</p>		
			<p>return to table of contents</p>

SPEA 3030

Pneumatical Fixtures

SPEA-3030



Fixture specification

- Stable quality through the case and the aluminium frame
- Outside dimensions: 740 x 510 x 250 mm
- Max UUT size : 520 x 295 mm
- Moving plate made of ESD plate material
- Holddown plate made of ESD acrylic plastic (15mm)
- Probe plate made of G10 (CP quality) 10 mm
- Original SPEA Interface
- ESD leakage probes standard
- Moving plate 8 mm (optional)
- Interface without insertion
- Short delivery time

[return to table of contents](#)

SPEA 3030

Pneumatical Fixtures

Accessories for SPEA-3030

Interface—Strip

With 2X72 Interface wire wrap pins

Order number: ZIF-3600 Einpressleiste



Counter H7EC-N-B (OMRON)

Without reset

Order number: Zähler



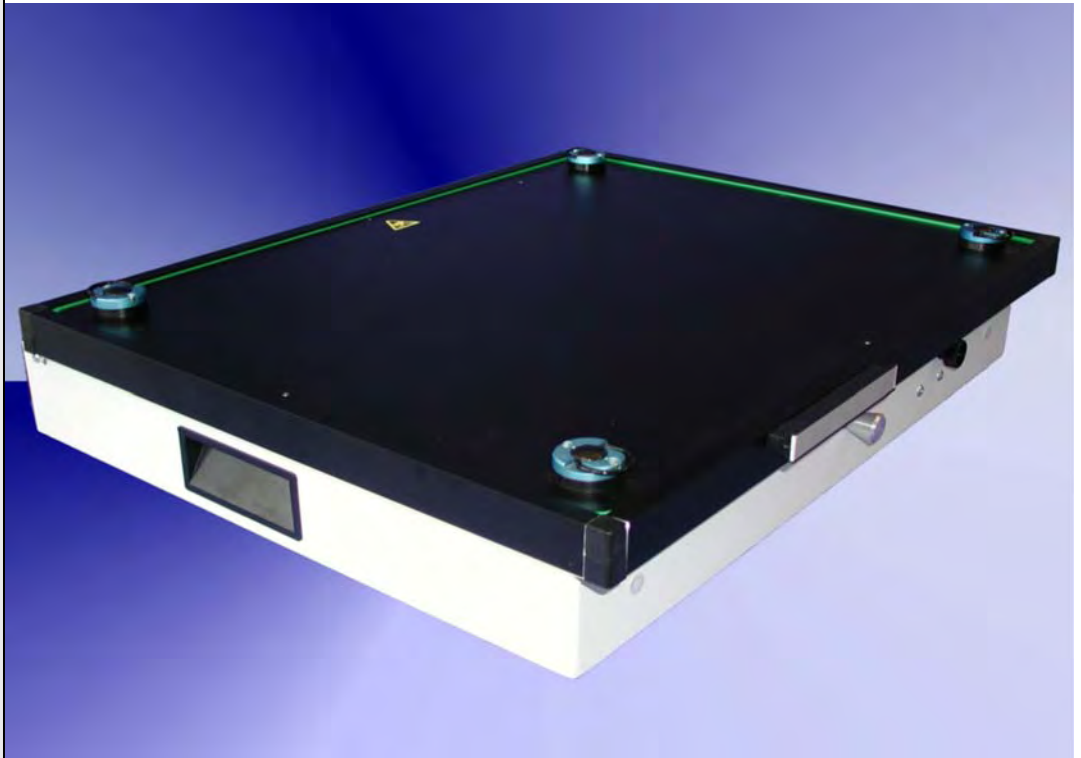
[return to table of contents](#)



7. Teradyne (GenRad)

1. [GR 2270 2271 Test System](#)
2. [GR 86 TestStation LH](#)
3. [GR 86 TestStation LH Wireless](#)
4. [GR 86 Accessories](#)

GR-50-1100



Fixture specification

- Outside dimensions : 510 x 430 x 100 mm
- Max. working area : 400 x 290 mm
- Stable quality through the case and the aluminium frame
- PAG - plug and guide system
- Moving plate made of ESD plate material
- Probe plate made of G10 material (10mm)
- GPS ESD sealing vacuum chamber
- Rounded sealing edges (for a better intake)
- Protecting erectors standard
- Cas can be opened during the debugging
- ESD leakage probes standard
- Moving plate 8 mm (optional)
- Short delivery time

[return to table of contents](#)

GR-50-1200

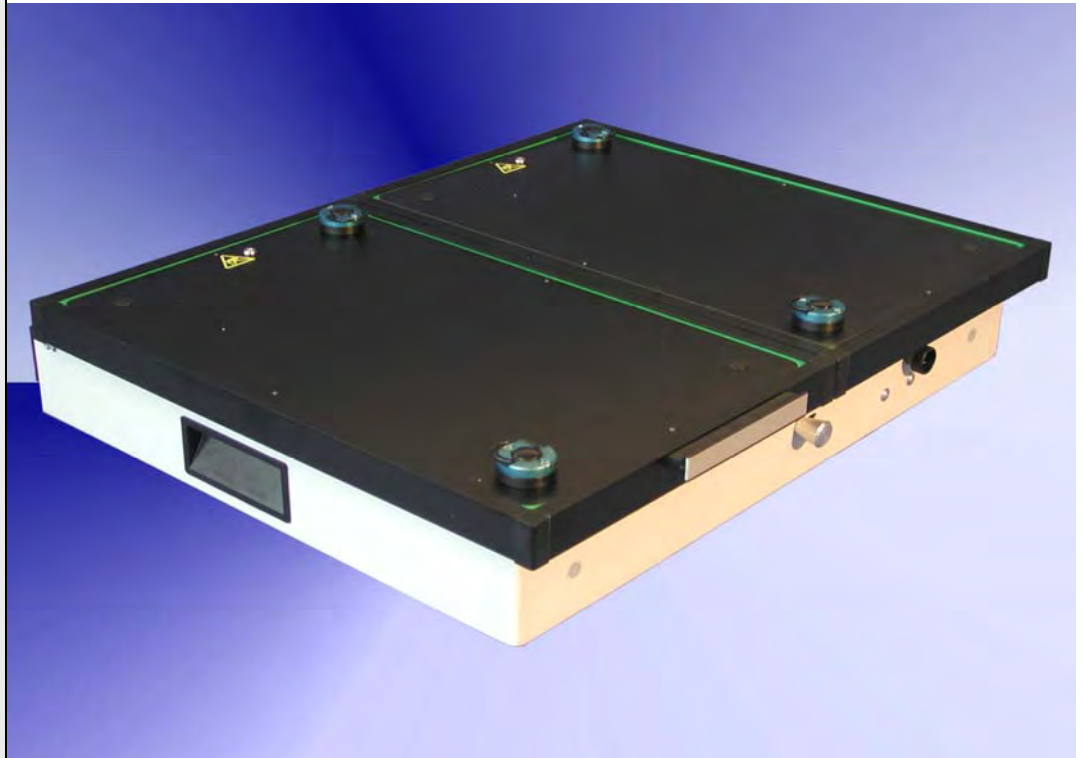


Fixture specification

- Outside dimensions : 490 x 340 x 100 mm
- Max. working area : 310 x 190 mm
- Stable quality through the case and the aluminium frame
- PAG - plug and guide system
- Moving plate made of ESD plate material
- Probe plate made of G10 material (10 mm)
- GPS ESD sealing vacuum chamber
- Rounded sealing edges (for a better intake)
- Protecting errector standard
- Case can be opened during the debugging
- ESD leakage probes standard
- Moving plate 8 mm (optional)
- Interface without pins
- Short delivery time

[return to table of contents](#)

GR-50-2100

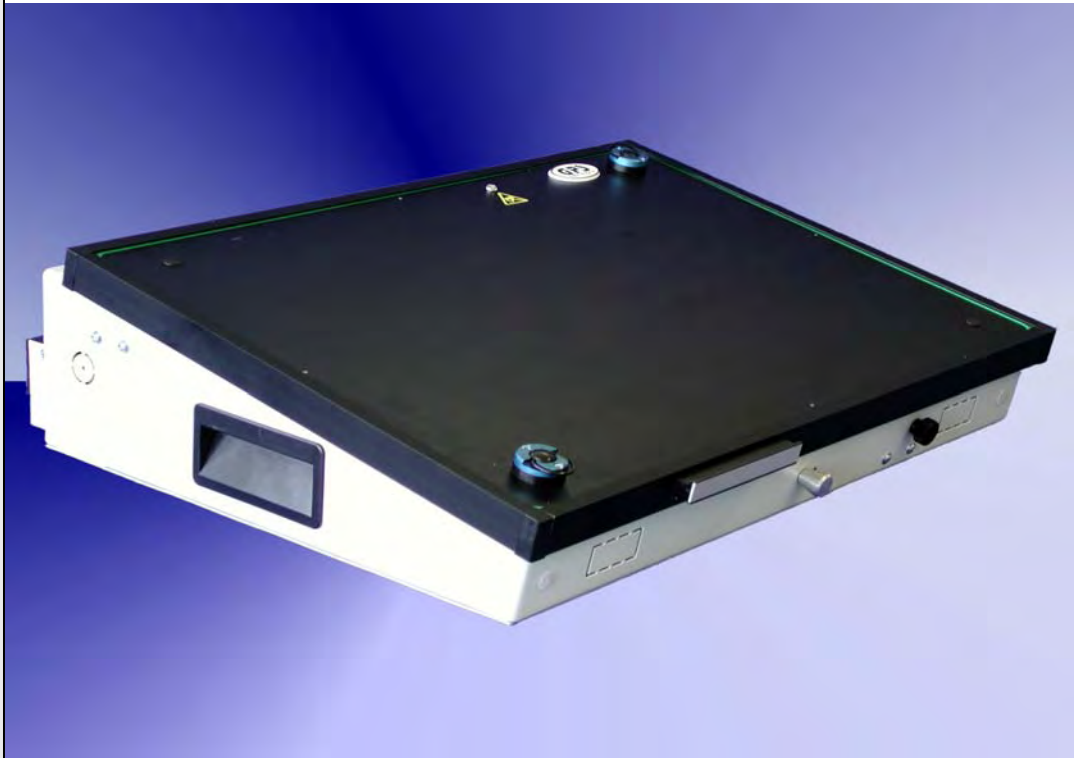


Fixture specification

- Outside dimensions : 510 x 430 x 100 mm
- Max. working area : 2 x (290 x 146) mm
- Stable quality through the case and the aluminium frame
- PAG - plug and guide system
- Moving plate made of ESD plate material
- Probe plate made of G10 material (10mm)
- GPS ESD sealing vacuum chamber
- Rounded sealing edges (for a better intake)
- Protecting errector standard
- Case can be opened during the debugging
- ESD leakage pins standard
- Grip to open the fixture
- Moving plate 8 mm (optional)
- Short delivery time

[return to table of contents](#)

GR-50-3100



Fixture specification

- Outside dimensions : 550 x 500 x 160 mm
- Max. working area : 490 x 320 mm
- Cant for easy handling
- Stable quality through the case and the aluminium frame
- PAG - plug and guide system
- Moving plate made of ESD plate material
- Probe plate made of G10 material (10mm)
- GPS ESD sealing vacuum chamber
- Rounded sealing edges (for a better intake)
- Protecting errector standard
- Case can be opened during the debugging
- Outpourings intended for the use of a counter
- ESD leakage pins standard
- Moving plate 8mm (optional)
- Short delivery time

[return to table of contents](#)

GR-50-4100



Fixture specification

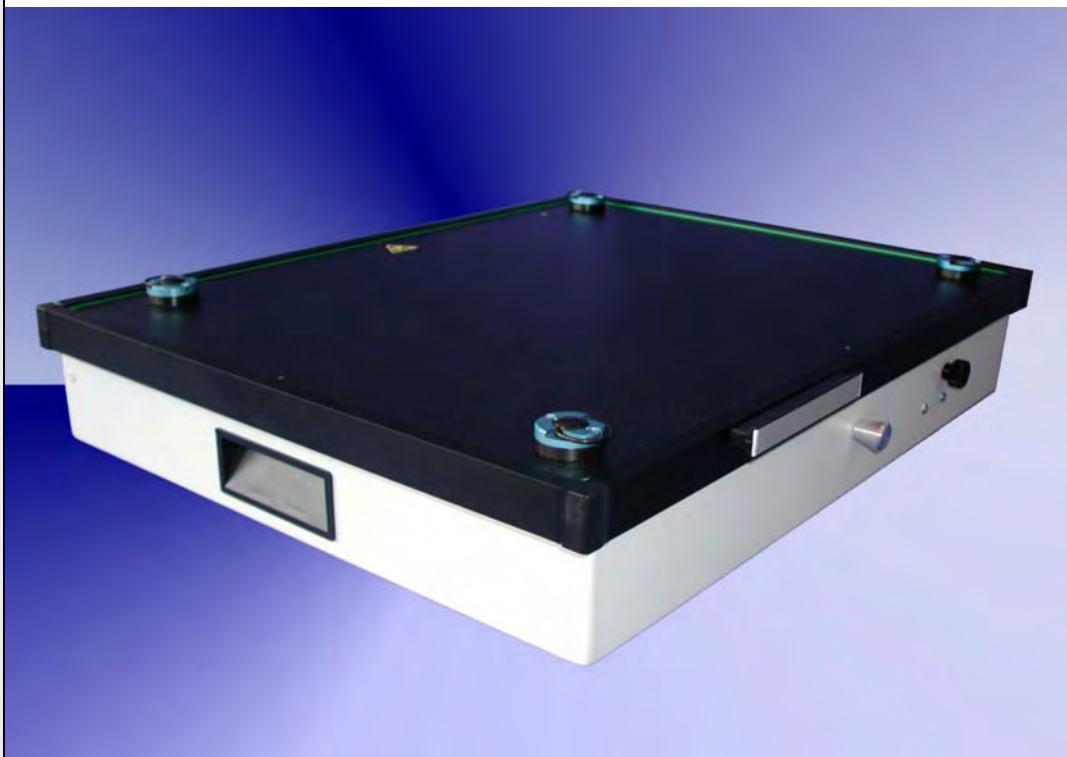
- Outside dimensions : 550 x 500 x 160 mm
- Max. working area : 2 x (320 x 195) mm
- Cant for easy handling
- Stable quality through the case and the aluminium frame
- PAG - plug and guide system
- Moving plate made of ESD plate material
- Probe plate made of G10 material (10mm)
- GPS ESD sealing vacuum chamber
- Rounded sealing edges (for a better intake)
- Protecting errector standard
- Case can be opened during the debugging
- Outpourings intended for the use of a counter
- ESD leakage pins standard
- Moving plate 8 mm (optional)
- Interface without pins
- Short delivery time

[return to table of contents](#)

Accessories for GR-50-4100

<p>Specification: Interface block, 170 pole, interface pin flat</p> <p>Order number:</p>	 <p>TSI-50-100</p>	<p>Specification: Interface block, 170 pole, interface pin cup</p> <p>Order number:</p>	 <p>TSI-50-102</p>
<p style="text-align: right;">return to table of contents</p>			

GR-86-3100

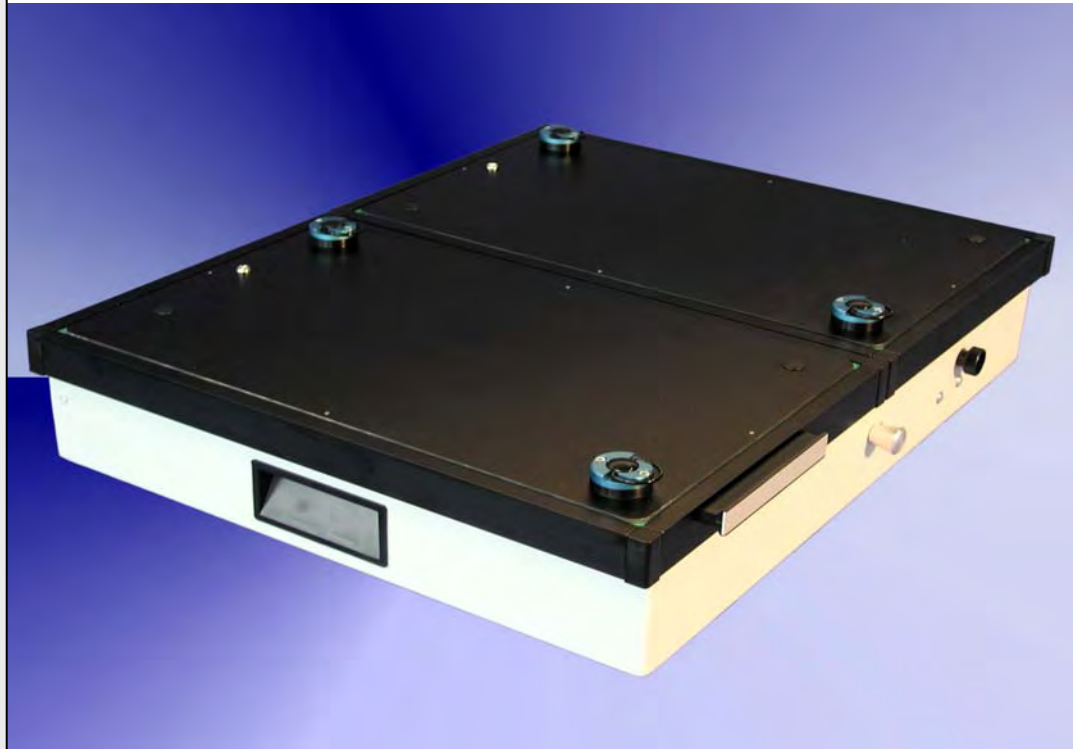


Fixture specification

- Outside dimensions : 510 x 430 x 110 mm
- Max. working area : 372 x 292 mm
- Stable quality through the case and the aluminium frame
- PAG - plug and guide system
- Moving plate made of ESD plate material
- Probe plate made of G10 material
- GPS ESD sealing of vacuum chamber
- Rounded edges (for a better intake)
- Protecting errector standard
- Case can be opened during the debugging
- ESD leakage probes standard
- Extensive offer of Opens Test (OXF) components
- Interface has to be ordered separately
- Moving plate 8 mm (optional)
- Outpourings intended for a 18 slots interface expansion
- Short delivery time

[return to table of contents](#)

GR-86-3200











Fixture specification

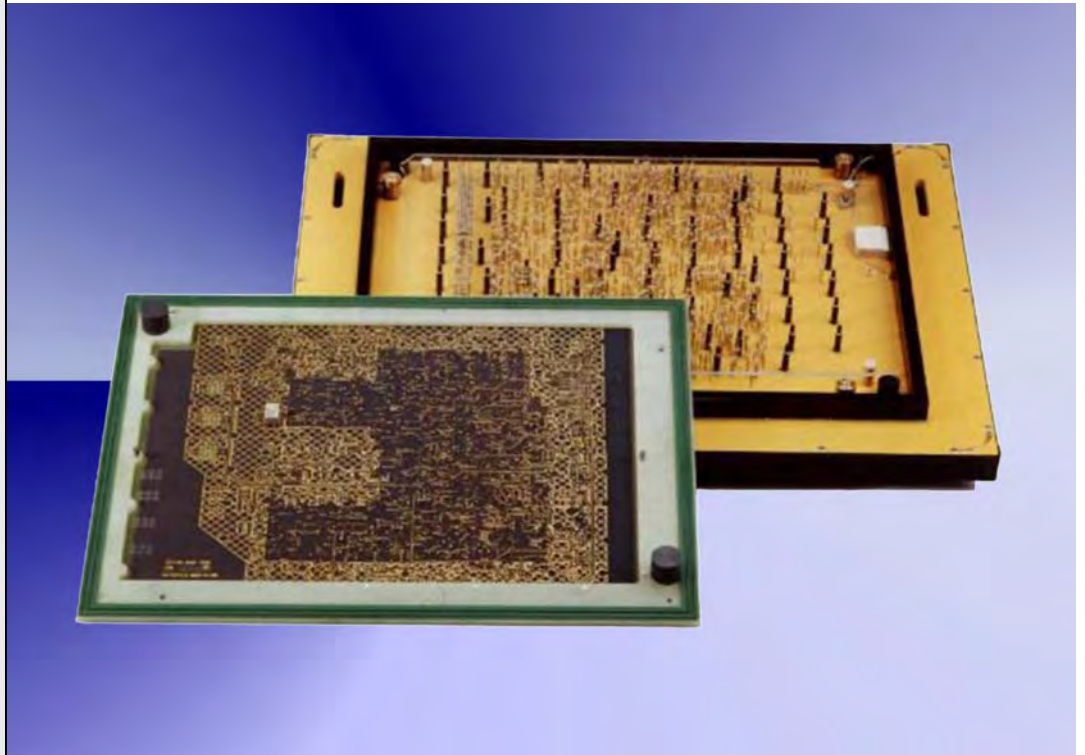
- Outside dimensions : 510 x 430 x 110 mm
- Max. working area : 2 x (292 x 146) mm
- Stable quality through the case and the aluminium frame
- PAG - plug and guide system
- Moving plate made of ESD plate material
- Probe plate made of G10 material
- GPS ESD sealing of vacuum chamber
- Rounded edges (for a better intake)
- Protecting errector standard
- Case can be opened during the debugging
- ESD leakage probes standard
- Extensive offer of Opens Test (OXF) components
- Interface has to be ordered separately
- Moving plate 8 mm (optional)
- Outpourings intended for a 18 slots interface expansion
- Short delivery time

[return to table of contents](#)

Accessories for GR-86-3100

<p>Specification: Interface panel small, 15 slots, loaded for 512 testpoints</p> <p>Order number:</p>	 <p>GR-086-1</p>	<p>Specification: Interface panel small, 15 slots, loaded for 1024 testpoints</p> <p>Order number:</p>	 <p>GR-086-3</p>
<p>Specification: Interface panel small, 15 slots, loaded for 1536 testpoints</p> <p>Order number:</p>	 <p>GR-086-5</p>	<p>Specification: Interface panel small , 18 slots, loaded for 512 testpoints</p> <p>Order number:</p>	 <p>GR-086-1/18</p>
<p>Specification: Interface panel small, 18 slots, loaded for 1024 testpoints</p> <p>Order number:</p>	 <p>GR-086-3/18</p>	<p>Specification: Interface panel small, 18 slots, loaded for 1536 testpoints</p> <p>Order number:</p>	 <p>GR-086-5/18</p>
<p>Specification: Interface panel small, 18 slots, loaded for 1920 testpoints</p> <p>Order number:</p>	 <p>GR-086-7/18</p>	<p>Specification: Loading of AFTM modul</p> <p>Order number:</p>	 <p>VER-37 return to table of contents</p>

GR-86-3100-WL



Fixture specification

- Outside dimensions : 500 x 390 x 70 mm
- Max. working area : 300 x 260 mm
- Stable quality through the case and the aluminium frame
- PAG - plug and guide system
- Moving plate made of ESD plate material
- Probe plate made of G10 material (10mm)
- GPS ESD sealing of vacuum chamber
- ESD leakage probes standard
- Extensive offer of Opens Test (OXP) components
- Translator board has to be ordered separately
- Moving plate 8 mm (optional)
- Accessories: Interface cover for 15 and 33 slots interface (testsystem)

[return to table of contents](#)

Accessories for GR-86-3100-WL

<p>Specification: Interface plate GR-86-3100-WL</p> <p>for</p> <p>Order number:</p>	 <p>IF-GR-86-3100-WL</p>	<p>Specification: Interface cover for GR-86-3100-WL for testsystems with 33 slots interface One-off purchase</p> <p>Order number:</p>	 <p>GR-86-055-WL</p>
<p>Specification: Fixture frame for 86-3100-WL for testsystems with 15 slots interface One-off purchase</p> <p>GR:</p> <p>Order number:</p>	 <p>GR-86-050-WL</p>		
			<p style="text-align: right;">return to table of contents</p>

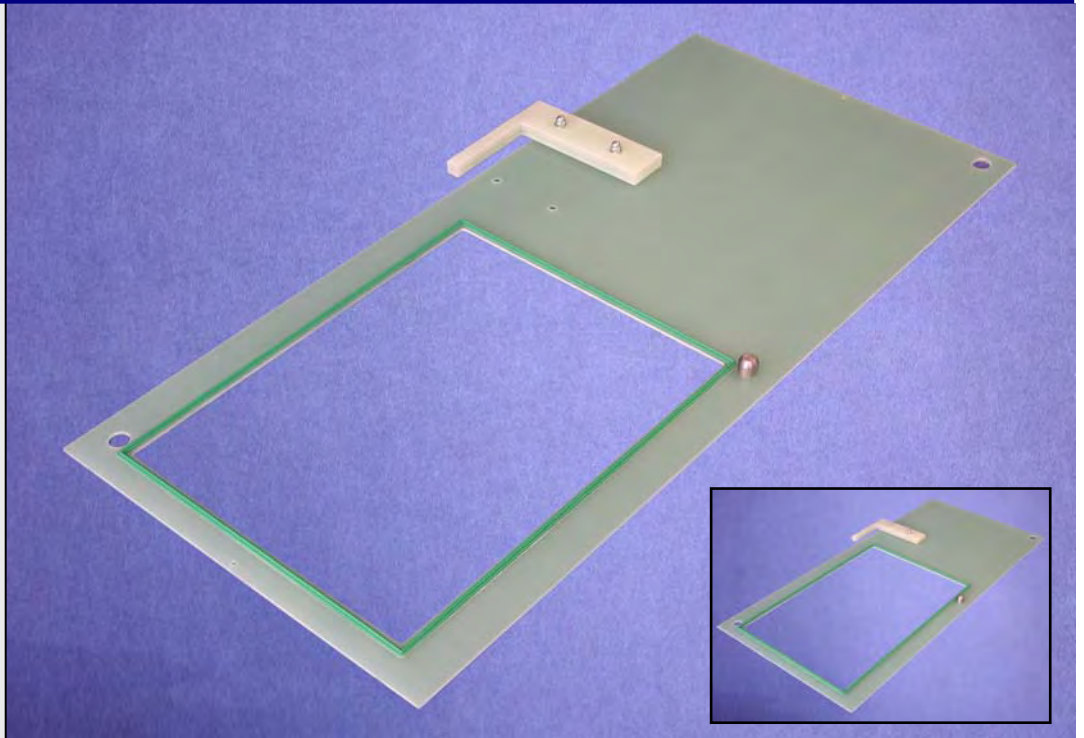
GR-OXP-OFM to SAP-25W-3

<p>Specification: Signal conditioner board, Opens Xpress for max. 32 Sensors</p>		<p>Specification: OTS-1 Max. size: 15,0 x 15,0 mm</p>	
<p>Order number:</p>	<p>GR-OXP-OFM</p>	<p>Order number:</p>	<p>OTS-1-X</p>
<p>Specification: OTS-2 Max. size: 32,0 x 32,0 mm</p>		<p>Specification: OTS-3 Max. size: 65,0 x 65,0 mm</p>	
<p>Order number:</p>	<p>OTS-2-X</p>	<p>Order number:</p>	<p>OTS-3-X</p>
<p>Specification: OTS-4 Max. size: 13,5 x 155,0 mm</p>		<p>Specification: Opens-Change-Box Box with connectors and PAG-plugs, without GR-OXP-OFM and without wiring</p>	
<p>Order number:</p>	<p>OTS-4-X</p>	<p>Order number:</p>	<p>OWB-OXP</p>
<p>Specification: Probe for the assembly of Opens-Test</p>		<p>Specification: SAP for the assembly of Opens-Test (solder)</p>	
<p>Order number:</p>	<p>HTJ-25A</p>	<p>Order number:</p>	<p>SAP-25W-3 return to table of contents</p>

Interface Cover Plate

GR-86-050

GR-86-055



Specification

- Interface cover for testsystems with 33 slot interface
- Available for 15 and 18 slots fixtures
- Tooling pin, sealing and stop incl.
- Matching with GPS fixture:
 - GR-86-3100
 - GR-86-5100
 - GR-86-6100
- Required only once per testsystem and interface size
- Short delivery time

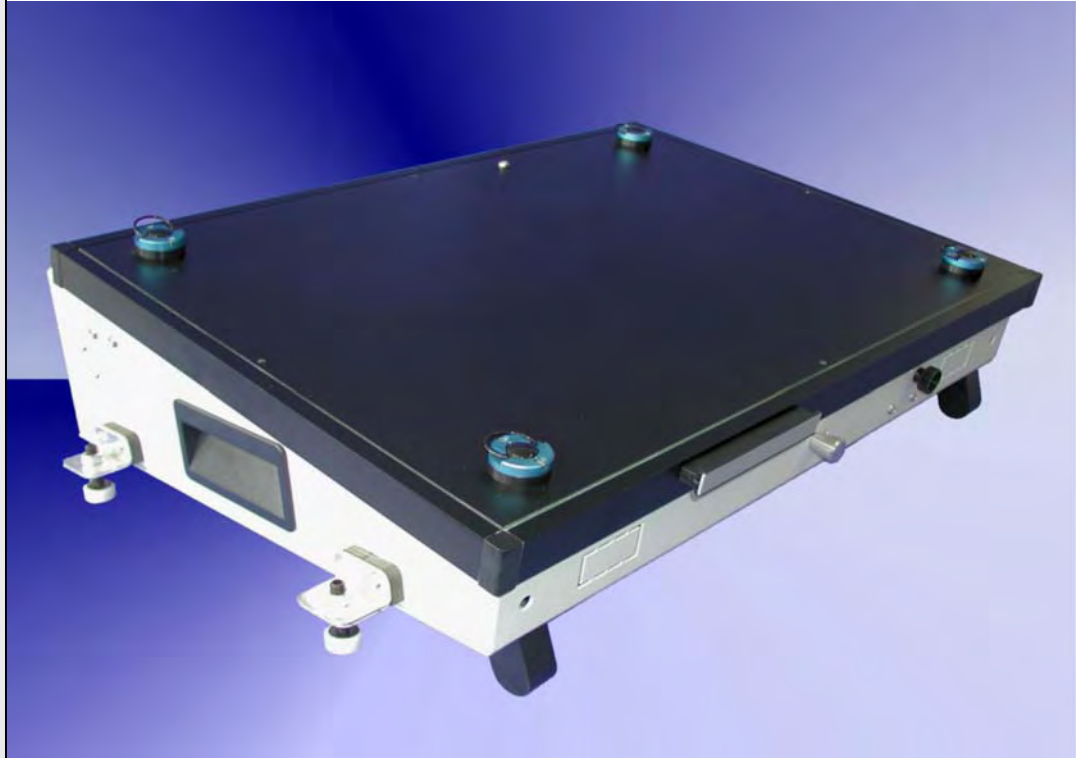
[return to table of contents](#)



8. Teradyne

1. [TestStation SE \(Spectrum\)](#)
2. [Spectrum 883x](#)
3. [Accessories Frame Scan](#)

TY-88-1100

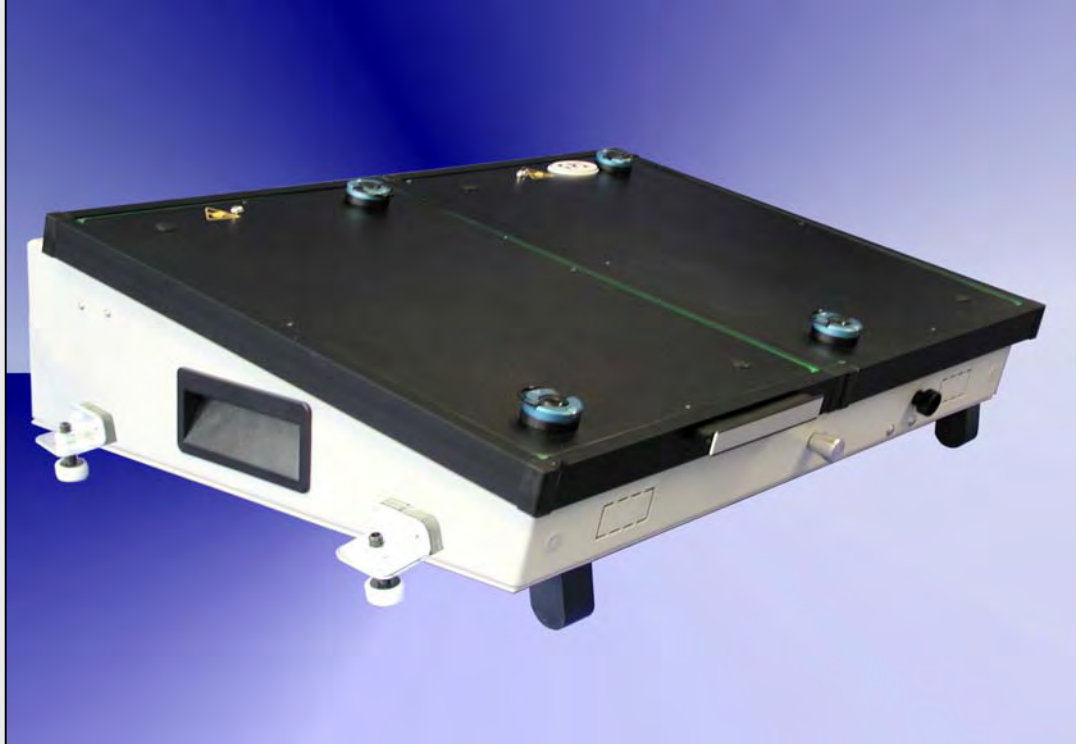


Fixture specification

- Outside dimensions : 540 x 420 x 130 mm
- Max. working area : 420 x 280 mm
- Cant for easy handling
- Stable quality through the case and the aluminium frame
- PAG - plug and guide system
- Moving plate made of ESD plate material
- Probe plate made of G10 (CP quality) 10 mm
- GPS ESD sealing of vacuum chamber
- Rounded edges (for a better intake)
- Protecting errector standard
- Case can be opened during the debugging
- Outpourings intended for the use of a counter
- ESD leakage probes standard
- Interface for the fixture has to be ordered separately
- Extensiv offer of Frame Scan sensor plates
- Moving plate 8 mm (optional)
- Short delivery time

[return to table of contents](#)

TY-88-2100



Fixture specification

- Outside dimensions : 540 x 420 x 130 mm
- Max. working area: 2x (160 x 290 mm)
- Cant for easy handling
- Stable quality through the case and the aluminium frame
- PAG - plug and guide system
- Moving plate made of ESD plate material
- Probe plate made of G10 (CP quality) 10 mm
- GPS ESD sealing of vacuum chamber
- Rounded edges (for a better intake)
- Protecting errector standard
- Case can be opened during the debugging
- Outpourings intended for the use of a counter
- ESD leakage probes standard
- Interface for the fixture has to be ordered separately
- Extensiv offer of Frame Scan sensor plates
- Moving plate 8 mm (optional)
- Short delivery time

[return to table of contents](#)

Accessories for TY-88-1100

<p>Specification: Spectrum Interface panel 1K = small with 1280 pins</p> <p>Order number:</p>	 <p>TY-88-1</p>	<p>Specification: Interface pin cup</p> <p>Order number:</p>	 <p>Sip-90-3</p>
<p>Specification: Insertion of additional interface pins each additional pin</p> <p>Order number:</p>	 <p>VER-26</p>		
			<p>return to table of contents</p>

TY-88-3100

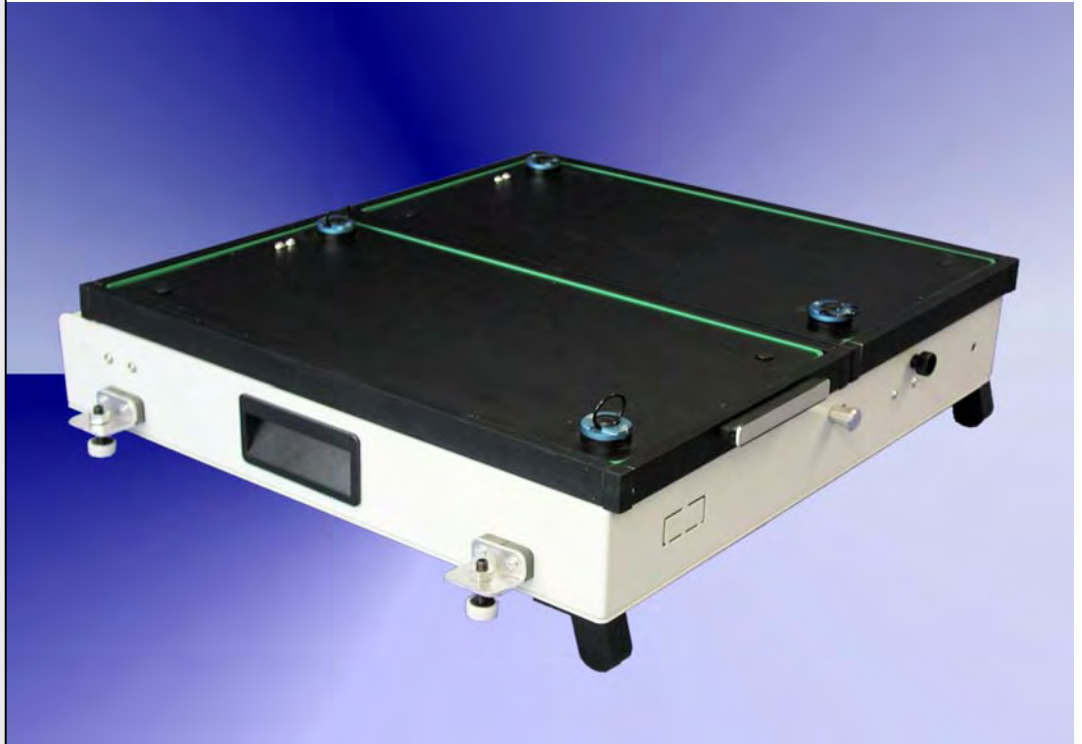


Fixture specification

- Outside dimensions : 510 x 520 x 130 mm
- Max. working area : 430 x 390 mm
- Stable quality through the case and the aluminium frame
- PAG - plug and guide system
- Moving plate made of ESD plate material
- Probe plate made of G10 (CP quality) material, 10 mm
- GPS ESD sealing of vacuum chamber
- Rounded edges (for a better intake)
- Protecting errector standard
- Case can be opened during the debugging
- Outpourings intended for the use of a counter
- ESD leakage pins standard
- Ancillary equipment (for an easy replacement on the testsystem)
- Supports on the sides
- Interface spring-mounted (for safety reasons)
- Outpouring intended for the use of 2K interface
- Interface without insertion (must be ordered separately)
- Moving plate 8 mm (optional)
- Short delivery time

[return to table of contents](#)

TY-88-4100

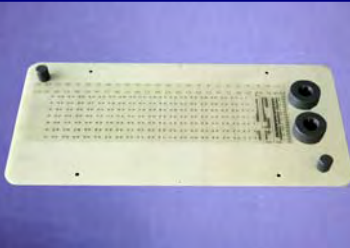
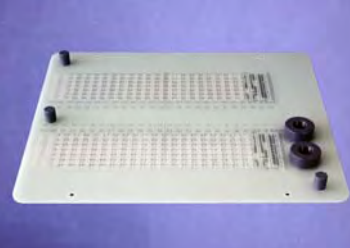




Fixture specification

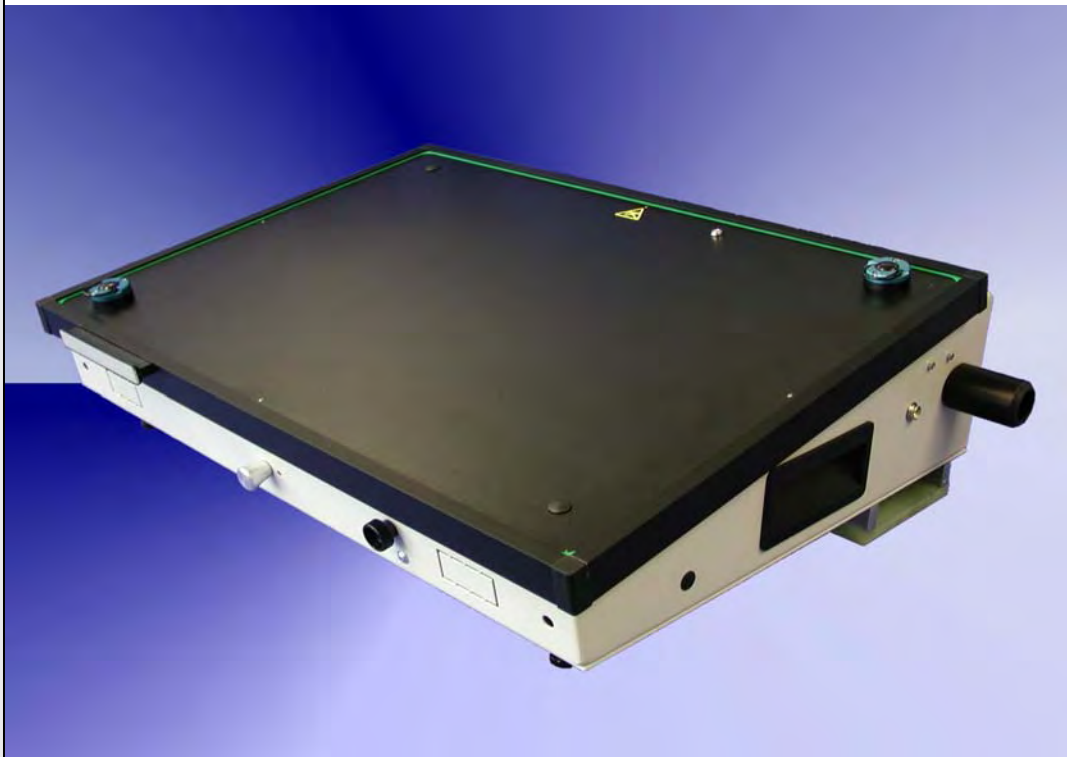
- Outside dimensions : 510 x 520 x 130 mm
- Max. working area :2x (190 x 350 mm)
- Stable quality through the case and the aluminium frame
- PAG - plug and guide system
- Moving plate made of ESD plate material
- Probe plate made of G10 (CP quality) material, 10 mm
- GPS ESD sealing of vacuum chamber
- Rounded edges (for a better intake)
- Protecting errector standard
- Case can be opened during the debugging
- Outpourings intended for the use of a counter
- ESD leakage pins standard
- Ancillary equipement (for an easy replacement on the testsystem)
- Supports on the sides
- Interface spring-mounted (for safety reasons)
- Outpouring intended for the use of 2K interface
- Interface without insertion (must be ordered separately)
- Moving plate 8 mm (optional)
- Short delivery time

[return to table of contents](#)

Accessories for TY-88-3100

<p>Specification: Spectrum Interface panel 1K = small for max.1280 pins without insertion</p> <p>Order number:</p>	 <p>TY-88-1</p>	<p>Specification: Spectrum Interface panel 2K = large for max. 2560 pins without insertion</p> <p>Order number:</p>	 <p>TY-88-2</p>
<p>Specification: Interface pin cup</p> <p>Order number:</p>	 <p>SIP-90-3</p>	<p>Specification: Insertion of additional interface pins</p> <p>Order number:</p>	 <p>VER-26</p>
<p style="text-align: right;">return to table of contents</p>			

ZE-003-1100

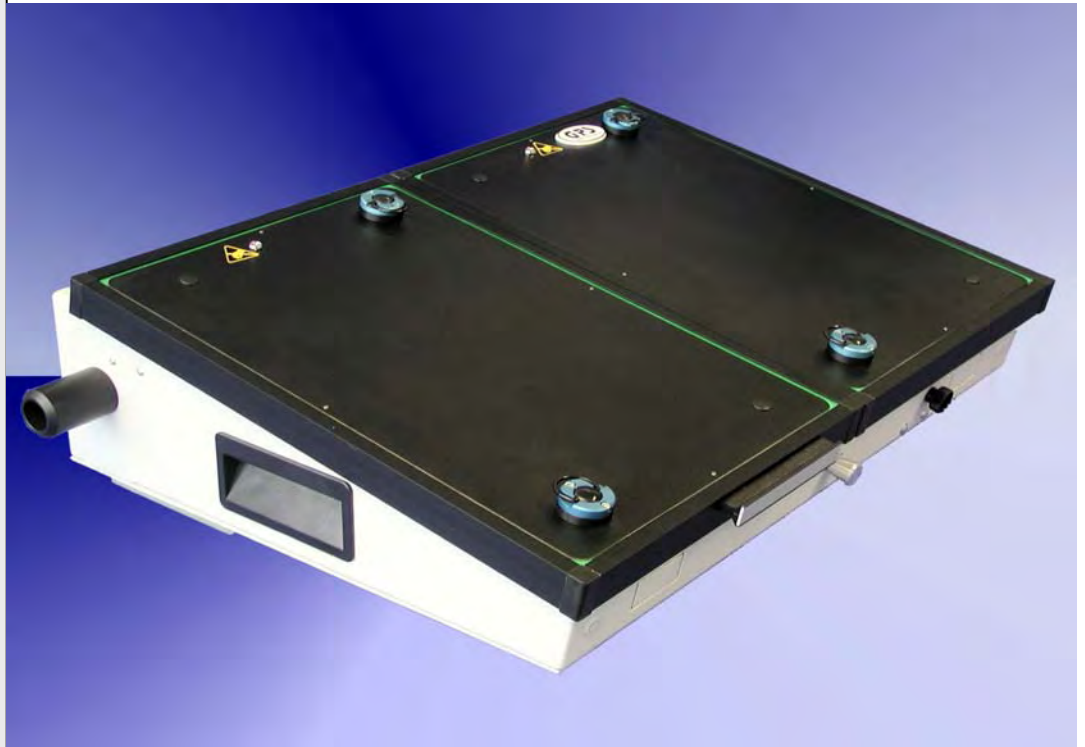


Fixture specification

- Outside dimensions : 640 x 440 x 160 mm
- Max. working area : 440 x 280 mm
- Cant for easy handling
- Stable quality through the case and the aluminium frame
- PAG - plug and guide system
- Moving plate made of ESD plate material
- Probe plate made of G10 (C-P quality) material, 10mm
- GPS ESD sealing of vacuum chamber
- Rounded edges (for a better intake)
- Protecting errector standard
- Case can be opened during the debugging
- Outpourings intended for the use of a counter
- ESD leakage probes standard
- Moving plate 8 mm (optional)
- Interface must be ordered separately
- Short delivery time

[return to table of contents](#)

ZE-003-2100

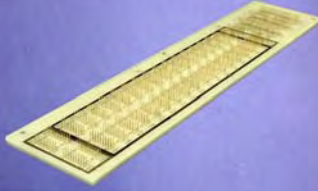
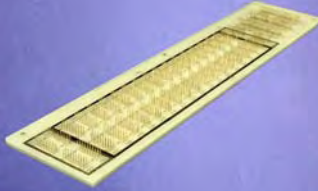



Fixture specification

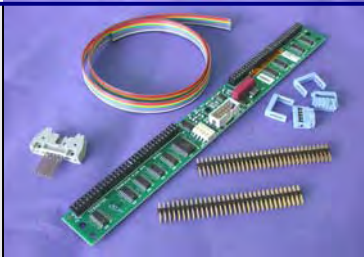

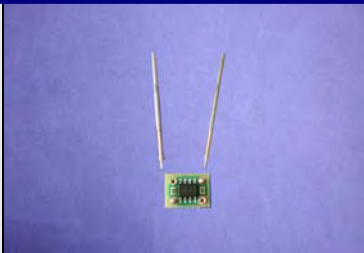
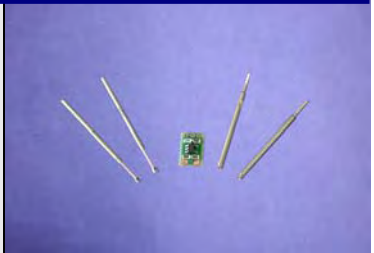
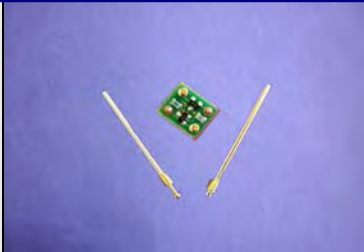
- Outside dimensions : 640 x 440 x 160 mm
- Max. working area : 2x (220 x 275 mm)
- Cant for easy handling
- Stable quality through the case and the aluminium frame
- PAG - plug and guide system
- Moving plate made of ESD plate material
- Probe plate made of G10 (C-P quality) material, 10mm
- GPS ESD sealing of vacuum chamber
- Rounded edges (for a better intake)
- Protecting errector standard
- Case can be opened during the debugging
- Outpourings intended for the use of a counter
- ESD leakage probes standard
- Moving plate 8 mm (optional)
- Interface must be ordered separately
- Short delivery time

[return to table of contents](#)








Accessories for ZE-003-1100

<p>Specification: Interface panel small, with 320 pins and screen printing</p> <p>Order number:</p>	 <p>ZE-800-1</p>	<p>Specification: Interface panel medium, with 640 pins and screen printing</p> <p>Order number:</p>	 <p>ZE-800-2</p>
<p>Specification: Interface panel large, with 1024 pins and screen printing</p> <p>Order number:</p>	 <p>ZE-800-3</p>		
<p style="text-align: right;">return to table of contents</p>			

FS-MB to TJ-KIT

<p>Specification: Multiplex-Board (MUX-Board), connector and cable incl.</p> <p>Order number:</p>	 <p>FS-MB</p>	<p>Specification: Opens-Change-Box Box with connector and PAG-arrester bolts, without FS-MB and wiring</p> <p>Order number:</p>	 <p>OWB-FS</p>
<p>Specification: Sensor electronic probes incl.</p> <p>Order number:</p>	 <p>TJ-BB</p>	<p>Specification: Sensor electronic for C-Test , probes and sockets incl.</p> <p>Order number:</p>	 <p>TJ-BB-C</p>
<p>Specification: Sensor electronic, special spring probes incl.</p> <p>Order number:</p>	 <p>TJ-KIT</p>		
			<p>return to table of contents</p>

TJ-SP-SO 14/16 to TJ-SP-CG

<p>Specification: TestJet sensor plate matching with SO14/16-Case Dimension: 11 x 9,5 mm</p> <p>Order number:</p>	 <p>TJ-SP-SO 14/16</p>	<p>Specification: TestJet sensor plate matching with SO20-Case Dimension: 14 x 10,5 mm</p> <p>Order number:</p>	 <p>TJ-SO20</p>
<p>Specification: TestJet sensor plate Dimension: 30,5 x 30,5 mm</p> <p>Order number:</p>	 <p>TJ-SP-1.2</p>	<p>Specification: TestJet sensor plate Dimension: 63,5 x 63,5 mm</p> <p>Order number:</p>	 <p>TJ-SP-2.5</p>
<p>Specification: TestJet sensor plate for connectors Dimension: 155 x 12 mm</p> <p>Order number:</p>	 <p>TJ-SP-Conn</p>	<p>Specification: TestJet sensor plate large, for C-Test Dimension: 7,7 x 5,0 mm</p> <p>Order number:</p>	 <p>TJ-SP-CG</p>
<p>Specification: TestJet sensor plate small, for C-Test Dimension: 6,3 x 3,7 mm</p> <p>Order number:</p>	 <p>TJ-SP-CK</p>		<p>return to table of contents</p>

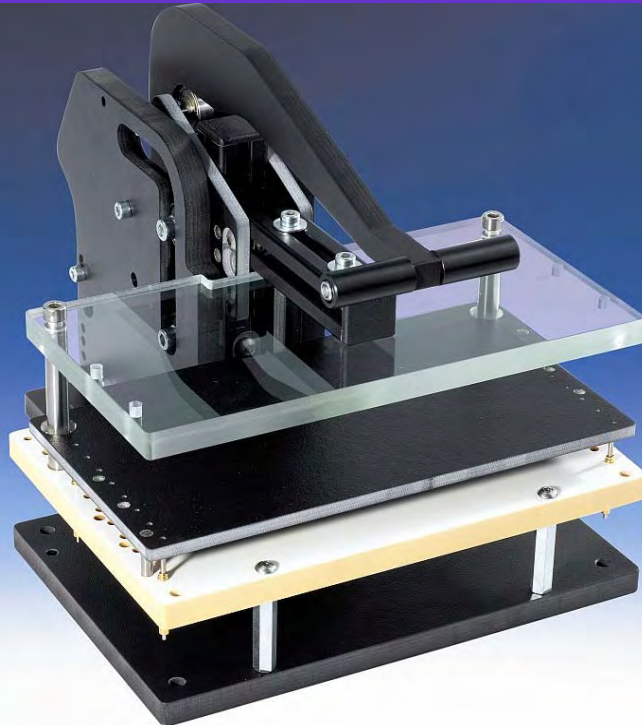
9. Changeable Fixture

- [1. Mechanical Fixture Serie 1200](#)
- [2. Mechanical Fixture Serie 1500](#)
- [3. Mechanical Fixture Serie 1600](#)
- [4. Mechanical Fixture Serie 1800](#)
- [5. Pneumatical Fixture Serie 3000](#)
- [6. HF Pneumatic Fixture Serie 4000](#)
- [7. Mech. Changeable Fixture Serie 5000](#)
- [8. Vacuum Changeable Fixture Serie 500](#)
- [9. Storage Box 1500 3000](#)

Changeable Units

Mechanical Fixture

WA-M-12xx



Technical description

- small changeable fixture with parallel mechanical pressure unit
- it can be opened during the debugging (1250/1251)
- interface with 192 contacts (1250/1251)
- lower-cost because of the changeable unit
- individual upgrading through the unit assembly system
- customer specified interface
- fixture is suitable for about 300N (200 probes with 1,5N spring force)
- changeable plates / raise of case are not included in the fixture; order separately
- optional locking device with magnet

Fixture:	Outside dimensions:	Working area:	Probe plate:	Moving plate:	Holddown plate:	Holddown element:
WA-M-1200	250x190x190mm	160x100mm	WA-KTP-100	WA-PAP-100	WA-AP-100	WA-AE-100
WA-M-1250	490x330x220mm	320x100mm	WA-KTP-1250	WA-PAP-1250	WA-AP-1250	WA-AE-1250
WA-M-1251	490x330x220mm	160x100mm	WA-KTP-1251	WA-PAP-100	WA-AP-100	WA-AE-100
WA-M-1251-T	490x330x220mm	2x 160x100mm	2x WA-KTP-1251	2x WA-PAP-100	2x WA-AP-100	2x WA-AE-100

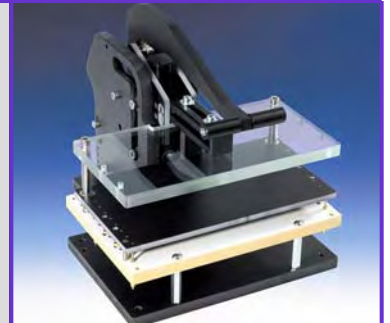
Changeable Units

Mechanical Fixture

Small fixture with parallel closing pressure unit

max. working area: 160x100mm,
outside dimensions: 250x190x190mm

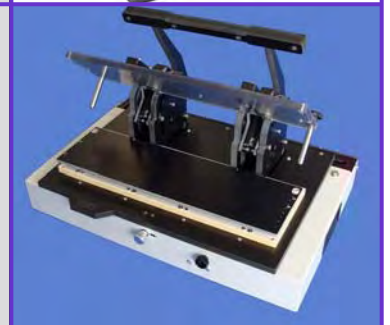
Order number: **WA-M-1200**



Small fixture with parallel closing pressure unit

max. working area: 320x100mm,
outside dimensions: 490x330x220mm

Order number: **WA-M-1250**



Small fixture with parallel closing pressure unit

max. working area: 160x100mm,
outside dimensions: 490x330x220mm

Order number: **WA-M-1251**



Small fixture with parallel closing pressure unit

max. working area: 2x 160x100mm,
outside dimensions: 490x330x220mm

Order number: **WA-M-1251-T**



Probe plate

interface for 2 Sub-D-connectors (9 to 25pole)
(not included)
max. working area: 160x100mm,
outside dimensions: 190x130mm, approx. 10mm thick

Order number: **WA-KTP-100**



Changeable Units

Mechanical Fixture

Probe plate

incl. internal 192pol. interface,
max. working area: 320x100mm
outside dimensions: 380x130mm, approx. 10mm thick

Order number: **WA-KTP-1250**



Probe plate

incl. internal 96pol. interface,
max. working area: 160x100mm
outside dimensions: 190x130mm, approx. 10mm thick

Order number: **WA-KTP-1251**



Moving plate

made of EGS-AS; spring-probes for UUT, with 8 distance stoppers (3mm)
max. working area: 160x100mm;
outside dimensions: 190x110mm, approx. 5mm thick

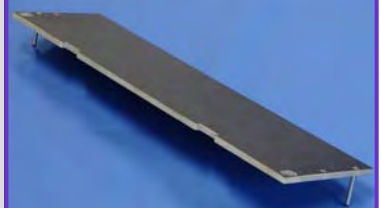
Order number: **WA-PAP-100**



Moving plate

made of EGS-AS; spring-probes for UUT, with 8 distance stoppers (3mm)
max. working area: 320x100mm;
outside dimensions: 380x110mm, approx. 5mm thick

Order number: **WA-PAP-1250**



Holddown plate

made of ESD acrylic plastic, approx. 10mm thick; inkl. screws,
max. working area : 160x100mm,
outside dimensions: 190x110mm

Order number: **WA-AP-100**



Changeable Units

Mechanical Fixture

Holddown plate

made of ESD acrylic plastic, approx. 10mm thick; inkl. screws,
max. working area : 320x100mm,
outside dimensions: 380x110mm

Order number: **WA-AP-1250**



Holddown element

crosshead with 4 height-adjustable pushdown fingers,
mounting material incl.

Order number: **WA-AE-100**



Holddown element

crosshead with 4 height-adjustable pushdown fingers,
mounting material incl.

Order number: **WA-AE-1250**



Tooling Pins (Set)

2 Pins for holddown plate and moving plate;
(use only for probing on the top side)

Order number: **WA-FB-70**



Spring probes for UUT 3N

sockets incl., spring force 3N; extended height: 13,3mm
point style: 4mm

Order number: **WA-GPA-13-3N**



Changeable Units

Mechanical Fixture

Spring probes for UUT 6N

sockets incl., spring force 6N; extended height 13,3mm
point style: 4mm

Order number: **WA-GPA-13-6N**



Spring probes for UUT 3N

sockets incl., spring force 3N; extended height 13,3mm
point style: 3mm (plastic)

Order number: **WA-GPA-13-3N-K**



Spring probes for UUT 6N

sockets incl., spring force 6N; extended height 13,3mm
point style: 3mm (plastic)

Order number: **WA-GPA-13-6N-K**



Locking device

with holding magnet (24 V DC)

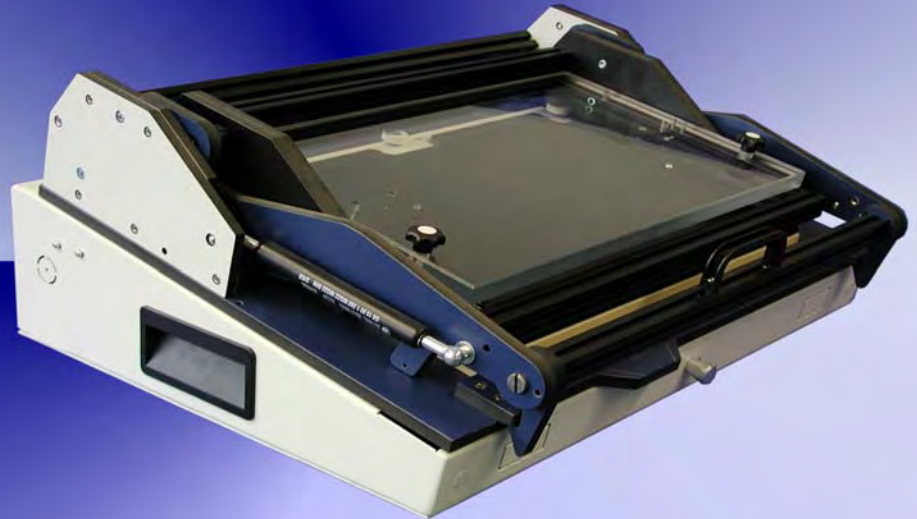
Order number: **WA-M-1200-VM**



Changeable Units

Mechanical Fixture

WA-M-15xx



Technical description

- parallel mechanical pressure unit
- lower-cost because of the changeable unit
- individual upgrading through the unit assembly system
- interface with contacts or probe-interface
- fixture is suitable for about 300N (200 probes with 1,5N spring force)
- customer specified interface
- case can be opened during the debugging
- changeable plates / raise of case are not included in the fixture; order separately
- various accessoires

Fixture:	Outside dimensions:	Working area:	Probe plate:	Moving plate:	Holddown plate:	Holddown element:
WA-M-1500	530x450x240mm	350x230mm	WA-KTP-400	WA-PAP-400	WA-AP-400	WA-AE-400
WA-M-1500-I	530x450x240mm	330x180mm	WA-KTP-400-I	WA-PAP-400-I	WA-AP-400	WA-AE-400
WA-M-1501	280x450x240mm	205x110mm	WA-KTP-140	WA-PAP-140	WA-AP-140	WA-AE-140
WA-M-1501-I	280x450x240mm	180x110mm	WA-KTP-140-I	WA-PAP-140-I	WA-AP-140	WA-AE-140
WA-M-1501-I-T	560x450x240mm	2x 180x110mm	2x WA-KTP-140-I	2x WA-PAP-140-I	2x WA-AP-140	2x WA-AE-140
WA-M-1501-T	560x450x240mm	2x 205x110mm	2x WA-KTP-140	2x WA-PAP-140	2x WA-AP-140	2x WA-AE-140
WA-M-1510	740x510x250mm	520x295mm	WA-KTP-410	WA-PAP-410	WA-AP-410	WA-AE-410
WA-M-1510-I	740x510x250mm	520x250mm	WA-KTP-410-I	WA-PAP-410-I	WA-AP-410	WA-AE-410
WA-M-1511-I-T	740x510x250mm	2x 260x160mm	2x WA-KTP-210-I	2x WA-PAP-210-I	2x WA-AP-210	2x WA-AE-210
WA-M-1511-T	740x510x250mm	2x 295x180mm	2x WA-KTP-210	2x WA-PAP-210	2x WA-AP-210	2x WA-AE-210

Büro Süd
Waldstraße 4
D-82239 Alling
Telefon +49-8141-52 747-0
Telefax +49-8141-52 747-47

Büro Rhein Main
Ferdinand-Porsche-Str. 17
D-63500 Seligenstadt
Telefon +49-6182-89 37-0
Telefax +49-6182-89 37-37

Büro Westfalen
Steigerring 25
D-59075 Hamm
Telefon +49-2381-99 110-0
Telefax +49-2381-99 110-99

Schweiz
Täferstr. 2a
CH-5405 Baden-Dättwil
Telefon +41-56-483 25 80
Telefax +41-56-483 25 89

Ungarn
Zrinyi M. u. 105
HU-8900 Zalaegerszeg
Telefon +36-92 510-740
Telefax +36-92 510-741

Internet
www.gps-prueftechnik.de

E-Mail:
info@gps-prueftechnik.de

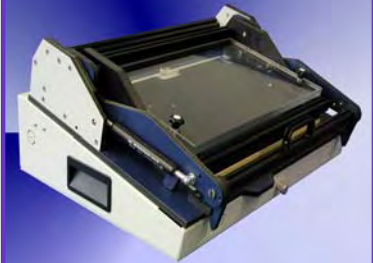
Changeable Units

Mechanical Fixture

Fixture with parallel closing pressure unit

incl. 192pole internal interface
max. working area: 350x230 mm

Order number: **WA-M-1500**



Fixture with parallel closing pressure unit for FKS-IF

incl. mounting support for internal interface with max. 1020Pins
max. working area: 330x180mm

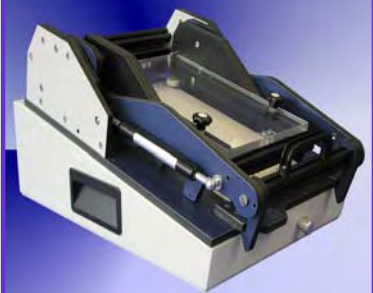
Order number: **WA-M-1500-I**



Fixture with parallel closing pressure unit

incl. 96 pole internal interface
max. working area: 205x110 mm

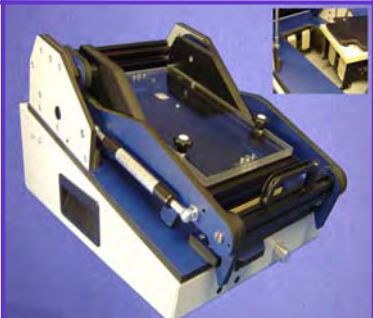
Order number: **WA-M-1501**



Fixture with parallel closing pressure unit for FKS-IF

incl. mounting support for internal interface with max. 510Pins
max. working area: 180x110 mm

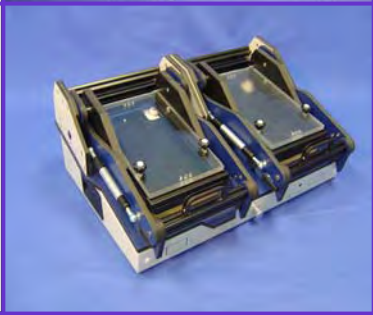
Order number: **WA-M-1501-I**



Mechanical Tandem Fixture for FKS-IF

with two separate parallel mechanical pressure units WA-M-1501
max. working area: 2x 180x110mm;
incl. mounting supports for int. Interface with max. 510Pins

Order number: **WA-M-1501-I-T**



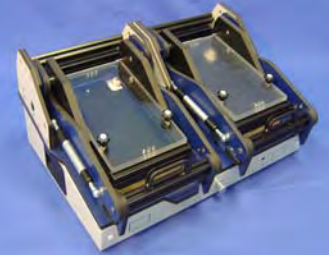
Changeable Units

Mechanical Fixture

Mechanical Tandem Fixture

with two separate parallel mechanical pressure units WA-M-1501
max. working area: 2x 205x110mm;
incl. 96 pole internal interface

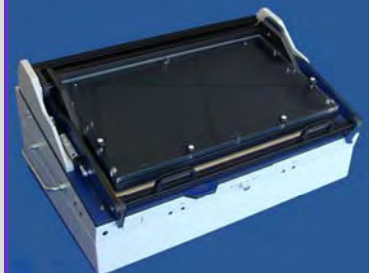
Order number: **WA-M-1501-T**



Fixture with parallel closing pressure unit

incl. 4x96pole internal interface
max. working area: 520x295 mm
outside dimensions: 740x510x250mm

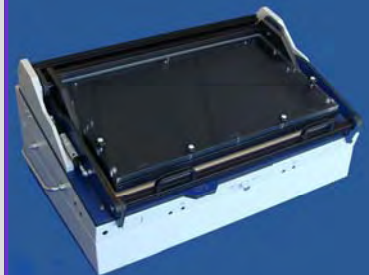
Order number: **WA-M-1510**



Fixture with parallel closing pressure unit for FKS-IF

incl. mounting support for internal interface with 1020Pins,
expandable to max. 2040Pins
max. working area: 520x250mm;
outside dimensions: 740x510x250mm

Order number: **WA-M-1510-I**



Mechanical Tandem Fixture for FKS-IF

with two separate parallel mechanical pressure units WA-M-1511,
outside dimensions: 740x510x250mm
max. working area: 2x 260x160mm;
incl. mounting supports for int. Interface with max. 512Pins

Order number: **WA-M-1511-I-T**



Mechanical Tandem Fixture

with two separate parallel mechanical pressure units WA-M-1511
outside dimensions: 740x510x250mm;
max. working area: 2x 295x180mm;
incl. 96 pole internal interface

Order number: **WA-M-1511-T**



Changeable Units

Mechanical Fixture

Probe plate

CEM1; incl. 192pole internal interface
max. working area: 350x230mm,
outside dimensions: 400x270mm, approx. 10mm thick

Order number: **WA-KTP-400**



Probe plate for FKS-IF

incl. mounting support for internal interface with max. 1020Pins
max. working area: 330x180mm

Order number: **WA-KTP-400-I**



Probe plate

incl. 96pole internal interface
max. working area: 205x110mm

Order number: **WA-KTP-140**



Probe plate for FKS-IF

incl. mounting support for internal interface with max. 510Pins
max. working area: 180x110 mm

Order number: **WA-KTP-140-I**



Probe plate

CEM1; incl. 4x96pole internal interface
max. working area. 520x295mm
outside dimensions: 570x335mm, approx. 10mm thick

Order number: **WA-KTP-410**



Changeable Units

Mechanical Fixture

Probe plate for FKS-IF

for WA-M-1510-I / WA-P-3010-I; incl. mounting support
for internal interface with 1020Pins, expandable to 2040Pins
max. working area: 520x250mm;
outside dimensions: 570x335mm

Order number: **WA-KTP-410-I**



Probe plate for FKS-IF

incl. mounting support for internal interface with 510Pins
max. working area: 260x160 mm

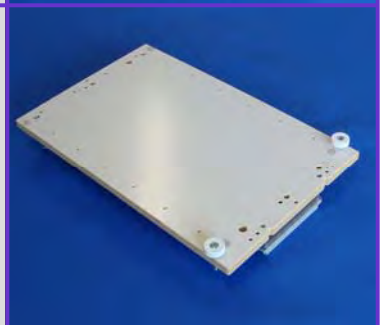
Order number: **WA-KTP-210-I**



Probe plate

incl. 96pole internal interface
max. working area: 295x180mm;
outside dimensions: 336x209mm

Order number: **WA-KTP-210**



Moving plate

spring-mounted, 6 spring-probes for UUT incl.,
with distance stoppers (3mm)
max. working area: 350x230mm,
outside dimensions: 400x254mm, approx. 5mm thick

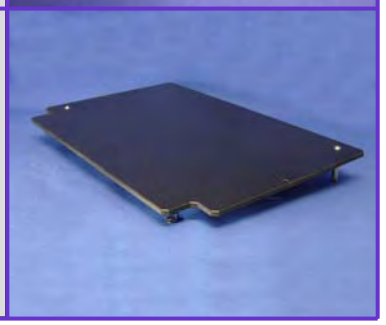
Order number: **WA-PAP-400**



Moving plate

made of EGS-AS; incl. 10 distance stoppers (3mm)
max. working area: 330x180mm,
outside dimensions: 400x270mm, approx. 5mm thick

Order number: **WA-PAP-400-I**



Changeable Units

Mechanical Fixture

Moving plate

made of EGS-AS; 6 spring-probes for UUT incl.,
with distance stoppers (3mm)
max. working area: 205x110 mm;
outside dimensions: 270x140mm, approx. 5mm thick

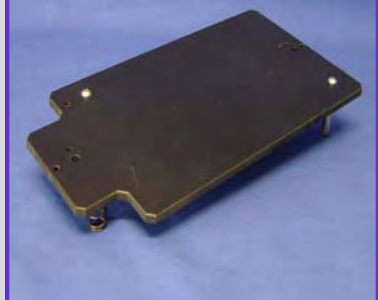
Order number: **WA-PAP-140**



Moving plate

made of EGS-AS; incl. 10 distance stoppers (3mm)
max. working area: 180x110mm,
outside dimensions: 270x140mm, approx. 5mm thick

Order number: **WA-PAP-140-I**



Moving plate

approx. 5mm thick, 8 spring-probes for UUT incl.
and 15 distance stoppers 02 (3mm), made of EGS-619-AS-COMP Var. 2,
max. product area: 520x295mm,
outside dimensions: 570x331mm

Order number: **WA-PAP-410**



Moving plate

for WA-M-1510-I / WA-P-3010-I; made of EGS-AS
incl. 10 distance stoppers (3mm)
max. working area: 520x250 mm;
outside dimensions : 570x335mm; approx. 5mm thick

Order number: **WA-PAP-410-I**



Moving plate

made of EGS-AS; incl. 10 distance stoppers (3mm)
and 4 spring probes for UUT
max. working area: 260x160 mm;
outside dimensions: 336x209mm, approx. 5mm thick

Order number: **WA-PAP-210-I**



Changeable Units

Mechanical Fixture

Moving plate

made of EGS-AS; 6 spring-probes for UUT incl.
and 10 distance stoppers (3mm)
max. working area: 295x180mm;
outside dimensions: 332x209mm, approx. 5mm thick

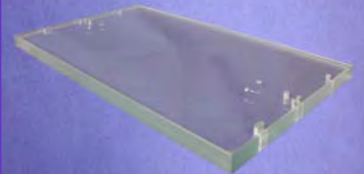
Order number: **WA-PAP-210**



Holddown plate

made of ESD acrylic plastic, approx. 15mm thick,
outside dimensions : 407x240mm
max. working area: 350x230mm; incl. 6pcs pushdown fingers M3x30 PA

Order number: **WA-AP-400**



Holddown plate

made of ESD acrylic plastic, approx. 10mm thick,
max. working area: 205x110mm;
outside dimensions: 260x158mm

Order number: **WA-AP-140**



Holddown plate

made of ESD acrylic plastic, approx. 15mm thick,
max. working area: 520x295mm;
outside dimensions : 576x330,5mm

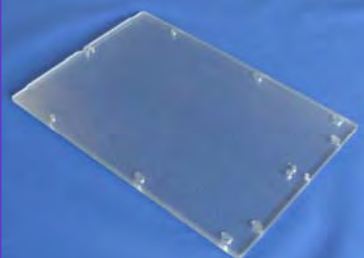
Order number: **WA-AP-410**



Holddown plate

made of ESD-PVC, approx. 10mm thick
max. working area: 295x180mm;
outside dimensions: 335x227 mm

Order number: **WA-AP-210**



Changeable Units

Mechanical Fixture

Holddown element

crosshead with 3 heigh-adjustable pushdown fingers,
mounting material incl.; length: 408mm

Order number: **WA-AE-400**



Holddown element

crosshead with 3 heigh-adjustable pushdown fingers,
mounting material incl.

Order number: **WA-AE-140**



Holddown element

crosshead with 5 heigh-adjustable pushdown fingers,
mounting material incl.; length 578mm

Order number: **WA-AE-410**



Holddown element

crosshead with 3 heigh-adjustable pushdown fingers,
mounting material incl.

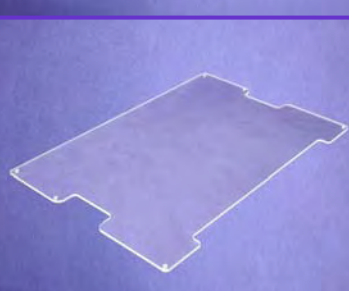
Order number: **WA-AE-210**



Protecting plate

for WA-KTP-400
approx. 3mm thick, incl. fixing material
outside dimensions: 370x250mm

Order number: **WA-HSP-400**



Changeable Units

Mechanical Fixture

Protecting plate

for WA-KTP-140
acrylic plastic, approx. 3mm thick; incl. fixing material
outside dimensions: 239x112mm

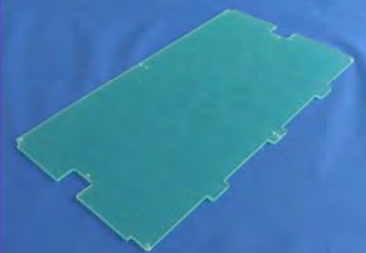
Order number: **WA-HSP-140**



Protecting plate

for WA-KTP-410
approx. 3mm thick, incl. fixing material
outside dimensions: 543x316mm

Order number: **WA-HSP-410**



Protecting plate

for WA-KTP-210
acrylic plastic, approx. 3mm thick; incl. fixing material
outside dimensions: 321x182mm

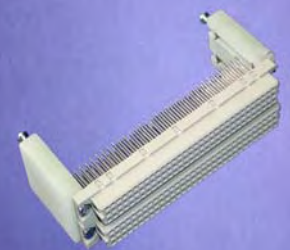
Order number: **WA-HSP-210**



Interface expansion 4x96pole Wire-Wrap

for WA-KTP-400
upgradeable, incl. fixing material

Order number: **WA-KTP-IF384**



Interface-block 170pole

with interface pins
max. 6 blocks for a WA-KTP-400-I adjustable
incl. fixing material

Order number: **WA-KTP-IF170**



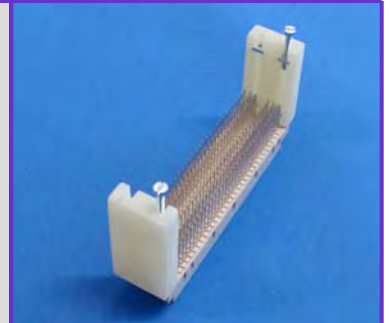
Changeable Units

Mechanical Fixture

Interface expansion 2x96pol. Wire-Wrap

for WA-KTP-140
upgradeable, incl. fixing material

Order number: **WA-KTP-IF192**



Interface expansion 4x96pole Wire-Wrap

for WA-M-1400/WA-M-1500/WA-P-3000
upgradeable, incl. fixing material

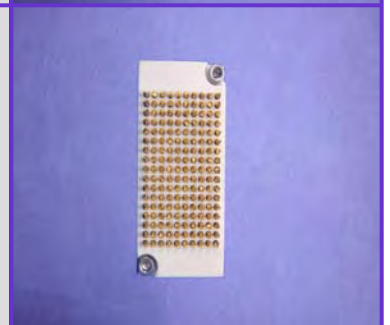
Order number: **WA-M-IF384**



Interface-block 170pole

with interface probes
max. 6 blocks for a WA-M-1500-I adjustable
incl. fixing material

Order number: **WA-M/P-IF170**



Interface expansion 2x96pol. Wire-Wrap

for WA-M-1401/WA-M-1501
upgradeable, incl. fixing material

Order number: **WA-M-IF192**



Pneumatic-interface-block 8pole

for internal interface on the probe plates WA-KTP-xxx-I
incl. fixing material

Order number: **WA-KTP-IF-PBB-8**



Changeable Units

Mechanical Fixture

Pneumatic-interface-block 8pole

for internal interface in the housing WA-M-1xxx-I or WA-P-3xxx-I
incl. fixing material

Order number: **WA-M/P-IF-PSB-8**



Interface expansion for WA-M-1510-I

for upgrading;
mounting below the base plate, for max. 3 blocks (not included);
mountable on two mounting positions

Order number: **WA-M-1510-I-203_1**



Interfac expansion for WA-KTP-140/400/410-I

for upgrading
mounting below the probe plate, for max. 3 blocks (not included);
mountable on two mounting positions

Order number: **WA-KTP-XX0-I-004**



Raise of case 90mm V2.0

for case MFG-530-Pult-Gehäuse-V1.0; aluminium,
heigh: 90mm

Order number: **MFG-530-GEHÄUSEERHÖHUNG-90**



Raise of case 250mm

for case MFG-530-Pult-Gehäuse-V1.0
heigh: 250mm

Order number: **MFG-530-GEHÄUSEERHÖHUNG-250**



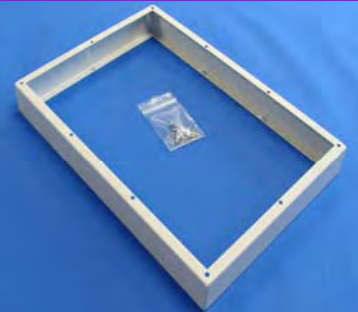
Changeable Units

Mechanical Fixture

Raise of case 45mm

for case MFG-280-PULT-GEHÄUSE-V1.0
(for WA-M-1401/1501; PA3001)

Order number: **MFG-280-GEHÄUSEERHÖHUNG**



Raise of case 90mm V1.0

for case MFG-700-Pult-V1.0; aluminium
RAL7035

Order number: **MFG-700-GEHÄUSEERHÖHUNG-90**



Start button, magnetic

for WA-M-15xx deskform
with parallel holddown mechanic-system

Order number: **WA-M-1500-MS**



Spring probes for UUT 3N

sockets incl., spring force 3N; extended height: 13,3mm
point style: 4mm

Order number: **WA-GPA-13-3N**



Spring probes for UUT 6N

sockets incl., spring force 6N; extended height 13,3mm
point style: 4mm

Order number: **WA-GPA-13-6N**



Changeable Units

Mechanical Fixture

Spring probes for UUT 3N

sockets incl., spring force 3N; extended height 13,3mm
point style: 3mm (plastic)

Order number: **WA-GPA-13-3N-K**



Spring probes for UUT 6N

sockets incl., spring force 6N; extended height 13,3mm
point style: 3mm (plastic)

Order number: **WA-GPA-13-6N-K**



Changeable Units

Mechanical Fixture

WA-M-16xx

Patented Pressure System

Applied for a patent at the Germany Patent Office under No. 20 2011 107 409.2



Technical description

- parallel mechanical pressure unit
- interface with 384 contacts or probe-interface
- lower-cost because of the changeable unit
- individual upgrading through the unit assembly system
- customer specified interface
- fixture is suitable for about 1000N (1000 probes with 1N spring force)
- case can be opened during the debugging
- changeable plates / raise of case are not included in the fixture; order separately
- various accessoires

Fixture:	Outside dimensions:	Working area:	Probe plate:	Moving plate:	Holddown plate:
WA-M-1600	530x270x450mm	350x230mm	WA-KTP-1600	WA-PAP-1600	WA-AP-1600
WA-M-1600-I	530x270x450mm	350x215mm	WA-KTP-1600-I	WA-PAP-1600	WA-AP-1600

Büro Süd
Waldstraße 4
D-82239 Alling
Telefon +49-8141-52 747-0
Telefax +49-8141-52 747-47

Büro Rhein Main
Ferdinand-Porsche-Str. 17
D-63500 Seligenstadt
Telefon +49-6182-89 37-0
Telefax +49-6182-89 37-37

Büro Westfalen
Steigerring 25
D-59075 Hamm
Telefon +49-2381-99 110-0
Telefax +49-2381-99 110-99

Schweiz
Täferstr. 2a
CH-5405 Baden-Dättwil
Telefon +41-56-483 25 80
Telefax +41-56-483 25 89

Ungarn
Zrinyi M. u. 105
HU-8900 Zalaegerszeg
Telefon +36-92 510-740
Telefax +36-92 510-741

Internet
www.gps-prueftechnik.de
E-Mail:
info@gps-prueftechnik.de

Changeable Units

Mechanical Fixture

Fixture with parallel closing pressure unit

without changeable plates,
incl. 384pole internal interface (expandable),
max. working area: 350x230mm;
outside dimensions: 530x270x450mm

Order number: **WA-M-1600**



Fixture with parallel closing pressure unit

without changeable plates,
incl. mounting support for internal interface with max. 1700Pins,
usable interface-blocks: TSI-50-USB-A-Receiver / TSI-50-16A-45-FKS
TSI-50-201 / TSI-50-PSB
max. working area: 350x215mm; outside dimensions: 530x270x450mm

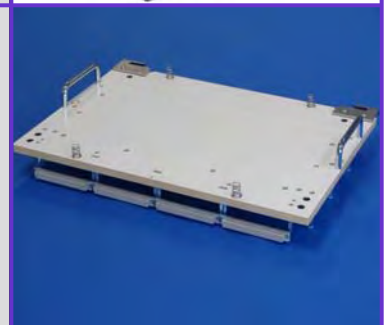
Order number: **WA-M-1600-I**



Probe plate

CEM1; incl. 384pole internal interface (expandable)
max. working area: 350x230mm;
outside dimensions: 440x320mm

Order number: **WA-KTP-1600**



Probe plate for FKS-IF

CEM1; incl. mounting support for internal interface with max. 1700Pins,
usable interface-blocks: TSI-50-USB-A-Adapter / TSI-50-16A-45-IK
TSI-50-101 / TSI-50-PBB
max. working area: 350x215mm; outside dimensions: 440x320mm

Order number: **WA-KTP-1600-I**



Moving plate

made of EGS-AS
with 8 distance stoppers (3mm)
outside dimensions: 440x320mm, ca. 5mm stark

Order number: **WA-PAP-1600**



Changeable Units

Mechanical Fixture

Holddown plate

made of ESD acrylic plastic, approx. 15mm thick
outside dimensions: 445x310mm

Order number: **WA-AP-1600**



Raise of case 90mm V2.0

for case MFG-530-Pult-Gehäuse-V1.0; aluminium,
height: 90mm

Order number: **MFG-530-GEHÄUSEERHÖHUNG-90**



Raise of case 250mm

for case MFG-530-Pult-Gehäuse-V1.0
height: 250mm

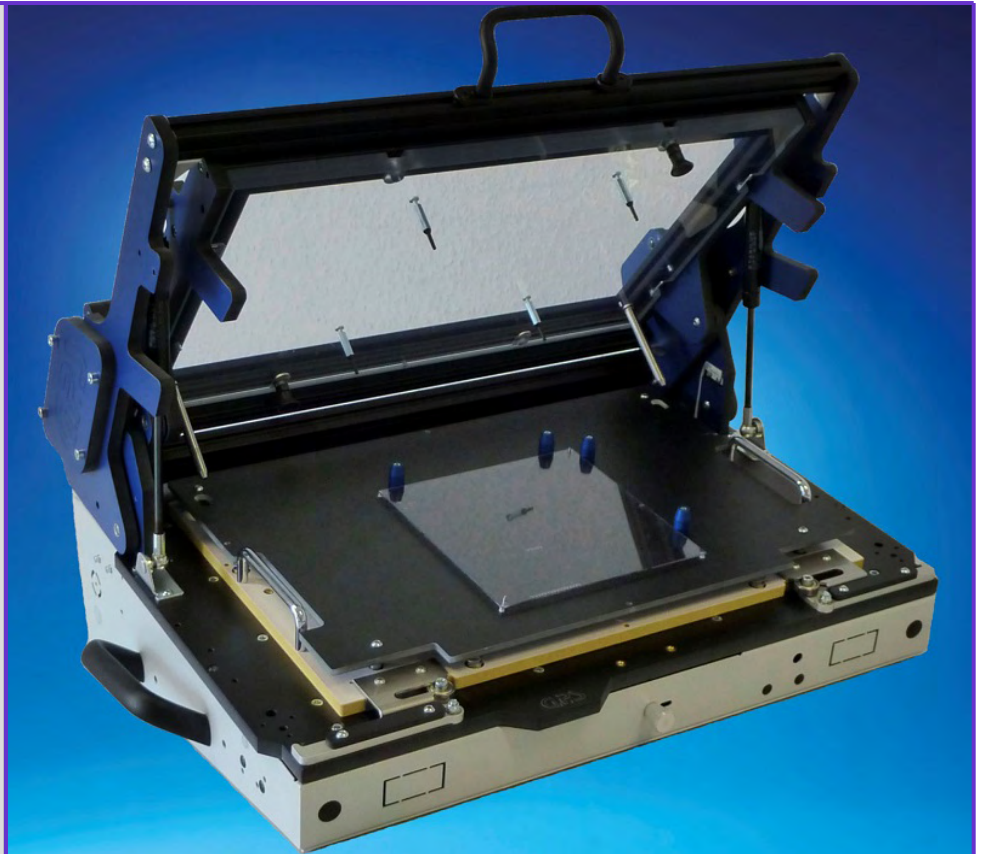
Order number: **MFG-530-GEHÄUSEERHÖHUNG-250**



Changeable Units

Mechanical Fixture

WA-M-18xx



Technical description

- parallel mechanical pressure unit very easy to handle
- interface with 384 contacts or probe-interface
- lower-cost because of the changeable unit
- individual upgrading through the unit assembly system
- customer specified interface
- fixture is suitable for about 300N (300 probes with 1N spring force)
- changeable plates like WA-M-1600
- positioning of probe plate to holddown plate automatically
- case can be opened during the debugging
- changeable plates / raise of case are not included in the fixture; order separately
- various accessoires

Fixture:	Outside dimensions:	Working area:	Probe plate:	Moving plate:	Holddown plate:
WA-M-1800	530x280x450mm	350x230mm	WA-KTP-1600	WA-PAP-1600	WA-AP-1600
WA-M-1800-I	530x280x450mm	350x215mm	WA-KTP-1600-I	WA-PAP-1600	WA-AP-1600

Büro Süd
Waldstraße 4
D-82239 Alling
Telefon +49-8141-52 747-0
Telefax +49-8141-52 747-47

Büro Rhein Main
Ferdinand-Porsche-Str. 17
D-63500 Seligenstadt
Telefon +49-6182-89 37-0
Telefax +49-6182-89 37-37

Büro Westfalen
Steigerring 25
D-59075 Hamm
Telefon +49-2381-99 110-0
Telefax +49-2381-99 110-99

Schweiz
Täferstr. 2a
CH-5405 Baden-Dättwil
Telefon +41-56-483 25 80
Telefax +41-56-483 25 89

Ungarn
Zrinyi M. u. 105
HU-8900 Zalaegerszeg
Telefon +36-92 510-740
Telefax +36-92 510-741

Internet
www.gps-prueftechnik.de
E-Mail:
info@gps-prueftechnik.de

Changeable Units

Mechanical Fixture

Fixture with parallel closing pressure unit

very easy to handle, without changeable plates,
incl. 384pole internal interface (expandable),
max. working area: 350x230mm;
outside dimensions: 530x280x450mm

Order number: **WA-M-1800**



Fixture with parallel closing pressure unit

very easy to handle, without changeable plates,
incl. mounting support for internal interface with max. 1700Pins,
usable interface-blocks: TSI-50-USB-A-Receiver / TSI-50-16A-45-FKS
TSI-50-201 / TSI-50-PSB
max. working area: 350x215mm; outside dimensions: 530x280x450mm

Order number: **WA-M-1800-I**



Probe plate

CEM1; incl. 384pole internal interface (expandable)
max. working area: 350x230mm;
outside dimensions: 440x320mm

Order number: **WA-KTP-1600**



Probe plate for FKS-IF

CEM1; incl. mounting support for internal interface with max. 1700Pins,
usable interface-blocks: TSI-50-USB-A-Adapter / TSI-50-16A-45-IK
TSI-50-101 / TSI-50-PBB
max. working area: 350x215mm; outside dimensions: 440x320mm

Order number: **WA-KTP-1600-I**



Moving plate

made of EGS-AS
with 8 distance stoppers (3mm)
outside dimensions: 440x320mm, ca. 5mm stark

Order number: **WA-PAP-1600**



Changeable Units

Mechanical Fixture

Holddown plate

made of ESD acrylic plastic, approx. 15mm thick
outside dimensions: 445x310mm

Order number: **WA-AP-1600**



Raise of case 90mm V2.0

for case MFG-530-Pult-Gehäuse-V1.0; aluminium,
height: 90mm

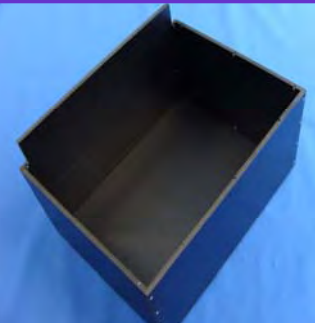
Order number: **MFG-530-GEHÄUSEERHÖHUNG-90**



Raise of case 250mm

for case MFG-530-Pult-Gehäuse-V1.0
height: 250mm

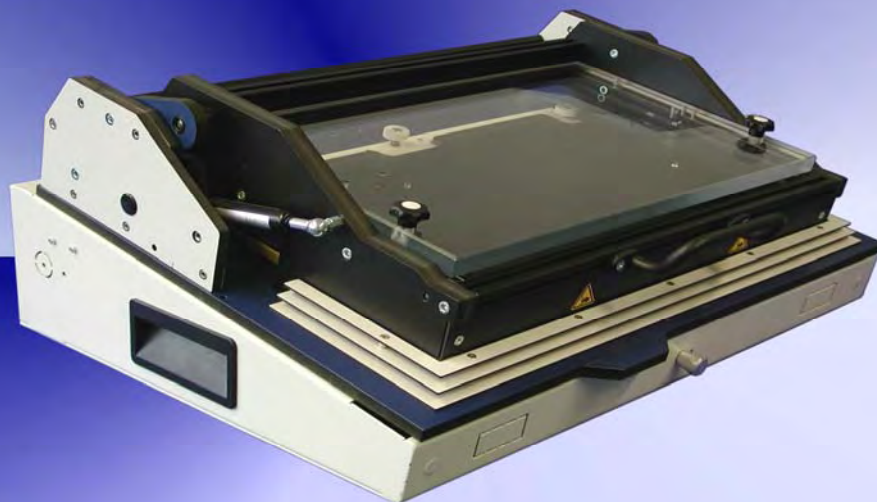
Order number: **MFG-530-GEHÄUSEERHÖHUNG-250**



Changeable Units

Pneumatical Fixture

WA-P-30xx



Technical description

- parallel pneumatical pressure unit
- lower-cost and individual because of the changeable unit
- no effort because of the dual pneumatical drivesystem (24V; 6bar)
- signal for the start by pushing down the pressure unit
- check of the contacting position (optional)
- interface with contacts or probe-interface
- fixture is suitable for about 600N (400 probes with 1,5N spring force)
- customer specified interface
- case can be opened during the debugging
- changeable plates / raise of case are not included in the fixture; order separately
- various accessoires

Fixture:	Outside dimensions:	Working area:	Probe plate:	Moving plate:	Holddown plate:
WA-P-3000	530x450x240mm	350x230mm	WA-KTP-400	WA-PAP-400	WA-AP-400
WA-P-3000-I	530x450x240mm	330x180mm	WA-KTP-400-I	WA-PAP-400-I	WA-AP-400
WA-P-3001	280x450x240mm	205x110mm	WA-KTP-140	WA-PAP-140	WA-AP-140
WA-P-3001-I	280x450x240mm	180x110mm	WA-KTP-140-I	WA-PAP-140-I	WA-AP-140
WA-P-3001-I-T	560x450x240mm	2x 180x110mm	2x WA-KTP-140-I	2x WA-PAP-140-I	2x WA-AP-140
WA-P-3001-T	560x450x240mm	2x 205x110mm	2x WA-KTP-140	2x WA-PAP-140	2x WA-AP-140
WA-P-3010	740x510x250mm	520x295mm	WA-KTP-410	WA-PAP-410	WA-AP-410
WA-P-3010-I	740x510x250mm	520x250mm	WA-KTP-410-I	WA-PAP-410-I	WA-AP-410
WA-P-3011-I-T	740x510x250mm	2x 260x160mm	2x WA-KTP-210-I	2x WA-PAP-210-I	2x WA-AP-210
WA-P-3011-T	740x510x250mm	2x 295x180mm	2x WA-KTP-210	2x WA-PAP-210	2x WA-AP-210

Büro Süd
Waldstraße 4
D-82239 Alling
Telefon +49-8141-52 747-0
Telefax +49-8141-52 747-47

Büro Rhein Main
Ferdinand-Porsche-Str. 17
D-63500 Seligenstadt
Telefon +49-6182-89 37-0
Telefax +49-6182-89 37-37

Büro Westfalen
Steiggerring 25
D-59075 Hamm
Telefon +49-2381-99 110-0
Telefax +49-2381-99 110-99

Schweiz
Täferstr. 2a
CH-5405 Baden-Dättwil
Telefon +41-56-483 25 80
Telefax +41-56-483 25 89

Ungarn
Zrínyi M. u. 105
HU-8900 Zalaegerszeg
Telefon +36-92 510-740
Telefax +36-92 510-741

Internet
www.gps-prueftechnik.de
E-Mail:
info@gps-prueftechnik.de

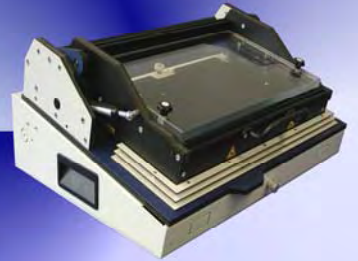
Changeable Units

Pneumatically Operated Fixtures

Fixture with parallel closing pressure unit

incl. 192pole internal interface
max. working area: 350x230 mm

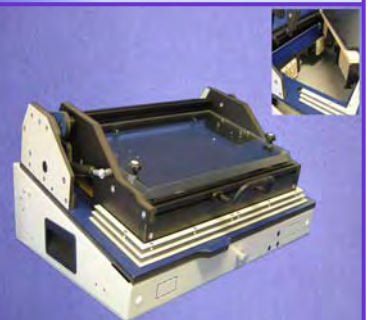
Order number: **WA-P-3000**



Fixture with parallel closing pressure unit for FKS-IF

incl. mounting support for internal interface with max. 1020Pins
max. working area: 330x180mm

Order number: **WA-P-3000-I**



Fixture with parallel closing pressure unit

incl. 96pole internal interface
max. working area: 205x110 mm

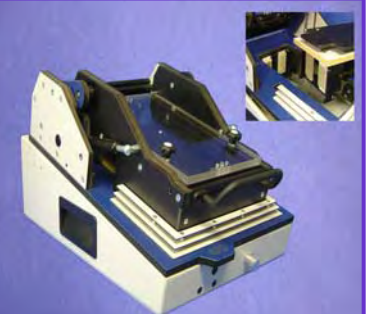
Order number: **WA-P-3001**



Fixture with parallel closing pressure unit for FKS-IF

incl. mounting support for internal interface with max. 510Pins
max. working area: 180x110mm

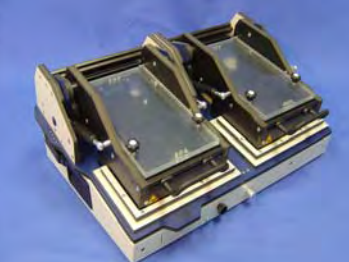
Order number: **WA-P-3001-I**



Tandem Fixture with parallel closing pressure unit for FKS-IF

with two separate parallel pneumatically operated pressure units WA-P-3001
max. working area: 2x 180x110mm;
incl. mounting supports for int. Interface with max. 510Pins

Order number: **WA-P-3001-I-T**



Changeable Units

Pneumatically Operated Fixtures

Tandem Fixture with parallel closing pressure unit

with two separate parallel pneumatical pressure units WA-P-3001
max. working area: 2x 205x110mm,
incl. 2x 96 pole internal interface

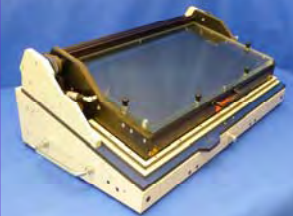
Order number: **WA-P-3001-T**



Fixture with parallel closing pressure unit

incl. 4x96pole internal interface
max. working area: 520x295 mm
outside dimensions: 740x510x250mm

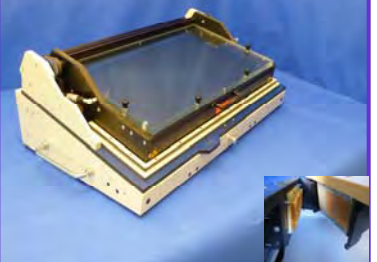
Order number: **WA-P-3010**



Fixture with parallel closing pressure unit for FKS-IF

incl. mounting support for internal interface with 1020Pins,
expandable to max. 2040Pins
max. working area: 520x250mm
outside dimensions: 740x510x250mm

Order number: **WA-P-3010-I**



Tandem Fixture with parallel closing pressure unit for FKS-IF

with two separate parallel pneumatical pressure units WA-P-3011,
outside dimensions: 740x510x250mm
max. working area: 2x 260x160mm;
incl. mounting supports for int. Interface with max. 510Pins

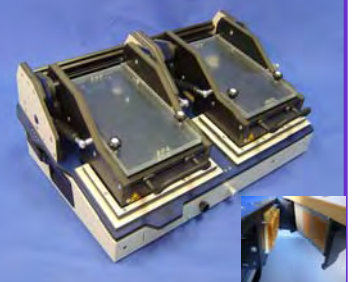
Order number: **WA-P-3011-I-T**



Tandem Fixture with parallel closing pressure unit

with two separate parallel pneumatical pressure units WA-P-3011
outside dimensions: 740x510x250mm;
max. working area: 2x 295x180mm;
incl. 96 pole internal interface

Order number: **WA-P-3011-T**



Changeable Units

Pneumatically Fixture

Probe plate

CEM1; incl. 192pole internal interface
max. working area: 350x230mm,
outside dimensions: 400x270mm, approx. 10mm thick

Order number: **WA-KTP-400**



Probe plate for FKS-IF

incl. mounting support for internal interface with max. 1020Pins
max. working area: 330x180mm

Order number: **WA-KTP-400-I**



Probe plate

incl. 96pole internal interface
max. working area: 205x110mm

Order number: **WA-KTP-140**



Probe plate for FKS-IF

incl. mounting support for internal interface with max. 510Pins
max. working area: 180x110 mm

Order number: **WA-KTP-140-I**



Probe plate

CEM1; incl. 4x96pole internal interface
max. working area. 520x295mm
outside dimensions: 570x335mm, approx. 10mm thick

Order number: **WA-KTP-410**



Changeable Units

Pneumatical Fixture

Probe plate for FKS-IF

for WA-M-1510-I / WA-P-3010-I; incl. mounting support
for internal interface with 1020Pins, expandable to 2040Pins
max. working area: 520x250mm;
outside dimensions: 570x335mm

Order number: **WA-KTP-410-I**



Probe plate for FKS-IF

incl. mounting support for internal interface with 510Pins
max. working area: 260x160 mm

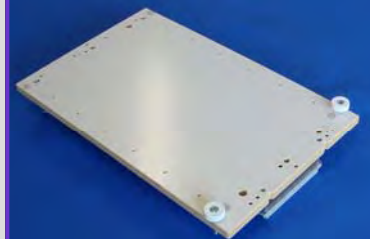
Order number: **WA-KTP-210-I**



Probe plate

incl. 96pole internal interface
max. working area: 295x180mm;
outside dimensions: 336x209mm

Order number: **WA-KTP-210**



Moving plate

spring-mounted, 6 spring-probes for UUT incl.,
with distance stoppers (3mm)
max. working area: 350x230mm,
outside dimensions: 400x254mm, approx. 5mm thick

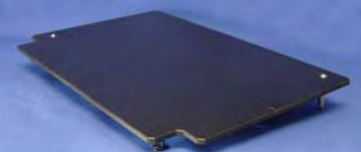
Order number: **WA-PAP-400**



Moving plate

made of EGS-AS; incl. 10 distance stoppers (3mm)
max. working area: 330x180mm,
outside dimensions: 400x270mm, approx. 5mm thick

Order number: **WA-PAP-400-I**



Changeable Units

Pneumatical Fixture

Moving plate

made of EGS-AS; 6 spring-probes for UUT incl.,
with distance stoppers (3mm)
max. working area: 205x110 mm;
outside dimensions: 270x140mm, approx. 5mm thick

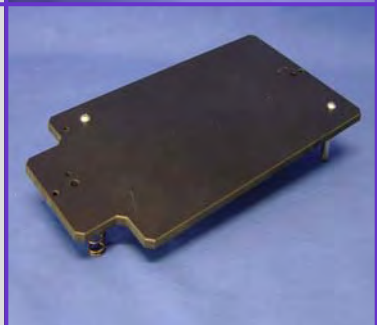
Order number: **WA-PAP-140**



Moving plate

made of EGS-AS; incl. 10 distance stoppers (3mm)
max. working area: 180x110mm,
outside dimensions: 270x140mm, approx. 5mm thick

Order number: **WA-PAP-140-I**



Moving plate

approx. 5mm thick, 8 spring-probes for UUT incl.
and 15 distance stoppers 02 (3mm), made of EGS-619-AS-COMP Var. 2,
max. product area: 520x295mm,
outside dimensions: 570x331mm

Order number: **WA-PAP-410**



Moving plate

for WA-M-1510-I / WA-P-3010-I; made of EGS-AS
incl. 10 distance stoppers (3mm)
max. working area: 520x250 mm;
outside dimensions : 570x335mm; approx. 5mm thick

Order number: **WA-PAP-410-I**



Moving plate

made of EGS-AS; incl. 10 distance stoppers (3mm)
and 4 spring probes for UUT
max. working area: 260x160 mm;
outside dimensions: 336x209mm, approx. 5mm thick

Order number: **WA-PAP-210-I**



Changeable Units

Pneumatically Fixture

Moving plate

made of EGS-AS; 6 spring-probes for UUT incl.
and 10 distance stoppers (3mm)
max. working area: 295x180mm;
outside dimensions: 332x209mm, approx. 5mm thick

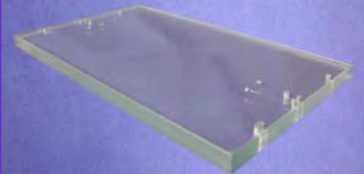
Order number: **WA-PAP-210**



Holddown plate

made of ESD acrylic plastic, approx. 15mm thick,
outside dimensions : 407x240mm
max. working area: 350x230mm; incl. 6pcs pushdown fingers M3x30 PA

Order number: **WA-AP-400**



Holddown plate

made of ESD acrylic plastic, approx. 10mm thick,
max. working area: 205x110mm;
outside dimensions: 260x158mm

Order number: **WA-AP-140**



Holddown plate

made of ESD acrylic plastic, approx. 15mm thick,
max. working area: 520x295mm;
outside dimensions : 576x330,5mm

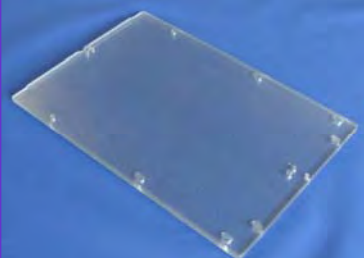
Order number: **WA-AP-410**



Holddown plate

made of ESD-PVC, approx. 10mm thick
max. working area: 295x180mm;
outside dimensions: 335x227 mm

Order number: **WA-AP-210**



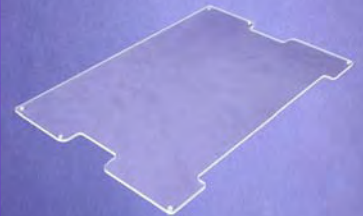
Changeable Units

Pneumatical Fixture

Protecting plate

for WA-KTP-400
approx. 3mm thick, incl. fixing material
outside dimensions: 370x250mm

Order number: **WA-HSP-400**



Protecting plate

for WA-KTP-140
acrylic plastic, approx. 3mm thick; incl. fixing material
outside dimensions: 239x112mm

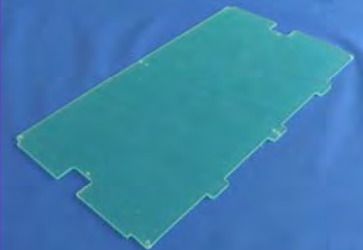
Order number: **WA-HSP-140**



Protecting plate

for WA-KTP-410
approx. 3mm thick, incl. fixing material
outside dimensions: 543x316mm

Order number: **WA-HSP-410**



Protecting plate

for WA-KTP-210
acrylic plastic, approx. 3mm thick; incl. fixing material
outside dimensions: 321x182mm

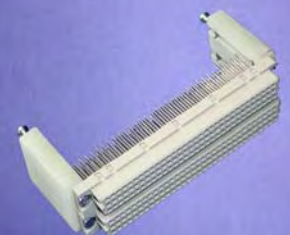
Order number: **WA-HSP-210**



Interface expansion 4x96pole Wire-Wrap

for WA-KTP-400
upgradeable, incl. fixing material

Order number: **WA-KTP-IF384**



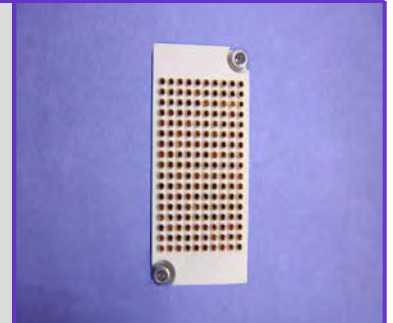
Changeable Units

Pneumatical Fixture

Interface-block 170pole

with interface pins
incl. screws

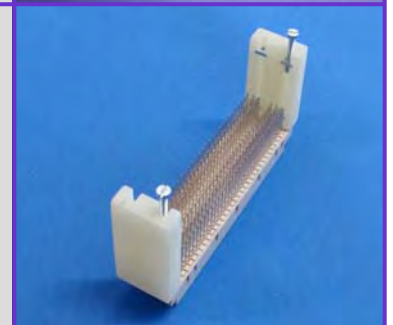
Order number: **TSI-50-101**



Interface expansion 2x96pol. Wire-Wrap

for WA-KTP-140
upgradeable, incl. fixing material

Order number: **WA-KTP-IF192**



Interface expansion 4x96pole Wire-Wrap

for WA-M-1400/WA-M-1500/WA-P-3000
upgradeable, incl. fixing material

Order number: **WA-M-IF384**



Interface-block 170pole for receiver

installed:
socket: 100-SDG160W, probe: 100-PLG1603L

Order number: **TSI-50-201**



Interface expansion 2x96pol. Wire-Wrap

for WA-M-1401/WA-M-1501
upgradeable, incl. fixing material

Order number: **WA-M-IF192**



Changeable Units

Pneumatical Fixture

Pneumatic-interface-block 8pole

for internal interface (fixture)

Order number: **TSI-50-PBB**



Pneumatic-interface-block 8pole

for internal interface (receiver)

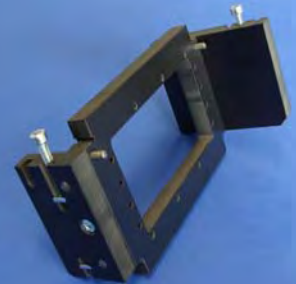
Order number: **TSI-50-PSB**



Interface expansion for WA-M-1510-I

for upgrading;
mounting below the base plate, for max. 3 blocks (not included);
mountable on two mounting positions

Order number: **WA-M-1510-I-203_1**



Interfac expansion for WA-KTP-140/400/410-I

for upgrading
mounting below the probe plate, for max. 3 blocks (not included);
mountable on two mounting positions

Order number: **WA-KTP-XX0-I-004**



Raise of case 90mm V2.0


for case MFG-530-Pult-Gehäuse-V1.0; aluminium,
heigh: 90mm

Order number: **MFG-530-GEHÄUSEERHÖHUNG-90**



Changeable Units

Pneumatical Fixture

<p>Raise of case 250mm</p> <p>for case MFG-530-Pult-Gehäuse-V1.0 heigh: 250mm</p> <p>Order number: MFG-530-GEHÄUSEERHÖHUNG-250</p>	
<p>Raise of case 45mm</p> <p>for case MFG-280-PULT-GEHÄUSE-V1.0 (for WA-M-1401/1501; PA3001)</p> <p>Order number: MFG-280-GEHÄUSEERHÖHUNG</p>	
<p>Raise of case 90mm V1.0</p> <p>for case MFG-700-Pult-V1.0; aluminium RAL7035</p> <p>Order number: MFG-700-GEHÄUSEERHÖHUNG-90</p>	
<p>Switch for WA-P-30xx</p> <p>(D-A93) switch N.O.</p> <p>Order number: WA-P-3000-SG</p>	
<p>Spring probes for UUT 3N</p> <p>sockets incl., spring force 3N; extended height: 13,3mm point style: 4mm</p> <p>Order number: WA-GPA-13-3N</p>	

Changeable Units

Pneumatically Fixture

Spring probes for UUT 6N

sockets incl., spring force 6N; extended height 13,3mm
point style: 4mm

Order number: **WA-GPA-13-6N**



Spring probes for UUT 3N

sockets incl., spring force 3N; extended height 13,3mm
point style: 3mm (plastic)

Order number: **WA-GPA-13-3N-K**



Spring probes for UUT 6N

sockets incl., spring force 6N; extended height 13,3mm
point style: 3mm (plastic)

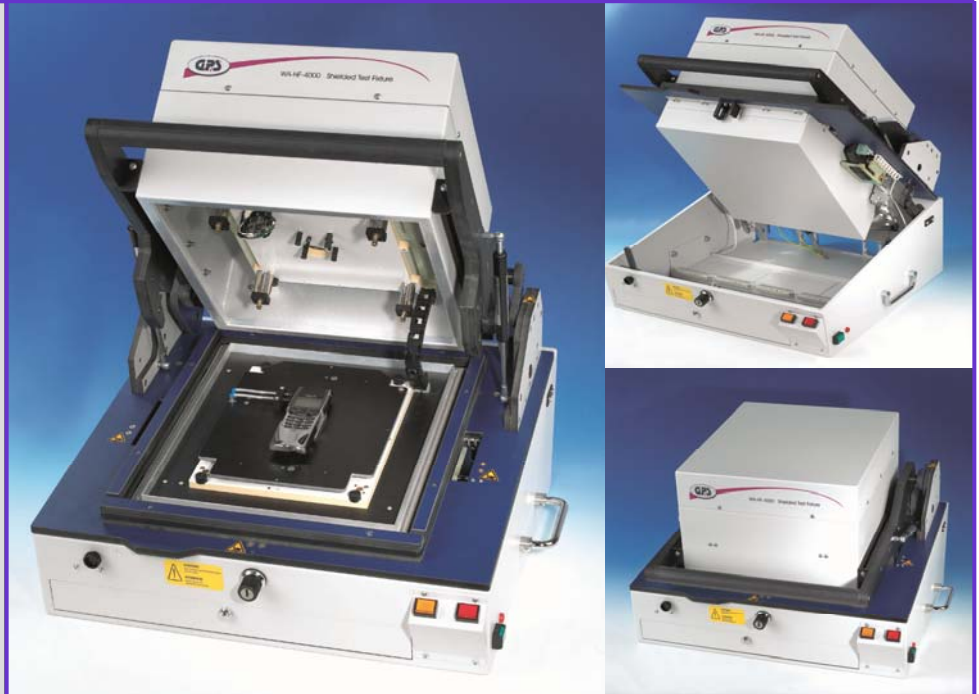
Order number: **WA-GPA-13-6N-K**



Shielded RF Test Fixture

Pneumatic Fixture

WA-HF-4000/8000



Fixture Specification

- Pneumatic fixture for High Frequency Test
- Shielding from external RF-Signals
- 2 Product size Standard working area: L x D 180mm x 180mm
Large working area: L x D 382mm x 274mm
- Changeable cassette unit with pneumatic pressure frame mechanism
- Forceless and adjustable compression speed due to doubled pneumatic Cylinders (24V)
- Parallel pressure frame mechanism
- Start signal by depressing the pressure frame mechanism (optional)
- Kit designed as cassette type unit to maximize economy
- Fast and easy to change upper and bottom probe plate
- Interface modular and customize configurable
- Optional: Pylon Interface or G 12 Interface from Virginia Panel
- Integrated start, stop and reset buttons
- Running position monitoring (optional)
- Lockable housing
- Plug-in module for 4 PCB (100x160 mm) for local electronics
- Combination of RF, audio and video test
- For testing mobile telephones, "Bluetooth"-devices and WLAN
- Suited for acoustic (microphone and speaker) and optic (video camera) test
- Changeable Kit has to bought separately

Shielded RF Test Fixture

Technical Specification

Standard RF Fixture WH-HF-4000

Desk Fixture with parallel pressure mechanics

Größe:

Test Fixture:	external dimension:	L x D x H 550mm x 580mm x 400mm
Complete cassette:	external dimension:	L x D 340mm x 290mm
	working area:	L x D 190mm x 180mm

Weight: incl. cassette unit: 20 kg

Temperature: operating temperature: +10°C ...+40°C
storage temperature: -210°C ...+60°C

Humidity: operating temperature: 90% r.h. no cond. by +10°C ...+40°C
75% r.h. no cond. by +30°C ...+40°C
storage temperature: 90% r.h. no cond. by +60°C

Compressed Air: 6 bar oil-free

Power Supply: 24V DC/3A for pneum. valve



Large RF Fixture WH-HF-8000

Desk Fixture with parallel pressure mechanics

Größe:

Test Fixture:	external dimension:	LxBxH 702mm x 580mm x 404mm
Complete cassette:	external dimension:	LxB 482mm x 434mm
	working area:	LxB 380mm x 270mm

Weight: incl. cassette unit: 26 kg

Temperature: operating temperature: +10°C ...+40°C
storage temperature: -210°C ...+60°C

Humidity: operating temperature: 90% r.h. no cond. by +10°C ...+40°C
75% r.h. no cond. by +30°C ...+40°C
storage temperature: 90% r.h. no cond. by +60°C

Compressed Air: 6 bar oil-free

Power Supply: 24V DC/3A for pneum. valve



Interface Chamber


Interface modular and free configurable

Pylon Block Interface for 10 Interface Blocks Order-No.: TSI-50-IF

Virginia Panel, G12 (see also G12 Receiver) Order-No.: ITA-G12

Shielded RF Test Fixture

Technical Specification

<p>Interface RF-Chamber</p> <p>Connecting Panel (D x H): 250mm x 105mm (useable) Earth Connection: thread bolts M5 x 15 as well as snap fasteners</p>																			
<p>RF-Connector and Socket</p> <p>Pneumatic: couplings - bulkhead fitting hose diameter 6mm Order-No.: Festo-SCN-PK-3</p> <p>Pneumatic block: for max. 6 solenoid valves</p> <p>Connecting Panel (D x H): 250mm x 105mm (useable)</p> <p>RF Socket: 2 x SMA-SMA socket Impedance 50 Ω, Interface Freq max 18 GHz Order-No.: HF-34SMA-50-1/1 -- UE</p> <p>Audio: 9-polig. D-Sub, shielded Order-No.: HF-SUB-D-9-M-L Data: 15-polig. D-Sub, shielded Order-No.: HF-SUB-D-15-M-L Power + Reserve: 25-polig. D-Sub, shielded Order-No.: HF-SUB-D-25-M-L Filter Designation: 1000 pF Pi</p> <p>Data: USB Interface Modul Filter Designation: 10 pF Pi Shielding Effectivness >60dB up to 3 GHz Order-No.: HF-USB-A-M</p> <p>Data: Ethernet Interface Modul RJ 45 Filter Designation: 10 pF Pi Shielding Effectivness >60dB up to 3 GHz Order-No.: HF-RJ 45</p>																			
<p>HF - Schirmung</p> <table border="0"> <tr> <td>Ohne Absorber:</td> <td>Mit Absorber:</td> <td>Bestell-Nr.: WA-HF-4000-ABS</td> </tr> <tr> <td>300 MHz 500 MHz > 60 dB</td> <td>300 MHz 500 MHz > 75 dB</td> <td></td> </tr> <tr> <td>600 MHz 1000 MHz > 55 dB</td> <td>600 MHz 1000 MHz > 75 dB</td> <td></td> </tr> <tr> <td>1100 MHz ...1500 MHz > 50 dB</td> <td>1100 MHz ...1500 MHz > 70 dB</td> <td></td> </tr> <tr> <td>1600 MHz ...2000 MHz > 45 dB</td> <td>1600 MHz ...2000 MHz > 60 dB</td> <td></td> </tr> <tr> <td>2100 MHz ...2500 MHz > 55 dB</td> <td>2100 MHz ...2500 MHz > 65 dB</td> <td></td> </tr> </table>		Ohne Absorber:	Mit Absorber:	Bestell-Nr.: WA-HF-4000-ABS	300 MHz 500 MHz > 60 dB	300 MHz 500 MHz > 75 dB		600 MHz 1000 MHz > 55 dB	600 MHz 1000 MHz > 75 dB		1100 MHz ...1500 MHz > 50 dB	1100 MHz ...1500 MHz > 70 dB		1600 MHz ...2000 MHz > 45 dB	1600 MHz ...2000 MHz > 60 dB		2100 MHz ...2500 MHz > 55 dB	2100 MHz ...2500 MHz > 65 dB	
Ohne Absorber:	Mit Absorber:	Bestell-Nr.: WA-HF-4000-ABS																	
300 MHz 500 MHz > 60 dB	300 MHz 500 MHz > 75 dB																		
600 MHz 1000 MHz > 55 dB	600 MHz 1000 MHz > 75 dB																		
1100 MHz ...1500 MHz > 50 dB	1100 MHz ...1500 MHz > 70 dB																		
1600 MHz ...2000 MHz > 45 dB	1600 MHz ...2000 MHz > 60 dB																		
2100 MHz ...2500 MHz > 55 dB	2100 MHz ...2500 MHz > 65 dB																		

Shielded RF Test Fixture

Accessories

Complete Changeable Fixture Kit WA-HF-400

Consisting of:
 WA-HF-KTP-400
 WA-HF-AP-400
 WA-HF-PAP-400



Changeable probe plate WA-KTP-400

Changeable probe plate
 incl. internal 96 pol. connector
 Outside dimension: 260 x 210 x 10 mm
 Working area: 190 x 180 mm



Changeable pressure plate WA-AP-400

pressure plate 10mm dick
 Incl. 4 Pneumatic connector
 96 pol. connector
 Outside dimension: 260 x 210 x 10 mm



Changeable moving plate WA-PAP-400

Incl. 6 spring probes and distance stopper (3mm)
 Working area: 180 x 180 mm





Spring Probes WA-GPA-13-3N

Spring force 3N, incl. sockets
 Height 13,3 mm, Tip style 4 mm (Nickel/Rhodium)



Shielded RF Test Fixture

Accessories

<p>Akustik Set</p> <p>Speaker und Microphon</p> <p>supplied on request</p>	
<p>Holder for Loudspeaker and Microphon</p> <p>supplied on request</p>	
<p>Cabel to connect for Loudspeaker and Microphon</p> <p>supplied on request</p>	

Büro Süd
Waldstraße 4
D-82239 Alling
Telefon +49-8141-52 747-0
Telefax +49-8141-52 747-47

Büro Rhein Main
Ferdinand-Porsche-Str. 17
D-63500 Seligenstadt
Telefon +49-6182-89 37-0
Telefax +49-6182-89 37-37

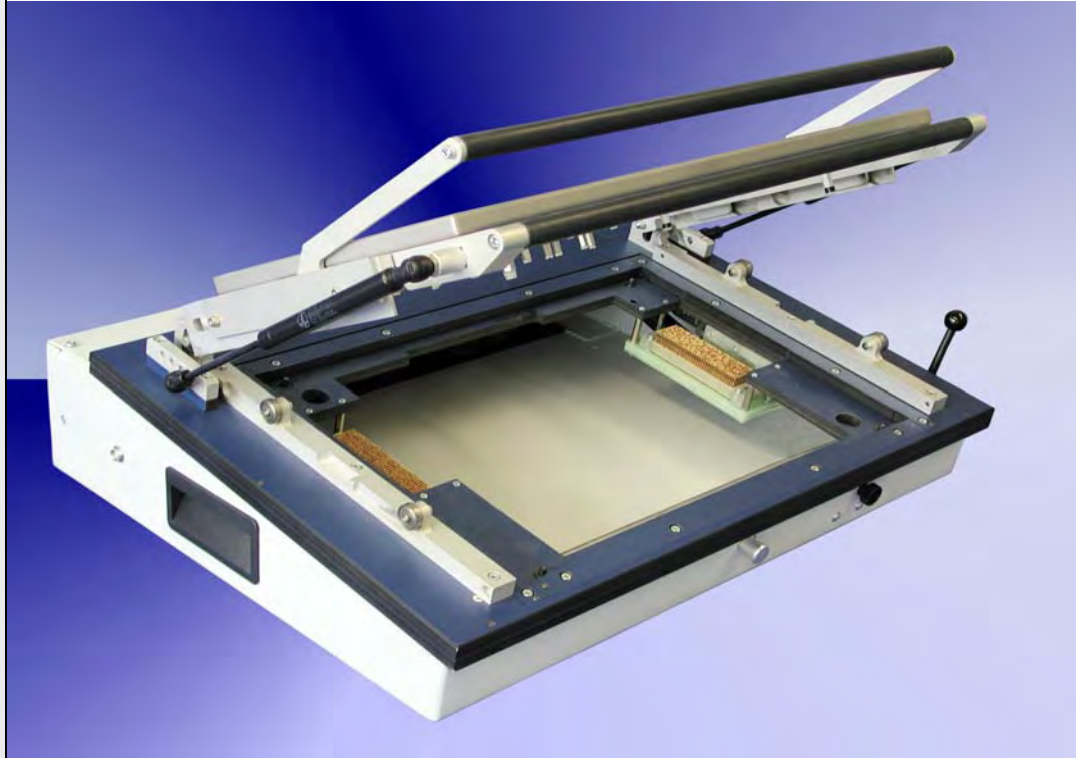
Büro Westfalen
Steigerring 25
D-59075 Hamm
Telefon +49-2381-99 110-0
Telefax +49-2381-99 110-99

Schweiz
Täferstr. 2a
CH-5405 Baden-Dättwil
Telefon +41-56-483 25 80
Telefax +41-56-483 25 89

Ungarn
Zrinyi M. u. 105
HU-8900 Zalaegerszeg
Telefon +36-92 510-740
Telefax +36-92 510-741

Internet
www.gps-prueftechnik.de
E-Mail:
info@gps-prueftechnik.de

MWK-55-5000



Delivered without interface

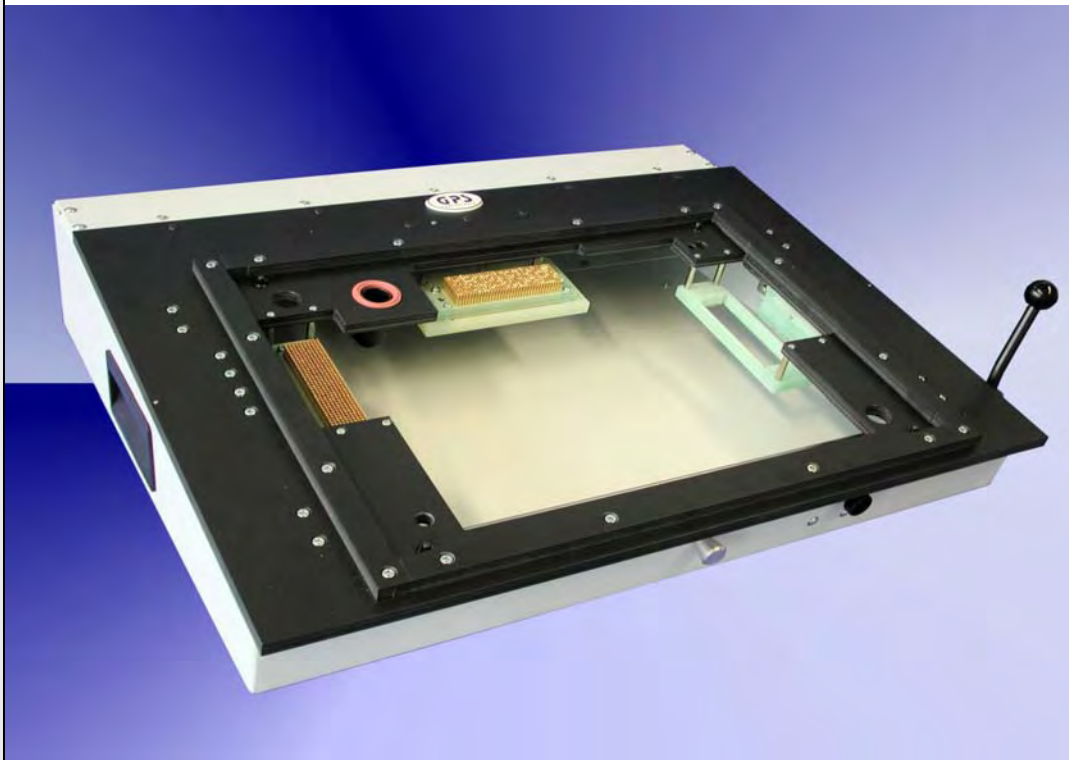
Fixture specification

- Lower-cost due to the changeable system
- desk form for easy handling
- Manual locking of the cassette (low energy consumption)
- Outside dimensions: 590 x 490 x 160 mm
- Max. working area vacuum changeable cassette: 320 x 220 mm
- Suited to max. 720 testpoints
- Short and easy change of the vacuum cassette (< 5 sec.)
- Internal interface with max. 2x360 pins (not incl.)
- Parallel push down system
- Stable quality due to the aluminium construction
- Push down plate made of 15mm ESD acrylic plastic
- Low energy consumption due to the ball-bearing guide
- Suited to two side probing
- Customer specified interface
- Case can be opened during the debugging
- Fixture is delivered without changeable cassette

Accessories for MWK-55-5000

<p>Specification: Interface block , 360 pole, for changeable cassette, interface pin flat</p> <p>Order number:</p>	 <p>TSI-50-150</p>	<p>Specification: Interface block, 360 pole, Sockets:100-SDG160W Probes:100-PLG-1609L Chisel</p> <p>Order number::</p>	 <p>TSI-50-250</p>
<p>Specification: Mechanical changeable cassette, without interface Outside dimensions: 415 x 295 x 100 mm Working area: 320 x 220 mm</p> <p>Order number:</p>	 <p>MWK-55-1100</p>		

VWK-55-5000



Fixture specification

- Lower-cost through the changeable system
- deskform for easy handling
- Manuell locking of the cassette (low energy consumption)
- Outside dimensions : 590 x 490 x 160 mm
- Max. working area of the vacuum changeable cassette: 320 x 220 mm
- Suited to max. 1080 testpoints
- Quick and easy change of the vacuum cassette (< 5 sec)
- Internal interface with 2x230 pins (not incl.)
- Customer specified interface
- Case can be opened during the debugging
- Fixture is delivered without the changeable cassette

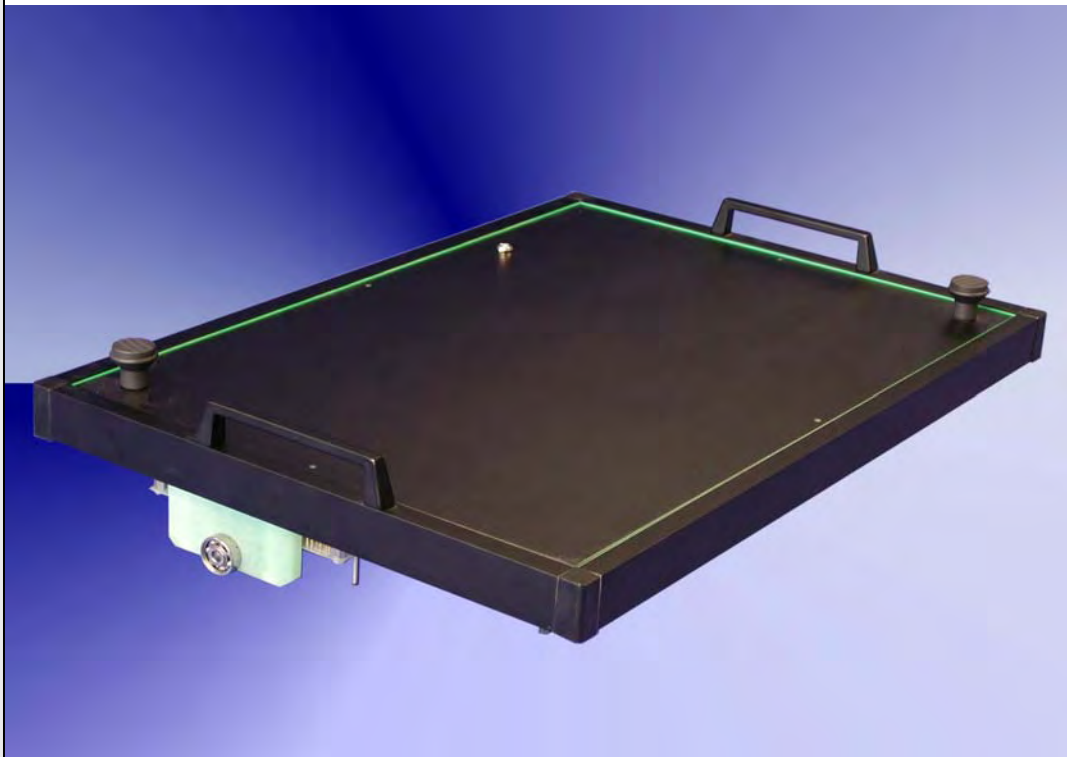
Basic Unit

Vacuum - Changeable Fixture

Accessories for VWK-55-5000

<p>Specification: Interface-block, 360 pole, for changeable cassette, interface pin flat</p> <p>Order number:</p>	 <p>TSI-50-150</p>	<p>Specification: Interface-block, 360 pole, Sockets:100-SDG160W Probes:100-PLG-1609L Chisel</p> <p>Order number:</p>	 <p>TSI-50-250</p>
<p>Specification: Vacuum-changeable cassette Outside dimensions: 415 x 295 x 100mm Working area: 320 x 220 mm</p> <p>Order number:</p>	 <p>VWK-55-1100</p>		

VWK-55-1100




Fixture specification

- Outside dimensions : 415 x 295 x 100 mm
- Max. working area : 320 x 220 mm
- Stable quality through the aluminium frame
- Moving plate made of ESD plate material
- GPS ESD sealing of vacuum chamber
- ESD leakage probes standard
- Pin protecting plate incl.
- Grips for easy removing
- Interface blocks for the fixture has to be ordered separately
- Vacuum plate 8 mm (optional)
- Short delivery time

Changeable Cassette

Vacuum- Changeable Fixture

Accessories for VWK-55-1100

<p>Specification: Interface-block , 360 pole, for changeable cassette</p> <p>Order number:</p>	 <p>TSI-50-150</p>		

Büro Süd
Waldstr. 4
D-82239 Alling
Telefon +49-8141-52 747-0
Telefax +49-8141-52 747-47

Büro Rhein Main
Ferdinand-Porsche-Str.17
D-63500 Seligenstadt
Telefon +49-6182-89 37-0
Telefax +49-6182-89 37-37

Büro Westfalen
Steigerring 25
D-59075 Hamm
Telefon +49-2381-99 110-0
Telefax +49-2381-99 110-99

Schweiz
Täferstr. 2a
CH-5405 Baden-Dättwil
Telefon +41-56-483 25 80
Telefax +41-56-483 25 89

Ungarn
Zirnyi M. u. 105
HU-8900 Zalaegerszeg
Telefon +36-92 510 740
Telefax +36-92 510 741

Internet
gps-prueftechnik.de
E-Mail:
info@gps-prueftechnik.de

WA-BOX3-400



Specification

- Storage box for changeable plate inserts (WA-P-3000 / WA-M-1500)
- Each for 3 WA-KTP-400 / WA-PAP-400 and WA-AP-400
- Storage system with 3 runners and knurled screws
- Dimensions: 420 x 610 x 290 mm
- Stable quality



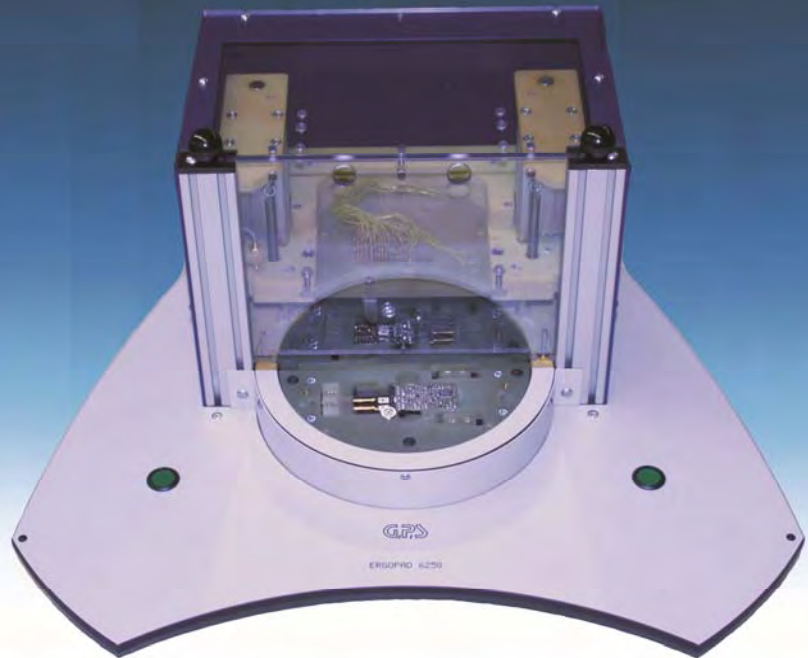
10. Turn Table Unit

[1. Turn Table Unit WA-P-6250](#)

Turn Table Unit

Pneumatically Operated Station

WA-P-6250



Spezifikation

- Ergonomically designed Stand-Alone-Fixture (without testsystem)
- Unit size : width 400 x height 400 x depth 360 mm
- Max. UUT size : length 125 x width 65 mm
- Max. testpoints : 256
- Precise probing and repetition through column guide
- Short handling time through the turn table system (two side probing)
- Quick and easy change of the probing unit
- Designed for two side probing
- Internal interface
- Customer specified external interface
- High safety through the two-handed operating and the sensor control
- Electrical port 24V
- Pneumatical port 6 - 7 bar, oilfree
- SPS controller
- Free space for additional installations e.g. button, fiberglass etc.
- Storage box for cassette fixtures (optional)

Büro Süd
Waldstraße 4
D-82239 Alling
Telefon +49-8141-52 747-0
Telefax +49-8141-52 747-47

Büro Rhein Main
Ferdinand-Porsche-Str. 17
D-63500 Seligenstadt
Telefon +49-6182-89 37-0
Telefax +49-6182-89 37-37

Büro Westfalen
Steigerring 25
D-59075 Hamm
Telefon +49-2381-99 110-0
Telefax +49-2381-99 110-99

Schweiz
Täferstr. 2a
CH-5405 Baden-Dättwil
Telefon +41-56-483 25 80
Telefax +41-56-483 25 89

Ungarn
Zrinyi M. u. 105
HU-8900 Zalaegerszeg
Telefon +36-92 510-740
Telefax +36-92 510-741

Internet
www.gps-prueftechnik.de
E-Mail:
info@gps-prueftechnik.de

Turn Table Unit

Pneumatically Operated Station

Changeable probe plate insert one side

Max. UUT size: 125 x 65 mm

Order Number: WA-PSE-6200



Changeable probe plate insert two side

Max. UUT size: 125 x 65 mm

Order Number: WA-PSD-6200



Box for one complet changeable fixture set

Size : 290 x 135 x 170 mm

Order Number: WA-BOX1-6200



Box for 7 complet changeable fixture set

Size : 170 x 540 x 150 mm

Order Number: WA-BOX-7-6200





Table of contents:

IV. Receiver

- [1. G12 Receiver](#)
- [2. TSI Receiver](#)

Receiver

Interface converter

Virginia Panel

G12 Receiver



Specification:

- Interface are modular and reconfigurable
- Rack mount and tabletop versions available
- You can use mechanical, pneumatically or vacuum fixture
- Outside dimensions: 480 x 470 x 100 mm
- QuadraPaddle™ contacts ensure reliable connections to over 20.000 mating cycles
- Low energy consumption through mechanically locking
- Stable quality
- Exact guidance
- Vacuum- und pneumatic ports integrable
- Thermocouple and fiber optic integrable

Receiver

Interface converter

Accessories for G12 Receiver

<p>Vacuum port:</p> <p>Module 90 Serie, Receiver Vacuum Double Port/Filte Order number: 510 104 266</p> <p>Module 90 Serie, ITA Vacuum Double PORT TAPPED Order number: 510 108 251</p>	
<p>Receiver Modul: RCVR Modul 192 pol. Twin Femal, fully loaded with Twin Femal Contacte Order number: 510 150 130 RCVR Modul 192 pol. Femal, Wire Crimp, unloaded Order number: 510 150 115</p> <p>ITA Modul: ITA Modul 192 pol. Male, unloaded Order number: 510 151 105 ITA Modul 192 pol. □ Wire Wrap Post, fully loaded with Male Wire Wrap Contacte Order number: 510 151 113</p>	
<p>Receiver Modul: RCVR Modul 480 pol. Twin Femal, fully loaded with Twin Femal Contacte Order number: 510 150 131 RCVR Modul 480 pol. Femal, Wire Crimp, unloaded Order number: 510 150 116</p> <p>ITA Modul: ITA Modul 480 pol. Male, unloaded Order number: 510 151 106 ITA Modul 192 pol. □ Wire Wrap Post, fully loaded with Male Wire Wrap Contacte Order number: 510 151 114</p>	
<p>Signal Receiver Contact: RVCR Contact, female 22-28 AWG, Crimp Order number: 610 138 116</p> <p>Signal ITA Contact: ITA Contact, male 22-28 AWG, Crimp Order number: 610 138 112 ITA Contact, male .025 □ Wire Wrap Post Order number: 610 138 112</p>	
<p>Receiver Modul: Signal Modul 96 Contact for discrete wiring Order number: 510 104 136 Signal Modul 96 Contact w/Right Angle Contacts for PCB Mounting Order number: 510 104 135</p> <p>ITA Modul: Signal Modul (ITA) 96 Contact for discrete wiring Order number: 510 104 136 Signal Modul (ITA) 96 Contacte w/Right Angle Contacts for PCB Mounting Order number: 510 104 135</p>	
<p>Signal Receiver Contact: SRC, Crimp/Solder, 22 AWG (max.) Order number: 610 110 101 SRC, Wire Wrap Post Order number: 610 110 104</p> <p>Signal ITA Contact: ITA Contact, Crimp/Solder, 22 AWG (max.) Order number: 610 110 108 ITA Contact, Wire Wrap Post Order number: 610 110 113</p>	

Receiver

Interface converter

Accessories for G12 Receiver

<p>Receiver Hybrid Modul: Mini Power Modul (RCVR) 19 Contact Order number: 510 104 123 Mini Koaxial Modul (RCVR) 19 Contact Order number: 510 104 120</p> <p>ITA Hybrid Modul: Mini Power Modul (ITA) 19 Contact Order number: 510 108 115 Mini Koaxial Modul (ITA) 19 Contact Order number: 510 108 111</p>	
<p>Receiver Modul: Mini Power Modul (RCVR) 16 Power Contact / 16 Sense Contact Order number: 510 104 206</p> <p>ITA Modul: Mini Power Modul (ITA) 16 Power Contact / 16 Sense Contact Order number: 510 108 178</p>	
<p>Min Power Receiver Contact: Min Power Receiver Contact, Solder, 8 AWG Order number: 610 116 112 bis 50 A, 480 VAC, max. 10 Milliohms</p> <p>Min Power ITA Contact: Min Power ITA Contact, Solder, 8 AWG Order number: 610 115 124 bis 50 A, 480 VAC, max. 10 Milliohms</p>	
<p>Min Coaxial Receiver Contact: Min Coaxial Receiver Contact, RG 316 Order number: 610 104 114 Min Coaxial Receiver Contact, RG 178 Order number: 610 104 141</p> <p>Min Coaxial ITA Contact: Min Coaxial ITA Contact, RG 316 Order number: 610 103 115 Min Coaxial ITA Contact, RG 178 Order number: 610 103 130</p> <p>Mini Coaxial contacts have a min. VSWR less than 1,02 up to 500 MHz. Crosstalk is down less than 60 dB @ 500 MHz, Insert loss is less than 0,05dB @ 500MHz, Resistance is 5 Milliohms max. @ 0,5 Amps, never exceeding 10 Milliohms.</p>	

G12 Vacuum Fixture

G12 Mass InterConnect Solution

G12-50-1100



Specification:

- Interface are modular and reconfigurable
- Rack mount and tabletop versions available
- Outside dimensions: 640 x 440 x 160 mm
- Max. working area: 440 x 280 mm
- Deskform for easy handling
- PAG - plug and guide system
- Probe plate made of G10 (CP quality) 10 mm
- GPS ESD sealing of vacuum chamber
- Protecting errector standard
- Rounded edges (for a better intake)
- QuadraPaddle™ contacts ensure reliable connections to over 20.000 mating cycles
- Stable quality through the case and the aluminium frame
- Exact guidance
- Vacuum- und pneumatic ports integrable
- Thermocouple and fiber optic integrable

Vacuum Fixture

G12 Mass InterConnect Solution

Accessories for G12 Vacuum Fixture

<p>Interface, Alu Frame with Protective Cover, without Modules ITA G12 1.25"FNT MNT</p> <p>Order number: 410 104 322</p>	
<p>Vacuum port:</p> <p>Module 90 Serie, Receiver Vacuum Double Port/Filte Order number: 510 104 266 Module 90 Serie, ITA Vacuum Double PORT TAPPED Order number: 510 108 251</p>	
<p>Receiver Modul: RCVR Modul 192 pol. Twin Femal, fully loaded with Twin Femal Contacte Order number: 510 150 130 RCVR Modul 192 pol. Femal, Wire Crimp, unloaded Order number: 510 150 115</p> <p>ITA Modul: ITA Modul 192 pol. Male, unloaded Order number: 510 151 105 ITA Modul 192 pol. □ Wire Wrap Post, fully loaded with Male Wire Wrap Contacte</p>	
<p>Receiver Modul: RCVR Modul 480 pol. Twin Femal, fully loaded with Twin Femal Contacte Order number: 510 150 131 RCVR Modul 480 pol. Femal, Wire Crimp, unloaded Order number: 510 150 116</p> <p>ITA Modul: ITA Modul 480 pol. Male, unloaded Order number: 510 151 106 ITA Modul 192 pol. □ Wire Wrap Post, fully loaded with Male Wire Wrap Contacte Order number: 510 151 114</p>	
<p>Receiver Modul: Signal Modul 96 Contact for discrete wiring Order number: 510 104 136 Signal Modul 96 Contact w/Right Angle Contacts for PCB Mounting Order number: 510 104 135</p> <p>ITA Modul: Signal Modul (ITA) 96 Contact for discrete wiring Order number: 510 104 136 Signal Modul (ITA) 96 Contacte w/Right Angle Contacts for PCB Mounting Order number: 510 104 135</p>	
<p>Signal Receiver Contact: SRC, Crimp/Solder, 22 AWG (max.) Order number: 610 110 101 SRC, Wire Wrap Post Order number: 610 110 104</p> <p>Signal ITA Contact: ITA Contact, Crimp/Solder, 22 AWG (max.) Order number: 610 110 108 ITA Contact, Wire Wrap Post Order number: 610 110 113</p>	

Büro Süd
Waldstraße 4
D-82239 Alling
Telefon +49-8141-52 747-0
Telefax +49-8141-52 747-47

Büro Rhein Main
Ferdinand-Porsche-Str. 17
D-63500 Seligenstadt
Telefon +49-6182-89 37-0
Telefax +49-6182-89 37-37

Büro Westfallen
Steigerring 25
D-59075 Hamm
Telefon +49-2381-99 110-0
Telefax +49-2381-99 110-99

Schweiz
Täferenstr. 2a
CH-5405 Baden-Dättwil
Telefon +41-56-483 25 80
Telefax +41-56-483 25 89

Ungarn
Zrínyi M. u. 105
HU-8900 Zalaegerszeg
Telefon +36-92 510-740
Telefax +36-92 510-741

Internet
www.gps-prueftechnik.de
E-Mail:
info@gps-prueftechnik.de

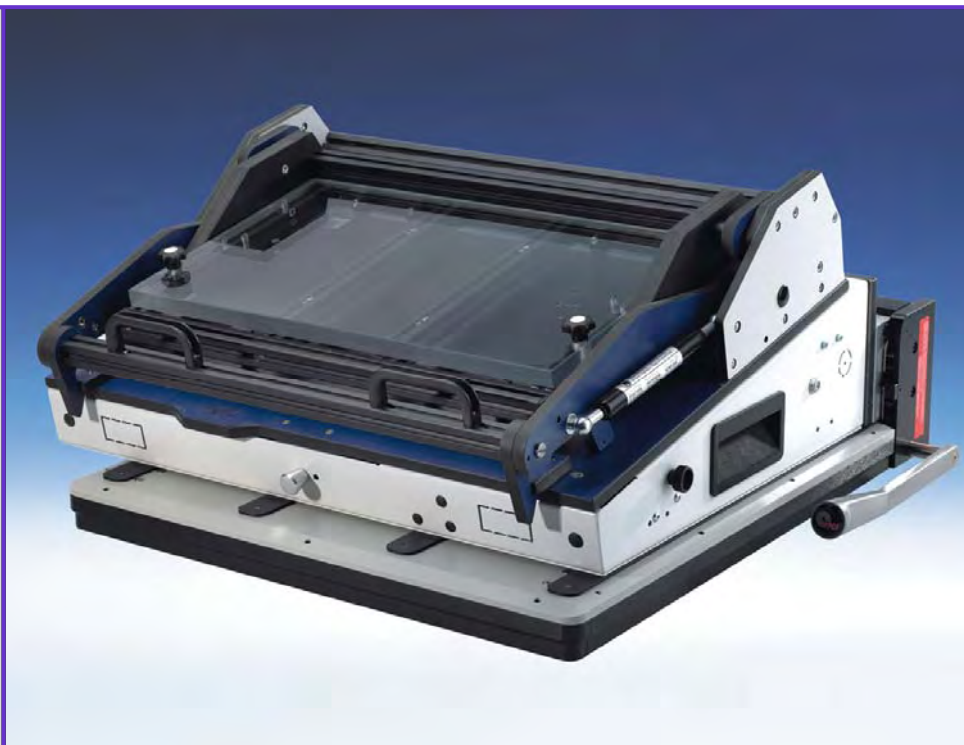
Accessories for G12 Vacuum Fixture

<p>Receiver Hybrid Modul: Mini Power Modul (RCVR) 19 Contact Mini Koaxial Modul (RCVR) 19 Contact Order number: 510 104 123 Order number: 510 104 120</p> <p>ITA Hybrid Modul: Mini Power Modul (ITA) 19 Contact Mini Koaxial Modul (ITA) 19 Contact Order number: 510 108 115 Order number: 510 108 111</p>	
<p>Receiver Modul: Mini Power Modul (RCVR) 16 Power Contact / 16 Sense Contact Order number: 510 104 206</p> <p>ITA Modul: Mini Power Modul (ITA) 16 Power Contact / 16 Sense Contact Order number: 510 108 178</p>	
<p>Min Power Receiver Contact: Min Power Receiver Contact, Solder, 8 AWG bis 50 A, 480 VAC, max. 10 Milliohms Order number: 610 116 112</p> <p>Min Power ITA Contact: Min Power ITA Contact, Solder, 8 AWG bis 50 A, 480 VAC, max. 10 Milliohms Order number: 610 115 124</p>	
<p>Min Coaxial Receiver Contact: Min Coaxial Receiver Contact, RG 316 Order number: 610 104 114 Min Coaxial Receiver Contact, RG 178 Order number: 610 104 141</p> <p>Min Coaxial ITA Contact: Min Coaxial ITA Contact, RG 316 Order number: 610 103 115 Min Coaxial ITA Contact, RG 178 Order number: 610 103 130</p> <p>Mini Coaxial contacts have a min. VSWR less than 1,02 up to 500 MHz. Crosstalk is down less than 60 dB @ 500 MHz, Insert loss is less than 0,05dB @ 500MHz, Resistance is 5 Milliohms max. @ 0,5 Amps, never exceeding 10 Milliohms.</p>	

G12 Mechanical Fixtures

G12 Mass InterConnect Solution

Mechanical Fixtures G12-M-1500-I for G12 Receiver



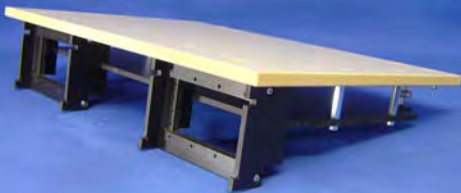
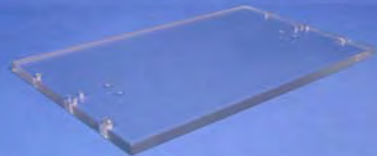

Specification:

- Interface are modular and reconfigurable
- Parallel mechanical pressure unit
- Outside dimensions: 530 x 450 x 240 mm
- Max. working area : 330 x 180 mm
- Lower-cost through the changeable unit
- Fast change of the probe plate and the pushdown plate
- Internal interface holding for max. 6 interface-blocks, each have 170 pins
- Probe plate and pushdown plate are not included
- Various accessories
- Individual completion through the unit assembly system
- QuadraPaddle™ contacts ensure reliable connections to over 20.000 mating cycles
- Deskform for easy handling
- Stable quality through the case and the aluminium frame
- Exact guidance
- Thermocouple and fiber optic integrable

Mechanical Fixtures

G12 Mass InterConnect Solution


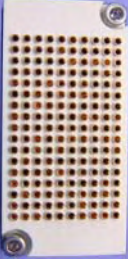

Accessories for G12 Mechanical Fixture

<p>Changeable probe plate with wire shield plate Outside dimensions: 400 x 270 mm Working area: 330 x 180 mm</p> <p>Order number: WA-KTP-400-I</p>	
<p>Changeable moving plate, spring-mounted Outside dimensions: 400 x 270 mm Working area: 330 x 180 mm</p> <p>Order number: WA-PAP-400-I</p>	
<p>Holddown plate made of ESD acrylic plastic (15 mm) Outside dimensions: 407 x 240 mm</p> <p>Order number: WA-AP-400</p>	
<p>Holddown element, one piece crosshead with 3 height adjustable pushdown fingers, mounting material incl., min. quantity per fixture: 2 pieces Length: 408 mm</p> <p>Order number: WA-AE-400</p>	
<p>Interface-block, 170 pol with probes, max. 6 blocks for a G12-M-1500-I adjustable, mounting material incl.</p> <p>Order number: WA-M/P-IF-170</p>	

Mechanical Fixtures

G12 Mass InterConnect Solution

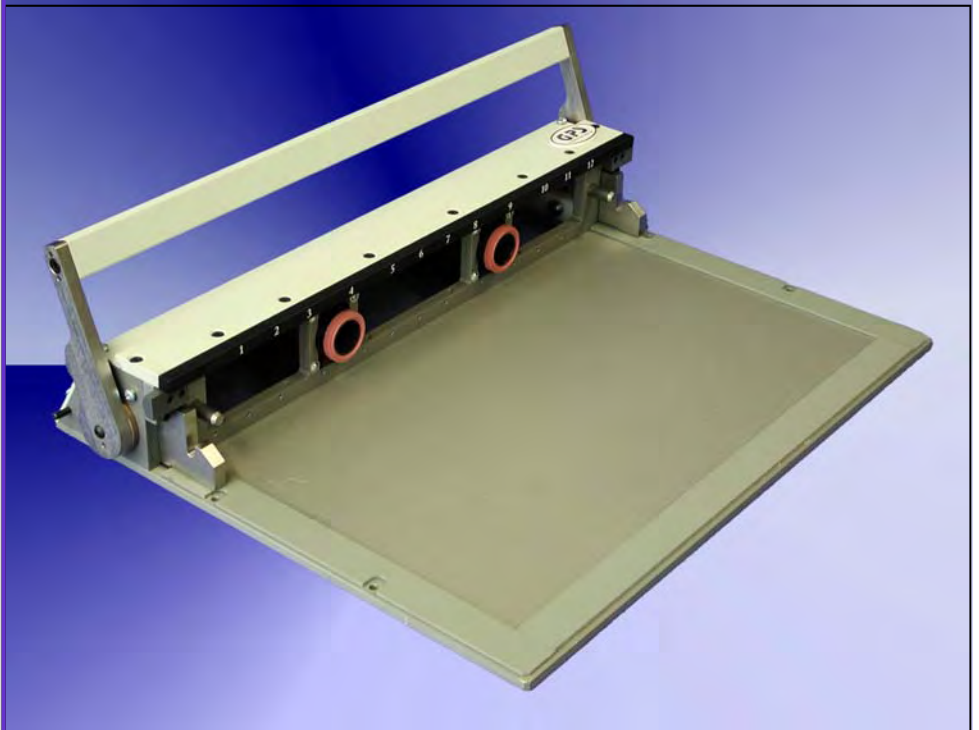
Accessories for G12 Mechanical Fixture

<p>Starter button, magnetic, for G12-M-1500-I deskform with parallel holddown mechanic- system</p> <p>Order number: WA-M-1500-MS</p>	
<p>Interface-block, 170 pole, with interface pins, max. 6 blocks in a WA-KTP-400-I adjustable, mounting material incl.</p> <p>Order number: WA-KTP-IF-170</p>	
<p>Spring probes for UUT seating, sockets incl., spring force 3N Expanded height: 13,3mm</p> <p>Point style: OD 3 mm (plastic) Order number: WA-GPA-13-3N-K</p> <p>Point style: 4 mm (nickel) Order number: WA-GPA-13-3N</p>	

Receiver

Interface


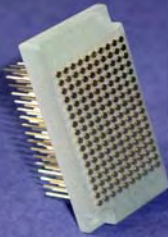
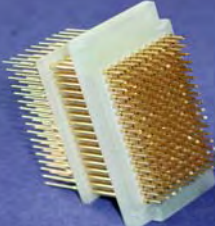

Block Interface TSI-50-5000





Specification

- Suited to all fixtures with Pylon-Blocks (R&S , GenRad , ITA)
- Receiver interface extern customer specified
- Can be assembled to various cases
- Outside dimensions: 510 x 440 x 90 mm
- Max. number of testpoints 1700
- Low energy consumption through mechanically locking
- Stable quality
- Exact guidance through steel tacks (pins)
- Two vacuum ports incl.
- Various interface blocks available (must be ordered separatly)

Accessories for TSI Receiver

<p>TSI-50-200</p> <p>Interface Block, 170 pole, for TSI-50-100</p> <p>Socket: 100-SDG160W Probe: 100-PLG1241S Tip Style: small spear</p>	
<p>TSI-50-100</p> <p>Interface Block, 170 pole, Interface Pin: flat (SIP-90-2)</p>	
<p>TSI-50-202</p> <p>Interface Block, 170 pole, for TSI-50-102/100</p> <p>Socket: 100-SDG160W Probe: 1016H21,0NAU1C Tip Style: small chisel 30° Stroke: 4,2 mm</p>	
<p>TSI-50-102</p> <p>Interface Block, 170 pole, Interface Pin: cup</p>	

Accessories for TSI Receiver

<p>TSI-50-PBB</p> <p>Pneumatical Female Block, 8 pole</p> <p>Fixture Side</p>	
<p>TSI-50-PSB</p> <p>Pneumatical Connector Block, 8 pole</p> <p>Receiver Side</p>	

Büro Süd
Waldstraße 4
D-82239 Alling
Telefon +49-8141-52 747-0
Telefax +49-8141-52 747-47

Büro Rhein Main
Ferdinand-Porsche-Str. 17
D-63500 Seligenstadt
Telefon +49-6182-89 37-0
Telefax +49-6182-89 37-37

Büro Westfalen
Steiggerring 25
D-59075 Hamm
Telefon +49-2381-99 110-0
Telefax +49-2381-99 110-99

Schweiz
Täferenstr. 2a
CH-5405 Baden-Dättwil
Telefon +41-56-483 25 80
Telefax +41-56-483 25 89

Ungarn
Zrínyi M. u. 105
HU-8900 Zalaegerszeg
Telefon +36-92 510-740
Telefax +36-92 510-741

Internet
www.gps-prueftechnik.de
E-Mail:
info@gps-prueftechnik.de



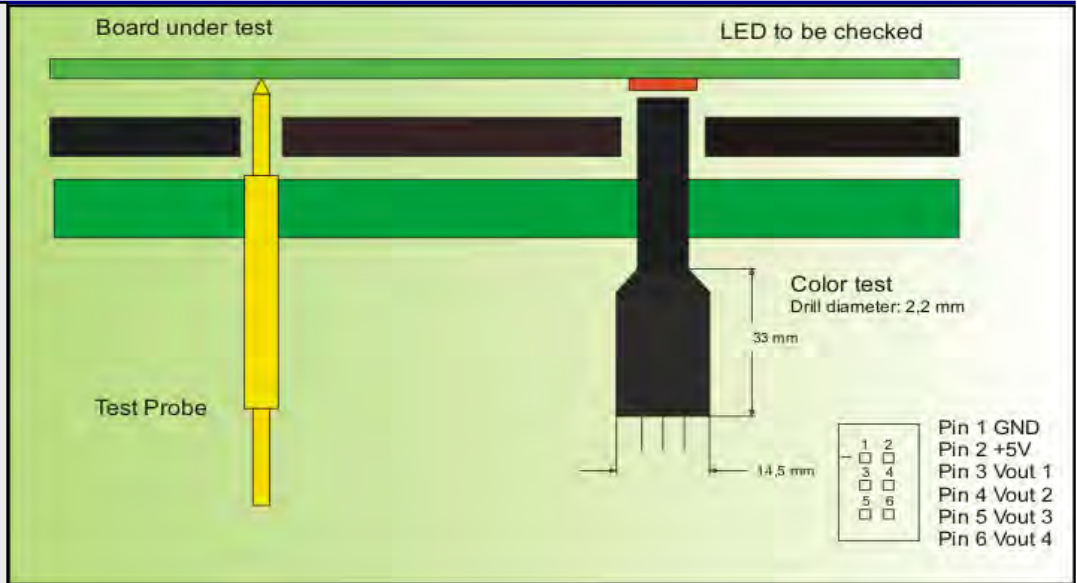
V. LED –Test

1. Colour Sensor

2. GPS 3-5 Digital Colour Analyzer

LED Test

Specification:



The color sensor consists in three photodiodes, which are integrated in one chip. They are arranged as segments in a circle with a diameter of 2,0 mm. The color sensor allow signal frequencies up to the MHz range. In order to reach a low crosstalk, the individual sections were separated. The color sensors are sensitized with dielectric colour filters, especially for the primary colours red, green and blue.

Application:

- Quality control
- Production surveillance
- Control of production processes

Features:

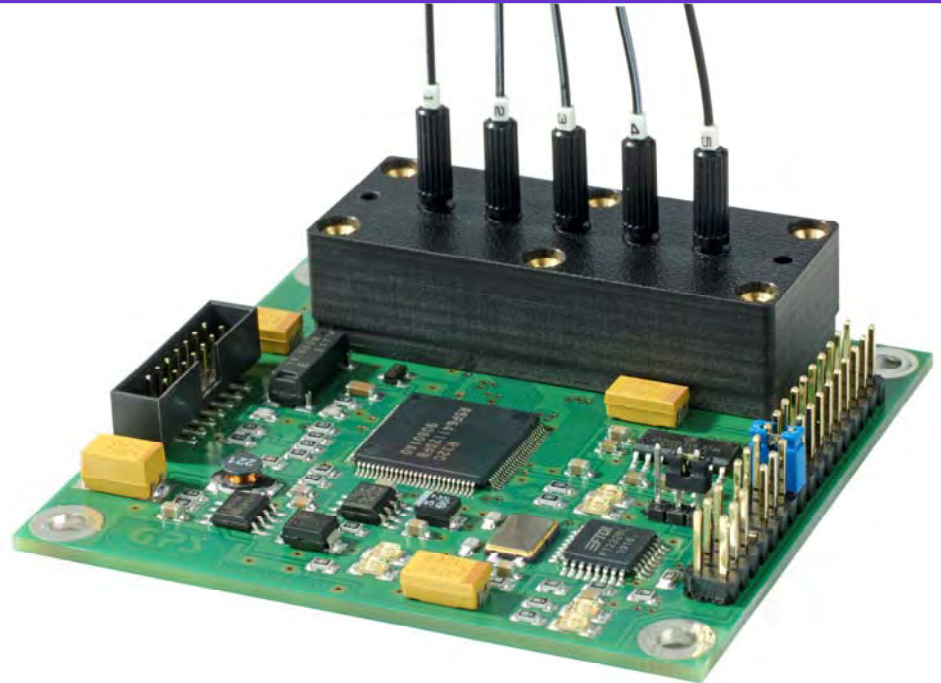
- High transmission
- Low aging of the filter
- High temperature stability
- High signal frequencies
- Reduced crosstalk
- Small construction

Specification:

Power supply: 5 Volt max. 20mA
Measuring range: 0 - 5 Volt

OUTPUT	LED whit	LED green	LED blue	LED red	LED yellow	non
Vout 1rt	0.4 V	2.4 V	2.5 V	0.0 V	2.4 V	2.5 V
Vout 2bl	0.8 V	2.3 V	0.0 V	2.2 V	2.5 V	2.5 V
Vout 3gn	0.4 V	0.0 V	2.0 V	2.0 V	2.2 V	2.5 V
Vout 4ge	5.0 V	5.0 V	5.0 V	5.0 V	4.0 V	2.5 V

LED Digital Colour Analyzer 3/ 5 Channels



Specifications

The GPS Digital Colour Analyzer allows fast and automatic testing the Colour and Brightness (Intensity) of Light Emitting Devices (LEDs). Tests the full spectrum of visible LEDs from very dim to the brightest on the market. The new digital colour sensor allows unrivalled repeatability for colour and intensity testing.

The LED Analyzer is used in the following applications:

- PCB LED Testing
- Automotive Dashboard / Brake Lights, Daytime running lights / Interior
- Switches with LED Backlighting
- Mobile Applications - Cell Phones, Backlighting
- Industrial and Medical Instruments
- Signaling
- Architectural Lighting

Key Features:

- Designed for any test platforms
- Tests the full spectrum of visible LEDs
- Measures intensity from very dim to the brightest LEDs
- The digital sensor allows a colour depth of 12 bit resolution for the colours red, green and blue
- Unrivalled repeatability for colour and intensity readings
- Available with 3 or 5 channels
- Allows up to 495 LEDs to test simultaneously
- Ease of Use – Instant on
- Captures Puls-Width-Modulated (PWM) LEDs
- Measurement results in RGB, HIS Colour Wheel, CIE Diagram and colour temperature in °K
- Uses flexible plastic Optical Fibres of 1mm and 2.2mm diameter
- Designed for Testing Colour and White LEDs
- RS 232 and USB Interface
- Tests Bicolour and Tricolour LEDs
- Excellent Technical Support
- Free Drivers and Software
- Robust and reliable design

LED Digital Colour Analyzer

LED-Test

Specifications:

Physical:

Board Dimensions	70mm x 65mm x 35mm (W x L x H)
Fiber Length	600mm
Fiber Diameter	1,00mm or 2,20mm
Number of Fibers	3 or 5
Minimum bend radius of Fiber	10mm
Operating Temperature Range	0C° to +50C°

Electrical:

Supply Voltage	5,0 V
Supply Current	80 mA
Interface	RS232 (Serial) and USB Interface

Optical:

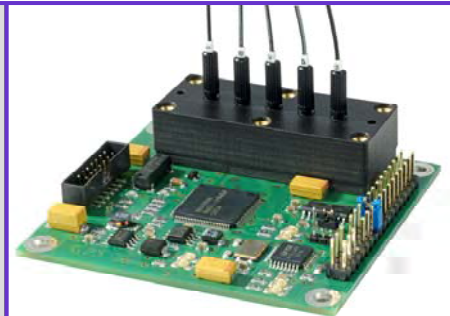
Red Peak Efficiency Wavelength	615 nm	± 3 nm
Green Peak Efficiency Wavelength	540 nm	± 4 nm
Blue Peak Efficiency Wavelength	465 nm	± 3 nm
Total Operating Wavelength Range	450 nm to 650 nm	

Accuracy:

Chromaticity x, y (CIE 1931)	± 0,01	for x= 0,31 ; y= 0,35 for x= 0,35 ; y= 0,38 for x= 0,46 ; y= 0,43
Dominant Wavelength	550nm	± 5 nm
Correlated Colour Temperature	2856 °K	± 200°K

Repeatability:

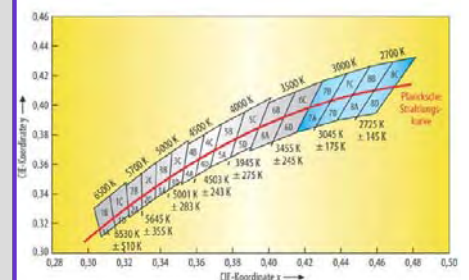
Chromaticity x, y (CIE 1931)	± 0,0015	
Dominant Wavelength	± 1 nm	
Correlated Colour Temperature	2856 °K	± 50°K
Hue	< 1%	
Saturation	< 1%	
Intensity	< 1%	



Calibration Service:








GPS Prüftechnik offers a service for the calibration of the LED Analyzer. In this process customers LEDs to be tested are measured with a proven calibrated spectrometer under a standardized process in our company. In the next step tristimulus values which have been measured with the LED Analyzer are adjusted to the values of the spectrometer. This takes place during uploading the firmware using a non-volatile stored offset.

Mainly white LEDs can be adjusted to the product parameters (Bins).



LED Digital Colour Analyzer

LED-Test

<p>LED Digital Colour Analyzer with 3 Channels, 1mm or 2,2mm fiber</p> <p>Order Number: DCA - 3 - 1 DCA - 3 - 2,2</p>	
<p>LED Digital Colour Analyzer with 3 Channels and vertical port</p> <p>Order Number: DCA - 3SA - 1 DCA - 3SA - 2,2</p>	
<p>LED Digital Colour Analyzer with 5 Channels, 1mm or 2,2mm fiber</p> <p>Order Number: DCA - 5 - 1 DCA - 5 - 2,2</p>	
<p>LED Digital Colour Analyzer with 5 Channels and vertical port, 1mm or 2,2mm fiber</p> <p>Order Number: DCA - 5SA - 1 DCA - 5SA - 2,2</p>	
<p>Cutting tool</p> <p>Order Number: Cutting tool E39-F4</p>	
<p>Attachment for 1,00mm and 2,20mm fiber (Fiber Holder) Attachment for positioning the fiber with 1mm or 2,2mm outside diameter</p> <p>Order Number: Attachment E39-F9 1 Attachment E39-F9 2,2</p>	
<p>75 mil Socket with pressing 75 mil socket for positioning the thin fiber with 1mm outside diameter</p> <p>Order Number: GPS 075-SDN250N</p>	
<p>Serial Cable</p> <p>Order Number: GPS S - 1</p>	
<p>USB Cable</p> <p>Order Number: GPS U - 1</p>	

Setting an offset to calculate the tristimulus values x and y:

1. GPS Prüftechnik offers a service for the calibration of the LED Analyzer Board. In this process customers LEDs to be tested are measured with a proven calibrated spectrometer under a standardized process in our company. In the next step tristimulus values which have been measured with the LED Analyzer are adjusted to the values of the spectrometer. This takes place during uploading the firmware using a non-volatile stored offset.
2. In addition to that there is a possibility to integrate the LED Analyzer in an existing test system through an initialisation of the com-port. At this application an offset for each LED that has to be measured can be stored. However this is a volatile stored offset which get lost after switching off the board from the current source.
3. Furthermore an offset can be stored using the included software GPS LED Analyzer. This is, as described in point 2, a volatile storage space and get lost after switched off from the current source or the command "Reset board". By restarting the LED Analyzer the corresponding offset can be loaded via importing the test programm at any time.

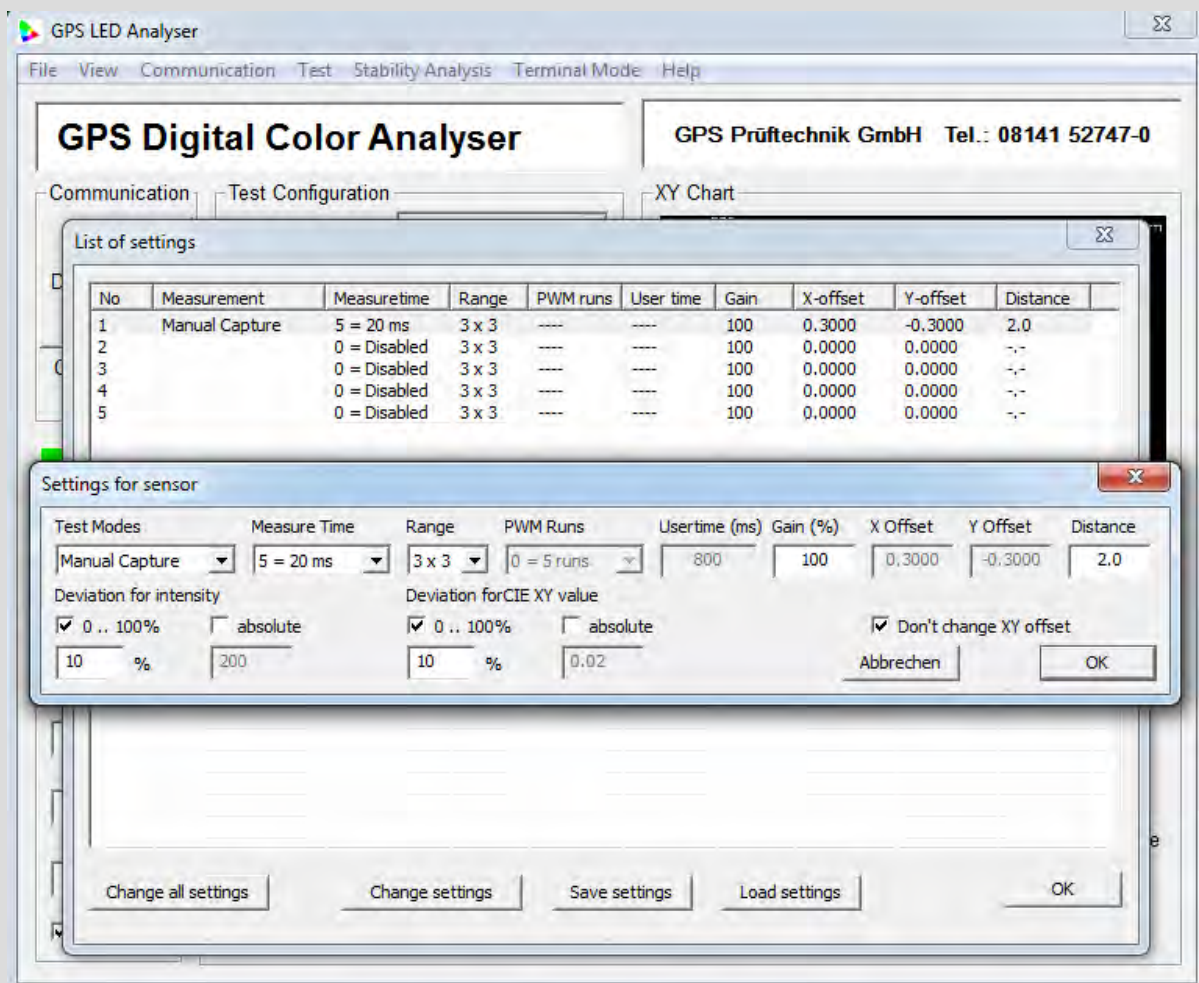




Table of contents:

VI. Accessories




1. Separate Parts
2. Sealing Profile
3. WPC USB Contact Plug
4. Omron Counter
5. Board Marker Probe
6. Box for Opens-Test
7. Opens-Test Mechanic
8. Hinged Cover
9. Vacuum Cover
10. Pressure Unit for Vacuum Fixture
11. Vacuum Snap Closure
12. Semi-automatic Wiring System

<p>Specification: UUT support Diameter: 4,0 mm Height: 4,7 mm</p> <p>Order number:</p>	 <p>Distanzstopper 1</p>	<p>Specification: UUT support Diameter: 3,0 mm Height: 3,0 mm</p> <p>Order number:</p>	 <p>Distanzstopper 2</p>
<p>Specification: UUT support Base Diameter: 3,0 mm Height: 3,0 mm</p> <p>Order number:</p>	 <p>Distanzstopper 3</p>	<p>Specification: Push down finger Diameter: 2,5 mm Length: 15,0 mm</p> <p>Order number:</p>	 <p>GPS- Niederhalter</p>
<p>Specification: POM insertion equipment, screwing from above, with eccentric borehole Diameter: 12,0 mm Height: 19,0 mm</p> <p>Order number:</p>	 <p>Einlegehilfe</p>	<p>Specification: Stop pin with two levels, for Bi-Level Fixtures (FKT/ICT) D: 4,0 mm Height: 4,7 mm</p> <p>Order number:</p>	 <p>Zweistufenabstopfstifte</p>
<p>Specification: POM insertion equipment, for WA-M(P)-xx, without PAP screwing from above, with eccentric borehole Diameter: 12,0 mm Height: 24,0 mm</p> <p>Order number:</p>	 <p>Einlegehilfe, hoch</p>	<p>Specification: Device for holding down, for changeable unit off the series 1400, 1500 and 3000 without moving plate (PAP) Length: 30,00 mm</p> <p>Order number:</p>	 <p>WA-NH-30</p>



Accessories

Separate Parts

<p>Specification: Device for holding down, for changeable unit off the series 1500 and 3000 without moving plate (PAP) Length: 25,50 mm</p> <p>Order number:</p>	 <p>WA-NH-25,5</p>	<p>Specification: Device for holding down, for changeable unit off the series 1200 without moving plate (PAP) Length: 40,00 mm</p> <p>Order number:</p>	 <p>WA-NH-40</p>
<p>Specification: Device for holding down, for changeable unit off the series 1200 with moving plate (PAP) Length: 35,00 mm</p> <p>Order number:</p>	 <p>WA-NH-35</p>		

Büro Süd
Waldstr. 4
D-82239 Alling
Telefon +49-8141-52 747-0
Telefax +49-8141-52 747-47

Büro Rhein Main
Ferdinand-Porsche-Str.17
D-63500 Seligenstadt
Telefon +49-6182-89 37-0
Telefax +49-6182-89 37-37

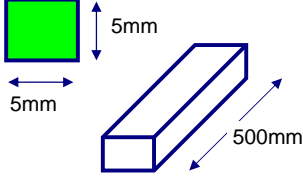
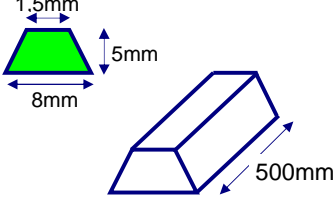
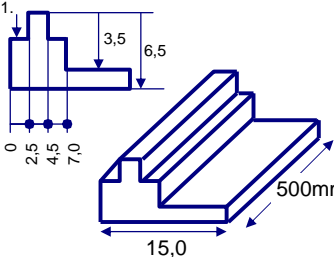
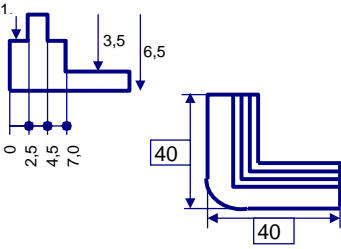
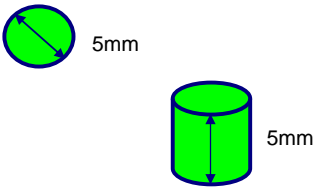
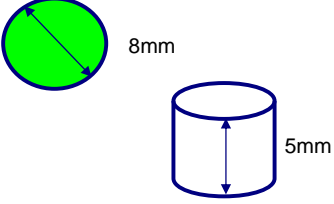
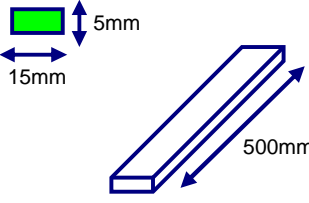
Büro Westfalen
Steigerring 25
D-59075 Hamm
Telefon +49-2381-99 110-0
Telefax +49-2381-99 110-99

Schweiz
Täferstr. 2a
CH-5405 Baden-Dättwil
Telefon +41-56-483 25 80
Telefax +41-56-483 25 89

Ungarn
Zirnyi M. u. 105
HU-8900 Zalaegerszeg
Telefon +36-92 510 740
Telefax +36-92 510 741

Internet
gps-prueftechnik.de

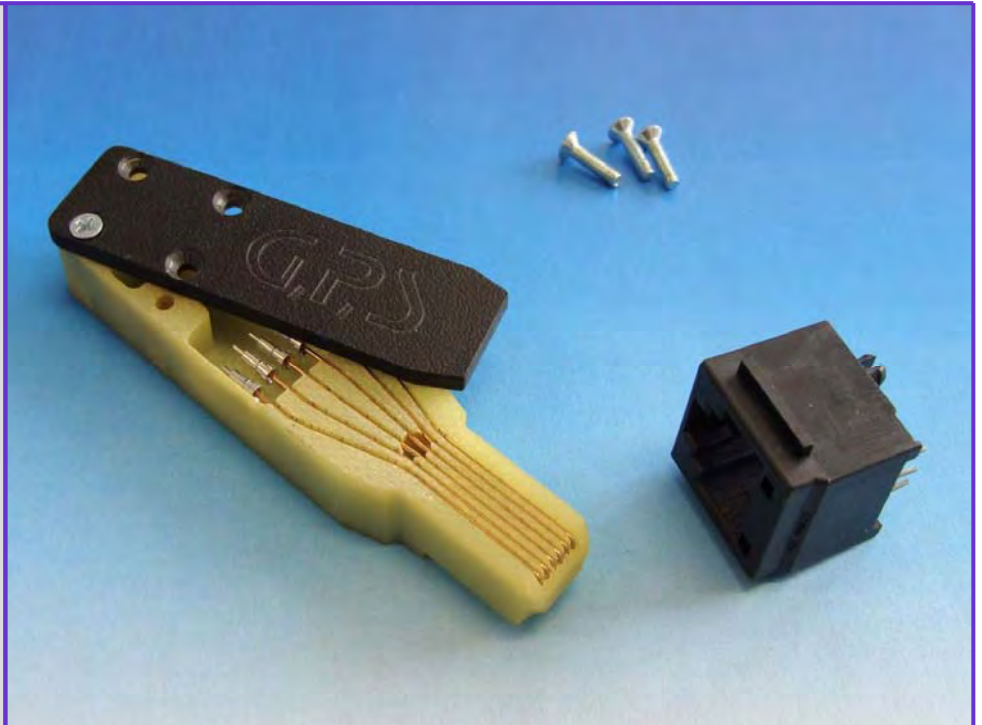
E-Mail
info@gps-prueftechnik.de

<p>Specification: Square sealing form for board border sealing 5 x 5 x 500 mm</p>	 <p>DP 9000.001 DP 9000.101 (antistatic)</p>	<p>Specification: Trapezoidal sealing form for board border sealing 8 x 5 x 1,5 x 500 mm</p>	 <p>DP 9000.003 DP 9000.103 (antistatic)</p>
<p>Specification: Sealing form for board border sealing 15 x 6,5 x 7 x 500 mm</p>	 <p>DP 9000.005 DP 9000.105 (antistatic)</p>	<p>Specification: Edge sealing form for board border sealing Edge 40x40 mm</p>	 <p>DP 9000.012 DP 9000.112 (antistatic)</p>
<p>Specification: Sealing form for boards mounting hole size: D 5,0 x 5,0 mm</p>	 <p>DP 9000.007 DP 9000.107 (antistatic)</p>	<p>Specification: Sealing form for boards mounting hole size: D 8,0 x 5,0 mm</p>	 <p>DP 9000.008 DP 9000.108 (antistatic)</p>
<p>Specification: Rectangle sealing form 5x15x500mm</p>	 <p>DP 9000.006 DP 9000.106 (antistatisch)</p>		

Accessoires

Contact plugs

WPC / USB









Technical description

- for USB and RJ 45 connectors
- contact elements made of wear-resistant material
- solder cup connection

Accessoires

Contact plugs

<p>Contact plug</p> <p>4-pole, without clamping, width: 11mm</p> <p>Order number: WPC-041</p>	
<p>Contact plug</p> <p>4-pole, without clamping, with ground pins, width: 11mm</p> <p>Order number: WPC-041M</p>	
<p>Contact plug</p> <p>6-pole, small, with clamping, width: 15mm</p> <p>Order number: WPC-06S</p>	
<p>Contact plug</p> <p>6-pole, small, without clamping, width: 15mm</p> <p>Order number: WPC-061S</p>	
<p>Contact plug</p> <p>6-pole, extra small, without clamping, width: 12mm</p> <p>Order number: WPC-061XS</p>	
<p>Contact plug</p> <p>6-pole, extra small, without clamping, with ground pins, width: 12mm</p> <p>Order number: WPC-061XSM</p>	

Accessoires

Contact plugs

<p>Contact plug</p> <p>8-pole, small, without clamping, width: 15mm</p> <p>Order number: WPC-081S</p>	
<p>Contact plug</p> <p>8-pole, small, without clamping, with ground pins, width: 15mm</p> <p>Order number: WPC-081SM</p>	
<p>Contact plug</p> <p>10-pole, without clamping, width: 22mm</p> <p>Order number: WPC-101</p>	
<p>USB contact plug</p> <p>4-pole, small without clamping, type B width: 12mm</p> <p>Order number: USB-04S</p>	
<p>USB contact plug</p> <p>4-pole, small without clamping, with ground pins, type B width: 12mm</p> <p>Order number: USB-04SM</p>	
<p>USB contact plug</p> <p>4-pole, without clamping, type A width: 15mm</p> <p>Order number: USB-A-04</p>	

Accessoires

USB contact plug

4-pole,
without clamping, with ground pins, type A
width: 15mm

Order number: **USB-A-04M**

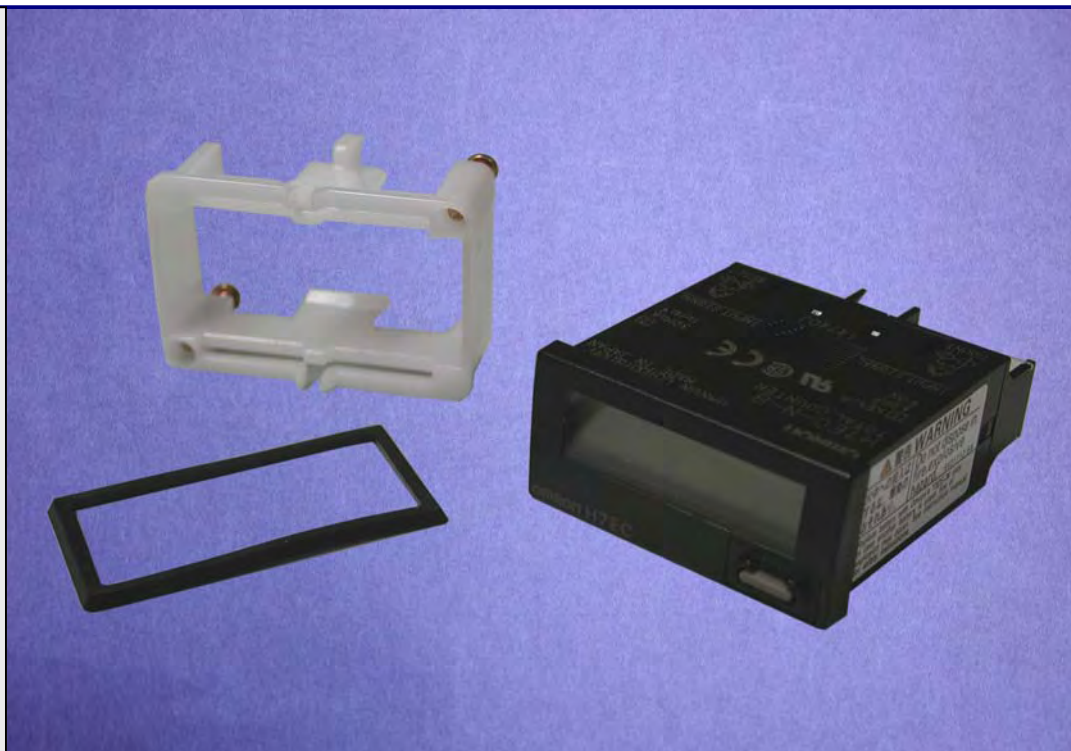
Contact plugs



Further contact plugs on request



Counter

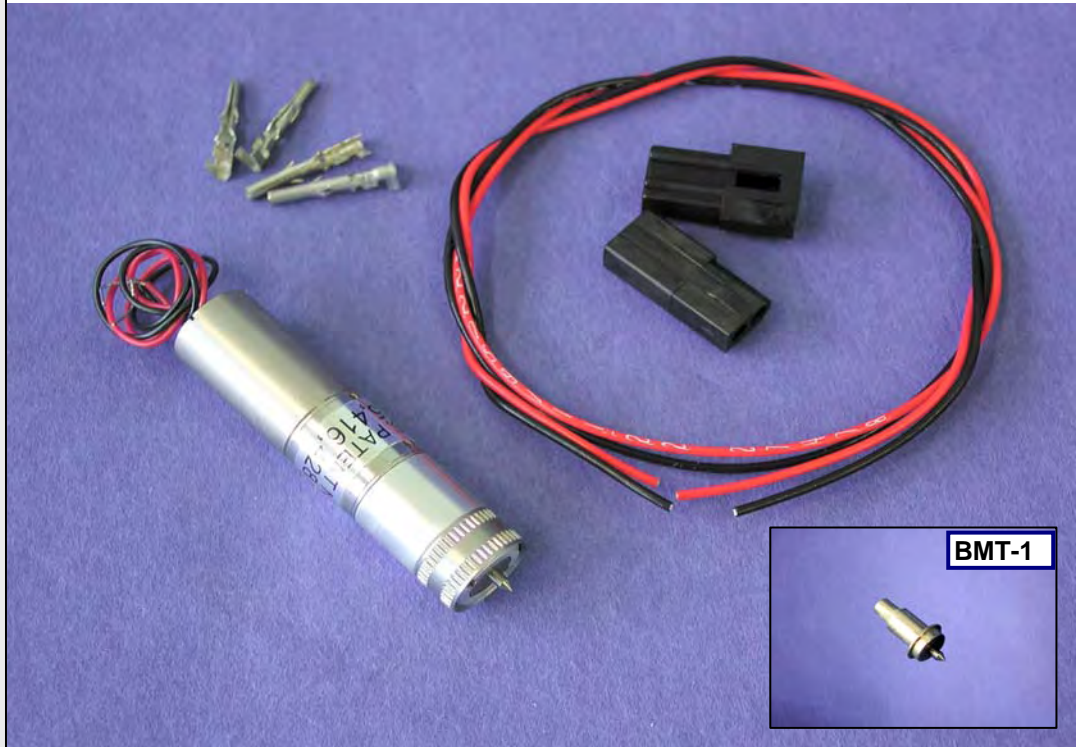


Fixture specification

- Battery-powered counter (changeable)
- Mounting hole: 45,0 x 22,2 mm
- Outside dimensions: 48,0 x 24,0 x 47,0 mm
- Reset of counter possible
- Display with 8, 4 or 5 digits
- Count rate 30Hz to 10 kHz

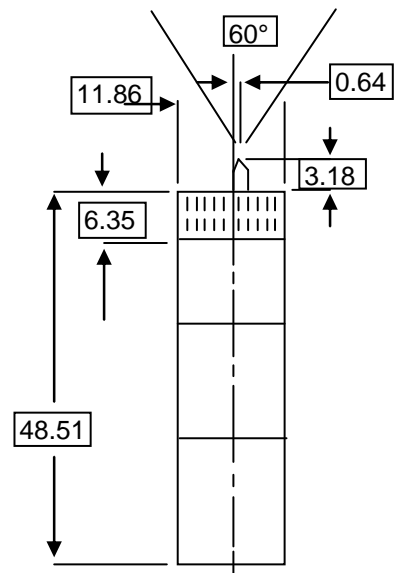
BMP-1

BMT-1



Specification

- Compact construction
 - Marker tip spring-mounted
 - Corrugated receptacle (with press ring)
 - Cables and connectors incl.
 - Short delivery time
- | | |
|---------------------------|-----------------------------------|
| - Rated Voltage: | 15V DC |
| - Rated Current: | 50 milliamps |
| - Recomm. Duty Cycle: | 1 second on min.
5 seconds off |
| - Full Marker Tip Travel: | 1,6 mm |
| - Recomm. Working Travel: | 1,3 mm |
| - Scribed Diameter: | 1,3 mm |
| - Direction of Rotation: | CCW |
| - Plunger Tip: | Carbido |
| - Receptacle: | Stainless steel |
| - Mounting Hole Size: | 11,9 mm |



OWB-FS

OWB-TJ

OWB-TJ-C

OWB-OMP







Delivery without acrylic plastic lid

Technical specification

- Unit for a quick change of Multiplex-Boards (MUX-Board)
- Available for Agilent, Teradyne and GenRad
- Lower-cost due to a one-off purchase of the box and of the MUX-Board
- Low energy consumption by changing
- Box made of ESD material
- Easy change of the connectors (in case of wear)
- Standard wiring inside the box
- The locking take place with our proofed PAG-system
- Box with connector and two PAG arrester bolts
- Delivery without MUX-Board and wiring

Accessories for OWB-xxx

<p>Specification: Opens-Change-Box Box with connectors and PAG-plugs, without FS-MB and wiring</p> <p>Order number:</p>	 <p>OWB-FS</p>	<p>Specification: Opens-Change-Box Box with connectors and PAG-plugs, without TJ-MB and wiring</p> <p>Order number:</p>	 <p>OWB-TJ</p>
<p>Specification: Opens-Change-Box Box with connectors and PAG-plugs, without TJ-MB-C and wiring</p> <p>Order number:</p>	 <p>OWB-TJ-C</p>	<p>Specification: Opens-Change-Box Box with connectors and PAG-plugs, without GR-OXP-OFM and without wiring</p> <p>Order number:</p>	 <p>OWB-OXP</p>
<p>Specification: Wiring of the Change-Box</p> <p>Order number:</p>	 <p>OWB-VER</p>	<p>Specification: Construction kit for the fixture, connectors and PAG-arrester bolts incl., (without wiring)</p> <p>Order number:</p>	 <p>OWB-ADAP</p>

OTM-25 to OTM-35



Fixture specification

- Plain Opens-Test -Mechanic, foldable
- Available in three different sizes (25, 32 and 35 mm)
- Size can be adapted individual
- Suited to Opens-Test sensor plates of Agilent, GenRad, IFR and Teradyne
- No additional locking necessary
- Gas spring, grip and cover incl.
- Delivery without sensor plates and MUX-board

SWH-01 to SWH-09



Fixture specification

- GPS hinged cover standard for two side probing
- Parallel hinged frame (at the last 30 mm)
- Available in seven different sizes
- Free accessibility of the UUT after opening
- Lid and pin protecting plate made of ESD acrylic plastic
- Stable quality due to G10 material (GP quality)
- Guided from four guide pins and slide sleeves
- Wear part made of high-quality steel
- Gas spring, hinge and starter switch incl.
- Sealing with 4mm loop
- Gas spring arrangement can be set universally
- Can be incorporated into all vacuum fixtures
- Push down fingers are not incl.

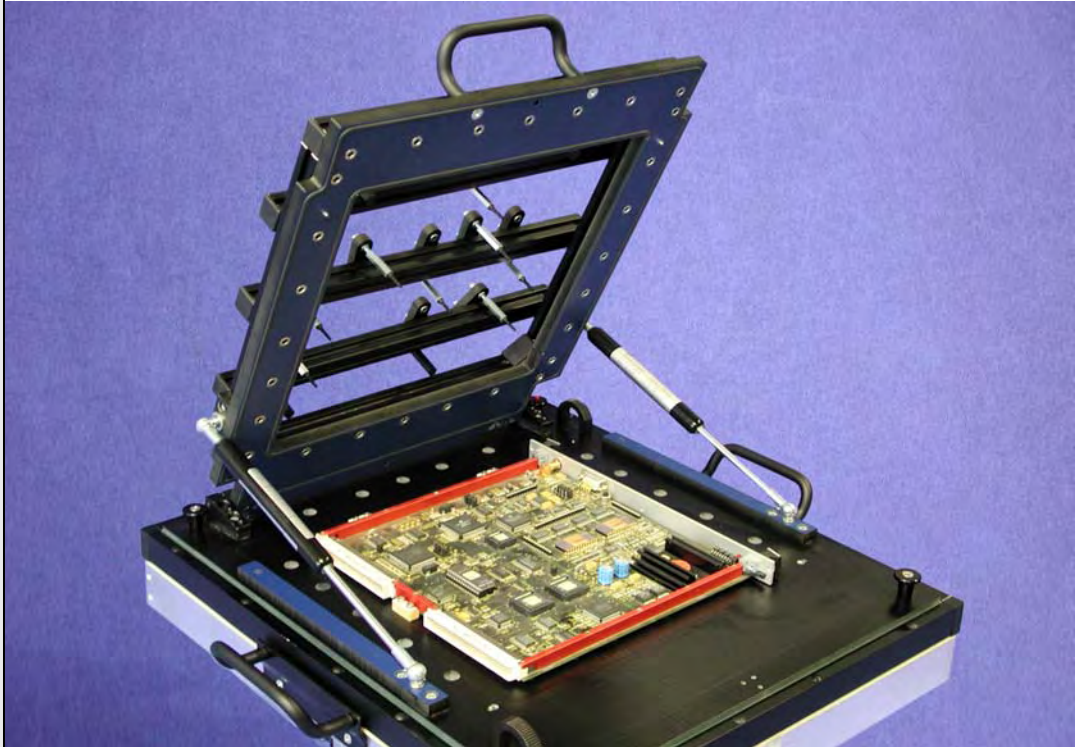
VH-01 to VH-14



Fixture specification

- GPS Vacuum Cover standard
- Available in 14 different sizes
- Lid made of ESD acrylic plastic
- Height-adjustable through a frame system
- Frame with sealing cord, can be mounted separately (without gluing)
- Cover sealing with loop, 4mm
- Gas spring, hinge and mounting support incl.
- Ergonomically designed grip
- Can be used for all systems
- Pushdown finger is not included in the fixture kit

ADR-01




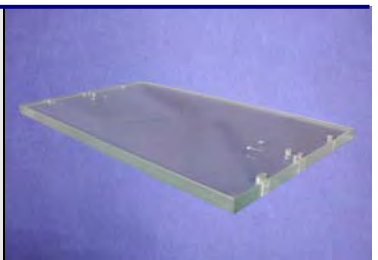

Fixture specification

- Pressure unit for vacuum-free zone
- Suited for non vacuum-tight boards
- Pushed down by vacuum
(additionally locking is not necessary)
- Free access to the board by pressed holddown element
- Stable quality through aluminium profiles
- Opens Test installation possible
- Can be set to all vacuum systems
- Pushdown crossheads and pushdown plate are not included in the unit

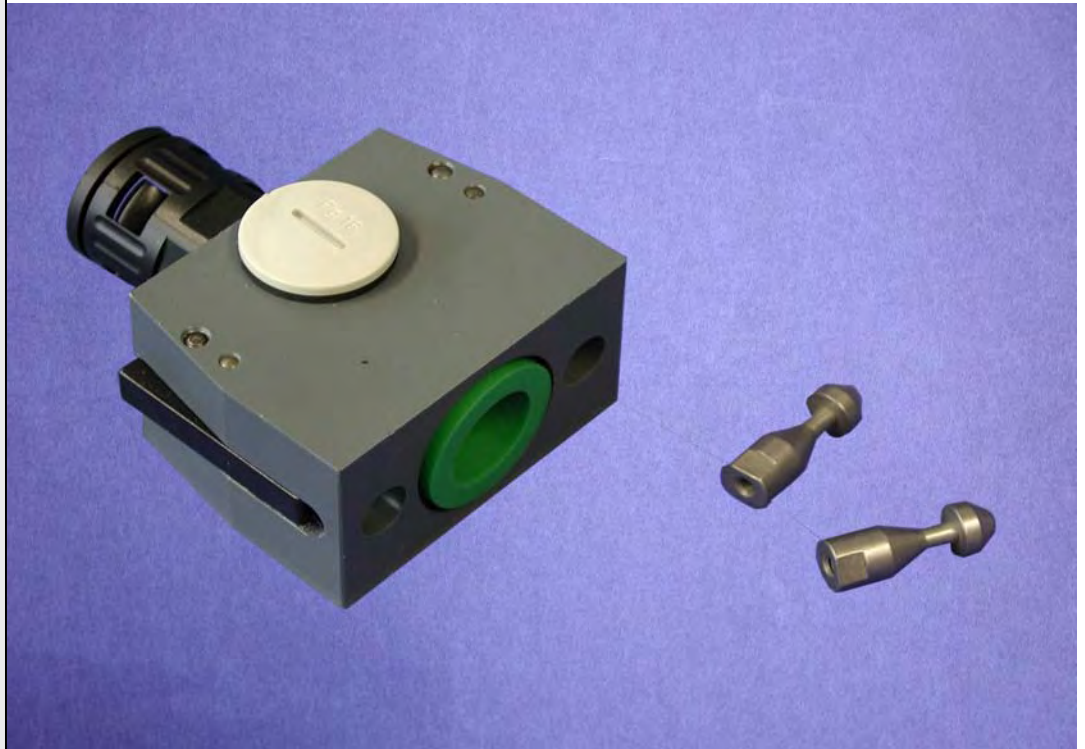
Accessories

Pressure unit for vacuum fixture

Accessories for ADR-01

<p>Specification: Holddown element , crosshead with 3 height- adjustable pushdown fingers preassembled, mounting material incl. Length : 316 mm</p> <p>Order number:</p>	 <p>ADR-AE-316</p>	<p>Specification: Holddown plate made of ESD acrylic plastic (15 mm)</p> <p>Outside dimension: 316 x 340 mm</p> <p>Order number:</p>	 <p>ADR-AP-316</p>
<p>Specification: Adjustable pushdown finger mounting material incl.</p> <p>Order number:</p>	 <p>WA-VNH-1</p>		

VSV-1



Fixture specification

- Vacuum snap closure for systems without an own vacuum port
- Low-cost through an one-off purchase
- Simple fixing of the arrester bolts
- Onlocking through hooks
- Locking mechanism through two steel arrester bolts
- Vacuum port is available in all sizes
- Vacuum port straight or 90° angle

GADWRAP-2001





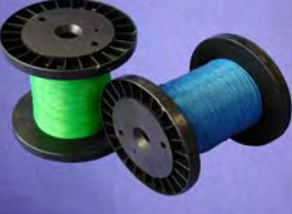



Specification:

- Semi-automatic wiring system
- Software available for all common test systems (Teradyne, GenRad, Agilent, Rohde & Schwarz, Digitaltest etc.)
- Process speed up to 120 wirings per hour
- Quick-acting clamping device for easy and fast fixture fixing
- Sizes: Width 1630 x Height 2000 x Depth 730 mm
- Traverse path: X 1250 mm Y 950 mm
- Weight: aprox. 120 kg
- Power supply: 240V
- Linear guiding over precision shafts (12mm) and ball screw drive
- Repetition accuracy +/- 0,02mm
- Stepping motors with up to 1500 rev/min (holding torque 160 Ncm)
- Incl. control system with:
 - CNC controller for stepping motor
 - Power block
 - Interface board
 - Control board for the stepping motor
- Software, PC, tools etc. are not included (see price list)

Semi Automatic Wiring System

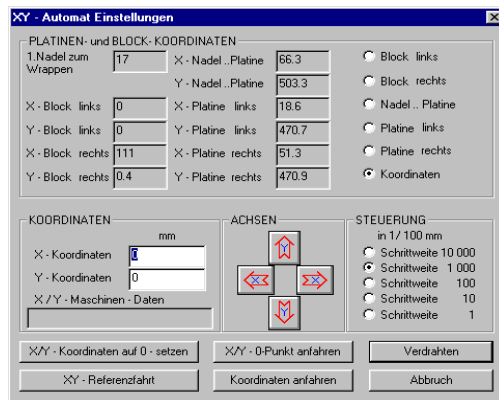
Accessories for GADWRAP-2001

<p>Specification: Training on the semi-automatic wiring system</p> <p>Order number:</p>	 <p>GADWRAP-ORT</p>	<p>Specification: Support for wrap pistole, on a traverser truck (ball-bearing)</p> <p>Order number:</p>	 <p>GADWRAP-HALT</p>
<p>Specification: Wire-wrap-pistole, suited for the traverser truck</p> <p>Order number:</p>	 <p>WRAP-PISTOLE</p>	<p>Specification: Wrap tools for different sizes AWG 25 - AWG 30</p> <p>Order number:</p>	 <p>WRAP-EINSATZ</p>
<p>Specification: Wire (wrap) in different colours and sizes AWG 25- AWG 30</p> <p>Order number:</p>	 <p>WRAP-DRAHT</p>	<p>Specification: Personal Computer with monitor, mouse and keyboard</p> <p>Order number:</p>	 <p>Personal Computer</p>

Accessories for GADWRAP-2001

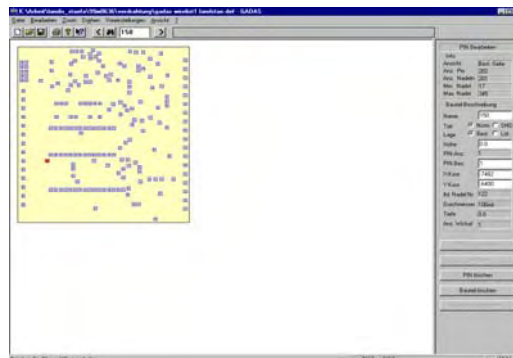
Specification:

The Gadas software is designed especially for the semi-automatic wiring system with the following features.



Features:

- windows compatible
- easy to install
- user-friendly
- applicable to all test system
- accurate and fast wiring
- easy to learn
- quick data reading
- optical depiction
- can be turned and zoomed
- drawing up of component plans
- drawing up of wiring lists
- print of test points drawings
- customer specified interfaces
- customer specified adjustments can be stored
- great variety of defined interfaces
- depiction of the pin number, the component and the xy-coordinates
- two pre-definable text editors



System requirements:

IBM compatible with CPU-family PII or higher (min 200 MHz)
 MS Windows 95, 98 NT 3.51 or newer versions
 Main memory for Win 98, min. 64MB or Win NT, min.128MB
 Monitor 17" -19" recommended

Order number:

GADWRAP-SOFT

Büro Süd
 Waldstr. 4
 D-82239 Alling
 Telefon +49-8141-52 747-0
 Telefax +49-8141-52 747-47

Büro Rhein Main
 Ferdinand-Porsche-Str.17
 D-63500 Seligenstadt
 Telefon +49-6182-89 37-0
 Telefax +49-6182-89 37-37

Büro Westfalen
 Steiggerring 25
 D-59075 Hamm
 Telefon +49-2381-99 110-0
 Telefax +49-2381-99 110-99

Schweiz
 Täferenstr. 2a
 CH-5405 Baden-Dättwil
 Telefon +41-56-483 25 80
 Telefax +41-56-483 25 89

Ungarn
 Zirnyi M. u. 105
 HU-8900 Zalaegerszeg
 Telefon +36-92 510 740
 Telefax +36-92 510 741

Internet
 gps-prueftechnik.de
 E-Mail
 info@gps-prueftechnik.de



GPS Gruppe

Büro Süd:
GPS Prüftechnik GmbH
Wald Str. 4
D-82239 Alling
Telefon +49-8141-52 747-0
Telefax +49-8141-52 747-47

Büro Rhein/Main:
GPS Prüftechnik Rhein/Main GmbH
Ferdinand-Porsche-Str.17
D-63500 Seligenstadt
Telefon +49-6182-89 37-0
Telefax +49-6182-89 37-37

Büro Westfalen
GPS Prüftechnik GmbH
Steigerring 25
D-59075 Hamm
Telefon +49-2381-99 110-0
Telefax +49-2381-99 110-99

Internet: gps-prueftechnik.de

E-Mail: info@gps-prueftechnik.de

Ungarn:
GPS Prüftechnik Kft.
Zirnyi M. u. 105
HU-8900 Zalaegerszeg
Telefon +36-92 510 740
Telefax +36-92 510 741

Schweiz:
GPS Prüftechnik AG
Täferstr. 2a
CH-5405 Baden-Dättwil
Telefon +41-56-483 25 80
Telefax +41-56-483 25 89

GPS Vertriebsbüro Ost
Dieter Boldt
Olwenstraße 26
D-13465 Berlin
Telefon +49-30 - 401 19 03
Telefax +49-30 - 401 00 816