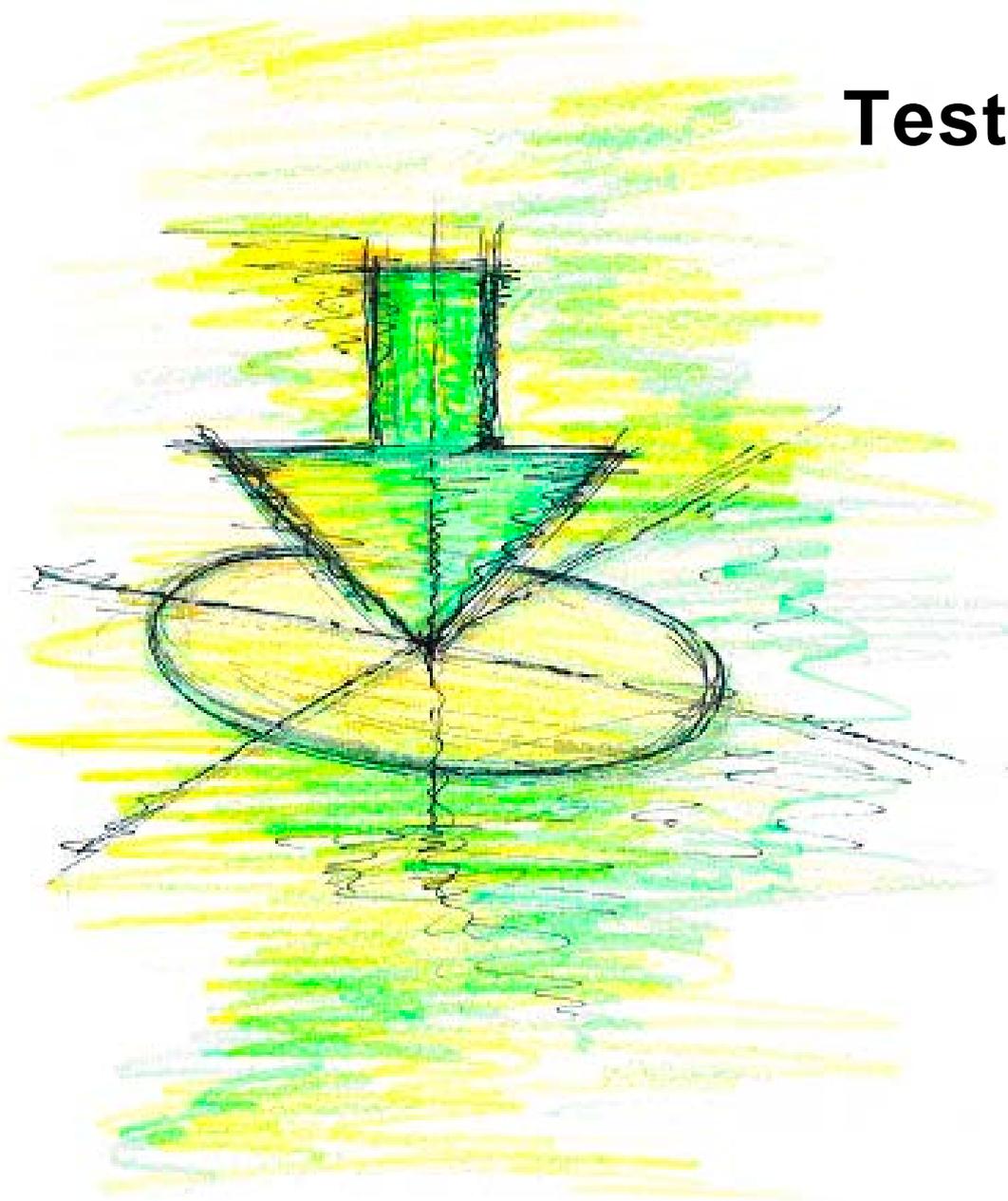


# Mechanical Test Adapter and Test Plugs



# Mechanical Test Adapter and Test Plugs

Model series m3522 and p3522 standard	Page 1
Model series m3522-2 ESD and p3522-2 ESD	Page 3
Model series m3522-3 (ESD) one-hand operation	Page 5
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Test Plugs Western-Min (RJ45), TAE, USB, special plugs	Page 10
Some examples for function usage	Appendix





# Mechanical test adapter

Model series m3522 and p3522 - Standard



Mechanical or pneumatic adapter system with interchangeable contact pin or test item carrier plate.

Alternatively available with hold-down plate or hold-down bars.

An alternative to one-way adapters, whereby the price/benefit ratio and design meet today's requirements.

Naturally, we also supply processing for specific test items if required.

Base frame with lifting mechanism and positive locking as well as pivoting hold-down system for holding interchangeable plates.

Combined contact pin and test item carrier plate with leading, spring-mounted catch and support pins and internal transfer interface.

Parallel acting contact stroke with optimum pull-down system by means of 4 guide columns.

Positively locked hold-down system in connected state.

Pivoting adapter frame for debugging on test system.

➔ **Request an offer !**

Ordering Example - see overleaf

## Technical Data:

### Dimensions:

Base area (WxL) 520 x 400 mm  
Total height max. 225 mm

**Weight max.:** ca. 14 kg

**Effective surface max.:** 350 x 220 mm

**Hold-down stroke max:** 10 mm

**Plate thickness of Contact pin carrier plate:** 12 mm

**Contact pressure:** **Manual** 350 N  
**Pneumatic** 600 N

### Internal adapter transfer interface:

6-off 64-pin blade connector strips DIN 41612  
Alternative 96-pin blade connector strips, coaxial and zero force connector systems

### Test system interfaces:

GR 227x; R&S (TSI/TSA); Marconi, Digitaltest (MTS 50,100,200), others possible





# Ordering Example

## Requirement:

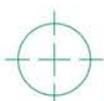
For example you need an adapter operated manually and equipped with internal transfer interface (fixture for contacting unit), for a range of ca. 120 measuring lines  
The adapter is used at a function testing station with PC test system.

## Order Volume:

- 1 piece Contacting unit with mechanical hold down and manual stroke movement via operating handle, incl. internal interface for max. 6 VG borders
- 1 piece Fixture kit with cable entry point to the rear
- 1 piece Fixture kit with pressure down plate incl. 15 pcs. pressure down pins and 4 pcs. support and center pins with raw status for specific working
- 2 piece Kit; VG-bar (64pin female multipoint connector) incl. clamp material
- 2 piece Kit; VG-bar (64pin male multipoint connector) incl. distances and clamp material

## Order for standard configuration

Pos.	Piece	Order no.	Name
1	1	1059-02-000	Contacting unit m3522
2	1	1033-10-000	Housing m3522 incl. rear cover plate
3	1	1022-03-000	Fixture kit with pressure down plate
4	2	1002-50-000	Kit; VG-bar (64pin female multipoint connector)
5	2	1002-53-000	Kit; VG-bar (64pin female multipoint connector)





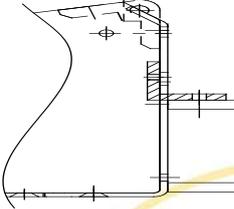
# Mechanical test adapter

Model series m3522 / p3522 - Standard



Order number	Contacting unit m/p 3522
	
1059-01-000	Contacting unit m3522 with 10mm working stroke without internal interface
1059-02-000	Contacting unit m3522 with 10mm working stroke with internal interface
1059-05-000	Contacting unit p3522 with 10mm working stroke without internal interface
1059-06-000	Contacting unit p3522 with 10mm working stroke with internal interface

Order number	Housing m/p 3522
	
1033-01-000	Housing m 3522-GenRad 2270
1033-02-000	Housing p 3522-GenRad 2270
1033-04-000	Housing m 3522-MTS 50/100
1033-05-000	Housing p 3522-MTS 50/100
1033-06-000	Housing m 3522-Marconi Midata 510
1033-07-000	Housing p 3522-Marconi Midata 510
1033-08-000	Housing m 3522-Zehntel small / medium
1033-09-000	Housing p 3522-Zehntel small / medium
1033-10-000	Housing m 3522 with rear cover plate
1033-11-000	Housing p 3522 with rear cover plate
	Further housings on inquiry

Order number	Test System Interface for
	
1002-42-000	Digitaltest MTS 50/100
1002-43-000	Digitaltest MTS 60
1002-47-000	GenRad 2270
1002-59-000	GenRad 2275/76
1002-61-000	R & S – TSA/P
1002-64-000	Marconi 80R
1002-63-000	Marconi 80R (V-Adapter)
	Further interfaces on inquiry



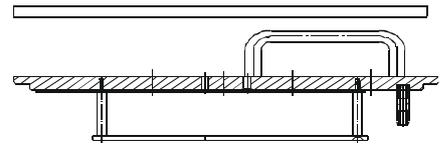


# Mechanical test adapter

Model series m3522 / p3522 - Standard



Order number	Fixtures m/p 3522
1022-01-000	Fixture without pressure down plate
1022-03-000	Fixture with pressure down plate
1022-21-000	Fixture with pressure down plate and centering device



Order number	Fixture options m/p 3522
1022-22-000	Pressure down plate incl. 15 pcs. pressure down pins
1022-16-000	1 pcs. pressure down bar with 6 pcs. pressure down pins and 2 pcs. turnable holder for pressure down pins
1022-36-000	Centering device for WS 3522

Order number	Additional components / Single items
1002-53-000	Kit VG-bar (64pin male multipoint connector) for fixture
1002-50-000	Kit VG-bar (64pin female multipoint connector) for contacting unit
1002-54-000	Kit VG-bar (96pin male multipoint connector) for fixture
1002-51-000	Kit VG-bar (96pin female multipoint connector) for contacting unit
594636	Male multipoint connector for MTS 50/100: C/2 32pin.
414409	Male multipoint connector for MTS 60: 64pin. DIN 41612
414415	Male multipoint connector for MTS 60: 96pin. DIN 41612
WRAP-CB-96P	Label for pin configuration
WRAP-CC-96P	Label for pin configuration
1022-01-002	Wiring cover plate
1002-18-000	Kit of support and center pins with raw status for specific working
1002-68-000	Kit of support and center pins with raw status for 14 mm stroke
1002-52-000	Kit of distance bolts for male multipoint connector with screw
1002-11-000	Internal interface blank / kit
1002-12-000	Internal interface standard / kit
1002-56-000	Kit pressure down pins (standard l = 43 mm)
1028-00-004	Turnable holder for pressure down pins 20 mm
1028-00-001	Turnable holder for pressure down pins 25 mm
1028-00-002	Turnable holder for pressure down pins 30 mm
1028-00-003	Turnable holder for pressure down pins 35 mm
1022-02-001	Pressure down plate without pressure down pins t = 10 mm
1022-01-001	Contact pin carrier plate t = 12 mm
1022-01-005	Contact pin carrier plate t = 12 mm
1022-16-001	Pressure down bar
1033-03-000	Cover plate for interface incl. accessories
1299-76-000	Sensor „pressure down flap closed“

<b>Graduated price scale:</b>	up to 3 pcs.	Unit price
	3 – 5 pcs.	3 %
	6 – 9 pcs.	7 %
	from 10 pcs.	10 %

The contact pins and -sockets are excluded from quantity discount.

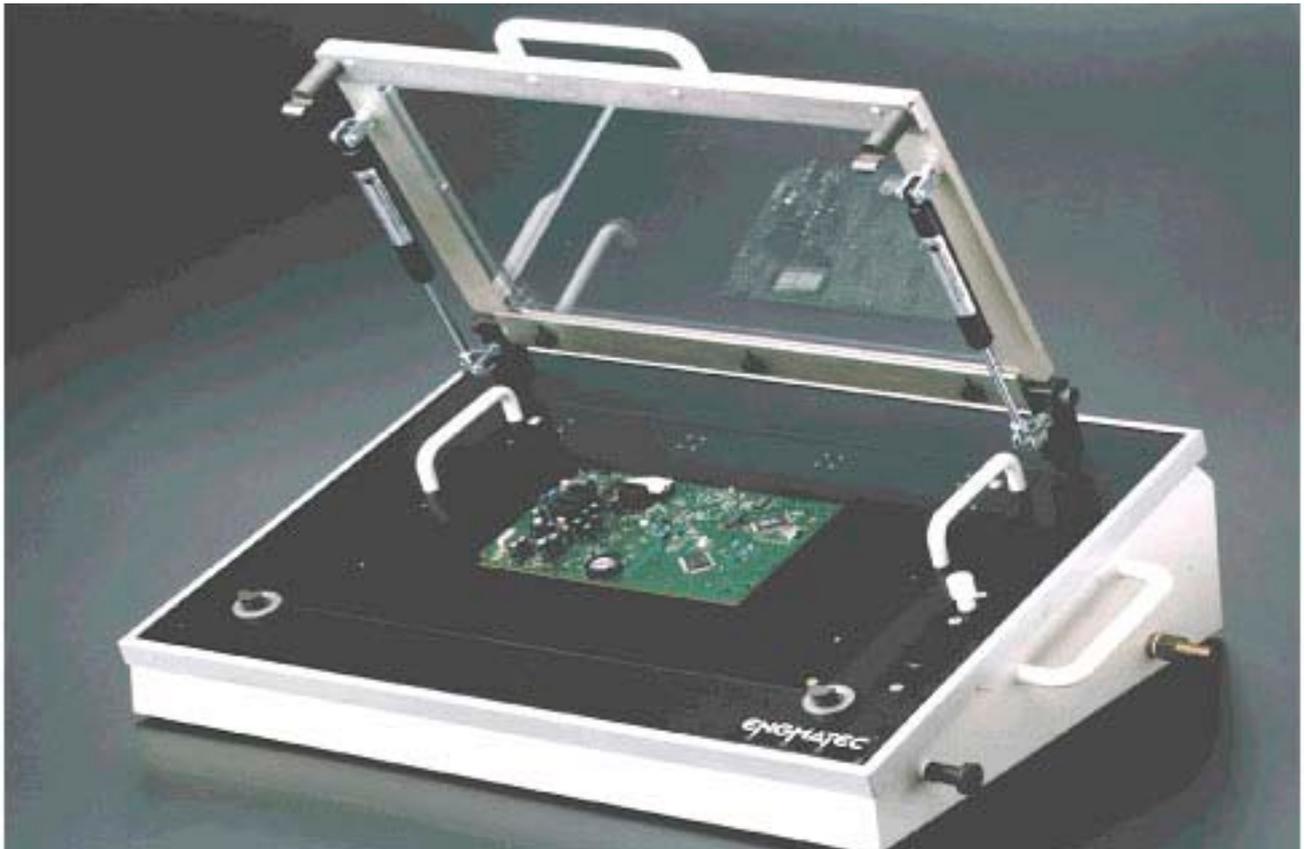
Prices are according to number per product. All prices indicated are subject to alterations and printing errors.





# Mechanical test adapter

Model series m3522-2 and p3522-2 - ESD



Mechanical or pneumatic adapter system with interchangeable contact pin or test item carrier plate.

Alternatively available with hold-down plate or hold-down bars.

An alternative to one-way adapters, whereby the price/benefit ratio and design meet today's requirements.

Naturally, we also supply processing for specific test items if required.

Base frame with lifting mechanism and positive locking as well as pivoting hold-down system for holding interchangeable plates.

Combined contact pin and test item carrier plate with leading, spring-mounted catch and support pins and internal transfer interface.

Parallel acting contact stroke with optimum pull-down system by means of 4 guide columns.

Positively locked hold-down system in connected state.

Pivoting adapter frame for debugging on test system.

➔ **Request an offer !**

Ordering Example - see overleaf

## Technical Data:

### Dimensions:

Base area (W x L)	520 x 418 mm
Total height max.	225 mm

### Weight max.:

ca. 12 kg

### Effective surface max.:

220 x 350 mm

### Hold-down stroke max.:

10 mm

OPTIONAL in mech. version:

14 mm

### Plate thickness of

### contact pin carrier plate:

10 mm

**Contact pressure:** manual

350 N

pneumatic

600 N

### Internal adapter transfer interface:

6-off 96-pin blade connector strips DIN 41612  
Alternative 64-pin blade connector strips,  
coaxial and zero force connector systems

### Test system interfaces:

GR 227x; R&S (TSI/TSA); Marconi,  
Digitaltest (MTS 50,100,200)  
others possible

**OPTIONAL: 2-stage stroke in pneumatic version**





# Ordering Example

## Requirement:

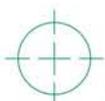
For example you need an adapter operated manually in ESD version, equipped with internal transfer interface (fixture for contacting unit), for a range of ca. 120 measuring lines  
The adapter is used at a function testing station with PC test system.

## Order Volume:

- 1 piece Contacting unit with mechanical hold down and manual stroke movement via operating handle, incl. internal interface for max. 6 VG borders
- 1 piece Fixture kit with cable entry point to the rear
- 1 piece Fixture kit with pressure down plate incl. 15 pcs. pressure down pins and 4 pcs. support and centre pins with raw status for specific working
- 2 piece Kit; VG-bar (64pin female multipoint connector) incl. clamp material
- 2 piece Kit; VG-bar (64pin male multipoint connector) incl. distances and clamp material

## Order for ESD version

Pos.	Piece	Order no.	Name
1	1	1037-37-000	Contacting unit m3522-2
2	1	1037-84-000	Housing m3522 incl. rear cover plate
3	1	1037-03-000	Fixture kit with pressure down plate
4	2	1002-50-000	Kit; VG-bar (64pin female multipoint connector)
5	2	1002-53-000	Kit; VG-bar (64pin female multipoint connector)

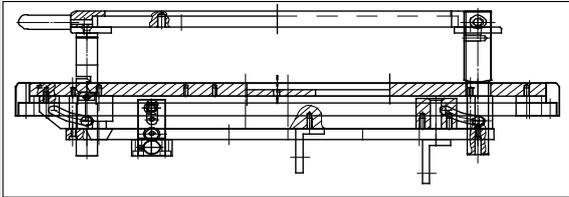


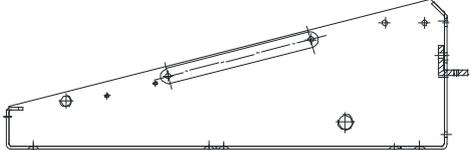


# Mechanical test adapter

Model series m3522-2 and p3522-2 - ESD



Order number	Contacting units m/p 3522-2	
	<b>ESD</b> 	
1037-36-000	Contacting unit m 3522-2 with 10 mm working stroke without internal interface	
1037-37-000	Contacting unit m 3522-2 with 10 mm working stroke with internal interface	
1037-38-000	Contacting unit m 3522-2 with 14 mm working stroke without internal interface	
1037-39-000	Contacting unit m 3522-2 with 14 mm working stroke without internal interface	
1037-40-000	Contacting unit p 3522-2 with 10 mm working stroke without internal interface	
1037-41-000	Contacting unit p 3522-2 with 10 mm working stroke with internal interface	
1037-42-000	Contacting unit p 3522-2 with 14 mm working stroke without internal interface	
1037-43-000	Contacting unit p 3522-2 with 14 mm working stroke without internal interface	
1037-07-000	Contacting unit p 3522-2/8+6 mm working stroke, with internal interface	
1037-09-000	Contacting unit p 3522-2/14 Power working stroke, with internal interface	
1170-01-000	Contacting unit p 4040-2 with 10 mm working stroke with internal interface*	

Order number	Housing m/p 3522-2	
		
1037-01-000	Housing m 3522-2 GenRad 2270	
1037-49-000	Housing p 3522-2 GenRad 2270	
1037-50-000	Housing m 3522-2 MTS 50/100	
1037-51-000	Housing p 3522-2 MTS 50/100	
1037-52-000	Housing m 3522-2 Marconi Midata 510	
1037-53-000	Housing p 3522-2 Marconi Midata 510	
1037-83-000	Housing p 3522-2 with MTS 200	
1037-84-000	Housing m/p 3522-2 with rear cover plate	
1037-93-000	Housing m/p 3522-2 for GenRad 2281	
1279-02-000	Housing m/p 3522-2 with Reinhardt KFMT-470	
1279-03-000	Housing p 3522-2 MTS300	
1170-02-000	Housing p 4040-2 *	
1218-18-000	Housing m/p 3522-2 (50 mm higher)	

\* Special design with larger dimensions; useable area = 400 x 400 mm

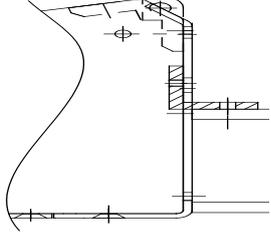


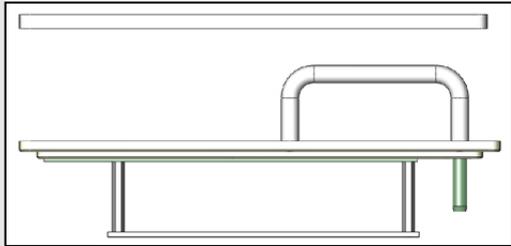


# Mechanical test adapter

Model series m3522-2 and p3522-2 - ESD



Order number	Test System Interface for
	
1002-42-000	Digitaltest MTS 50/100
1002-43-000	Digitaltest MTS 60
1002-47-000	GenRad 2270
1279-04-000	Zehntel medium
1002-61-000	R & S – TSA-P
1279-02-002	Reinhardt KFMT-470
	Further interfaces on inquiry

Order number	Fixtures m/p 3522-2
	 <p><b>ESD</b> </p>
1037-23-000	Fixture without pressure down plate
1037-03-000	Fixture with pressure down plate
1037-26-000	Fixture with pressure down plate and centering device
1170-03-000	Fixture 4040-2 with pressure down plate*

\* Special design with larger dimensions; useable area = 400 x 400 mm





# Mechanical test adapter

Model series m3522-2 and p3522-2 - ESD



Order number	Fixture options m/P 3522-2
	<b>ESD</b>
1037-24-000	Pressure down plate incl. 15 pcs. pressure down pins
1037-67-000	Pressure down plate 10 mm incl. 15 pcs. pressure down pins (pass. f. m/p3522)
1037-25-000	1 pcs. pressure down bar with 5 pcs. pressure down pins and 2 pcs. turnable holder for pressure down pins

Order number	Additional components / Single items
1002-53-000	Kit VG-bar (64pin male multipoint connector) for fixture
1002-50-000	Kit VG-bar (64pin female multipoint connector) for contacting unit
1002-54-000	Kit VG-bar (96pin male multipoint connector) for fixture
1002-51-000	Kit VG-bar (96pin female multipoint connector) for contacting unit
594636	Male multipoint connector for MTS 50/100: C/2 32pin.
414409	Male multipoint connector for MTS 60: 64pin. DIN 41612
414415	Male multipoint connector for MTS 60: 96pin. DIN 41612
WRAP-CB-96P	Label for pin configuration
WRAP-CC-96P	Label for pin configuration
1022-01-002	Wiring cover plate
1002-18-000	Kit of support and center pins with raw status for specific working
1002-68-000	Kit of support and center pins with raw status for 14 mm stroke
1002-52-000	Kit of distance bolts for male multipoint connector with screw
1002-11-000	Internal interface blank / kit
1037-66-000	Internal interface standard / kit
1037-65-000	Kit pressure down pins (standard l = 43 mm)
1037-46-001	Pressure down bar
1028-00-005	Turnable holder for pressure down pins (ESD) 20 mm
1028-00-006	Turnable holder for pressure down pins (ESD) 25 mm
1028-00-007	Turnable holder for pressure down pins (ESD) 30 mm
1028-00-008	Turnable holder for pressure down pins (ESD) 35 mm
1037-03-002	Pressure down plate (ESD) without pressure down pins t = 8 mm
1037-03-001	Contact pin carrier plate (ESD) t = 10 mm
1033-03-001	Cover plate for interface
1299-76-000	Sensor „pressure down flap closed“

**Graduated price scale:**

up to 3 pcs.	<u>Unit price</u>
3 – 5 pcs.	3 %
6 – 9 pcs.	7 %
from 10 pcs.	10 %

The contact pins and -sockets are excluded from quantity discount.  
 Prices are according to number per product. All prices indicated are subject to alterations and printing errors.

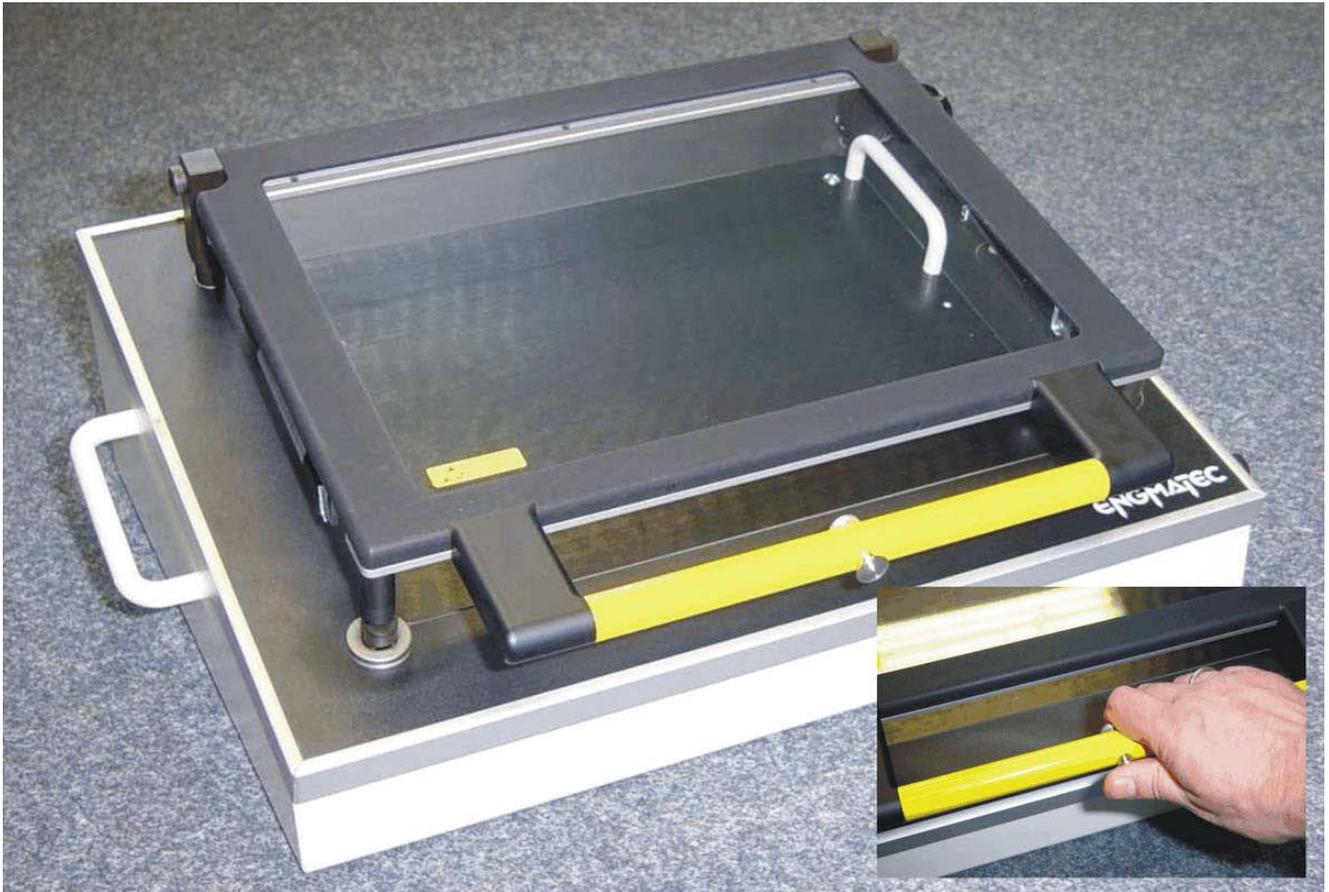




# Mechanical test adapter

One-hand operation

Model series p3522-3



The lifting mechanism is actuated by a switch integrated into the handle.

Pneumatic adapter system with interchangeable contact pin or test item carrier plate.

Alternatively available with hold-down plate or hold-down bars.

An alternative to one-way adapters, whereby the price/benefit ratio and design meet today's requirements.

Naturally, we also supply processing for specific test items if required.

Base frame with lifting mechanism and positive locking as well as pivoting hold-down system for holding interchangeable plates.

Combined contact pin and test item carrier plate with leading, spring-mounted catch and support pins and internal transfer interface.

Parallel acting contact stroke with optimum pull-down system by means of 4 guide columns.  
Positively locked hold-down system in connected state.  
Pivoting adapter frame for debugging on test system.

→ **Request an offer !**

## Technical Data:

### Dimensions:

Base area (W x L) 520 x 418 mm  
Total height max. 225 mm

### Weight max.:

ca. 12 kg

### Effective surface max.:

220 x 350 mm

### Hold-down stroke max:

10 mm

### OPTIONAL:

14 mm

### Plate thickness of contact pin carrier plate:

10 mm

### Contact pressure:

pneumatic 600 N

### Internal adapter transfer interface:

6-off 96-pin blade connector strips DIN 41612  
Alternative 64-pin blade connector strips, coaxial and zero force connector systems

### Test system interfaces:

GR 227x; R&S (TSI/TSA); Marconi, Digitaltest (MTS 50,100,200) others possible





## Ordering example

### Requirement:

For example you need an adapter operated pneumatically in ESD version, equipped with internal transfer interface (fixture for contacting unit), for a range of ca. 120 measuring lines  
The adapter is used at a function testing station with PC test system.

### Order Volume:

- 1 piece Contacting unit with mechanical hold down and pneumatic stroke movement incl. internal interface for max. 6 VG borders
- 1 piece Fixture kit with cable entry point to the rear
- 1 piece Fixture kit with pressure down plate incl. 15 pcs. pressure down pins and 4 pcs. support and center pins with raw status for specific working
- 2 piece Kit; VG-bar (64pin female multipoint connector) incl. clamp material
- 2 piece Kit; VG-bar (64pin male multipoint connector) incl. distances and clamp material

### Order for ESD version

Pos.	Piece	Order no.	Name
1	1	1033-26-000	Contacting unit p3522-3
2	1	1037-84-000	Housing p3522 incl. rear cover plate
3	1	1037-03-000	Fixture kit with pressure down plate
4	2	1002-50-000	Kit; VG-bar (64pin female multipoint connector)
5	2	1002-53-000	Kit; VG-bar (64pin female multipoint connector)



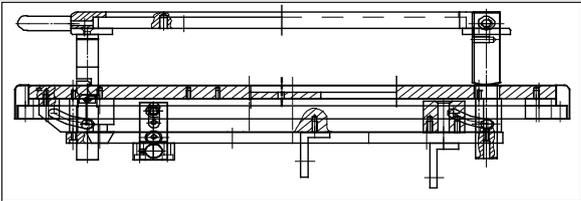


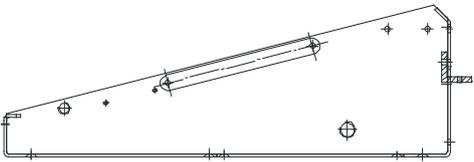
# Mechanical test adapter

One-hand operation

Model series p3522-3



Order number	Contacting units m/p 3522-2	
	<b>ESD</b> 	
1033-26-000	Contacting unit p3522-3 with 10mm working stroke without internal interface	
1033-27-000	Contacting unit p3522-3 with 10mm working stroke with internal interface	

Order number	Housing m/p 3522-2	
1037-49-000	Housing p 3522-2 GenRad 2270	
1037-51-000	Housing p 3522-2 MTS 50/100	
1037-53-000	Housing p 3522-2 Marconi Midata 510	
1037-83-000	Housing p 3522-2 with MTS 200	
1037-84-000	Housing m/p 3522-2 with rear cover plate	
1037-93-000	Housing m/p 3522-2 for GenRad 2281	
1279-02-000	Housing m/p 3522-2 with Reinhardt KFMT-470	
1279-03-000	Housing p 3522-2 MTS300	



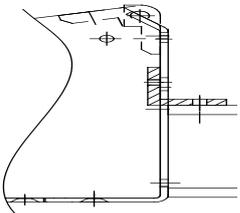


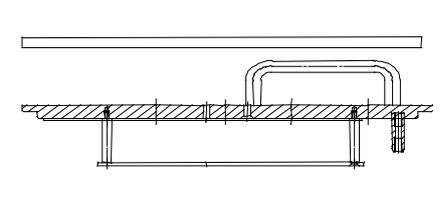
# Mechanical test adapter

One-hand operation

Model series p3522-3



Order number	Test System Interface for	
1002-42-000	Digitaltest MTS 50/100	
1002-43-000	Digitaltest MTS 60	
1002-47-000	GenRad 2270	
1279-04-000	Zehntel medium	
1002-61-000	R & S – TSA-P	
1279-02-002	Reinhardt KFMT-470	
1279-03-000	Digitaltest MTS 300	
	Further interfaces on inquiry	

Order number	Fixtures m/p 3522-2	
	<b>ESD</b> 	
1037-23-000	Fixture without pressure down plate	
1037-03-000	Fixture with pressure down plate	
1037-26-000	Fixture with pressure down plate and centering device	

Order number	Fixture options m/p 3522-2
	<b>ESD</b> 
1037-24-000	Pressure down plate incl. 15 pcs. pressure down pins
1037-67-000	Pressure down plate 10 mm incl. 15 pcs. pressure down pins (pass. f. m/p3522)
1037-25-000	1 pcs. pressure down bar with 5 pcs. pressure down pins and 2 pcs. turnable holder for pressure down pins





# Mechanical test adapter

One-hand operation

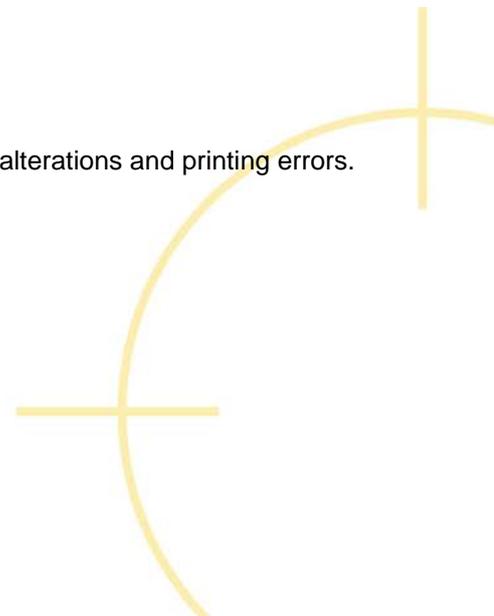
Model series p3522-3



Order number	Additional components / Single items
1002-53-000	Kit VG-bar (64pin male multipoint connector) for fixture
1002-50-000	Kit VG-bar (64pin female multipoint connector) for contacting unit
1002-54-000	Kit VG-bar (96pin male multipoint connector) for fixture
1002-51-000	Kit VG-bar (96pin female multipoint connector) for contacting unit
594636	Male multipoint connector for MTS 50/100: C/2 32pin.
414409	Male multipoint connector for MTS 60: 64pin. DIN 41612
414415	Male multipoint connector for MTS 60: 96pin. DIN 41612
WRAP-CB-96P	Label for pin configuration
WRAP-CC-96P	Label for pin configuration
1022-01-002	Wiring cover plate
1002-18-000	Kit of support and center pins with raw status for specific working
1002-68-000	Kit of support and center pins with raw status for 14 mm stroke
1002-52-000	Kit of distance bolts for male multipoint connector with screw
1002-11-000	Internal interface blank / kit
1037-66-000	Internal interface standard / kit
1037-65-000	Kit pressure down pins (standard l = 43 mm)
1037-46-001	Pressure down bar
1028-00-005	Turnable holder for pressure down pins (ESD) 20 mm
1028-00-006	Turnable holder for pressure down pins (ESD) 25 mm
1028-00-007	Turnable holder for pressure down pins (ESD) 30 mm
1028-00-008	Turnable holder for pressure down pins (ESD) 35 mm
1037-03-002	Pressure down plate (ESD) without pressure down pins t = 8 mm
1037-03-001	Contact pin carrier plate (ESD) t = 10 mm
1033-03-001	Cover plate for interface incl. accessories
1299-76-000	Sensor „pressure down flap closed“

<b>Graduated price scale:</b>	<u>up to 3 pcs.</u>	<u>Unit price</u>
	3 – 5 pcs.	3 %
	6 – 9 pcs.	7 %
	from 10 pcs.	10 %

The contact pins and -sockets are excluded from quantity discount.  
 Prices are according to number per product. All prices indicated are subject to alterations and printing errors.





# Radio frequency test adapter

Model series 3522-RF



The lifting mechanism is actuated by a switch integrated into the handle.

Pneumatic adapter system with interchangeable contact pin or test item carrier plate.

Alternatively available with hold-down plate or hold-down bars.

An alternative to one-way adapters, whereby the price/benefit ratio and design meet today's requirements.

Naturally, we also supply processing for specific test items if required.

Base frame with lifting mechanism and positive locking as well as pivoting hold-down system for holding interchangeable plates.

Combined contact pin and test item carrier plate with leading, spring-mounted catch and support pins and internal transfer interface.

Parallel acting contact stroke with optimum pull-down system by means of 4 guide columns.  
Positively locked hold-down system in connected state.  
Pivoting adapter frame for debugging on test system.

→ **Request an offer !**

## Technical Data:

### Dimensions:

Base area (W x L) 520 x 410 mm  
Total height max. 335 mm

### Weight max.:

ca. 36 kg

### Effective surface max.:

304 x 204 mm

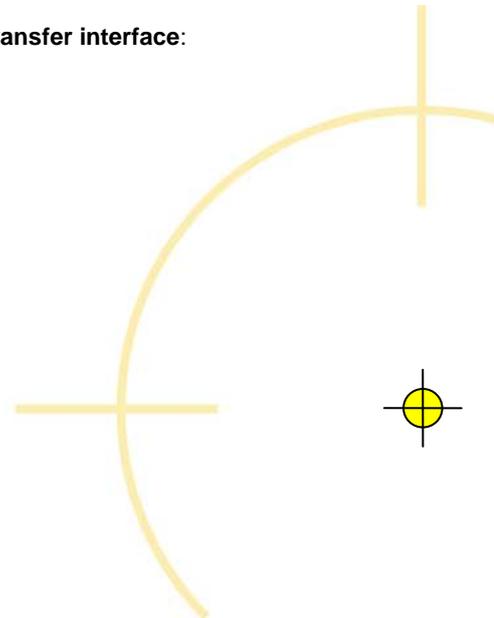
### Plate thickness of contact pin carrier plate:

10 mm

### Contact pressure: pneumatic

600 N

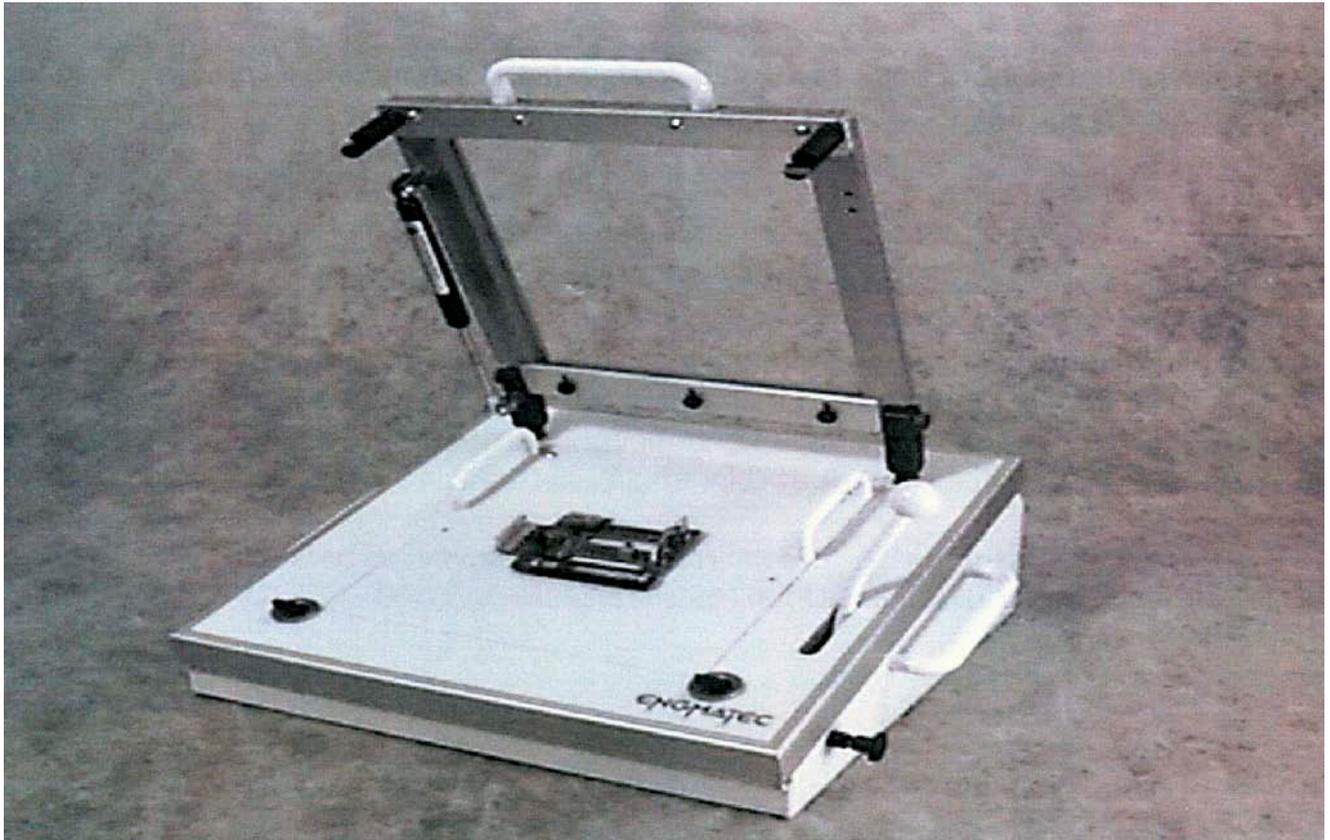
### Internal adapter transfer interface: 60-pin





# Mechanical test adapter (small)

Model series m2322 and p2322 Standard and ESD



Mechanical or pneumatic adapter system with interchangeable contact pin or test item carrier plate.

Alternatively available with hold-down plate or hold-down bars.

An alternative to one-way adapters, whereby the price/benefit ratio and design meet today's requirements.

Naturally, we also supply processing for specific test items if required.

Base frame with lifting mechanism and positive locking as well as pivoting hold-down system for holding interchangeable plates.

Combined contact pin and test item carrier plate with leading, spring-mounted catch and support pins and internal transfer interface.

Parallel acting contact stroke with optimum pull-down system by means of 4 guide columns.

Positively locked hold-down system in connected state.

Pivoting adapter frame for debugging on test system.

## → Request an offer !

Ordering Example - see overleaf

### Technical Data:

#### Dimensions:

Base area (W x L) 400 x 400 mm  
Total height max. 225 mm

Weight max.: ca. 11 kg

Effective surface max.: 230 x 220 mm

Hold-down stroke max: 10 mm  
OPTIONAL in mech. version: 14 mm

Plate thickness of contact pin carrier plate: 12 mm

Contact pressure: manual 350 N  
pneumatic 600 N

Internal adapter transfer interface:  
6-off 96-pin blade connector strips DIN 41612  
Alternative 64-pin blade connector strips,  
coaxial and zero force connector systems

Test system interfaces:  
on request





## Ordering Example

### Requirement:

For example you need an adapter operated pneumatically in ESD version, equipped with internal transfer interface (fixture for contacting unit), for EUTs up to a size of 230 x 220 mm and a range of ca. 120 measuring lines.

The adapter is used at a function testing station with PC test system, for example.

### Order Volume:

- 1 piece Contacting unit with mechanical hold down and manual stroke movement via operating handle, incl. internal interface for max. 6 VG borders
- 1 piece Fixture kit with cable entry point to the rear
- 1 piece Fixture kit with pressure down plate incl. 15 pcs. pressure down pins and 4 pcs. support and center pins with raw status for specific working
- 2 piece Kit; VG-bar (64pin female multipoint connector) incl. clamp material
- 2 piece Kit; VG-bar (64pin male multipoint connector) incl. distances and clamp material

### Order for ESD version

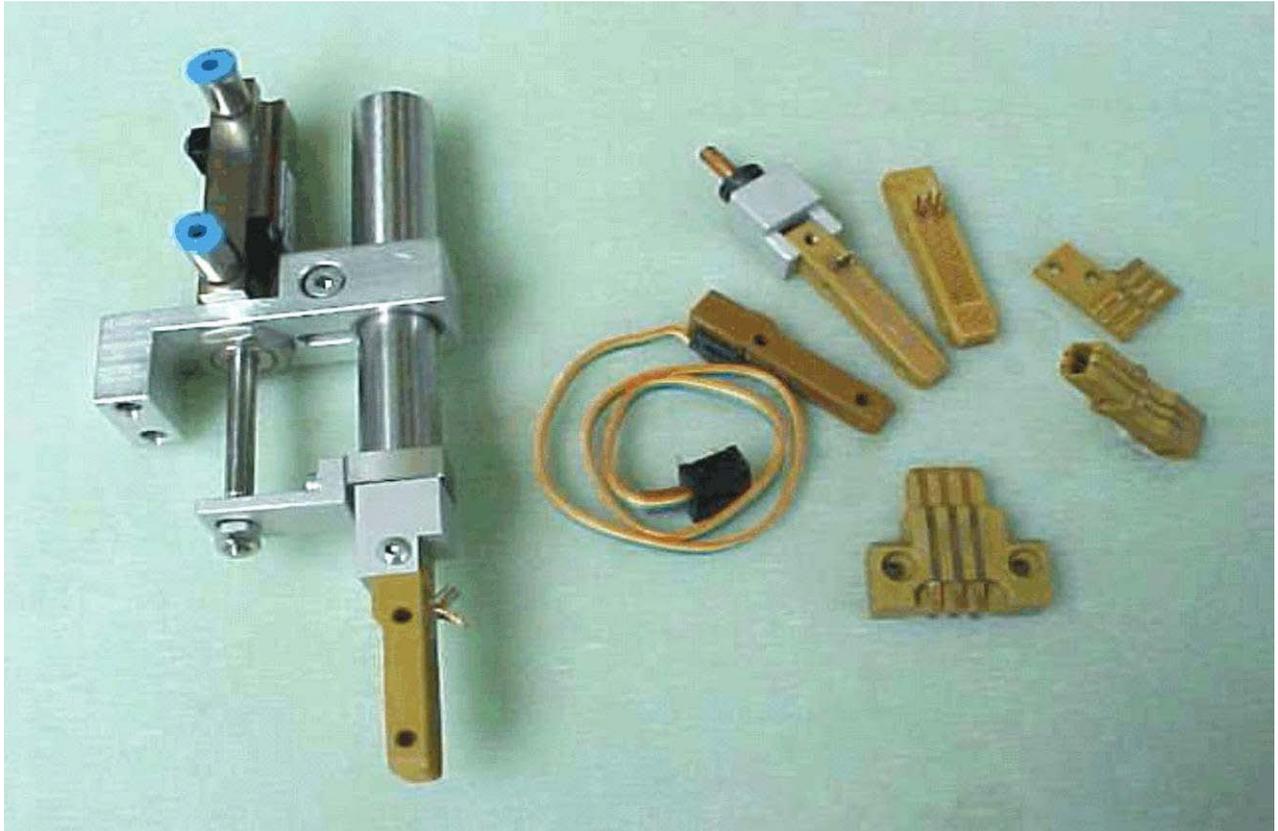
Pos.	Piece	Order no.	Name
1	1	1299-20-000	Contacting unit p2322-2 ESD
2	1	1299-21-000	Housing p2322 incl. rear cover plate ESD
3	1	1299-13-000	Fixture kit with pressure down plate ESD
4	2	1002-50-000	Kit; VG-bar (64pin female multipoint connector)
5	2	1002-53-000	Kit; VG-bar (64pin female multipoint connector)





# Testing Plugs for

Western-Min - TAE - USB - USB Mini - USB Micro - HDMI



## **Western-Min-Plugs**

for contacting in  
4 pin (RJ-10), 6 pin (RJ-12), 8 pin (RJ-45)  
and 10 pin (RJ-48) sockets

## **USB-Plugs type A and type B**

for contacting in 4 pin -sockets

## **USB-Mini type B**

for contacting in 5 pin sockets

## **USB-Micro type B**

for contacting in 5 pin sockets

## **TAE-Plugs**

for contacting in 6 pin sockets

## **HDMI-Plugs**

for contacting in 19 pin sockets

## **Power DC plug-in connection**

**More Testing-Plugs are available on request.**

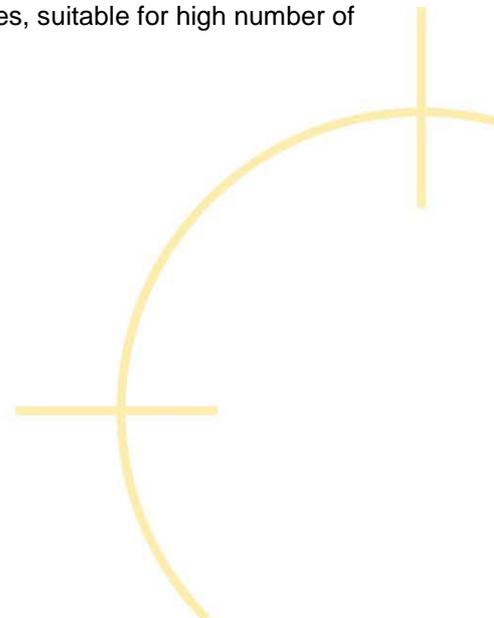
Alternatively, with accessories as:

Floating and self-centering locating shoes.

Cable and plug fabrication according to customer requirements.

Complete contacting unit with pneumatic actuation and sensors for path monitoring.

CuBe contact wires, suitable for high number of plugging cycles.





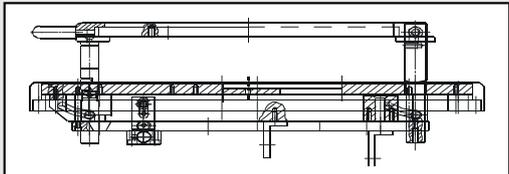
# Mechanical test adapter (small)

Model series m2322 / p2322

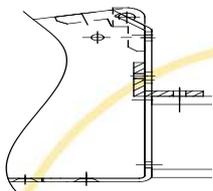
ESD m2322-2 / p2322-2



Order number	Contacting units m/p 2322	
1059-09-000	Contacting unit m 2322 with 10 mm working stroke without internal interface	
1059-10-000	Contacting unit m 2322 with 10 mm working stroke with internal interface	
1059-11-000	Contacting unit m 2322 with 14 mm working stroke without internal interface	
1059-12-000	Contacting unit m 2322 with 14 mm working stroke without internal interface	
1059-13-000	Contacting unit p 2322 with 10 mm working stroke without internal interface	
1059-14-000	Contacting unit p 2322 with 10 mm working stroke with internal interface	
1059-15-000	Contacting unit p 2322 with 14 mm working stroke without internal interface	
1059-16-000	Contacting unit p 2322 with 14 mm working stroke without internal interface	

Order number	Contacting units m/p 2322-2	
	<b>ESD</b> 	
1299-10-000	Contacting unit m 2322-2 with 10 mm working stroke with internal interface	
1299-20-000	Contacting unit p 2322-2 with 10 mm working stroke with internal interface	
1299-89-000	Contacting unit with 14 mm working stroke with internal interface	

Order number	Housing m/p 2322	
1002-36-000	Housing m 2322	
1002-57-000	Housing p 2322	
1299-11-000	Housing m 2322-2 ESD	
1299-21-000	Housing p 2322-2 ESD	

Order number	Test System Interface for	
1002-42-000	Digitaltest MTS 50/100	
1002-43-000	Digitaltest MTS 60	
1002-47-000	GenRad 2270	
1002-59-000	GenRad 2275/76	
1002-61-000	R & S – TSA/P	
1002-64-000	Marconi 80R	
1002-63-000	Marconi 80R (V-Adapter)	
	Further interfaces on inquiry	



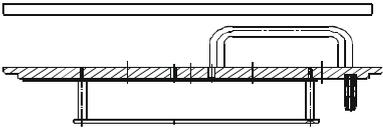


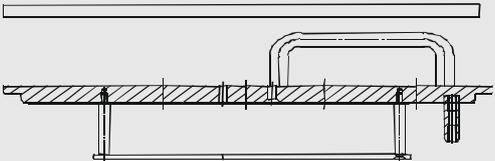
# Mechanical test adapter (small)

Model series m2322 / p2322

ESD m2322-2 / p2322-2



Order number	Fixtures m/p 2322	
1022-27-000	Fixture without pressure down plate	
1022-32-000	Fixture with pressure down plate	
1022-26-000	Fixture with pressure down plate and centering device	

Order number	Fixtures m/p 2322-2	
	<b>ESD</b> 	
1299-13-000	Fixture with pressure down plate	
1299-14-000	Fixture without pressure down plate	
1299-16-000	Pressure down plate incl. 15 pcs. pressure down pins	
1299-17-000	Fixture with pressure down plate and centering device	
1037-25-000	Pressure down bar with 5 pcs. pressure down pins – 2 turnable	
1022-36-000	Centering device for WS	

Order number	Fixture options m/p 2322
1022-28-000	Pressure down plate incl. 15 pcs. pressure down pins
1022-16-000	1 pcs. pressure down bar with 5 pcs. pressure down pins and 2 pcs. turnable holder for pressure down pins
1022-36-000	Centering device for WS 3522





# Mechanical test adapter (small)

Model series m2322 / p2322

ESD m2322-2 / p2322-2



Order number	Additional components / Single items
1002-53-000	Kit VG-bar (64pin male multipoint connector) for fixture
1002-50-000	Kit VG-bar (64pin female multipoint connector) for contacting unit
1002-54-000	Kit VG-bar (96pin male multipoint connector) for fixture
1002-51-000	Kit VG-bar (96pin female multipoint connector) for contacting unit
594636	Male multipoint connector for MTS 50/100: C/2 32pin.
414409	Male multipoint connector for MTS 60: 64pin. DIN 41612
414415	Male multipoint connector for MTS 60: 96pin. DIN 41612
WRAP-CB-96P	Label for pin configuration
WRAP-CC-96P	Label for pin configuration
1022-11-003	Wiring cover plate
1002-18-000	Kit of support and center pins with raw status for specific working
1112-23	Kit of distance bolts for male multipoint connector with screw
1002-32-000	Internal interface standard / kit
1002-56-000	Kit pressure down pins (standard l = 43 mm)
1028-00-004	Turnable holder for pressure down pins 20 mm
1028-00-001	Turnable holder for pressure down pins 25 mm
1028-00-002	Turnable holder for pressure down pins 30 mm
1028-00-003	Turnable holder for pressure down pins 35 mm
1028-00-005	Turnable holder for pressure down pins (ESD) 20 mm
1028-00-006	Turnable holder for pressure down pins (ESD) 25 mm
1028-00-007	Turnable holder for pressure down pins (ESD) 30 mm
1028-00-008	Turnable holder for pressure down pins (ESD) 35 mm
1037-45-001	Pressure down plate without pressure down pins t = 10 mm
1022-11-002	Contact pin carrier plate t = 12 mm
1022-11-001	Pressure down bar
1299-11-003	Cover plate for interface
1299-76-000	Sensor „pressure down flap closed“

<b>Graduated price scale:</b>	<u>up to 3 pcs.</u>	<u>Unit price</u>
	3 – 5 pcs.	3 %
	6 – 9 pcs.	7 %
	from 10 pcs.	10 %

The contact pins and -sockets are excluded from quantity discount.  
Prices are according to number per product.

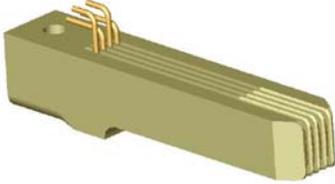
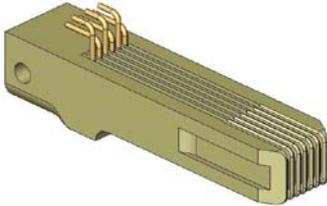
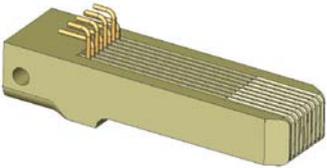
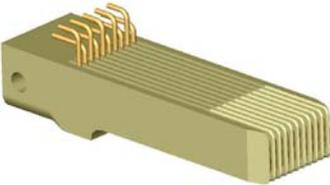
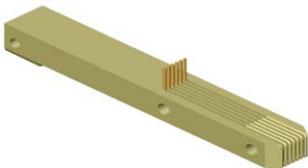
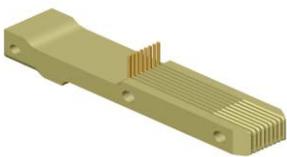
All prices indicated are subject to alterations and printing errors.





# Testing Plugs

for Western-Min-Sockets

	<b>4-pin Western-Min-testing plugs</b>	<b>no cord set</b> <b>order number</b> <b>1014-54-000</b>	<b>cord set</b> (300 mm – cord) <b>order number</b> <b>1014-53-000</b>
	<b>6-pin Western-Min-testing plugs</b>	<b>no cord set</b> <b>order number</b> <b>1014-52-000</b>	<b>cord set</b> (300 mm – cord) <b>order number</b> <b>1014-51-000</b>
	<b>8-pin Western-Min-testing plugs</b>	<b>no cord set</b> <b>order number</b> <b>1014-56-000</b>	<b>cord set</b> (300 mm – cord) <b>order number</b> <b>1014-55-000</b>
	<b>10-pin Western-Min-testing plugs</b>	<b>no cord set</b> <b>order number</b> <b>1014-58-000</b>	<b>cord set</b> (300 mm – cord) <b>order number</b> <b>1014-57-000</b>
	<b>6-pin Western-Min-testing plugs</b> <b>extended</b>	<b>no cord set</b> <b>order number</b> <b>1014-29-000</b>	<b>cord set</b> (300 mm – cord) <b>order number</b> <b>1552-92-000</b>
	<b>6-pin Western-Min-testing plugs</b> <b>extended</b>	<b>no cord set</b> <b>order number</b> <b>1014-92-000</b>	<b>cord set</b> (300 mm – cord) <b>order number</b> <b>1552-93-000</b>

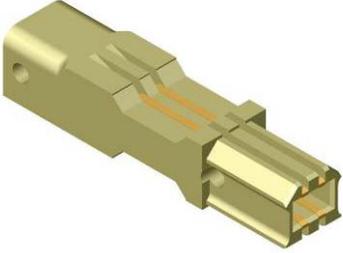
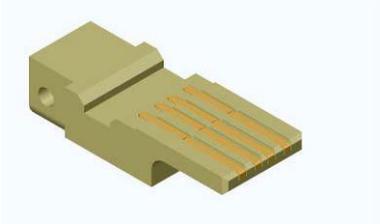
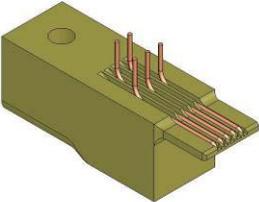
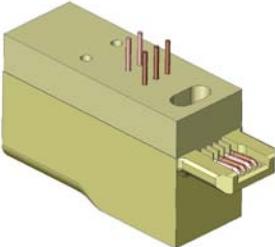


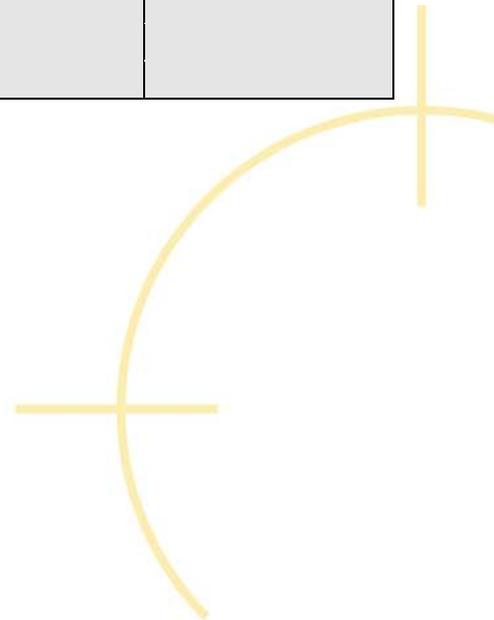


# Testing Plugs

for USB-Sockets



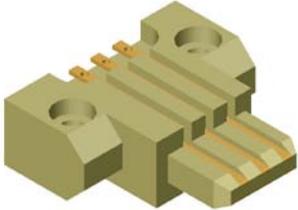
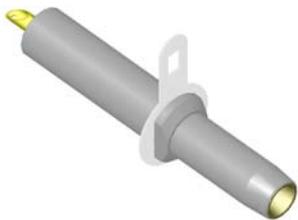
	<b>4-pin USB testing plug Type B</b>	<b>no cord set</b> <b>order number</b> 1014-46-000	<b>cord set</b> (300 mm – Cord) <b>order number</b> 1014-16-000
	<b>4-pin USB testing plug Type A</b>	<b>no cord set</b> <b>order number</b> 1014-40-000	<b>cord set</b> (300 mm – Cord) <b>order number</b> 1014-48-000
	<b>5-pin USB testing plug Mini Type B</b>	<b>no cord set</b> <b>order number</b> 1014-66-000	<b>cord set</b> (300 mm – Cord) <b>order number</b> 1014-65-000
	<b>5-pin USB testing plug Micro Typ B</b>	<b>no cord set</b> <b>order number</b> 1552-57-000	<b>cord set</b> (300 mm – Cord) <b>order number</b> 1552-61-000



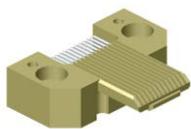


# Testing Plugs

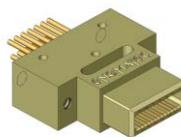
for special plug connections

	<p><b>6-pin TAE testing plug</b></p> <p><b>no cord set</b></p> <p><b>order number</b> 1014-28-000</p>	<p><b>cord set</b> (300 mm – Cord)</p> <p><b>order number</b> 1014-50-000</p>
	<p><b>19-pin HDMI testing plug</b></p> <p><b>no cord set</b></p> <p><b>order number</b> 1552-59-000</p>	<p><b>cord set</b> (300 mm – Cord)</p> <p><b>order number</b> 1552-70-000</p>
	<p><b>Power DC plug-in connection</b> Ø 2,1</p> <p><b>no cord set</b></p> <p><b>order number</b> 1638-07-000</p>	<p><b>cord set</b> (300 mm – Cord)</p> <p><b>order number</b> 1638-08-000</p>

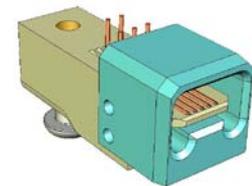
More Testing-Plugs are available on request.



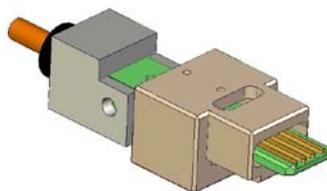
System plug mobile  
Type Lumberg



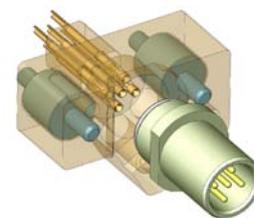
Testing Plug  
RTX 13-pin



USB plug mini Type B  
with center unit



LVDS-Plug  
JAE-MX...



Sensor Plug 5-pin  
(M12) with interface



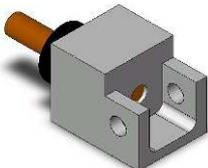


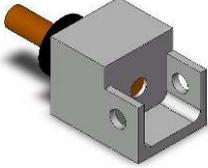
# Testing Plugs

Accessories, fitting and mounting parts

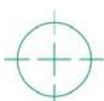


	<b>order number</b> <b>Mounting Shoe for Western-Min-Test plug (4-pin)</b> <u>graduated price scale</u> 1014-43-000
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	<b>order number</b> <b>Mounting Shoe for Western-Min-Test plug (6-pin) and USB (4-pin)</b> <u>graduated price scale</u> 1014-44-000
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	<b>order number</b> <b>Mounting Shoe for Western-Min-Test plug (8 + 10-pin)</b> 1014-45-000
---	--

	<b>order number</b> <b>Contacting unit for Test plugs</b> <i>Without test plug and mounting shoe</i>
	1004-02-000      Spring-loaded contacting unit
	1004-03-000      Spring-loaded contacting unit with pneumatic actuation





# Accessories

	<b>order number</b>	<b>latch</b>
	1669-01-000	

	<b>order number</b>	<b>board marker</b>
	1006-01-000	with suspended carbide-tipped graver Ø3mm and 24V DC motor with gear 1,5W

	<b>order number</b>	<b>board marker</b>
	1006-39-000	consisting of: suspended carbide-tipped graver Ø3mm 24V DC motor with gear 1,5W, inclusive tachometer generator, (without threshold switch and Sub-D-connecting cable)

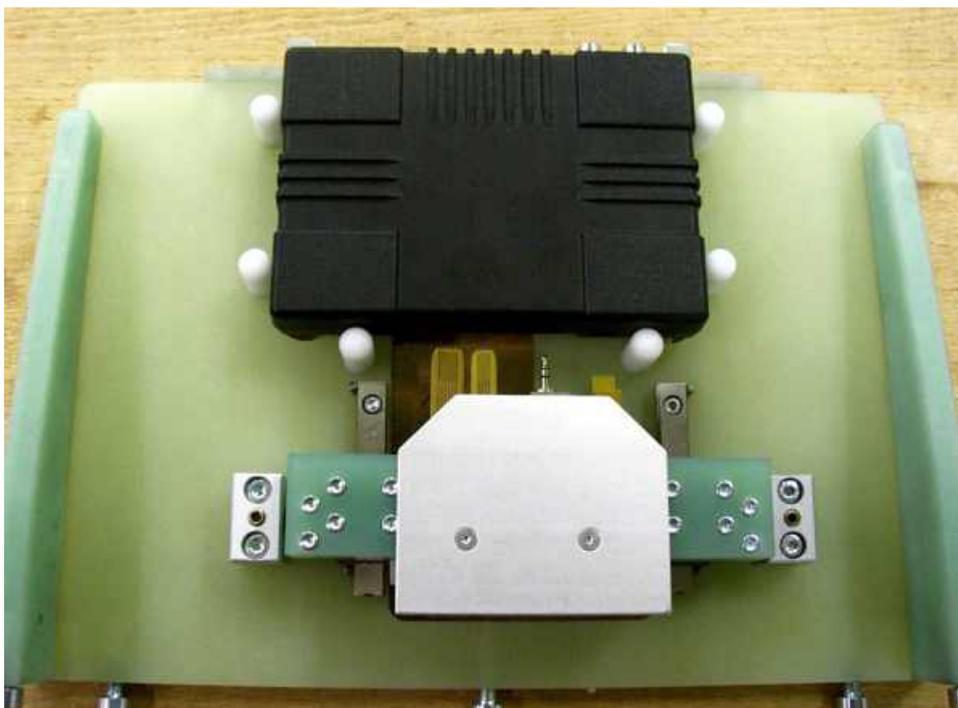
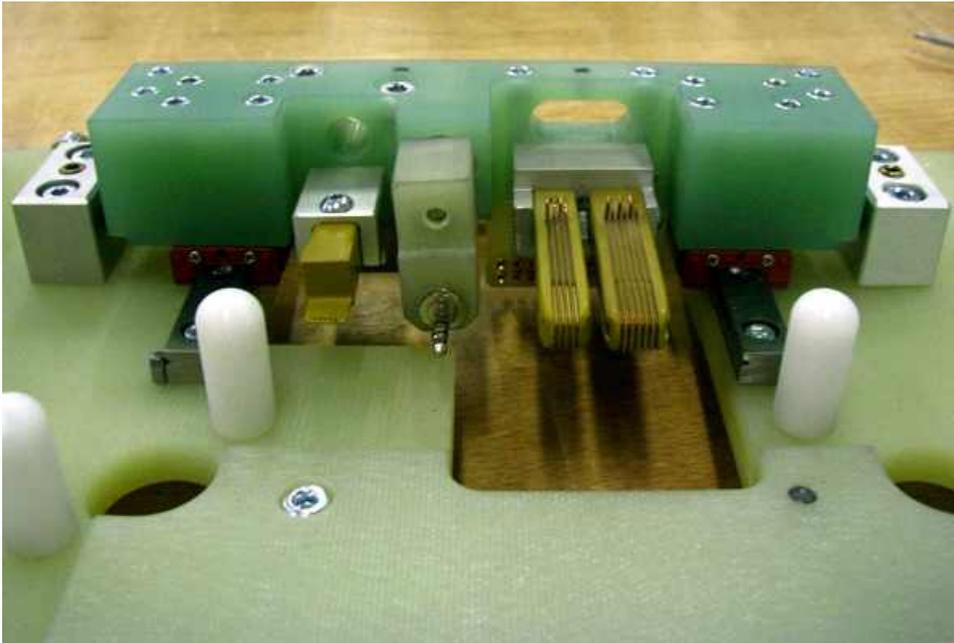
	<b>order number</b>	<b>board marker</b>
	1006-26-000	consisting of: suspended HM-cutter Ø3mm 24V DC motor with gear 1,5W, inclusive tachometer generator, threshold switch and 9 pin Sub-D-connecting cable (5m),



## Some examples for function usage

Mounted in a drawer system for specific test items:

- Western-Min-Plugs 4-pin and 6-pin and
- Mini-USB-Plugs



- Mounted in inline fixture:
- Western-Min-Plugs 8-pin



Mounted in debugging fixture:

- USB-Plug type A

