

MG

PRODUCTS

DFT

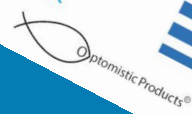
DESIGNED FOR TEST

PART OF MG-PRODUCTS

Our Partners



fastATE
technology



THE SPECIALIST IN MECHANICAL SOLUTIONS

DFT - MG-PRODUCTS has a wide range mechanical and Test & Measurement solutions for the electronics, industry.

Our products can be customized according to customers demands.



www.mg-products.com

THE MG TEST STANDARD for your electronics production environment

Through continuous development over the past decades, a robust standard of our test fixture series has emerged. In today's electronics manufacturing environments, functional and in-circuit testing of printed circuit boards by means of a pin-bed test fixture has proven necessary. Here, you need to be able to rely on a solid end product.



In addition to the improved quality of our test fixture portfolio, we also have several additional options that on various fronts, provide extra safety. The finger trap protection, the hood lock and the ESD version are some good examples.

The connection applications of the circuit board to be tested, come in legion of variants. The probe plate, which can be made of CEM1 or FR4, accommodates test probes up to 2000N force. But the DUT can also be accessed from the top or even from the side with test connectors. We use various solutions for this.

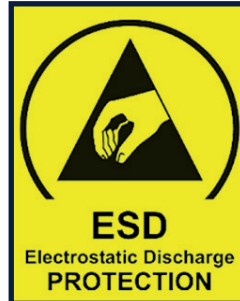
With these versions, you have the possibilities of frequent contact. By making the right adjustments to our design over the years, we have succeeded in maximising the number of cycles and optimising the contact safety of the DUT.

Our Team.



ESD SAFE FIXTURE AND CASSETTE

To comply with the static discharge for product safety, we have equipped our products with additional accessories so that the surfaces accessible to the DUT are as protected as possible from static charging electricity.



Top cover safety interlock

When voltage exceeds 60V AC/DC, it is good for operator safety to lock the top cover. MG-Products uses a locking device with a sensor for this purpose. This way, you always detect that the top cover is closed and that the test can be performed in a safe way.

Finger protection means

On the underside just below the edge of the fixture, there is now a catch that automatically rises when the entire superstructure is opened for test engineering work. This pawl ensures that if the heavier upper structure accidentally falls down, no vulnerable body parts or other items are damaged. Minor other modifications Furthermore, we have applied to a large number of other minor improvements such as, for example, the upper reinforcement beam attachment and the front engagement on the interchangeable cassette VPC series.



NEW!

MG-02 Radio frequency shielded cassette

- Suitable for RF test
- High degree of attenuation
- Range from 400 MHz to 6 GHz
- Products to be tested such as GSM 4G and 5G, WiFi, BlueTooth, IoT etc.
- Maximum DUT size 240 x 200mm

MG TEST FIXTURE

Stand alone/dedicated series

With ball bearings and guided bushings, a unique mechanical tightening system has been constructed. The UUT is brought into fully linear contact with spring-loaded contact pins connected to the test environment. Contacting the UUT with probes can be approached simultaneously from both top and bottom. And optionally even from the side. Additional measuring electronics can be placed in the spacious, ergonomic housing. The back and bottom of the enclosure can be adapted to different test system interfaces. The plate sets are removable, facilitating operations such as wiring or otherwise.

FEATURES

- Linear click system with ball bearings, using gas springs
- 10 mm ESD-proof top cover with aluminium reinforcement bars
- Steel base cabinet with detachable aluminium back and bottom panels
- Detachable interchangeable case system with an 8 mm spring loaded probe protection cover
- Base cabinet fitted with a telescopic guide rail and catch

Image:	Type:			Usable test surface:	Maximum load:
	MG-01	Fixture:	50101	105 x 170 mm	2000N
		Cassette 5 mm:	50210		
		Cassette 8 mm:	50201		
	MG-02	Fixture:	50102	306 x 248 mm	2000N
		Cassette 5 mm:	50211		
		Cassette 8 mm:	50202		
	MG-03	Fixture:	50103	586 x 248 mm	2000N
		Cassette 5 mm:	50208		
		Cassette 8 mm:	50203		
	MG-04	Fixture:	50104	586 x 413 mm	2000N
		Cassette 5 mm:	-		
		Cassette 8 mm:	50204		
	MG-05	Fixture:	50105	2 pcs - 105 x 170 mm	2000N
		Cassette 5 mm:	50210		
		Cassette 8 mm:	50201		
	MG-06	Fixture:	50106	194 x 170 mm	2000N
		Cassette 5 mm:	50211		
		Cassette 8 mm:	50206		
	MG-07	Fixture:	50107	456 x 320 mm	2000N
		Cassette 5 mm:	50212		
		Cassette 8 mm:	50207		

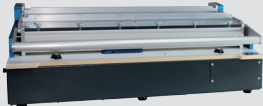
MG-FIXTURES

Interchangeable cassettes VPC

To exchange multiple projects in a generic test environment, MG-Products has developed a test adapter series where you can exchange cassettes. These cassettes are exchanged in the test adapter and make contact with Virginia Panel Cooperation's modular applicable contact blocks from the USA. The frames can accommodate up to 10 pieces of VPC iCon i1 or 8 pieces of 90 series contact blocks.

FEATURES

- Linear click system with ball bearings, using gas springs
- 10 mm ESD-proof top cover with aluminium reinforcement bars
- Steel base cabinet with detachable aluminium back and bottom panels
- Detachable interchangeable case system with an 8 mm spring loaded probe protection cover
- Base cabinet fitted with a telescopic guide rail and catch

Image:	Type:			Usable test surface:	Maximum load:
	MG-02-01 i1	Fixture 10 pos:	50267	306 x 248 mm	2000N
		Cassette 5 mm 10 pos:	50269		
		Cassette 8 mm 10 pos:	50268		
		Fixture 4 pos:	50122		
		Cassette 5 mm 4 pos:	50236		
		Cassette 8 mm 4 pos:	50222		
	MG-03-01 i1	Fixture 10 pos:	50272	586 x 248 mm	2000N
		Cassette 5 mm 10 pos:	50274		
		Cassette 8 mm 10 pos:	50273		
		Fixture 4 pos:	50123		
		Cassette 5 mm 4 pos:	50244		
		Cassette 4 mm 4 pos:	50243		
	MG-04-01 i1	Fixture:	50124	586 x 2413 mm	2000N
		Cassette 5 mm:	50245		
		Cassette 8 mm:	50244		
	MG-07-01 i1	Fixture:	50107	456 x 320 mm	2000N
		Cassette 5 mm:	50212		
		Cassette 8 mm:	50207		
	MG-02-01 90s	Fixture:	50265	306 x 248 mm	2000N
		Cassette 5 mm:	50241		
		Cassette 8 mm:	50240		
	MG-07-01 90s	Fixture:	50248	456 x 320 mm	2000N
		Cassette 5 mm:	50247		
		Cassette 8 mm:	50246		

*) Probe plate is available as standard in CEM-1 Insulating plate white on yellow, but can also be supplied in FR-4. Ask for the possibilities.

MG-FIXTURES

Interchangeable cassettes Pylon/VG Blocks

To exchange multiple projects in a generic test environment, MG-Products has developed a test adapter series where you can exchange cassettes. These cassettes are exchanged in the test adapter and make contact with the modular applicable contact blocks sold by various partners. The frames can accommodate up to a maximum of 10 pylon/Genrad VG contact blocks.

FEATURES

- Ball-bearing linear compression system with gas springs
- ESD-safe 10 mm transparent top plate with aluminium reinforcement bars
- Steel base case with removable aluminium back plate and bottom plate
- Exchange cassette system with mass-interconnect frames in the adapter and cassette
- One-step easy-to-change 'poka yoke' cassette system.

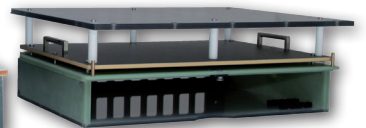
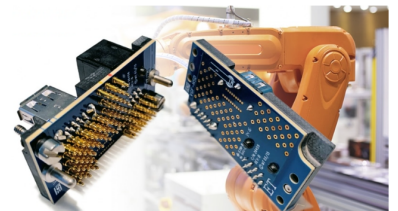
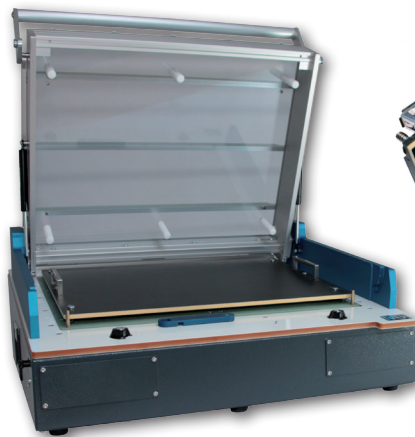
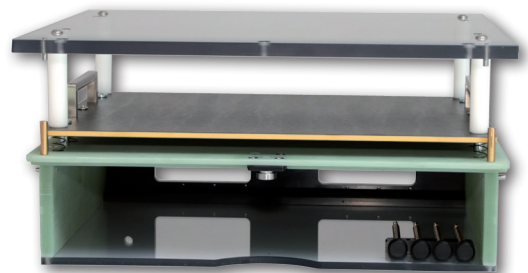
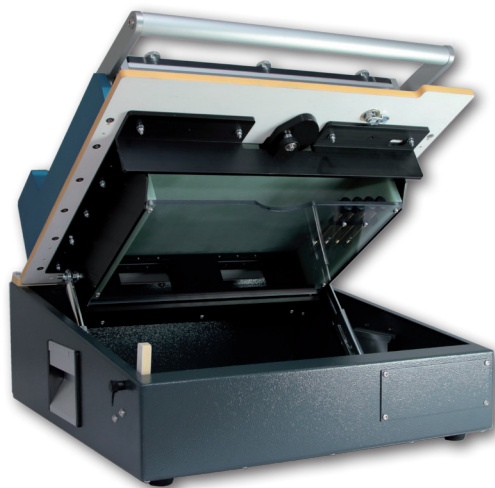


Image:

Type:

Usable test surface:

Maximum load:

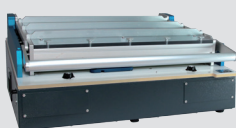


MG-02-01
Pylon

Fixture 6 pos: 50128
Cassette 5 mm 6 pos: 50232
Cassette 8 mm 6 pos: 50233

306 x 248 mm

2000N



MG-07-01
Pylon

Fixture 10 pos: 50129
Cassette 5 mm 10 pos: 50234
Cassette 8 mm 10 pos: 50235

456 x 320 mm

2000N

MG-FIXTURES

For test rack interconnection

For the current testrack mass interconnect standards, MG-Products has designed a number of fixtures for the various standards that can be frequently interchanged without any contact loss between the test adapter and the testrack. Here we work with a standard from VPC the G12 and the Genrad 2270 possibility. The exchangeable cassette system can be an excellent addition to these fixture series.

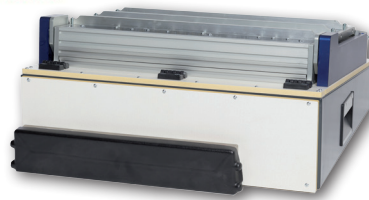
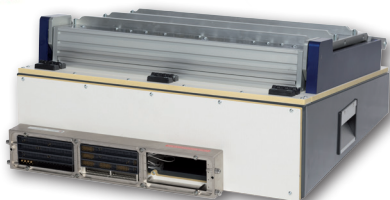
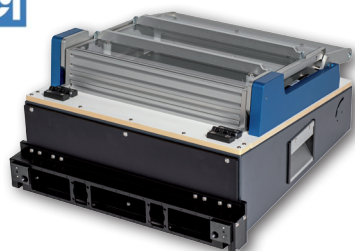


Image:	Type:			Usable test surface:	Maximum load:
	MG-02 G12	Fixture: Cassette 5 mm: Cassette 8 mm:	50112 50211 50202	306 x 248 mm	2000N
	MG-03 G12	Fixture: Cassette 5 mm: Cassette 8 mm:	50115 50208 50203	586 x 248 mm	2000N
	MG-07 G12	Fixture: Cassette 5 mm: Cassette 8 mm:	50117 50212 50207	456 x 320 mm	2000N
	MG-02-01 G12	Fixture: G12 10 pos: Cassette 5 mm 10 pos: Cassette 8 mm 10 pos:	50113 50236 50222	306 x 248 mm	2000N
	MG-03-01 G12	Fixture: G12 10 pos: Cassette 5 mm 10 pos: Cassette 8 mm 10 pos:	50116 50244 50243	586 x 248 mm	2000N
	MG-07-01 G12	Fixture: G12 10 pos: Cassette 5 mm 10 pos: Cassette 8 mm 10 pos:	50118 50212 50207	456 x 320 mm	2000N
	MG-02 VGR12 VG70	Fixture: Cassette 5 mm: Cassette 8 mm:	50114 50211 50202	306 x 248 mm	2000N



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