

Test fixtures & test plugs

Success is TEAMwork

We have been producing test plugs for a variety of industries, predominantly for the automobile and electronics industries, since 1995. Our objective has always been offering you robust, long-lasting and hardwearing test solutions.

Together with you, our customers, we have been able to prove and establish ourselves as a reliable partner on the market.

We do not just provide you with a product. We deliver you a complete package, beginning with your inquiry, right through to providing service after delivery.

Our design and development team, consisting of engineers and technicians of test equipment and special mechanical engineering, will provide competent support in every phase of your project. We convert the technically feasible to meet your specifications and requirements!

As well as accessories, such as spring-mounted contact pins, rigid pins and the relevant installation tools, we can also provide you with the complete range of electronic test devices, such as: LED detection testers, electricity / resistance test devices for cable tests and AOI testers.



We also provide the entire adapter range hardwired and the cables are assembled ready for connection to your tester. We can also supply the tester itself!

Test us!
We look forward to hearing from you!

Automatic test adapters

Universal compact test adapter with pneumatic ejection and pneumatic locking mechanism



- Universal design according to client's specific test specimen
- Numerous mounting options, for example for item aluminium profiles
- Sub D plug as an interface to a superordinate control system
- Compressed air connection 1 - 6 bar
- Electrical connection 24V DC
- Compact design

contact



Gerrit Paulick
Alexej Solomachin

Test plug / test adapter



Manual test plug for high-current contacts and manual locking



Test plug for fire lighter with OK display. Single adapter for every worker for rapid OK - NOK testing



Manual test adapter for testing various automotive functions (seat heating / airbag)

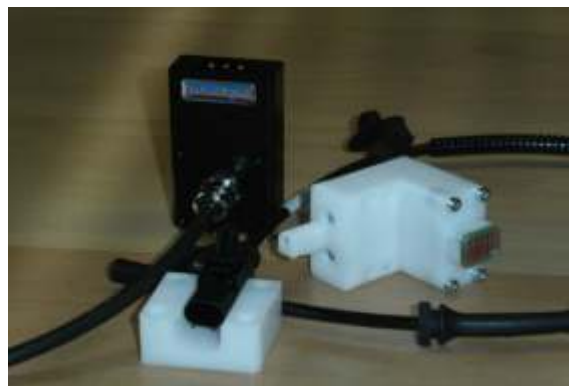
Robust adapter also assembled with locking mechanism and spring-mounted contact pins



Test adapter for seat control devices with original sliding mechanism



Multi-test adapter for complex plug boards with locking mechanism



ABS sensor test unit for fitting to charge carriers

Test plug / test adapter



Test housing for wiring harness test with pneumatic locking mechanism and scanning



Airbag test plug, assembled



Robotic fixture for circuit test

New to the range!

Mechanical parallel stroke test adapters from the Irmiler IM range in TS and WG designs are characterised by the following properties:

- Torsion-resistant fixed base
- Precise mechanics
- Tailored individually to you
- Achievable contact force 1360 N, up to 2000 N with amplifying kit
- 20 mm parallel stroke with precise locking mechanism
- Ergonomic opening angle of cover can be adjusted up to 80°
- Noiselessly integrated safety switch for high degree of occupational safety and good operability when the housing is open
- Quick change cassette with simplified "one move" handling
- Internal interface in pylon design (IM standard)
- Freely configurable back / front planes and assembly base plate
- Safety release lever
- Accessories available

We produce the adapter to fit your specifications, including wiring and its complete testing and the stress considerations of the test specimen at the start of the design process.

In the TS design, the adapters can be used as standalone devices, while the WG range has removable interchangeable kits.



Description of the adapter

Illustration of the number: IM-M-A4-TS-G1 (Standard adapter with housing type 1)

IM → Manufacturer Irmmler

M → Manual mechanical (P = pneumatic; V = vacuum; E = electric; S = tray)

A → Size A4; A3; A5;..... or as supplement A 100 x 150 (used for a special size, e.g. 100 x 150 mm)

TS → Type Standard (no interchangeable cassette system)

WG → Type Interchangeable Fixed Base (Receiver)

G → Type of housing (size, special height,...for fittings...1 - 5). The size must be defined in each case.

S → For special model 1...100

WK → Description of the interchangeable cassette

Example: IM - A3 - WK, interchangeable cassette with effective surface A3

consistent with Interchangeable Fixed Base A3 with the description: IM - M - A3 - WG - G1

"We make your special sizes as standard and supply exactly what you need for your testing purposes"

Available formats, relating to the effective surface:

A5, A4, A3 and 600 x 600mm and 700 x 210mm

Any format is possible.

Bezeichnung

Type Standard:

IM - M - A3 - TS - G1
IM - M - A4 - TS - G1
IM - M - A5 - TS - G1
IM - M - A6 - TS - G1

Type Interchangeable Fixed Base:

IM - M - A3 - WG - G1
IM - M - A4 - WG - G1
IM - M - A3 - WG - G2 (600 x 600 mm)
IM - M - A3 - WG - G3 (700 x 210 mm)
IM - M - A..... - WG - G...

Type Interchangeable Cassette for Interchangeable Fixed Base:

IM - M - A... - WK

- Irmmler mechanical test adapter with interchangeable cassette in A4 size on a G1 housing size

Order description for fixed base: IM - M - A4 - WG - G1

Order description for cassette: IM-M-A4-WK

- Large opening angle of up to 80°, ideal for test specimen handling, good accessibility
- Stable housing, even when open, minimal distortion
- Stable foldable carry handle integrated



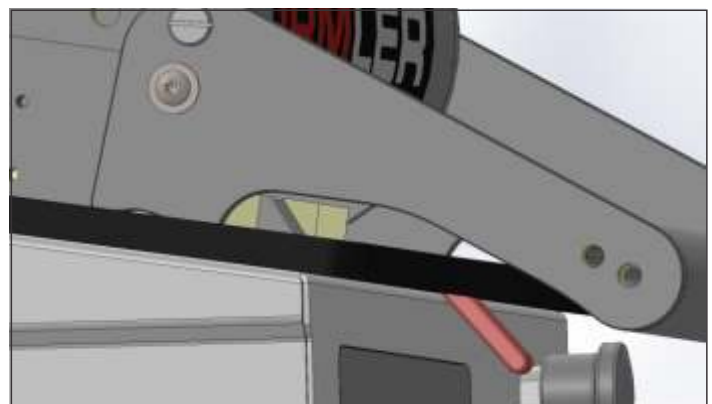
Large opening angle of 80°, ideal for test specimen handling, good accessibility

Stable housing, even when open, minimal distortion, i.e. there is less wear and tear on the spring-mounted contact pins



Stable carry handle in a stable sheet metal casing!

Easily accessible unlocking mechanism for the interchangeable cassette



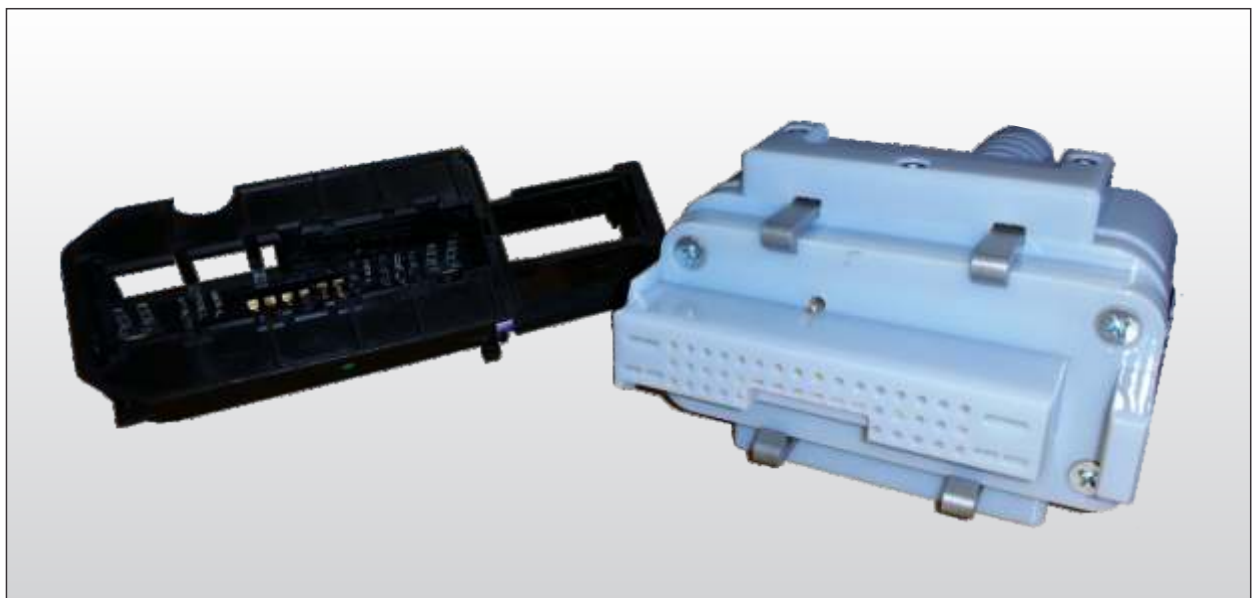
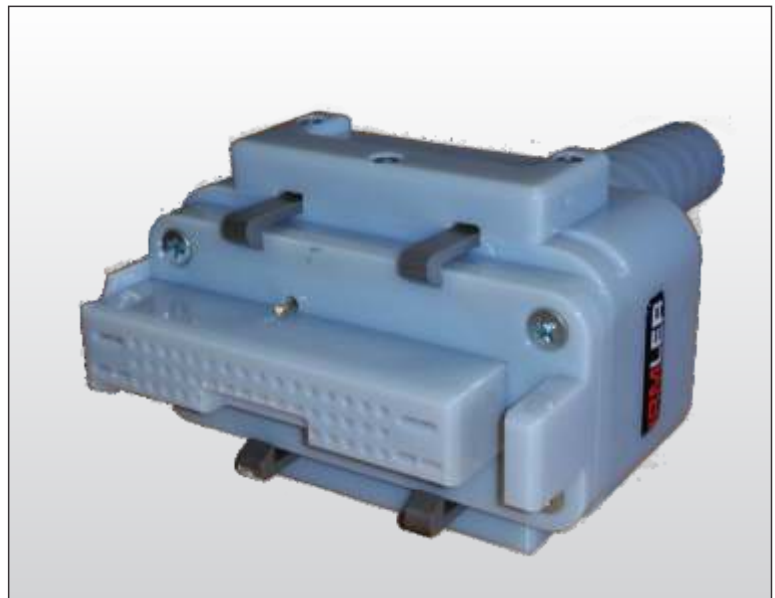
Test plug

Available now in 3D printing!

For rapid prototyping, we now use an Objet 30 Prime 3D printer. Using this printer, we can quickly produce lots of components for testing equipment and mechanical engineering for you!

A variety of materials can even be created in one component using adhesion!

Talk to us!
We will be happy to help you!

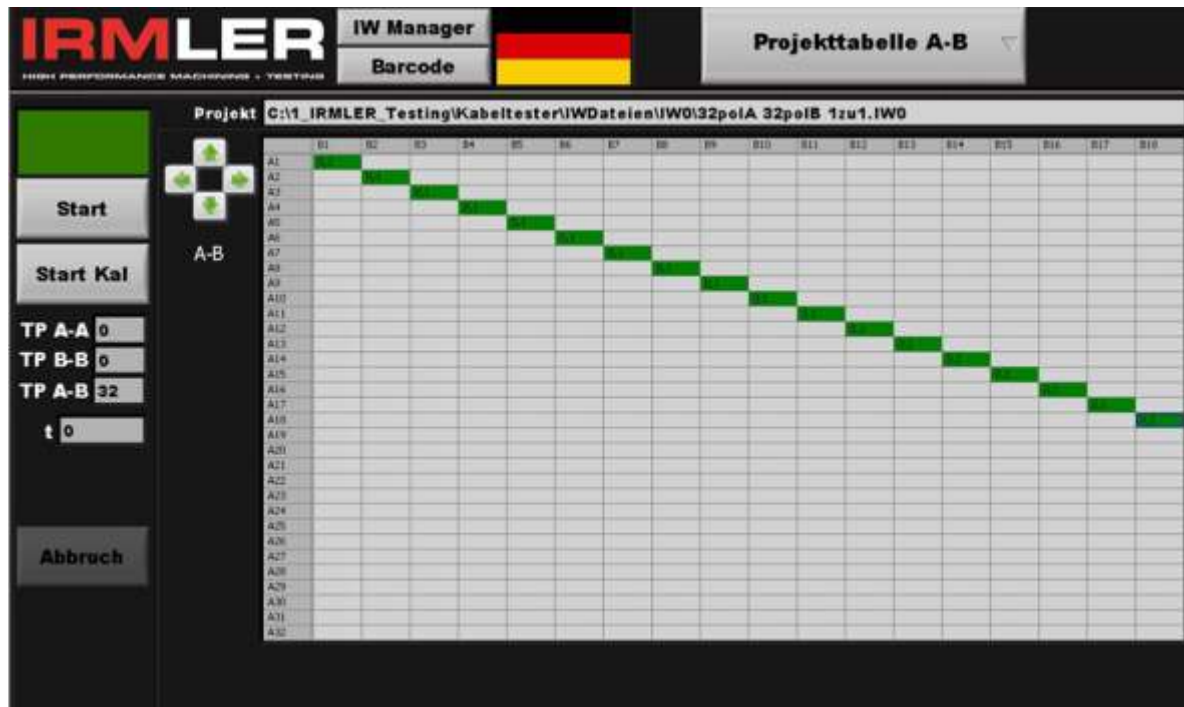


contact



Aexej Solomachin
Benjamin Duwenhorst

Test cable tester



- Integrated cable management software to create the test programs
- Selection of test program using barcode or cable management software
- Calibration mode
- Language selection freely configurable, live switching
- Testing of 496 possible connections (max. 32-pin plug) within one plug (x2) using min./max. values
- Testing of 1024 possible connections (max. 32-pin plug) plug to plug using min./max. values
- Cycle time for maximum utilisation (2016 evaluations, 1-to-1 wiring of 32-pin plug to 32-pin plug) = approx. 36 seconds
- Saving of 2016 measurements (connections within 32-pin plug, connections of 32-pin plug to 32-pin plug) in one file
- 2-conductor measurement mode, 4-conductor measurement mode possible
- Colour test view of OK/NOK with measurements, test view switching to each plug

Integrated cable manager



- Individual creation of cable test programs
- Individual creation of plug files
- Configuration of connections within one plug / plug-to-plug
- Changing of existing cable test programs
- Specification of min./max. parameters for each connection
- Label print-out as reference to the relevant cable test program

Language switching



- Language switching during operation
- Language selection by selecting the country flag
- Individual labelling possible at any time

PCT (test cable tester)



- Mobile tester for regular check-ups of your test cables
- Integration into existing end-of-line test systems in automotive seat manufacturing.

Analysis unit

Colour Sensor Controller CSC

Analysis unit for 2 colour sensors

Simple analysis unit for cost-effective and rapid LED / colour recognition (luminous colours)

Technical data:

- Aluminium housing 150 x 80 x 30mm
- Input voltage 24V (18 - 36 V)
- Connecting plug Sub D 25-pin (RS232, output, input, operating voltage)
- 2 plug-in slots for LED sensor
- 4 isolated relay outputs to display results per sensor. Switching on the basis of stored parameter sets (min./max. RGB)
- 2 inputs to trigger measuring process (optocoupler 5 - 36V)

Serial Interface Rs232:

- Start measurement process
- Receipt of measurements / RGB values (0-1024ct RGB) and the 4 relay outputs after start of measurement process
- Record 4 parameter sets (min./max. RGB) per colour sensor
- Read 4 parameter sets (min./max. RGB) per colour sensor

Colour Sensor LED Recognition

FS-1



- M8 thread with cable and 6-pin Binder plug
- Recognition of RGB and luminous colours

Technical data:

- Input voltage: 5V
- Output signal: Analogue output signal -5 V

Software Tool Colour Evaluation CSC Manager

- Start measurement process
- Receipt of measurements / RGB values (0-1024ct RGB) and the 4 relay outputs after start of measurement process, visual colour display
- Record 4 parameter sets (min./max. RGB) per colour sensor
- Read 4 parameter sets (min./max. RGB) per colour sensor

