EMC PARTNER

EMC PARTNER AG

COMPANY PROFILE

Accredited Calibration

Quality at EMC PARTNER is based on an ISO 9001 management system. This is the foundation for an ISO 17025 accreditation verified by the Swiss Calibration Service (SCS). SCS No. 146 is the accreditation number of EMC PARTNER AG. Locally accredited but recognized worldwide through affiliation with the ILAC organisation

EMC PARTNER AG

THE LARGEST RANGE OF IMPULSE TEST EQUIPMENT UP TO 100KV AND 100KA

Experts in high voltage impulse technology, EMC PARTNER AG has built its reputation delivering innovative solutions for commercial and industrial EMC immunity testing, indirect lightning on aircraft and component testing for a worldwide customer base. EMC PARTNER is continually expanding through new product lines and new geographic areas. Based on our client's needs and the evolving market, EMC PARTNER design both traditional EMC impulse generators and impulse test systems for evolving technologies. Our clients, employees and the environment are equal partners in defining who we are.

A true Partner for EMC test solutions !

A SWISS ORIGINAL

Our long standing commitment to the EMC industry does not stop at designing test equipment. Our roots go back to the formative years of the EMC industry with over 30 years unbroken participation in IEC standard committees. A tradition that continues today with the new generation. We are totally committed to improving the EMC environment through our active participation in the International Electrotechnical Commission (IEC) and the Society of Aerospace Engineers (SAE). EMC PARTNER continue to push forward technological frontiers with patented designs and an innovative workforce.

INNOVATIVE	First design of a multifunction test system for CE marking
EXPERIENCED	Long-time participation in the EMC industry and standardization
MOTIVATED	Highly qualified, and experienced staff
RELIABLE	ISO 17025, accredited calibration laboratory.

IN-HOUSE DEVELOPMENT AND PRODUCTION

A team of qualified engineers enables us to provide competent advice, high quality reliable products and an efficient service for our customers. All relevant functions are maintained in-house with the benefit of being able to react fast to market demands for updates or new product developments. EMC PARTNER instruments are distributed to international markets through a network of trained representatives.

Development

Keeping pace with the ever changing requirements of national and international standards and evolving market needs requires our development team to continuously search for new and innovative solutions.

Production

The use of high quality materials is the foundation of our production. Our trained and qualified personnel ensure that material quality translate into reliable products.

Calibration

During the production process, individual modules and circuit boards are pre-tested before integration into a finished product for final calibration. This process maintains the quality and reliability of EMC PARTNER products.

Logistics

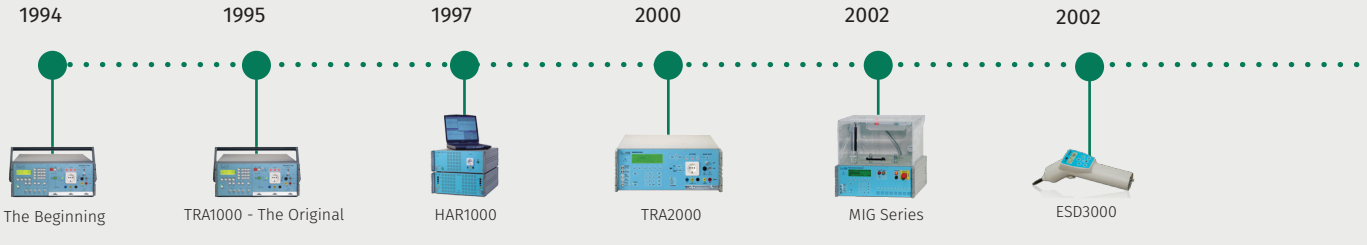
Accredited under the international “known consignor” scheme, EMC PARTNER AG export to all the industrialized countries following a strict process throughout the stocking, packaging and shipment of products.

SUCCESS THROUGH INNOVATION

Continual improvements and new designs ensure that our customers have access to the best equipment. EMC PARTNER AG, today, tomorrow and in the future.

From the beginning, EMC PARTNER AG has used new and evolving technologies to drive forward innovation in EMC testing solutions and instrument design. The initial product from EMC PARTNER AG's design office was TRA1000, the world's first integrated solution for conducted immunity tests. The fully modular IMU3000 and IMU4000 are the fourth generation in a long line of innovative products with a 20 year pedigree. ESD3000, still the only AA battery powered generator up to 30kV, followed soon after TRA1000. The unique design has kept ESD3000 as the ESD generator of choice across multiple applications.

Product Evolution



COMMITMENT TO QUALITY

From the beginning, our designs are fully integrated using a modern 3D CAD system which increases reliability and reduces time to market. The production process follows ISO 9001 procedures supported by a customized ERP system. The story does not end when instruments are shipped. The service department in Laufen, staffed by trained professionals, is linked closely with repair centres around the globe giving our customer base the best possible support through the product life cycle.

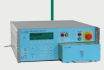
Standard Committees

Maintaining a technology lead means being involved in the standardization process. Membership of international standard organizations is part of our commitment to delivering the best test equipment enabling our customers to fulfil current and future requirements.

LOW FREQUENCY EMC	INDIRECT LIGHTNING
International Electrotechnical Commission	Society of Aerospace Engineers (SAE) AE2 committee

Quality Management

The EMC PARTNER ISO 17025 accreditation, follows quality procedures laid down in IS O 9001. All departments are regularly audited to ensure the highest standards are maintained. Quality management is key to ensuring product reliability.

2002

MIG2000-6 for MIL-STD-461

2005

Avionics Test System (DO-160)

2007

Fast DOW Tester

2009

MIG9603

2009

Transient 3000

2012

IMU Series

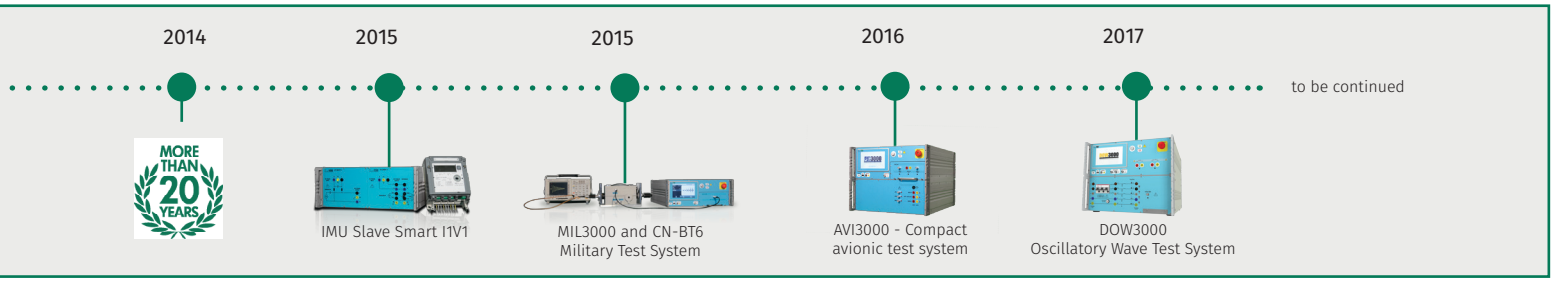
THE FUTURE

Trained and motivated staff are our greatest resource.
A constantly evolving EMC market requires not only new products, but a new way of thinking.

New technologies drive our business. EMC PARTNER is engaged in a global training program for sales and service partners providing the tools to meet future challenges. Linked with our commitment to the environment and our social responsibility, EMC PARTNER aim to build relationships that last.

Accredited Calibration

As a global manufacturer of EMC test systems we have to respect national and international standard requirements. ISO 17025 is recognized worldwide as the benchmark for quality. With the SCS Nr. 146 we are accredited by the Swiss calibration Service, to perform calibrations on all products manufactured by EMC PARTNER AG. The Swiss Accreditation Service (SCS) is a signatory to ILAC, the International Laboratory Accreditation Cooperation, which extends acceptance to a worldwide customer base.



UNIQUE EMC TEST SOLUTIONS

Product Application Overview

HOUSEHOLD AND CONSUMER ELECTRONICS

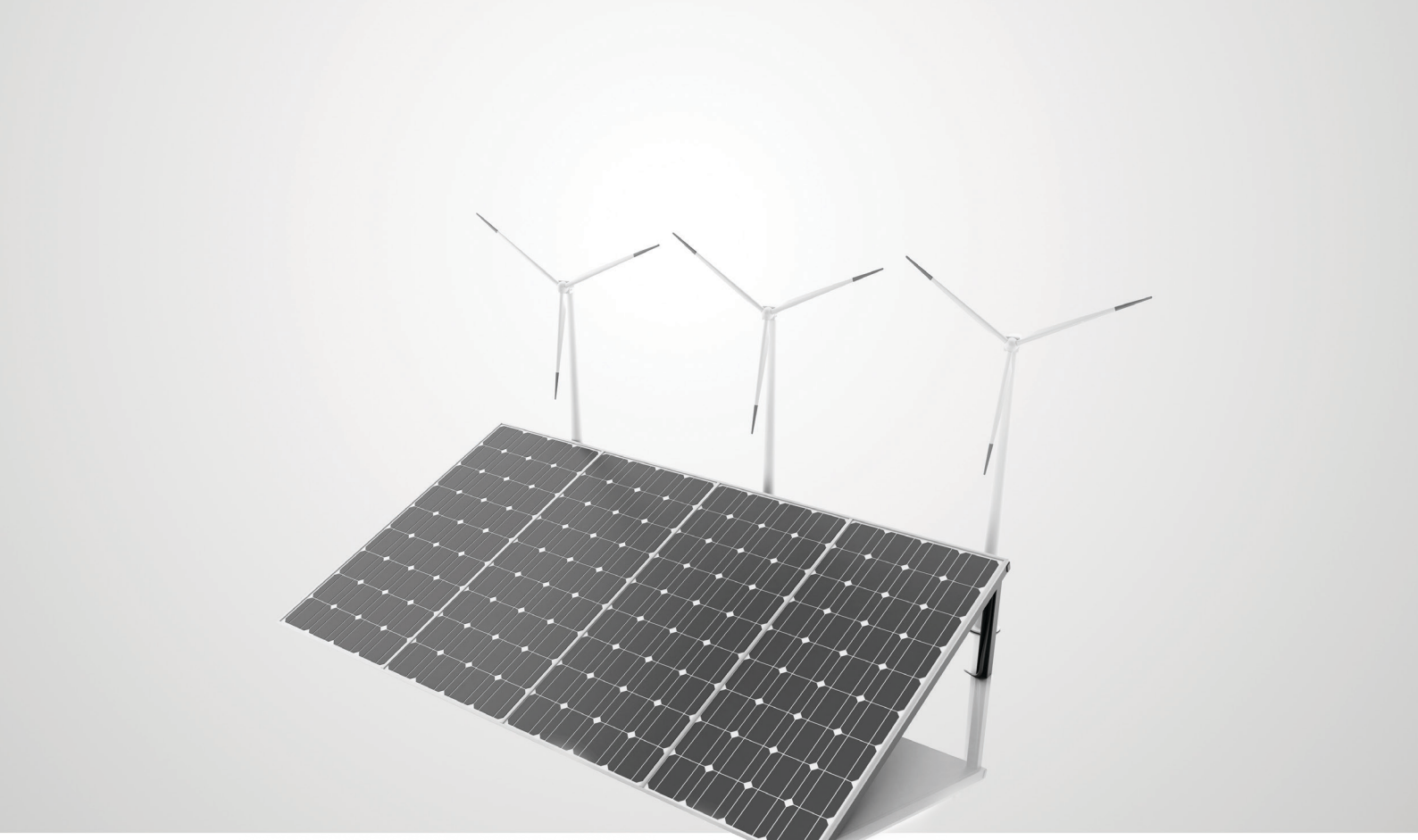
Transient Systems for conducted immunity tests on electronic equipment.

Basic and product standards including; ESD, EFT, surge, AC dips, AC magnetic field, surge magnetic field, differential mode, damped oscillatory and DC dips. According to IEC, EN, CISPR, ISO,

MODERN	Graphic user interface with multiple languages
FLEXIBLE	Full modularity configured as wanted
EXPANDABLE	Add circuits and accessories to extend test capability

Latest Products

IMU4000 and IMU3000 Modular Test Systems



INDUSTRIAL APPLICATIONS

Systems for EMC tests on control equipment, machines and large installations

Basic and product standards including; ESD, EFT, surge, AC dips, AC magnetic field, surge magnetic field, common mode, damped oscillatory and DC dips. According to IEC, EN, CISPR, ISO, ITU, FCC, ANSI, UL, BSI, JIS, etc.

REPEATABLE Save and reuse test sequences throughout an organization.
CONNECTED Multiple instruments networked together controlled by software.
EXPANDABLE Add more instruments or accessories to extend test capability.

Latest product

DOW3000 and IMU-SLAVE-SMART - Modular IEC Test Systems

AVIONICS TESTING

Test equipment for indirect lightning, voltage spikes and induced signal susceptibility.

Impulse test equipment and accessories for aircraft electronics testing. Solutions for RTCA / DO-160 and EUROCAE / ED-14 sections 17, 19, 22 and 25. Specific equipment for Airbus ABD0100-1-2, ABD0100-1-8, Boeing D16050 and many more.

RELIABLE	High impulse fidelity over total test duration.
INTEGRATED	Total system solution with generators, couplers and probes.
ADVANCED	Compact high tech solution with many unique features.

Latest product

AVI3000 & CN-BT7 coupler - Compact avionics test system

TELECOM APPLICATIONS

Test instruments for telecommunications equipment, interfaces and components.

Impulse test equipment and accessories for telecommunications applications. Complete solutions for ITU-T K.44, ITU-T K.20, ITU-T K.21 basic and enhanced levels for impulse, power contact and power induction. FCC part 68 impulse tests on subscriber line equipment. Product standards and specialist component test requirements.

COMPLETE	Not just impulse generators, also power contact and power induction.
UNIQUE	Specialist equipment for telecom interfaces and protection devices.
FLEXIBLE	Choice of hardware to meet specific need.

Latest product

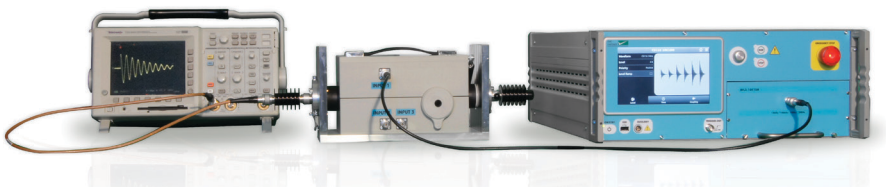
TEL0305LP - Impulse current generator with switched outputs

MILITARY TESTING

Test equipment for the military environment

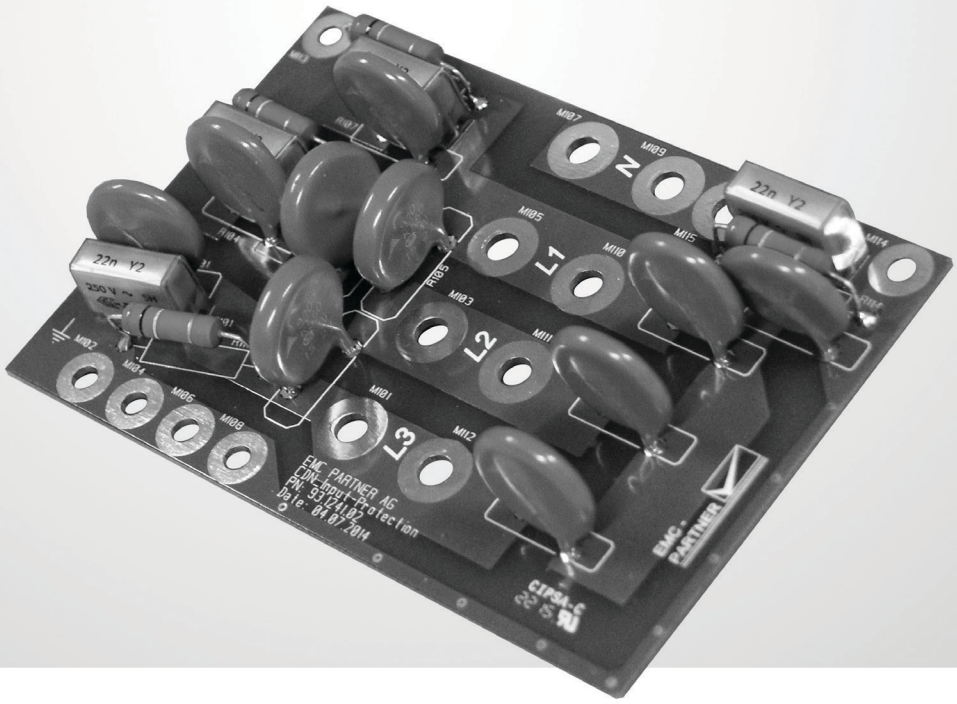
Generators and accessories for military vehicles used by all services. Based around the MIL-STD-461 requirements CS106, CS115, CS116, CS117 and CS118. Complete modular test systems meet the highest levels. Additional test equipment is available to meet other MIL-STD requirements.

COMPLETE	Everything included for test and verification.
RELIABLE	Twenty years of experience in the toughest environments.
EASY	Fast system setup, touch panel control, on screen graphical help.



Latest product

MIL3000 Test system - New technology test system for MIL-STD-461



COMPONENT TESTING

Impulse generators for qualification of components used in surge environments

Instruments for testing; varistors, gas discharge tubes (GDT), surge protective devices (SPDs), X / Y capacitors, suppressor diodes, connectors, inductors, fuses, resistors, etc. Specialist equipment for both 2-pole and 3-pole surge protection devices.

SAFE	Safety circuit with test cabinet interlock ensure personnel safety.
SPECIALIST	Unique test systems for specific applications.
RELIABLE	Solid state patented design performs when needed.

Latest product

COMP0804CAP - Active Flammability Tester for X and Y capacitors

ENERGY DISTRIBUTION

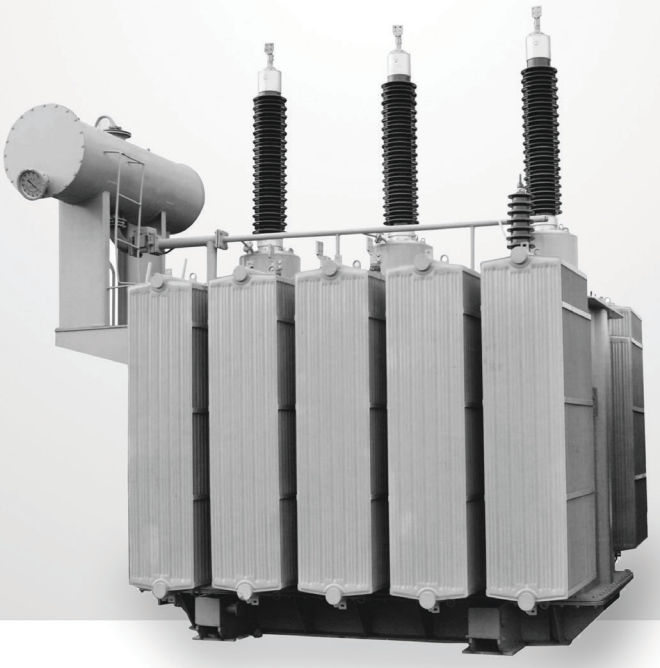
Impulse testing of monitoring and metering equipment in the energy distribution network.

Specialist generators for testing; electricity meters, protection relays, distribution transformers, etc. Latest generation smart meters can be tested for insulation properties, electrical parameters, differential mode disturbance as well as EMC.

HIGH TECH Special application based test equipment.
RELIABLE Tried and trusted products built on long experience.
FLEXIBLE Choice of hardware to meet specific need.

Latest Product

DOW3000 - Damped oscillatory wave test system



INSULATION TESTING

Generators to test voltage withstand characteristics of products and materials.

Insulation Test impulses are applied to ensure the safe operation of transformers, cables, switches and a multitude of other products. The 1.2/50 µs voltage waveform is used for impulse insulation tests. Accurate waveforms, controlled energy content and high voltage are characteristics of insulation test equipment.

UNIQUE	Solid state technology from 200V to 144kV.
RELIABLE	High impulse fidelity into capacitive and inductive loads.
SAFETY	Emergency stop built into every generator

Latest Product

MIG14403 - Test system up to 144kV

EMISSION MEASUREMENT

Test equipment for commercial and industrial electronics.

Power line distortion can cause disturbance in humans and also electronic equipment. Flicker and Harmonic measurements are required as part of the European Union CE evaluation for many products.

INTEGRATED Harmonics and flicker test system with all hardware in one unit.
EXPANDABLE Single phase system can be extended to test three phases.
RELIABLE Used and approved by top international agencies.

Latest product

HAR1000 + HAR-EXT1000 - Harmonics & Flicker Emission Analyzer

SYSTEM AUTOMATION

Extend hardware with software packages that increase power and flexibility.

EMC PARTNER test equipment offers a high degree of automation directly from the instrument front panel. Functions such as amplitude, polarity, phase angle and coupling path can all be selected. However, remote control from a PC offers additional benefits. A range of software packages provide reliable remote operation and enhanced operator features. Demo-Versions of all the software packages are available free of charge from the EMC PARTNER AG Website.

INTUITIVE	Interface easy to understand. Put us to the test.
EXPANDABLE	Software modules add capability as needs arise.
READY	Test routines pre-programmed for immediate use.

Latest product

TEMA3000 - Software test suite for EPOS test systems

AFTER SALES SERVICES

Our customers are important partners now and in the future.

A successful sale is the start of a long and mutually beneficial relationship. Maintaining product availability at the highest level for our customers is top priority. A highly skilled and motivated team are at your service!

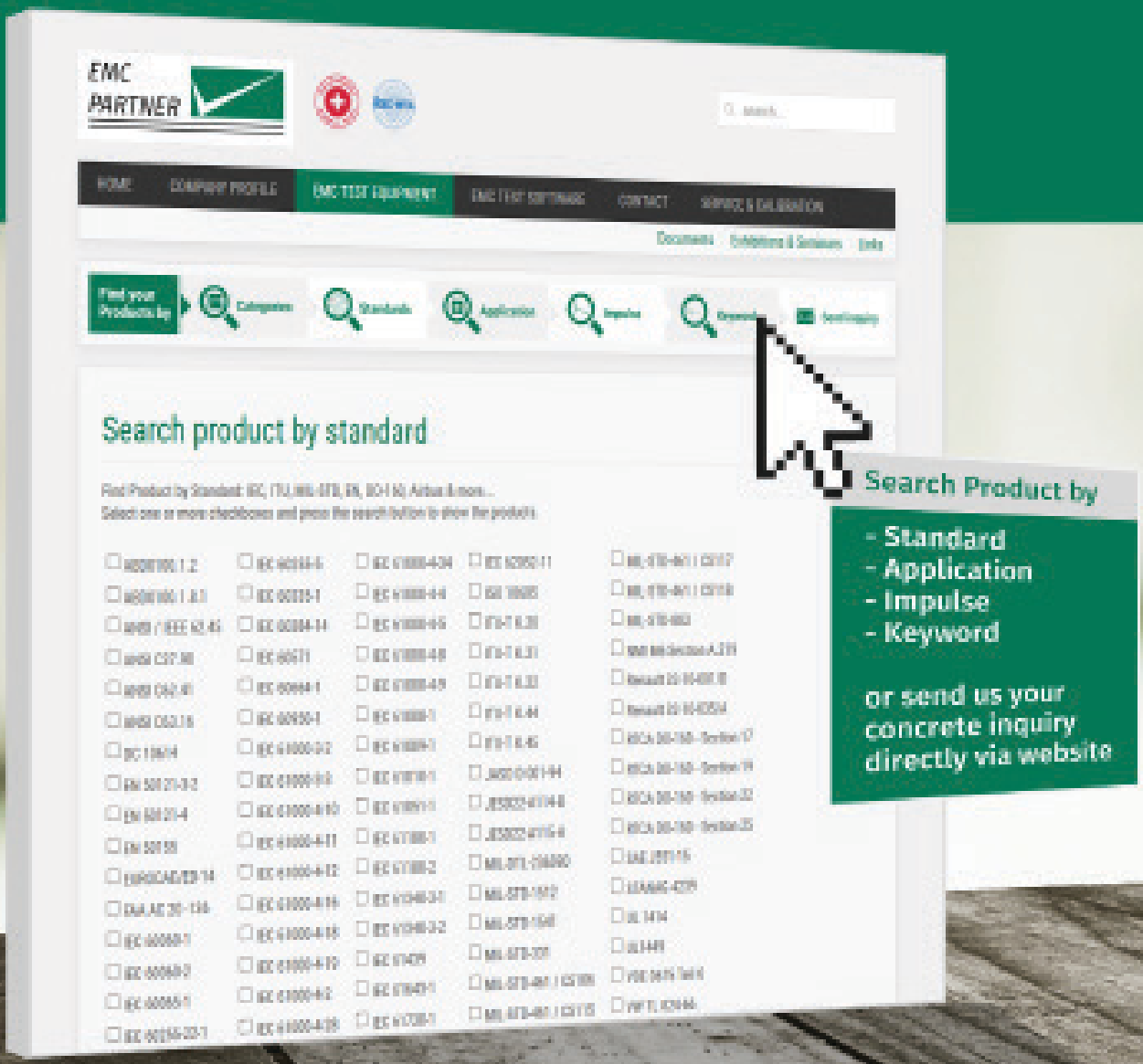
Training	Calibration	Customer Service
In the factory or onsite training help our customers to achieve maximum utilisation of their investment.	Equipment is subjected to the same rigorous test regime whether for a manufacturers or ISO 17025 accredited calibration.	Experienced engineers are on hand to provide the fastest response to any service request.

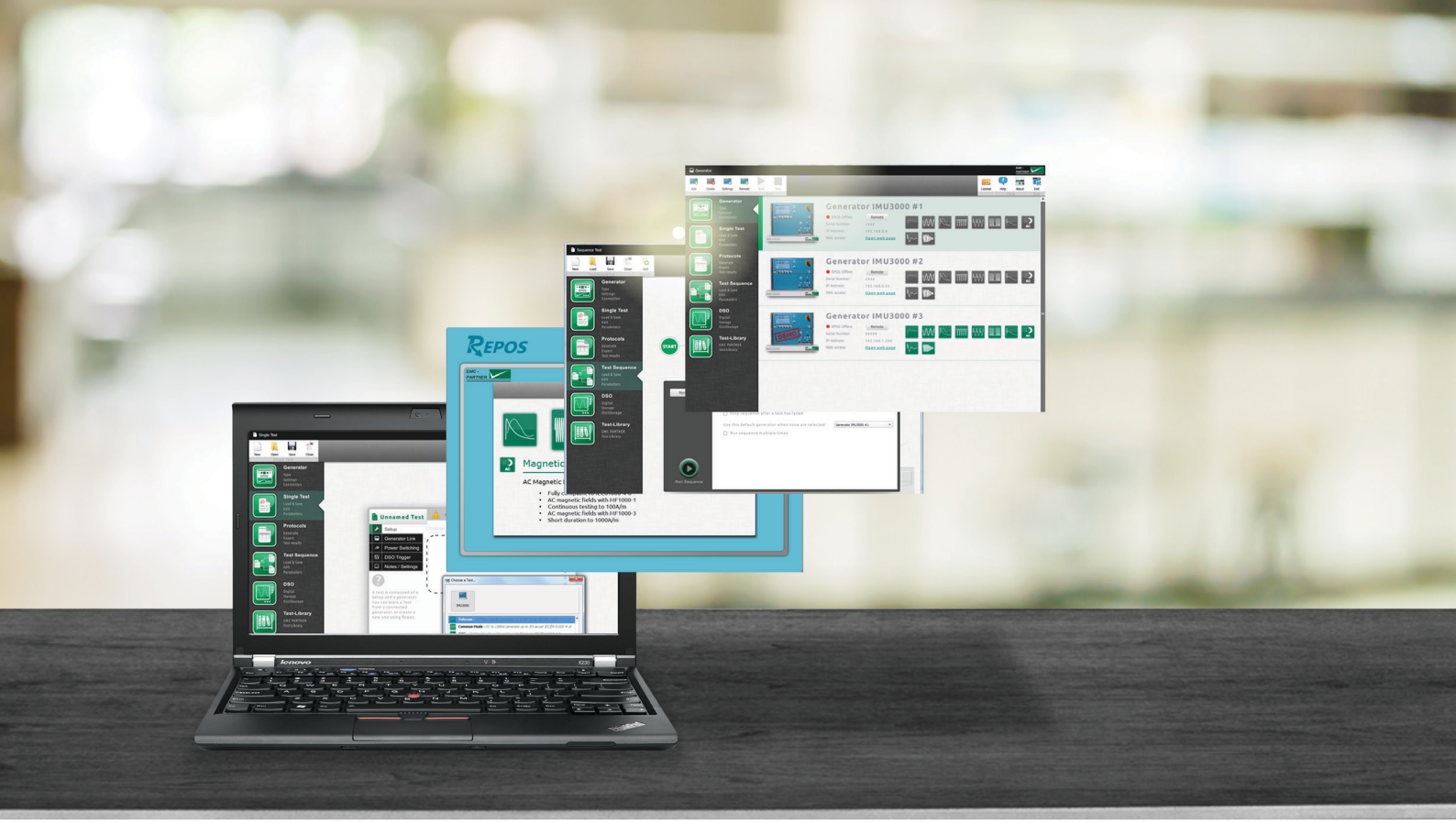
INTERNATIONAL	Swiss expertise maintained through worldwide service centres.
EXPERIENCED	More than 20 years in the EMC industry.
RESPONSIBLE	We stand behind our products

Specific EMC test requirements ?

Search & find your required test products with our powerfull **QUICK SELECTOR** tool at

www.emc-partner.com





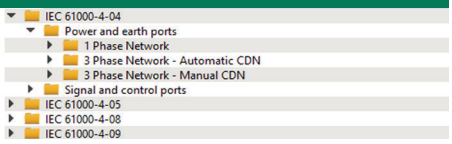
TEMA3000 SOFTWARE SUITE

TEMA3000 - The best solution for professional EMC Test Labs enables comfortable test setups, easy parameter changes and customizable protocolls with DSO integration for EPOS based test system.

Customizable Reporting

- Customize & edit your reports
- Export to multiple file formats
- Integrate DSO measurements

Manage Tests and Sequences



- Predefined basic IEC test setups
- Save and load tests & sequences
- Combine tests to sequences

Productive Workflow

- Minimum learning time
- Drag and drop technology
- Integrated assistant function

Smart Connectivity

- Transfer rests / reports to PC
- Integrated webserver
- Remote control from computer

THE EMC PARTNER PRODUCT RANGE

Find further brochures on our website emc-partner.com/brochures or contact your local representative for a hardcopy.

IMMUNITY TESTS

Transient Test Systems for all EMC tests on electronic equipment. ESD, EFT, surge, AC dips, AC magnetic field, surge magnetic field, common mode, damped oscillatory and DC dips. According to IEC and EN 61000-4-2, -4, -5, -8, -9, -10, -11, -12, -13, -14, -16, -18, -19, -29.

LIGHTNING TESTS

Impulse test equipment and accessories for aircraft, military and telecom applications. Complete solutions for RTCA / DO-160 and EUROCAE / ED-14 for indirect lighting on aircraft systems, MIL-STD-461 tests CS106, CS115, CS116, CS117, CS118 and Telecom, ITU-T .K44 basic and enhanced tests for impulse, power contact and power induction.

COMPONENT TESTS

Impulse generators for testing; varistors, gas discharge tubes (GDT), surge protective devices (SPDs), X / Y capacitors, circuit breakers, electricity meters, protection relays, insulation material, suppressor diodes, connectors, chokes, fuses, resistors, emc-gaskets, cables, etc.

EMISSION MEASUREMENTS

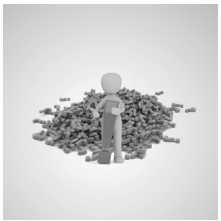
Measurement of Harmonics and Flicker in 1-phase and 3-phase electrical and electronic products according to IEC /EN 61000-3-2 and 61000-3-3 . HARCS Immunity software adds interharmonic tests, voltage variation according to IEC/EN 61000-4-13, -4-14.

SYSTEM AUTOMATION

A full range of accessories enhance the test systems. Test cabinets, test pistols, adapters and remote control software, simplify interfacing with the EUT. Programmable PSU, EMC hardened for frequencies from 16.7Hz to 400Hz. PS3-SOFT-EXT complies with IEC / EN 61000-4-14 and -4-28.

SERVICE

Our committment starts with a quality management system backing up our ISO 17025 accreditation. With the SCS number 146, EMC PARTNER provide accredited calibration and repairs. Our customer support team are at your service!



For further information please do not hesitate to contact your local EMC PARTNER AG representative or visit our website for more information and contact details.

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