

## Test solutions

Power electronics test solutions  
for military applications



**SCHAFFNER**

YOUR POWER ELECTRONICS  
TEST CONSULTANTS

[www.schaffner.com](http://www.schaffner.com)

# Power electronics test solutions

**The sophisticated power electronics found at the heart of today's high-end military projects needs superior, comprehensive test facilities.**

Bespoke Schaffner systems are used all over the world for functional test, diagnostics and repair of power electronics in some of the most complex military equipment in the industry. Schaffner's knowledge and expertise in high-end power supply test is unparalleled. Applications include AC and DC power supplies, generator and engine control units as well as a wide range of associated electronics.

Schaffner test systems are built around open architecture hardware and software that permit complete flexibility to configure and integrate third party instrumentation. This is the basis of the Schaffner tailor-made test solution, delivering comprehensive test coverage and proven front-line reliability to some of the world's most prestigious military projects.

## World class test systems

### *Reliable hardware*

The modularity and flexibility of the Schaffner test architecture allow our design teams to configure a complete test solution to fulfil your project specification.

Systems can be configured using industry standard IEEE, VXI, RS232 or RS485 communications or military bus 1455, with instrumentation from our own comprehensive range of loads, high frequency scanners, power relays and measurement modules, as well as third party equipment, COTS or custom electronics.

Superior instrumentation and high quality system building provide a solid foundation for accurate measurement and long term system reliability. Attention to detail, from system design to fixturing, and our lifetime support commitment, ensure your Schaffner test system is a sound investment for the future.

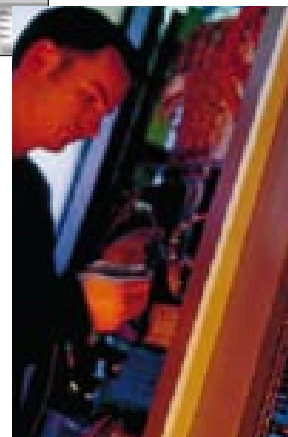
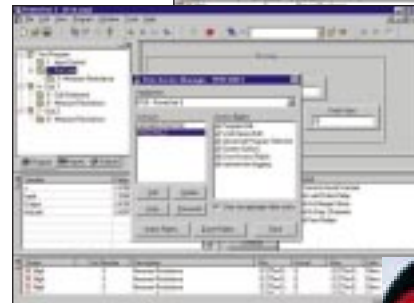
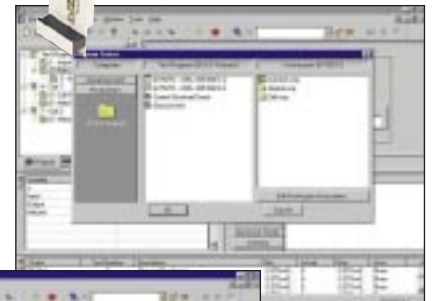
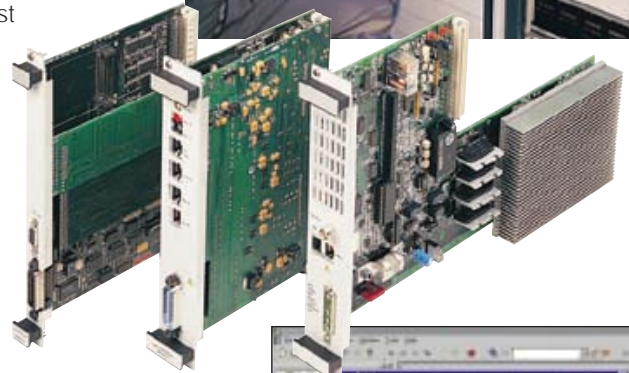
### *Powerful software*

Schaffner's integrated Windows-based test environment, PowerStar 5, puts the power of the test system into the hands of the test engineer. An extensive library of standard tests, automatic capture and analysis of 'scope traces, and simple drag-and-drop programme generation allow highly efficient development of complex functional test programs. Interactive software offers real time control of virtual instrumentation for detailed diagnostic and repair work. Real-time monitoring of critical parameters protects the unit-under-test from accidental damage.

The inherent flexibility of the PowerStar 5 environment facilitates command and control of specialist test modules and custom instrumentation. ActiveX and OLE automation allow integration of third party applications such as LabView, LabWindows and HPVEE.

Professional reporting facilities are provided, and test results are logged in ASCII format for compatibility with common analysis packages including Excel and Access.

PowerStar 5 is fully compatible with ATLAS, and may be run as a module within an ATLAS system.



# for military applications

## System integration

Schaffner's long standing experience in the design and build of complex power supply test equipment has allowed us to develop an extensive engineering expertise and system integration capability. Our open-architecture test hardware and software, give us the ability to implement your project specification accurately.

## Project management services

Schaffner is experienced in the management of large-scale projects for military and other applications. We will provide you with full technical consultancy and documentation through each phase of the project, from an initial statement of work to system trials and acceptance.

Your dedicated Schaffner project management team will include local engineers from our regional technical centres, and system designers based at our headquarters in Limerick, Ireland. Together, they will ensure the timely delivery of each stage of the project, with regular meetings, design reviews and customer reports to back-up the process.

Our services do not end with the installation and commissioning of your Schaffner test system. All systems are sold complete with full system training, after-sales and life-time technical support.

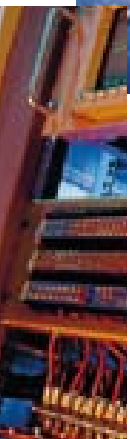


Photo supplied by BAE SYSTEMS

**Schaffner test systems have been used to test power electronics for**

**Typhoon (Eurofighter)**

**F14, F18, F15 aircraft**

**Harrier AV8B**

**Missile technology including Cruise and ASRAAM**

**Ground based radar systems**

**Directed infrared counter measures DIRCM**

**Sonar systems**

**Front-line maintenance (mobile)**

**Third-line maintenance**

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# Power electronics test solutions for military applications



## Schaffner

The global Schaffner Group comprises world-leading businesses in EMC test equipment, EMC components and power electronics ATE. With its head office in Switzerland and sales subsidiaries in China, France, Germany, Ireland, Italy, Japan, Singapore, Sweden, Switzerland, the US and the UK, Schaffner is active in all major electronics and defence markets world-wide.

Schaffner has been supplying high-performance power electronics test system solutions to the military, aerospace, telecommunications, OEM power supply, and related industries for more than 20 years.

Wherever you are in the world, as a Schaffner customer, you can be confident of the highest quality products, complemented by skilled consultancy and support, today, tomorrow and into the future.

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