

Test Equipment for spike missile System

- Spike Missile Generic Tester – RAFAEL, Missile Division

The defense industry of the third millennium is characterized by an endless aspiration to excellence, creativity and innovation. **Chaban Group**, Israel's leader in the development, production and marketing of universal, **Automatic Test Equipment (ATE)**, has gained much experience in developing, production and marketing universal **hardware / software test equipment for electronic assemblies, that provide customers with the generic and optimal solution**, with individual adaptation for their needs.

You are invited to become acquainted with one off the high quality applications of Chaban Group in this field:

- **Rafael's Spike Missile Generic Tester (SMGT):**
- Generic test equipment for the Production Line ATP of the spike missile.
- Generic sub assemblies test equipment for customer's maintenance and periodic calibrations.

Rafael developed at the early 90th several unique but similar I-level tester each for every sub assembly of the Rafael's Spike Missile. Chaban that had duplicated while upgrading those testers for Rafael for some of the European NATO countries (Finland, Holland, etc.) advised Rafael to replace the different yet similar testers with a generic, update, low cost and yet very advanced tester that will be able to test each and every subassembly of the spike missile and similar future missiles as well. In the year of 2003, the test equipment was



developed and became one of the **flagship product of the Group and its customer – Rafael Company**, Rafael uses the **Generic test equipment** for testing the Spike Missile system and its sub assemblies, many of which are classified. The generic test equipment is based on a **PC environment** and high quality connection zero force **Receiver interface (VPC)**. A combination of standard off-the shelf items, such as an industrial pc, which contains a variety of cards (A/D, D/A, DIO, etc.)

AC drawer, DMM assy, Scope, a developed operating & interface assembly, several power supplies, Chaban Pc-mux32 card, Chaban pc-multi I/O (TTL, DS, DR, MUX) card, internal and external cables, and dedicated cards for signals adaptation.

Through modular integration of these quality components, the test Equipment controls and monitors the measuring instruments and standard power supplies through GPIB communications and a **(VPC) zero force adapter interface (ITA)**. Each sub assembly of the spike missile has its own ITA assembly, for adjusting the signals to the unit.

The tester software environment is wrapped in a user interface that was developed by Rafael (**TOS**), every ITA has its own comprehensive self-test application and expansion of ATP program.

Summary: Our customer Benefit from the most advanced product that leaves **Chaban Group** this one also testifies of the uncompromising quality control of the company: the Performance of many technical reviews such as **PDR, CDR**, configuration of documentation and production files according to full military standards and phases of test equipment capability Demonstration (**ATP, FAT, QTP**) **Integrated** with malfunction simulations and high reliability requirements. **The combination of the optimal Product with professional service** from Chaban technologies division provides our customers with an **exclusive turnkey Product - from the developmental Phase to the final production – to their complete satisfaction.**

