

Automatic Test Equipment for a Friendly Robotic Machine

The Chaban Group, Israel's leader in the development, production and marketing of **universal, automatic test equipment (ATE)** has gained much experience in the defense industry. **Chaban's** well known excellence, reliability and innovation is now being channeled by the group towards **civilian and industrial applications** that combine specialized hardware and software. In the framework of the **Chaban Group's** consolidation in the civilian market, it has developed procurement administration software (**ERP**) for managing procurement, storerooms, stock, production shop orders, budgetary control, and even the employees' time clock. One of the flagship products meant for the civilian industry is the "Friendly Robot" – **an ATE system for testing the proper functioning of a lawn mowing robot** used in small and medium sized gardens, developed for **Friendly Robotics** (one of **Hoover's** company). This is extended rear echelon (**I-Level**) test equipment for the **final production line, for testing units in a very short time and at a high manufacturing rate.**

The **ATE** , which is based on a **PC** environment, has a unique combination of standard off-the-shelf items such as an industrial PC, measuring instruments, switching cards, etc., and components of the highest quality developed at **Chaban** such as operating software, the operating unit, the pneumatics system, the rotating stage and interface items for the machine being tested, adapter cards and cables. The tester in the test equipment performs the acceptance and diagnostic tests of the unit being tested in a **Lab Windows / CVI** software environment.

In addition, the test equipment software includes simulation and operation of the system envelope. The result? These, combined with many sensors, allow the system developer complete and **friendly control at the level of a skilled production line operator** when testing the lawn mower.

As for all **Chaban** products, this product was subjected to the most stringent quality tests: the performance of many technical reviews such as **CDR** and **PDR**, and compliance with reproducibility and minimal testing time.

The Chaban Group is now proud to invite you to benefit from the most innovative technology, and from reliability in individual adaptation to your requirements. **Chaban's** three unique divisions are at your disposal; we deliver **an exclusive turnkey product** to our customers – **from the developmental phase to the final production** – guaranteeing the most reliable and innovative product of the highest quality in the civilian and industrial field.

