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PRODUCTS OR MACHINERY

Chroma has been established its own brand name in Test and Measurement equipment since the first Video Pattern Generator made in Taiwan was announced in 1986. Started off from niche market with inventing new technologies in mind, Chroma has developed hundreds of product lines crossing the Optoelectronics, Display, IT and Semiconductor industries. Currently the test demands for photovoltaic, automotive electronics, nano-product, and wireless telecommunication industries are also in planned for research and development. With more than 20 years experience in cultivating the measurement field, Chroma is hoping to provide the really automatic test solutions to electronic industries by integrating the Test and Measurement instruments, automated mechanical equipment, developed software and information technology platforms in the coming future. From the fabrication of solar cell to the sale as end user product, the entire silicon photovoltaic industry chain can be divided into silicon, wafer fabrication, solar cell, solar module, PV system assembly, PV peripherals and channels from top to bottom. Various test devices and inspection equipment have been developed to meet the test requirements for cell and module process in solar cell testing. First, the I-V tester measures the conversion efficiency of a cell by dividing it. Next, the automatic optical inspector identifies the cell color and printing defects on the face and back and last a solar cell sorter conducts the sorting. Since the production of solar cell is about conversion efficiency and yield rate, the percentage of damage in the entire manufacturing process is an important indicator to the process management. The micro-crack inspector developed recently can screen out the broken cell easily that not only ensures the cell quality but also replaces the assessment used to be done manually. Furthermore, the system inverter has to control the current flow and calculate the back current besides converting DC to AC when the PV system is assembling. The AC/DC power supply and electronic load can simulate and test the output electricity to assure it's quality.

Company Profile of **Chroma ATE INC.**

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