

# AUTOMATED TEST EQUIPMENT

## MECHANICAL ENGINEERING

Solid Modeling is extensively utilized at EDC for all product design/development/fabrication activities. Many of EDC's designs have utilized pneumatics, hydraulics, vacuum, ultra high vacuum technologies as well as others.

## ELECTRICAL ENGINEERING

EDC's provides hardware design that can include Printed Circuit Board Design, Analog, and Digital, Motion control, algorithm development, ASIC design and more.

## SOFTWARE ENGINEERING

EDC designs custom software solutions for its customers. This includes writing code to work with standard real-time systems, embedded operating systems, custom drivers, assembly, FPGA's, PLC's, micro PLC's, LabVIEW, C++ and many others.

## The Company

EDC is a leading supplier of Automated Test Equipment (ATE) and Product Development services for over a decade. Our test systems and products can be found in aerospace, military, medical, industrial, nuclear, telecommunications and commercial markets. We are a multi-disciplinary team with a diverse skill set in design, engineering, automation and fabrication. EDC can assist in all phases of automated test equipment, product development, concept creation, prototyping, process equipment, and fabrication. Becoming an extension of your in-house team, we tailor our services to integrate smoothly within your development system.

Our commitment to talent, tools, and technology allows us to offer turn-key development solutions helping our clients bring their products to market quickly and cost-effectively.

We can help you reach critical project milestones by providing dedicated resources that expand your in-house capabilities with a variety of engineering and manufacturing expertise. Our mission is to expedite



Functional/ESS Test Stations

your product development cycle while providing cost-effective solutions for your requirements. EDC looks to build relationships with our clients, built on efficient communication, complete disclosure, absolute confidentiality, timely results and a total commitment to quality.

## Turnkey Designs & Build to Print

EDC provides everything from fixturing, rack systems, roll-up configurations, custom in-line test stations to hydraulic test stations. We can even upgrade existing systems and modernize them to today's standards if you are having system obsolescence issues. EDC uses the most cost effective equipment to satisfy your requirements. Use of Commercially Off The Shelf (COTS)



Board Level Test Station



# AUTOMATED TEST EQUIPMENT

## DOCUMENTATION

Complete documentation is created using exploded assembly drawings, PCBA's, cable drawings, wiring schematics and detail drawings. Documentation follows industry standard ASME Y14.100 and ASME Y14.5M Geometric Dimensioning and Tolerance. EDC also can provide design **history files, validation and commissioning.**

## FABRICATION

EDC can manufacture directly from your solid models utilizing Computer Aided Manufacturing (CAM) technology. Plastic parts can be created using Stereo lithography (SLA) or other appropriate technology. EDC also offers exotic material welding, sheet metal fabrication, wiring and PCB population.

For more information on any of our products or services please visit us on the Web at:  
[www.edcisolutions.com](http://www.edcisolutions.com)

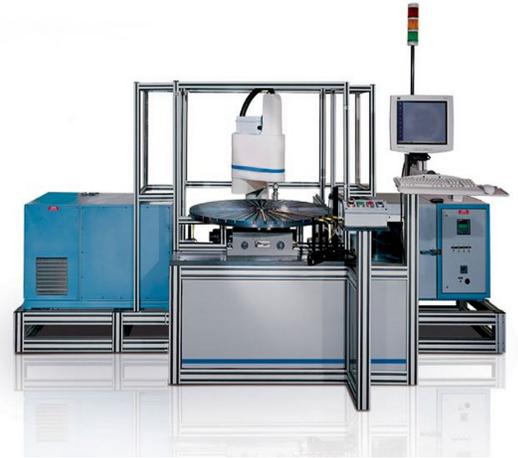
equipment is always given the first consideration, whether purchased by EDC or provided by the client. Modular system design that allows for future expansion is given a top priority. If necessary, custom equipment and fixturing will be designed using our in house expertise. Utilizing our in-depth experience with the latest tools and technologies, we continue to deliver reliable, economical systems on time and on budget.

## Software

Whether your requirements require a small data acquisition application, a single test cell or a custom test system our engineering team has the experience to design the right solution for your application. EDC provides LabVIEW, TestStand, Microprocessor, and PLC programming expertise to support your specific requirements. EDC also can provide its own custom LabVIEW test executive for automated test systems. Our test executive allows clients to edit and add ATP's without having to modify the application source code. Simply edit and save a text file with the new parameters. This allows for future product expansion test capability without. All systems are delivered with source code and documentation for full disclosure.

## Automation/Fixturing

EDC can design manual, semi, or fully automated controls for your test system. This can be



Robotics – Pump Laser Diode Test Station

accomplished by providing one or a combination of pneumatic, vacuum, hydraulic, and electro-mechanical automated components. Use of robotic pick and place platforms are used to reduce repetitive tasks, improve yield and eliminate errors. EDC designs custom fixturing to meet the needs of your unit under test (UUT). Bed-of-nails PCB fixtures allows the same test equipment to be used for a wide variety of devices or modules without disconnecting a single cable. Our flexible modular interfaces allows for future expansion.

## Services

- ⚙ Automated Test Equipment
- ⚙ Product Development
- ⚙ Mechanical / Industrial / Automation
  - Solid Modeling, FEA, GD&T, Motion
- ⚙ Electrical Engineering / PCB Design
  - Analog, Digital, GPS, USB, FPGA
- ⚙ Software / Firmware
  - LabVIEW, Microprocessors, PLC's, C++
- ⚙ Manufacturing
  - CAM Services, Machining, Wiring



Custom Thermal Plates



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