



Packard Bioscience

(Currently offered by B-R-A-H-M-S AG)

Kryptor Homogenous Blood Analyzer

Industrial Design by:
Cesaroni Design Associates, Inc.

The Kryptor is a fully automatic laboratory analysis system, able to process a multitude of samples and tests per day.

The Kryptor is based on the TRACE technology (Time Resolved Amplified Cryptate Emission), which brought French researcher, Jean-Marie Lehn, the Nobel Prize for Chemistry.

Challenge

- Hi volume styling, for a Low volume high cost item.
- Improve Service-ability & reliability.
- Reduce system weight to less than 200 lbs.

Design for Manufacture

To meet the desired look, weight, service, and reliability goals the instrument was redesigned, utilizing Structural Foam Injection Molded parts. These components serve as the instrument's structure and help to position the many sub systems. The sub-assemblies were designed into modules, which could be tested & qualified "In-house" and then field replaced.

Cost of Goods Reduction

A 50% reduction of costs, was achieved, through aggressive redesign. The modular systems are

recyclable, by rebuilding them a dramatic savings was achieved in field service inventory costs.

Rapid Development

From the ID concepts, the instrument was designed in 3D CAD. Pre-production and Trial units were fabricated from the 3D database without drawings. During Trials, a documentation package was completed and available for Production Release. The use of Rapid Development Technology allowed 6 months to be trimmed from the development schedule.