



Production Line Inspection

Reliable Control Systems for NDT

▶ “Captec have proved themselves to be experts in custom solutions, a great experience.”

Technical Lead

A leading manufacturer of non-destructive testing (NDT) systems, offering specialist mechanical and optical metrology capabilities for large scale measuring platforms. Their innovative solutions cater to various sectors including, consumer, electronics, automation and more. Uninterrupted computer supply plays a vital role in enabling the customer to identify and rectify component faults efficiently.



Requirements & Issues

- ▶ Versatile mounting options to accommodate multiple installation types, while maintaining cost-effectiveness
- ▶ Capability for 24/7 operation in harsh factory environments
- ▶ Processing performance levels must fulfil demanding imaging requirements
- ▶ Compatibility with customer specific I/O cards
- ▶ Product availability and longevity are essential to the customer and the application
- ▶ Fault tolerance capabilities built in to achieve high uptime and fast fault recovery, minimising costly downtime

The Solution

- ▼ Our 2U customised mounting bracket and chassis offer a cost-effective solution providing stability and unified specification for seamless integration
- ▼ Front fan filters and wide operating temperature range ensures continuous functionality in hot and unclean environments
- ▼ Equipped with latest generation processors for optimised imaging performance
- ▼ Custom PCI and PCIe slots configured to support customer's individual requirements
- ▼ Customised long life components reduced costs and resources used in retesting and revalidation
- ▼ Reliability and robustness of systems reduced downtime associated with systems faults, increasing throughput and productivity



The Outcome

- ▼ Initial order of several hundred units was delivered on schedule meeting customer deadlines
- ▼ Provision of customised brackets reduced overall costs and reinforced stability
- ▼ Long life parts eliminated the need for the quarterly revalidation of components
- ▼ Improved reliability of systems and specification standards for over three years
- ▼ Effective project management and successful outcomes instilled confidence in our customer, resulting in repeat orders and a strong partnership



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