



PROJECT PROFILE

PRODUCT DESIGN - GAMMA CAMERA ROTOR DESIGN

CLIENT CHALLENGE

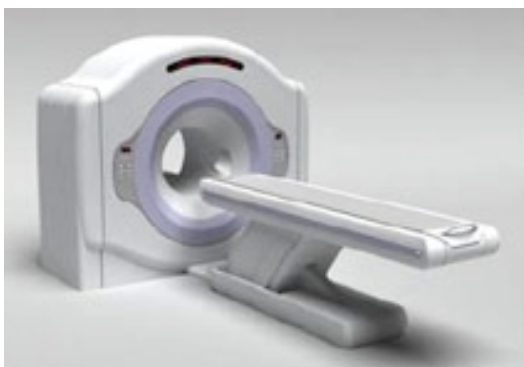
A manufacturer of specialized diagnostic medical equipment desired to streamline the manufacturing process and implement new components in one of imaging products. Several current Palladium personnel were retained (prior to the incorporation of Palladium Product Development & Design) to detail individual components of a gamma camera gantry rotor and create a general assembly with new components for single and dual head configurations.

SCOPE OF SERVICES

Using conceptual drawings supplied by the client individual components were modelled. Several components were redesigned to ensure optimum fit and performance. Fit and function analyses were performed to ensure easy assembling and full range of travel for all components, while maintaining and improving the operator and patient ease of operation and function for the entire medical imaging assembly. All component models were developed into detailed drawings for manufacturing purposes.

PROJECT HIGHLIGHTS

- Developed fully parametric 3D models for all parts and assemblies.
- Redesigned components to avoid interference or travel limitations,
- Implemented HMI improvements as required.
- Implemented standard component selection for optimized design.
- Supplied detailed manufacturing and assembly drawings to the client's standards.



SUPPORT ENGINEERING SERVICES

Palladium Product Development & Design provides engineering for many products, industries and companies such as the case history described above. Many of the same personnel involved with the Gamma Camera project described above (some with over 20 years industry experience) are still active with Palladium and providing services to past clients they have served, as well as taking on new clients with upgrades and product improvement programs. Design support services related to manufacturing/machine design, modernization, researched product quality improvements and inclusion of client/user feedback are routinely implemented as a result of these analyses and design engineering services.