Pressure thermoforming has become the enclosure plastic production process of choice for many manufacturers of medical diagnostic, medical device, and kiosk applications. Plastic thermoformed parts provide superior solutions for enclosures when compared to injection molded, structural foam molded, or metal fabricated parts. Lower tooling costs, lightweight materials, large and complex part capability, and greater aesthetic design flexibility are just a few of the advantages of plastic thermoformed enclosures manufactured by Productive Plastics.

PET CT Scanner
Medical Diagnostic Industry Application

A prime example of the advantages of plastic thermoforming is demonstrated in an enclosure project in which Productive Plastics manufactures and assembles plastic thermoformed and pressure formed enclosure parts for a PET CT Scanner being produced by a major medical diagnostic equipment manufacturer. This project not only showcases thermoforming advantages, but also highlights the expertise, quality, and comprehensive manufacturing capabilities of Productive Plastics. The enclosure project was also awarded the two top honors at the 2011 Society of Plastics Engineers Thermoforming Parts Competition.

Whether you are designing a new application or converting from a higher cost process, Productive Plastics has the experience and expertise to enable your project's success.
**A Case Study**

Custom Plastic Thermoforming Enclosure Solutions for the Medical Diagnostic, Medical Device, and Kiosk Industry

**Project Details:**
- Comprised of 10 pressure-formed components, utilizing Kydex T (PVC/Acrylic)
- Part sizes as large as 8 feet in diameter
- Complex parts requiring tight tolerances, under-cut details, and hidden trim surfaces
- Value added/secondary assembly of sheet metal brackets, bonded components, and finishing
- CNC tooling, bonding, and assembly fixtures developed in house
- Detailed exterior finishing and painting (applied in house)

Overall, the plastic thermoforming enclosure solution met all of the OEM program requirements and the end result of this project proved hugely successful.

**Gantry Parts**

1. Rear Funnel
2. Top
3. Rear (Right)
4. Side (Right)
5. Rear (Left)
6. Tunnel
7. Side (Left)
8. Front Funnel
9. Front (Left)
10. Front (Right)

**Productive Plastics Manufacturing:**
- 55 years of Thermoforming, Design, & Tooling Expertise
- Lean Manufacturing Enterprise
- Large Part Capability
- ISO 9001:2008 Certified
- Value Added & Secondary Assembly Capabilities
- In House Painting & Finishing
- Distortion Printing