

CASE STUDY | Advanced Instruments Auto Plate



INDUSTRY
Medical Device

APPLICATION
Laboratory Testing

PROCESS
Injection Molding

BACKGROUND ON ADVANCED INSTRUMENTS

Advanced Instruments specializes in delivering high-precision analytical instruments and solutions for laboratories across biopharmaceutical, food and beverage, and clinical diagnostics industries. To maintain their commitment to cutting-edge tools, they developed enhancements to their spiral plating device.

The redesign of their spiral plating device focused on improving functionality, providing easy access to internal components, and achieving a more modern and sleek appearance, moving away from the metal housing of previous versions.

THERMOFAB'S SOLUTION

Advanced Instruments partnered with ThermoFab's design team to enhance product development, utilizing their expertise in CAD, DFMA (Design for Manufacturing and Assembly), color matching, and tooling.

ThermoFab identified that the initial design's numerous screws could lead to assembly and service issues, suggesting a new plastic enclosure design with fewer screws for easier access. They also recommended using a standard paint color to reduce costs while maintaining brand consistency.

THE RESULT

The collaboration between ThermoFab and Advanced Instruments led to the successful launch of the redesigned device at the American Society of Microbiology General Meeting, earning positive reviews.

Advanced Instruments values their partnership with ThermoFab, who transformed their vision into a sleek, modern product that seamlessly combines advanced technology with enhanced functionality and serviceability.

Secondary processes included: painting & fabrication

