

# Cleanroom for Medical Device Manufacturing

## Case Study

**Application:** 20,000 S.F. Cleanroom for Medical Device Manufacturing

**Products:** PM458 XTRA TALL Wall System

**Benefits Provided:**

- ✓ Capability to Achieve Cleanliness and Air Quality Standards
- ✓ Flexibility to Relocate
- ✓ Minimal Disruption and Speed of Construction



## The Situation

Our client manufactures a variety of medical devices and is one of the leading makers of endoscopic accessories for use in gastrointestinal medical procedures.



## The Challenge

The production of these instruments requires an ultra-clean environment so when the client was ready to construct the manufacturing area in a brand new facility, they were faced with two important challenges. First, they needed a high-quality, reliable cleanroom that would maintain critical environmental conditions. Second, they wanted the flexibility of a cleanroom that could be modified or expanded to meet changing needs.

## The Evaluation

The Vice President of Operations expected the company's continued growth to require him to expand his new manufacturing area in the near future. Based on this, he immediately ruled out the use of conventional construction in favor of a modular cleanroom system.

He contracted a turn-key cleanroom contractor to design and build a modular cleanroom that would give him both quality and flexibility. This cleanroom contractor turned to PortaFab for a solution.

## The Solution

A new 20,000 square foot cleanroom was installed using a modular PortaFab wall system. The cleanroom featured easy-to-clean wall panels with an extra-smooth finish that minimized particle build up. Low wall air returns were integrated to create the specific air flow pattern needed for the filtration system and overall the cleanroom met all of the objectives for performance, providing the controlled environment needed for the production of the medical devices.

## Pre-Engineered and Pre-Fabricated

In addition, installation was fast and easy as all components were pre-engineered and pre-fabricated by PortaFab. When the wall panels were delivered, they were ready for immediate assembly and integrated perfectly with the cleanroom ceiling, floor, and all mechanical components according to plan.

The flexibility provided by PortaFab's non-progressive, modular construction is exactly what was needed. "At the rate our business is growing, long-term flexibility is a major concern," says the company's Vice President of Operations, who expects continued growth to require expansion of the new cleanroom within its first year.

