

# MEDICAL INJECTION MOLDING FOR VACCINE COMPONENTS

## LOCATION

New York, USA

## INDUSTRY

Medical Devices

## APPLICATION

Medical Injection Molding

## DIMENSIONS

18,000 sq. ft.

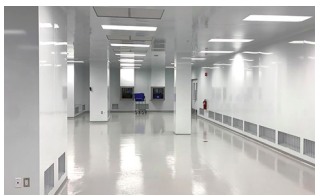
## CLEANROOM CLASS

ISO 7



This Rochester-based 18,000 sq. ft. cGMP-compliant cleanroom expansion project was built during the peak of the COVID pandemic. The Fortune 100 company manufactures plastic components for vaccine manufacturing.

**Project description:** The cleanroom is divided into 5 rooms, including a molding room, quality assurance (QA) lab, gowning room, and multiple material airlocks (MAL) and personnel airlocks (PAL). All rooms have elevated airflow to support GMP requirements for manufacturing medical devices.



The clean room is entirely independent from the existing facility, and is self-supportive with an entirely freestanding structure. No connections were made to the existing building's walls or ceilings.

*"Thermo Fisher Scientific would like to recognize MECART for outstanding team performance resulting in the flawless execution and early delivery of the first Matrix 2-Shot closure mold. Your efforts enabled our company to successfully expand the capacity of our Laboratory Plastics Essentials business and make a direct impact in the fight to end a global pandemic."*



## PROJECT SUMMARY

- ✓ Stand-alone and freestanding
- ✓ GMP cleanroom facility
- ✓ ISO 7 for the main room and ISO 8 for gowning room
- ✓ 5 rooms (molding room and QA lab)
- ✓ Wall of passthroughs – 14 ventilated units to facilitate product leaving the clean area

## A MOLDING ROOM FOR MEDICAL-GRADE PLASTIC COMPONENTS

Medical-grade plastic components are used in vaccine production. This client uses a dedicated molding room with 22 automated machines to inject plastic into different molds to supply a range of diverse laboratory plastic components.

The plastic pieces manufactured in the cleanroom facility will be used in the research and development of vaccines, manufacturing vaccines, and diagnostic testing kits for various infectious diseases.

