

## **FLEXIBLE CLEANROOM SOLUTION FOR THE INTEGRATION OF PRECEDING PROCESSES**

- 115 m<sup>2</sup> cleanroom area with one material pass-through and one personnel airlock
- Cleanroom class according to DIN ISO 14644-1 class 7
- Modular design to be able to react flexibly to changing processes
- Automated integration of preceding processes



POSSIBLE. COMPETENT. FLEXIBLE.

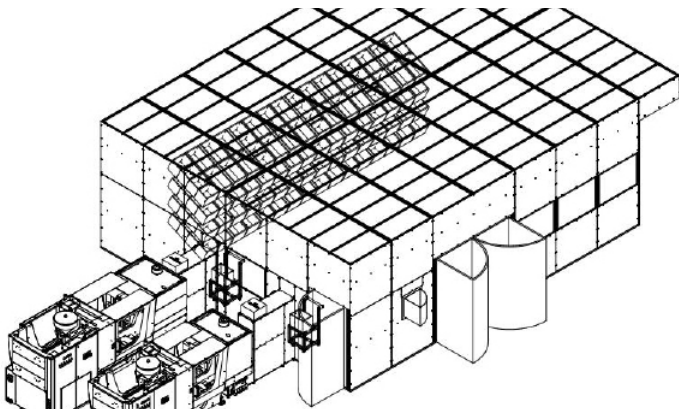
# FLEXIFLEXIBLE CLEANROOM SOLUTION FOR THE INTEGRATION OF PRECEDING PROCESSES



## CUSTOMER BENEFIT: MODULAR CLEANROOM CONCEPT FOR THE FLEXIBLE ADAPTATION OF THE ROOM TO CHANGING CONDITIONS

The automatic transfer of plastic parts for further processing in the cleanroom takes place directly after machine production in the plastic injection molding process via a special enclosure with integrated FFU and ionization. The plastic parts no longer have to be cleaned and transferred to the clean room before further processing steps.

The cleanroom can be adapted to changing requirements at any time thanks to its modular design. With little effort and low costs, wall modules and ceiling modules can be exchanged, removed or added so that the cleanroom size corresponds to the actual requirements.



## SIMPLE INTEGRATION OF PRECEDING PROCESSES THANKS TO MODULAR CLEANROOM SOLUTION

For use in medical technology, metering valves are to be manufactured in a cleanroom compatible manner. For this purpose, a room was required that integrates the preceding process into the cleanroom in a fully automated manner so that time-consuming cleaning is no longer necessary. In the preceding process, individual components for metering valves are manufactured. The individual components are then assembled in the cleanroom using an automatic assembly machine.

With the modular cleanroom elements, it was possible to create a 115 m<sup>2</sup> cleanroom with plenum. The flush modules can be easily cleaned according to the requirements of medical technology. The cleanroom has a material pass-through and a personnel airlock and achieved cleanroom class 7 according to DIN ISO 14644-1 in the initial qualification.

