



Reference project/application



Extraction solution for oil vapors and odors when cleaning leg prostheses



Situation/challenge

- Small amounts of solvents are used when cleaning leg prostheses during maintenance. The leg prostheses are filled with fresh hydraulic oil, which requires a vacuum. This releases oil vapors, which create an unpleasant odor and settle in the room as an oily film.
- The existing building exhaust air could not overcome the resistance of the booth due to insufficient extraction power, resulting in unpleasant odors and an increase in the concentration of solvents.
- The room is located in a large building, so a recirculation unit was required.



Solution

- Measurement of the resistance of the extraction wall in the cleaning booth and design of a suitable filtration unit with activated carbon. Installation as an effective additional extraction system.
- Direct air pollutant capture using suction arms to ensure flexibility for different sized prostheses.
- Ideally suited oil mist separator AOD 200 Ex for recirculation operation, which was placed under the table due to limited space.



User benefits

- The room was rated by the safety officer as very good in terms of direct pollutant capture.
- Employees no longer complain of headaches.
- The unpleasant odor has been eliminated and the cleanliness requirements for the room can be met permanently and without constant cleaning, as no more oil film is deposited.

