



Reference project/application



Extraction solution for fine particles during finishing in watch manufacturing



Situation/challenge

- At manual workstations, very fine dust containing Cr-Ni is released during assembly and finishing (fine grinding) of components
- During processing, the distance between the emission source and the employee's breathing area is very small (approx. 20-30 cm). The component is held in the hand during processing. Capturing element must not disturb
- Very quiet working environment -> low noise emissions from the filter device are important



Solution

- Pollutant capture designed as a "table suction" (drilling through table top with grid cover at the top and Alsident flange at the bottom)
- Additional acrylic disc placed between operator and processing
- Two table suction systems are each powered by an ASD 200 extraction unit
- Connection from capturing point to extraction device using suction hose DN 50



User benefits

- Effective particle detection without disturbing additional elements
- Reduced air pollution for the workers
- Improved product quality due to fewer "free" particles
- Cleaner work environment
- Low noise emissions from the filter device thanks to the exhaust air silencer (-> very quiet)

