Reference project/application

Extraction solution for laser stripping

Situation/challenge

- Laser smoke extraction over a workpiece support that is located on a rotary table
- Decoating of workpieces made of AlMn1Cu – paint and grease are usually removed, as well as small amounts of metal
- Diameter of the rotary table approx. 2,800 mm, working area is approx. 1,500 x 800 mm
- It is not possible to position the capturing elements close to the emission source

Solution

- A funnel hood located on the robot arm is intended to capture the majority of the emissions
- Smoke that is not captured due to an unfavorable position of the arm should be extracted through a permanently installed two-part hood above the rotary table
- Two air vent openings were installed below the workpiece support
- Utilization of an LAS 2000 extraction system with filter aid metering for optimal particle separation
- The exhaust air is led outside via the roof (total length approx. 10 m

User benefits

- Extraction of a larger cabin size leads to shorter cycle times
- Flexible extraction solution enables a variety of positions of the laser head (e.g. processing workpieces on the head side)