



Reference project/application



Filtration of fume and dust during laser welding



Situation/challenge

- Laser welding of three PA6-based components with a 15% glass fiber content
- Existing extraction system with poor performance. The work cell's ventilation was constantly clogged, and the extraction performance of the filter unit was reduced. This resulted in increased reject rates and workers inhaling dust.



Solution

- Analysis of the installation conditions with evaluation of the piping layout and pressure loss calculation
- LAS 500 HD.60 extraction system with additional dosing installed
- Higher pressure and larger flow rate ensure optimal capture
- Additional dosing results in significantly longer filter service life with optimal air throughput



User benefits

- Cleaner workplace
- Better welding quality with fewer rejects
- Effective protection of workers from inhaling harmful substances

