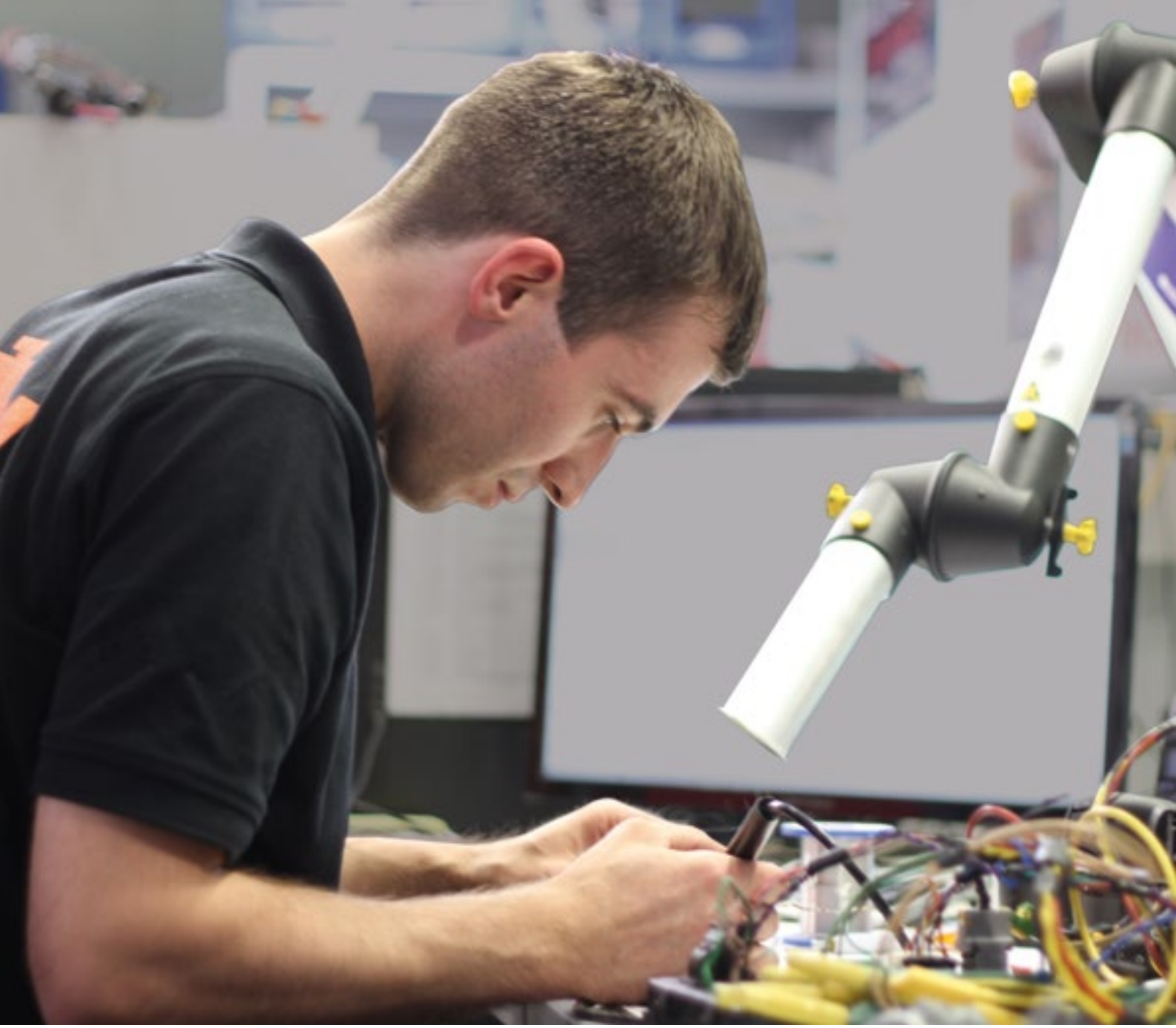

Effective Capturing of Air Pollutants

Extraction. Filtration. Persistence.

ULT
UMWELT - LUFTTECHNIK

It all starts with best possible capturing.

When dealing with air pollutant extraction, one first thinks of filtration systems. Equally important is what has come before: the capturing solution. The characteristics of the capturing element and air duct crucially determine the entire extraction technology's effectiveness.

Particularly in the case when the finest of dusts are released – e.g. during laser material processing or additive manufacturing – pollutant capturing is highly important because every particle needs to be collected. Additionally, environmental conditions such adhesion, air flow or tool motion influence the selection of the most suitable capturing element.

Proximity to the pollutant source is decisive for:

- Degree of collection
- Suction capacity / system efficiency
- Investment and operating costs

Other important factors: capturing element characteristics

- Shape / type
- Size
- Material
- Position

As well as: air duct characteristics

- Length
- Diameter
- Material
- Surface texture

Capturing solutions from ULT.
An overview.

Standard capturing elements

ULT AG provides standardized capturing solutions with nominal diameters between 50 and 200 mm. Depending on the application, they are chosen from the wide product ranges of the systems Alsident or Flextractor. In addition to the open capturing elements shown below, half closed work cabinets can be provided.

Universal collection element; combines the benefits of round and flat top hoods for various pollutant sources.

Typical applications: welding, soldering, cleaning, grinding

Suction funnel

For heavier than air vapors; flat, side positioning to the pollutant source – uses the Coandă effect

Typical applications: bonding, cleaning

Suction nozzle

For small, selective pollutant sources

Typical applications: soldering, laser material processing

Suction pen

For capturing above the pollutant source

Typical applications: soldering, bonding, laser material processing

Flat top hood

In the event of explosive release of pollutant clouds or other impulsive pollutant generation

Typical applications: soldering, micro welding, spot welding, laboratory applications

Round top hood

Individual capturing solutions

If the best-possible collection solution cannot be configured from the standard portfolio, ULT develops specially designed or integrated capturing variants.

Table extraction

An integrated capturing solution for gas and vapor extraction was developed for an ESD worktable.

Backdraft panel

For laboratory applications, e.g. weighing of fine powders, a special particle collection solution was developed. It is a work cabinet with extraction integrated into the back panel.

Barrel suction

For the extraction of rising dusts during the filling of containers / barrels. Capturing was implemented via a tubular die that encloses the vessel opening.

The entire extraction technology. What ULT offers to its customers.

ULT provides extraction and filtration technology always in connection with the ideal capturing solution. Users benefit from a structured procedure.

1

Request

You describe your pollutant situation and level.

2

Analysis

ULT evaluates and determines the extraction task – if necessary on-site.

3

System selection

ULT configures the ideal combination of capturing solution and extraction unit.

Installation

ULT sets up the technology and puts it into operation.

4

5

Service

ULT regularly maintains your extraction technology and advises in terms of technical progress.

Checklist extraction situation

- Type of contaminants
- Pollutant concentration
- Contaminant characteristics
- Pollutant source geometry
- Mobility
- Effect of drafts
- Maximum proximity to the pollutant source
- Level of automation
- Number of workstations

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Pursuing technical information can be found on specific data sheets or on our website. All data are general and not binding and do not guarantee the suitability of a product for a specific application.

www.ult.de/en

ULT on YouTube

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Detailed information on the capturing of air pollutants can be found in expert literature from the German Engineering Federation VDMA. ULT AG significantly contributed to that compilation.

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