

Take a deep breath

Extraction hoods

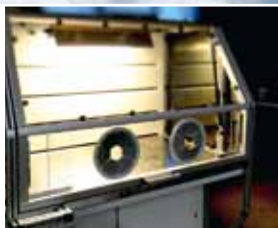


Extraction booths



Laser protection booths

Spark quenching module



Hybrid

Special systems –
Customised solutions for extraction
and filtering equipment

FUCHS
Umwelttechnik
clean air solutions



Individual extraction and filtering systems?

Can we design and build them? Yes we can!



Extraction booth
with special suction
table and enclosure
– flow technology
behind glass

**Cleaning and
extraction booth**
with integrated
suction table, two
access openings
and integrated air
supply openings

for optimum collection of extracted
dusts. Height adjustable, mobile unit with
ex-protected lighting. Fully integrated
extraction and filtering unit in the bottom
section with continuous control of the
extraction power and electronic monitor-
ing of the whole booth.



Special systems
– the tailor-made
solution

**Long years of know-how and
highest quality demands –**

that is the secret behind Fuchs
Umwelttechnik's development,
design and construction of custo-
mised extraction and filtering units.
You get a tailor-made system
based on the latest technical
standards which meets your
requirements exactly and
effectively.

New laboratory
and analysis department

*The latest measuring equipment keeps
the existing Fuchs Umwelttechnik
laboratory up with the state of the art.*

*Exact analysis of dusts and emissions
enables precision design of the ex-
traction and filtering systems
for critical applications.*

Spark quenching module

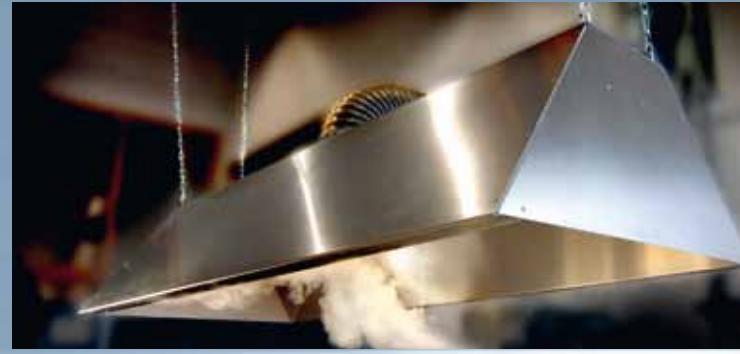
– stop the sparks
from flying

Sparks caused by
various processes can
get into the extraction
and filtering unit when
extracting micro-parti-
cles. This could damage or destroy the installed filter elements.

To reliably prevent this, Fuchs Umwelttechnik has developed a com-
pletely new and patented spark quenching module which is simply
connected in front of the extraction and filtering unit.

This can be used on all Fuchs Umwelttechnik extractors and can be
retrofitted to other makes.





Flow-optimised extraction hoods – there they go, the fine dusts, fumes and gaseous pollutants

Whether pinpointed or central, widely or in the extraction booth – the optimised extraction of pollutants is an important factor in the protection of the air that you breathe.

The knowledge of aerodynamic processes and flow optimisation in conjunction with our long years of engineering experience in extraction and filtering technology form the basis for the development of perfect extraction systems. The ideal extraction system can only be achieved by perfect adaptation of the extraction nozzle, extraction unit and power - especially customised to solve your pollution problem.

From planning right through to production – every single detail is important for Fuchs Umwelttechnik. All the components are perfectly adapted to each other to effectively collect and filter all pollutants. But the handling stays simple and intuitive - without disturbing the operating process.

Highest demands – in the design, top class materials, complete in-house production and comprehensive service – you get engineering performance and quality workmanship "Made in Germany".

Pre-separator and filter system – to separate the rough from the smooth

Do you have **emissions with different particle sizes**? From coarse parts to fine dusts? Larger or sharp-edged chips which are also a danger to the filters can

be extracted, for example, for work in the automotive and motor sport field.



For these problematical cases, Fuchs Umwelttechnik developed the combination of pre-separator system and downstream filter system. Large parts which were accidentally or believed lost are now caught already by the pre-separation module and are visible all the time thanks to its transparency. Finer material such as dusts or gases flow on unobstructed into the downstream filter system.

The handling of the unit is as simple as ever. The pre-separation module can also be retrofitted to existing MKF and TKD type extraction and filtering units from Fuchs Umwelttechnik at any time.

Laser protection booths – keep the radiation in

As an innovative mechanical engineering system partner in the field of laser machining systems, Fuchs Umwelttechnik develops modular laser protection booths.

By total encapsulation, these booths shield completely against useful radiation and secondary radiation as well as reflected or scattered radiation which occur in laser machining processes. Thanks to the sophisticated modular design, all customer requirements can be implemented efficiently at short notice at any time.





HYBRID

– one for all

HYBRID 2000 und 5000 – depth and surface filtration in one extraction unit in connection with optimised flow – that is what innovative technology from Fuchs Umwelttechnik is all about.

On *one side of the unit* high dust volumes can be separated effectively by automatic cleaning at filter cartridges and fed to a disposal system.

On *the other side of the unit* fine dusts, oily and gaseous air emissions can be adsorbed from separate processes at interchangeable filter media.

Every single extraction nozzle can be controlled and adapted to the respective process.



Dust collection device

– the dust stays where it belongs

The **dust collection device** was designed by Fuchs Umwelttechnik for reliable, low-contamination dust separation. A sturdy

frame made of powder-coated sheet steel, one-hand locking flap and flexible foil tube make this device an indispensable addition to the pre-separation units to keep production processes clean. The cleaning effort can be minimised and workers do not come into contact with dust particles.

