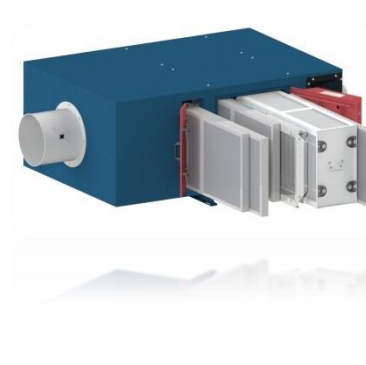
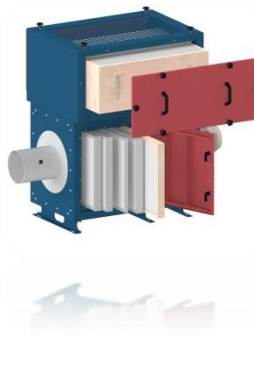
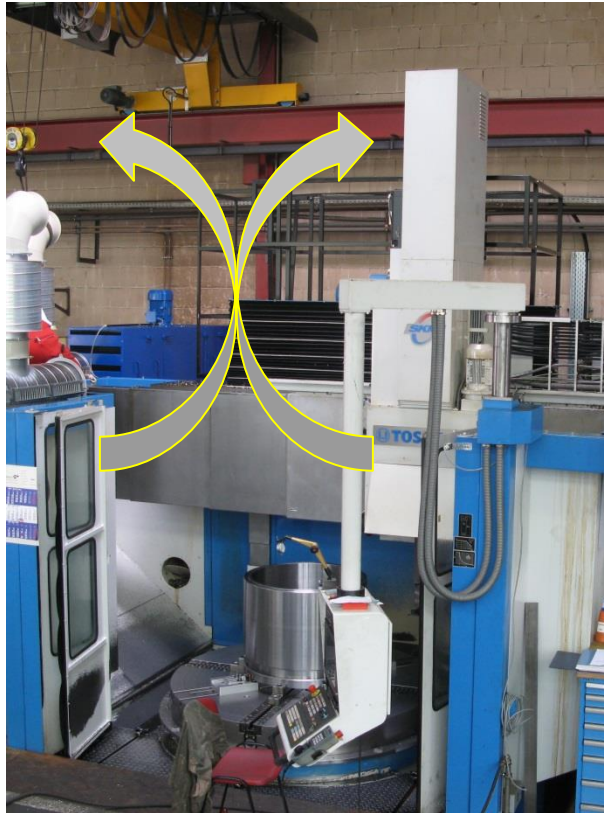


Our solution for complex extraction tasks: ILT Air Barrier Technology



The challenge: Prevention of emissions from machines which cannot or shall not be completely enclosed



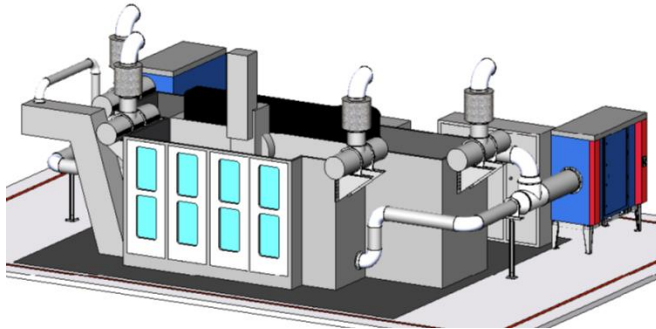
Example: Toshulin flat plate turning center

Problem: Spreading of emissions (emulsion mist) via the working area not closed on top

Challenge:

- Maintaining highest flexibility in order to load heavy workpieces into the machine by crane
- Moving turning/milling-head as obstacle contour
- Full enclosures too costly and maintenance-intensive
- Increase in machine availability required

The solution: Air Barrier Technology by ILT with optimally harmonized suction performance and performance-related control



Technology:

- After flow analysis, determination of extraction points inside the machine and location of ventilators
- Creation of a defined air barrier above the enclosures by laminar ventilators
- Extraction of confined emissions with calculated suction performance directly at the emission source (flat plate) and at other spots inside the machine
- Installation of ILT filtration units UNIFIL® 1MV100 with separation performance 99.997% for particles $>0.3\mu$ (99.95% in MPPS)



Goals achieved: Sustainable reduction of airborne contamination inside the workshop and increase in productivity

- ✓ No emission-related restrictions in shift operation; trouble-free **operation in three shifts** possible again
- ✓ Reduction of pollution around the machine to 1.5 to 1 mg/m³; easy **compliance with audits and standards**
- ✓ Maintaining **loading flexibility** as no complicated additional enclosures have to be installed
- ✓ Considerably **lower investment** than standard usual machine enclosures

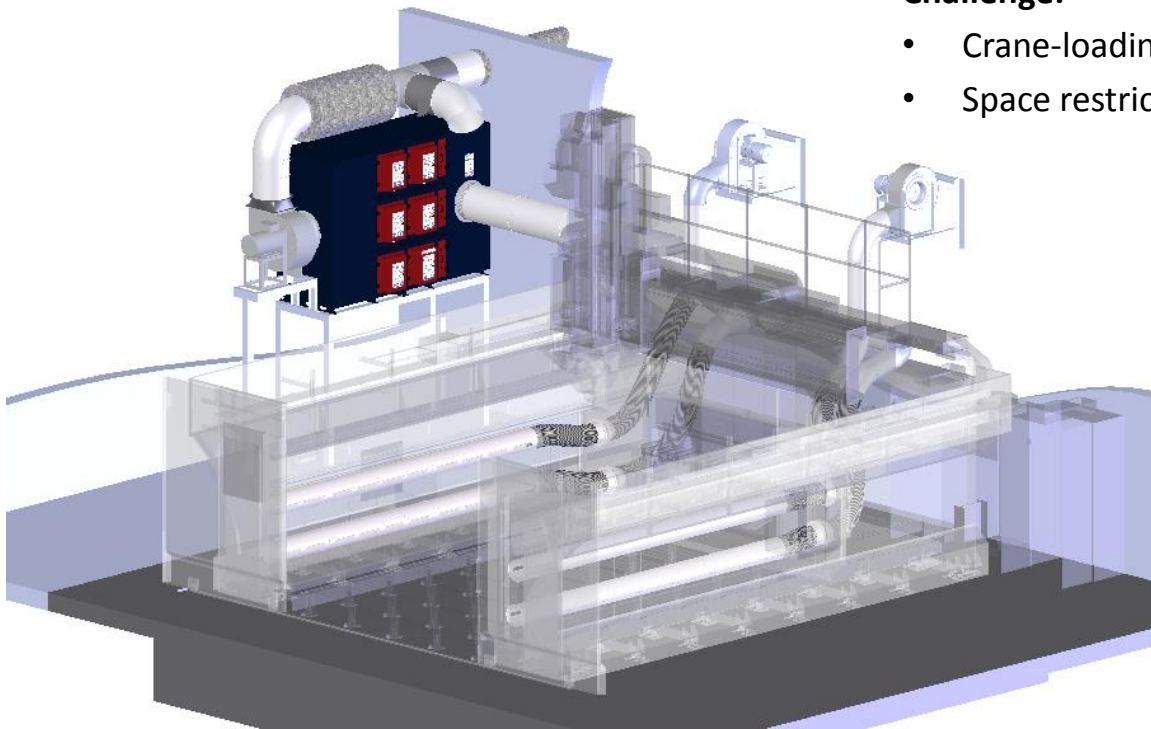


Benefit from our know-how not only in the metalworking industry: our unique and flow-optimized air barrier technology saves you costs

Example: Open milling machine with oil cooling

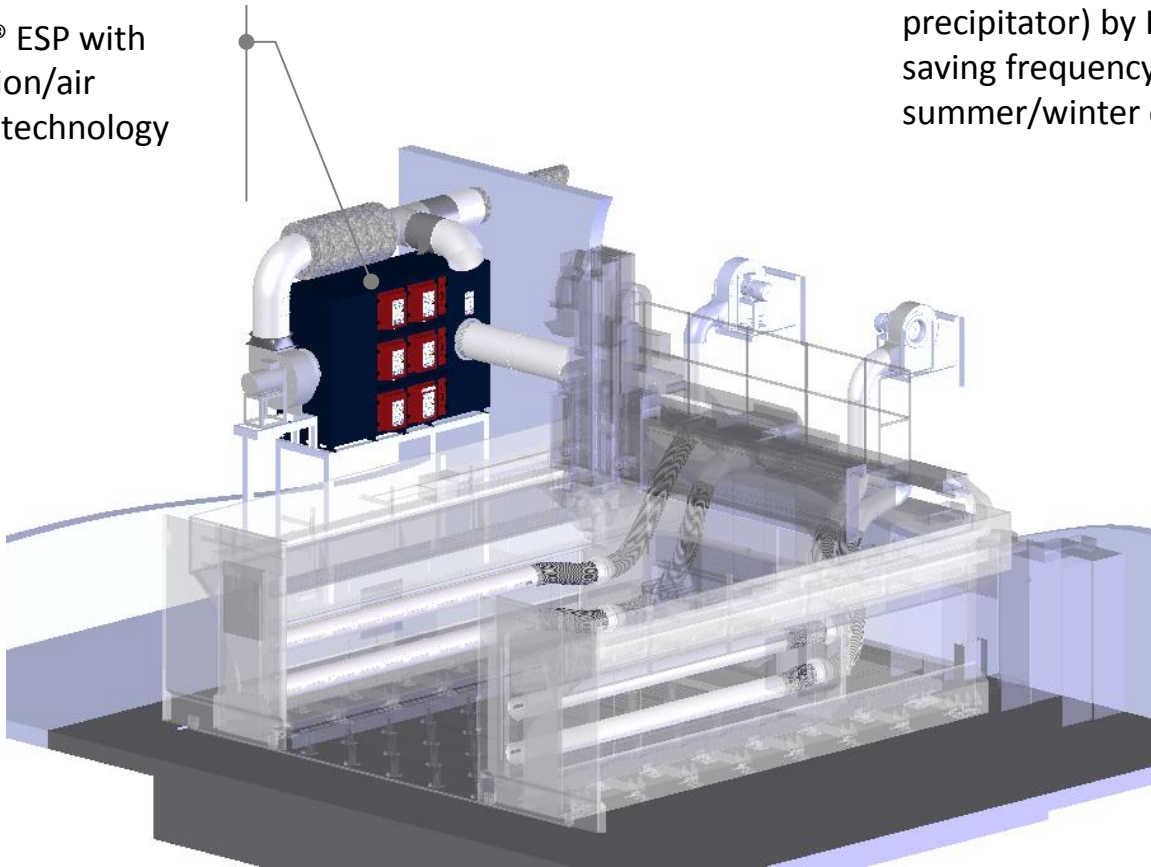
Challenge:

- Crane-loading, 24/7-operation
- Space restrictions, no enclosures possible



Benefit from our know-how not only in the metalworking industry: our unique and flow-optimized air barrier technology saves you costs

ELOFIL® ESP with extraction/air barrier technology

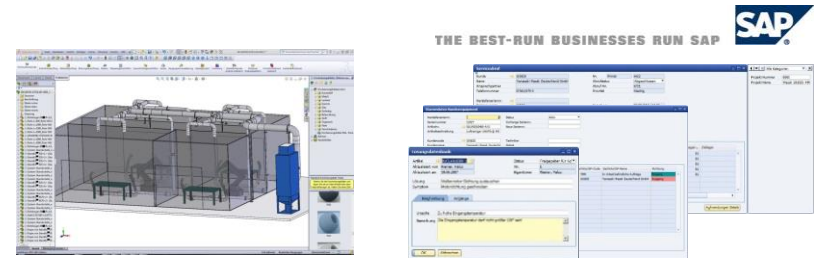


Solution: ELOFIL® ESP (electrostatic precipitator) by ILT with intelligent, cost-saving frequency control and optional summer/winter operation

- ✓ Filtration of oil mist comparable to **separation efficiency E12** (99,5% in MPPS 0,1-0,3 µm) – effective prevention of emissions
- ✓ **Savings in heating/climate costs** through recirculation of cleaned air in winter and blowing out in summer
- ✓ Trouble-free and **low-emission multiple shift operation** without limitations

We are your solution provider for sustainable air pollution control in your workshop

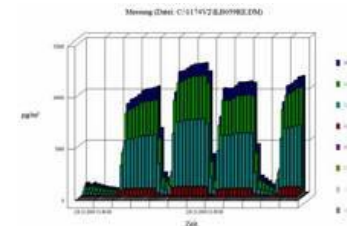
Engineering and construction by end-to-end CAE-methods, use of SAP service modules (seamless logging of machine and service history)



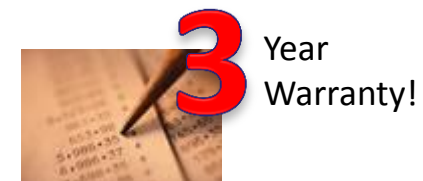
Own construction and assembly facilities – everything Made in Germany; own assembly and maintenance teams (no subs), available world-wide



Own analysis and auditing services; comprehensive plant commissioning services according to DGUV 109-002 (BGR 121)



Comprehensive project management knowledge, 3-year-warranty, high security standards (Automotive NDAs); comprehensive insurance coverage



We are looking forward to hearing from you!



**Choose the Original
Choose Success!**

ILT Industrie-Luftfiltertechnik GmbH

PO Box 1130

53809 Ruppichteroth, Germany

Phone: +49 2295/921-0

Fax: +49 2295/6620

www.ilt.eu info@ilt.eu

This document is for general information only and is provided without warranty of any kind, either express or implied. Rights to changes without notice reserved. In presentations, the spoken word supplements the slides. Information in this document is proprietary to ILT GmbH. Information about products may refer to products in standard design. Depending on the application deviations in design and function due to the application, (local) requirements and regulations, etc. may be possible. Photos and sketches included here are not binding for a technical order and may contain special accessories/equipment. This document is not an offer; information contained herein is not binding and does not imply warranties of merchantability, fitness for a particular purpose, or non-infringement. ILT GmbH shall have no liability for damages of any kind including without limitation direct, special, indirect, or consequential damages that may result from the use of this document. This limitation shall not apply in cases of intent or gross negligence. The statutory liability for personal injury and defective products is not affected. The ILT-Logo and the following trademarks are registered trademarks of ILT GmbH in Germany and many other countries: ELOFIL, UNIFIL, KOMBIFIL, CLAROFIL, ROTAFIL, MOBIFIL, LUBRIFIL, PORTAFIL, STAFIL, ILT Industrie-Luftfiltertechnik, ILT, FILcommand, FILconcept, FILpatrol. This list is updated from time to time. Failure by ILT to list a particular ILT trademark or offering name is not a waiver of any rights reserved by that trademark. All other product and service names mentioned and associated logos displayed are the trademarks of their respective companies or entities. Unauthorized copying, reproduction, translation and or transformation into electronic media is expressly forbidden and subject to compensation. © ILT GmbH, Ruppichteroth, Germany.

