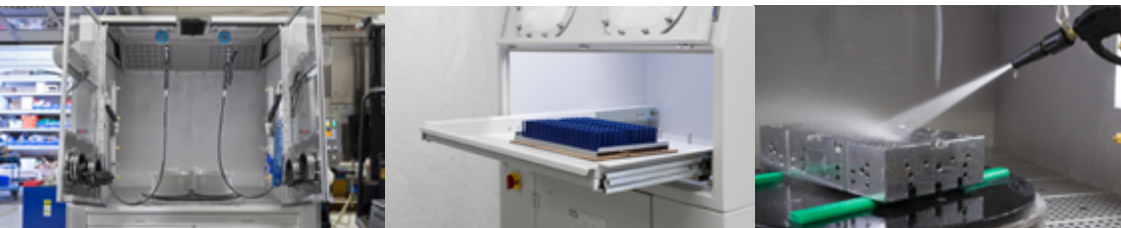


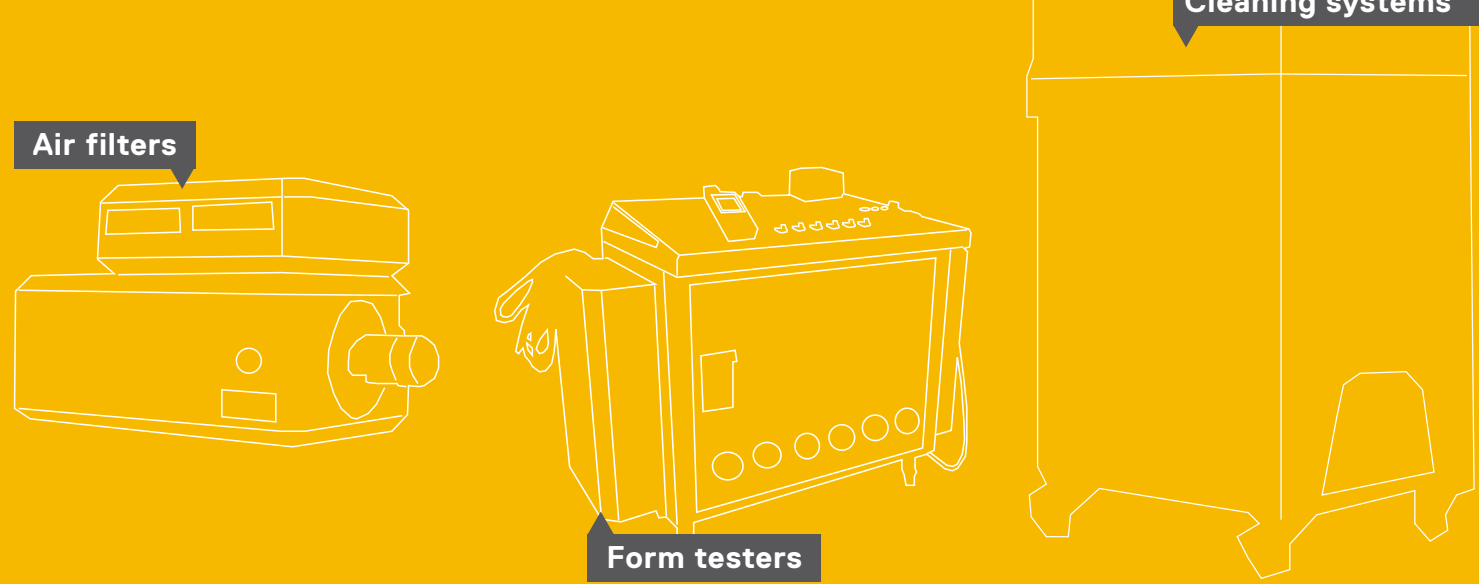
Krumm-tec Cleaning Solutions for industrial applications

Cleaning, Filtering, Testing



CUSTOMIZED CLEANING SOLUTIONS

Cleaning solutions for industrial applications
For prototypes, cooling channels or even lab rooms –
Krumm-tec specializes in various cleaning processes



1 CLEANING MEDIUM



LIQUID



SOLID



GASEOUS

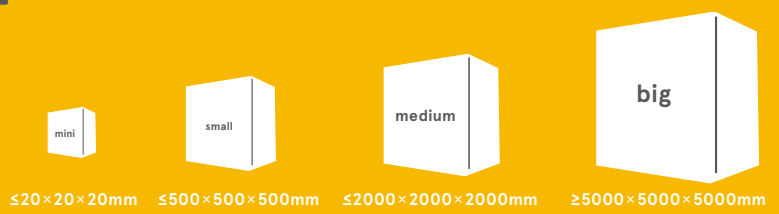
3 CLEANING PROCESSES

- | | | |
|----------------|------------------|-----------------|
| · PURGE | · DEDUST | · ULTRASONIC |
| · DEGREASE | · EXTRACTION | · CAUSTIC SODA |
| · BLAST | · COMPRESSED AIR | · STEAM |
| · ICE BLASTING | · DISINFECT | · HIGH PRESSURE |

2 PART

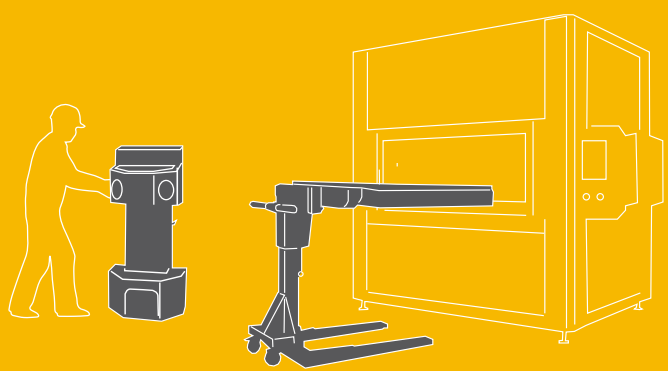
- Possible materials:**
- Electronic components
 - Prototypes (FDM, PolyJet, SLA,...)
 - Plastics
 - Air filters
 - Metal
 - and many more

4 WORK SPACE



5 OPERATION AND FEED

- Manual or automatic operation
- Feed via loader, crane or assembly line



CLEANING SYSTEMS

**Cleaning and surface treatment –
with fluid, solid or gaseous media**

Cleaning cabins – if required explosionproof.

Depending on the type and degree of soiling, we offer a variety of cleaning media and processes: water-based cleanser, alcohols, granules or dry ice – ultra sonic, high pressure, compressed air and many more. All Krumm-tec systems are available as explosionproof models.

Krumm-tec has been working with leading companies in the 3D-print, automotive and aerospace industries for the past years.



CleanMatic Series

- ✓ For aqueous solutions and solvents
- 30–80° degrees
- Blasting, oscillation, rotation and ultra sonic

DIMENSIONS

700×450×550 to 1900×1650×2400 mm

PART SIZE

280×335×280 to 1050×920×640 mm



Clean Matic 2150



Clean Matic 4150



Clean Matic 4150 Premium



Clean Matic 6150



Clean Matic 8150

CleanLine

MODULAR CLEANING SYSTEM

- Exhaust air fan system
- Targeted airflows
- Explosionproof
- Rinsing and basin systems
- Ultra sonic bath systems

Dimensions and part size
Customized



AIR FILTER SYSTEMS

Extraction and filtration of fine dust particles

Mechanical

Air filters LRF

Extraction and filtration of emulsions and fine dust particles

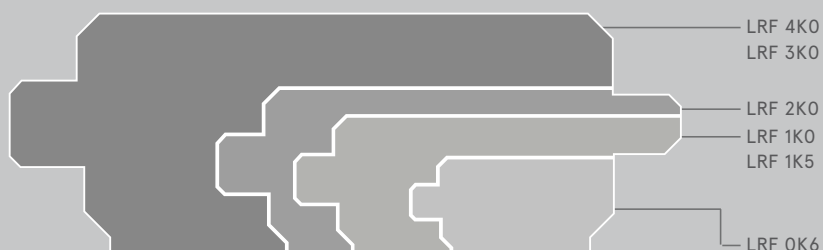


Our mechanical air filter systems can be used to extract and filter: fine dust particles, vapors and gases of cleaning solvents, emulsion mist, welding fumes and many more.

▽ FINE FILTRATION

⊞ RE-CIRCULATION

🔊 SILENT OPERATION



Electrostatic

Air filters LRF/E

Extraction and filtration of oil mists

Our electrostatic air filter systems can be used to separate aerosols out of media with an oil content of minimum 9% of non-flammable crude gas. Extraction and filtration of oil, emulsion and minimal lubrication mist.

🔄 CIRCULATION SYSTEM

🌊 EXTRACTION OF MACHINES

👉 COST-EFFECTIVE



MOULD TESTING UNITS

Cleaning of injection moulds

Form testers are used to clean and rinse injection moulds, as well as measure pressure and flow – all this up to six cooling channels simultaneously. For the different requirements, our form testers can be heated or cooled. The testers are equipped with a hydraulic control system to open and close the core pulls and various digital documentation and evaluation devices, such as a SD card or a notebook.



CLEANING

Clean, filter and rinse cooling channels



TEMPERATURE

Heating and cooling of the medium



HYDRAULICS

For opening and closing the core pulls



PRESSING

Leakage control



PH-VALUE

Monitoring the pH-value



FLOW RATE

Flow rate measurement



DOCUMENTATION

Documenting the flow rates on various data carriers



NOTEBOOK

Documenting the flow rate

FPG 1000

- 1 channel
- Cleaning pressure 2–4 bar
- Volume flow 18 l/min
- Tank capacity 30 l



FPG 2000

- 2 channels
- Cleaning pressure 2–4 bar
- Volume flow 18 l/min
- Tank capacity 60 l



FPG 3000

- 4 channels
- Cleaning pressure 2–4 bar
- Volume flow 18 l/min
- Tank capacity 80 l



FPG 4000

- 6 channels
- Cleaning pressure 2–4 bar
- Volume flow 18 l/min
- Tank capacity 100 l



Cleaning systems

CLEANING AND SURFACE TREATMENT

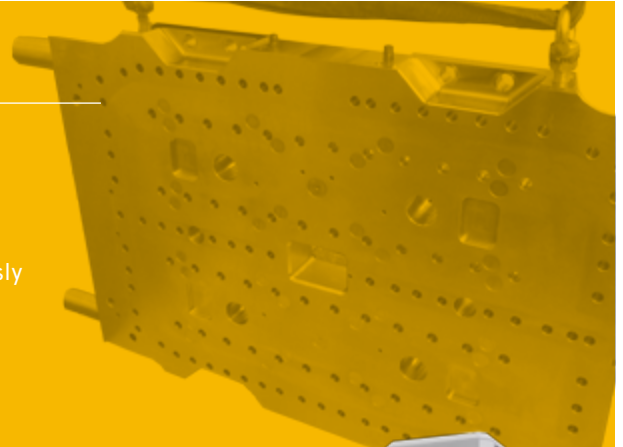
- Manual or automatic cleaning
- Suitable for plastics, metal, filters etc.
- Equipped with crane, rotary plate or basin
- Variety of media and processes
- Explosionproof if required



Mould testing units

CLEANING OF INJECTION MOULDS

- Cleaning of cooling channels
- Up to 6 channels simultaneously
- Pressure and flow metering
- Leakage checking
- Digital evaluation



Air filter systems

FILTRATION AND EXTRACTION OF DUST PARTICLES

- Filtration of particles
- Filtration of oil mists
- Re-circulation possible
- Self-cleaning effect



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Cleaning technologies

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