Working from its manufacturing headquarters in Germany, SCHWING designs, engineers, manufactures and markets the most advanced Thermal Cleaning Systems since 1969. Valuable experience resulting in industrial leadership and excellent processes with perfect results for the plastics and fiber industry.

For more than 25 years, the SCHWING Group has provided high quality contract cleaning services around the world.

Each year more than 250,000 parts are cleaned for hundreds of customers. SCHWING’s experience and know-how provides strong application support for its customers.

Depending on the specific requirements or applications, different Thermal Cleaning Systems are available to remove organic contamination.

The complete range of equipment can handle component weights of more than 5,000 kgs (e.g. a blown film die head) and part lengths up to 6 meters (e.g. nonwoven dies and extruder screws).

In order to obtain completely clean parts, specialized post treatment methods have been devised especially for complex parts like spinnerets, spin packs, filter discs and candles.

The cleaning results are always verified and documented by precise process control, strict quality procedures and inspection techniques.

SCHWING has the vast expertise and total experience for all procedures in thermal cleaning and post treatment. Rely on SCHWING’s professionalism for all of your sophisticated cleaning needs.

In addition to its Thermal Cleaning Systems, SCHWING offers optionally a variety of accessories and post treatment systems:

- Ultrasonic & rinsing units
- Chimney elements
- Thermal afterburning systems
- Shot blasting systems
- High pressure washers
- Quality inspection systems
- Loading baskets, tables and racks
Our Expertise - Your Benefits

### ADVANTAGES
- **Very short cleaning times**
- **Suitable for all polymers (incl. PVC, PTFE, PEEK)**
- **Highest flexibility**

Especially recommended for:
- Spinners, assembled spin packs
- Breaker plates
- Special profile dies
- Hot runners

### ADVANTAGES
- **For large parts and machine tools**
- **Applicable for large amount of polymers**
- **Suitable for most polymers**

Especially recommended for:
- Filter bundles
- Extruder screws
- Large extrusion and pelletizing dies
- Large hot runners

### ADVANTAGES
- **Low investment**
- **Suitable for most polymers**
- **Small footprint**

Especially recommended for:
- Non-return valves
- Breaker plates
- Small runners
- Needle valves, nozzles

### ADVANTAGES
- **Almost gentle cleaning of temperature sensitive parts and tools**
- **Only electricity and water required**
- **Catalytic converter for off-gas cleaning**

Especially recommended for:
- Spinners, melt-blown and spunbond dies
- Filter bundles, leaf disks
- Blown film die heads
- Extruder screws

### ADVANTAGES
- **Low investment**
- **Suitable for most polymers**
- **Small footprint**

### TYPICAL COMPONENTS
- **Injection moulding**
  - Screws
  - Nozzles
  - Static mixers
  - Needle valves
  - Non-return valves
  - Hot runners

- **Extrusion**
  - Screws
  - Screw elements
  - Breaker plates
  - Screen changers
  - Filter, filter plates
  - Profile dies
  - Blown film die heads

- **Fiber / Nonwoven**
  - Spin packs
  - Spinners
  - Spinning pumps
  - Spinning beams
  - Filter bundles, candles

### FOR ALL POLYMERS
- **Polyolefins: PE, HDPE, PP, PB, EVA, EVOH**
- **Polyesters: PET, PBT, PC, PTT, PEN**
- **Halogenated Polymers: PVC, PTFE, PVDF**
- **Polyacrylates: PAN, PBA, PMA, PMMA**
- **Polystyrenes: PS, ABS, SBS, SAN**
- **Polyamides: PA6, PA6.6, PA12, PPA**
- **Polyurethanes: PUR, TPU, Spandex**
- **Special Polymers: LCP, POM, BR, NBR**
- **Your specific polymer:**

### PERFECTLY CLEAN
- Removal of all polymers
- Free of all polymer & carbon residues
- No damage to parts and tools

### FLEXIBLE SOLUTIONS
- All thermal cleaning methods
- Systems for assembled, disassembled and complete parts and tools
- All sizes and geometries of parts

### INTELLIGENT & SAFE
- Easy and safe operation
- Intelligent control systems
- Automated process management

### ENVIRONMENTALLY FRIENDLY
- Integrated or separate off-gas cleaning
- No polluted water
- Minimized energy consumption

### SERVICE & SUPPORT
- Process consulting and planning
- Commissioning and training
- Technical support

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**VACUCLEAN** gently removes organic contamination from heat resistant metal parts by melt-off and thermal decomposition under vacuum.

**INNOVACLEAN** removes all organic contamination (including halogenated polymers) from heat resistant metal parts by thermal decomposition in a fluidized bed.

**MAXICLEAN** is a gas-heated thermal cleaning system. It removes organic contamination from large metal parts and tools by thermal oxidation.

**COMPACTCLEAN** is a small gas heated thermal cleaning system, which removes organic contamination by thermal oxidation. It can be integrated easily into a workshop.
**ADVANTAGES**
- Especially gentle cleaning of temperature sensitive parts and tools
- Only electricity and water required
- Catalytic converter for off-gas cleaning
- Especially recommended for: Spinnerets, assembled spin packs, Breaker plates, Filter bundles, Hot runners, Extruder screws

**TYPICAL COMPONENTS**
- Injection moulding
  - Screws
  - Nozzles
  - Static mixers
  - Needle valves
  - Non-return valves
  - Hot runners
- Extrusion
  - Screws
  - Screw elements
  - Breaker plates
  - Screen changers
  - Filter, fibre plates
  - Profile dies
  - Blown film die heads
- Fiber / Nonwovens
  - Spin packs
  - Spinnerets
  - Spinning pumps
  - Spinning beams
  - Filter bundles, candles
- FOR ALL POLYMERS
  - Polyolefins: PE, HDPE, PP, PB, EVA, EVOH
  - Polymides: P6, P6.6, P12, PPA
  - Halogenated Polymers: PVC, PTFE, PVDF
  - Polyacrylates: PAN, PBA, PMA, PMMA
  - Polystyrenes: PS, ABS, SB, SBS, SAN
  - Polyurethanes: PUR, TPA, TPO, TPU, Spandex
  - Special Polymers: LCP, POM, BR, NR
  - Your specific polymer...

**ENVIRONMENTALLY FRIENDLY**
- Integrated or separate off-gas cleaning
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**FLEXIBLE SOLUTIONS**
- All thermal cleaning methods
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**SCHWING TECHNOLOGIES**

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**VACUCLEAN** gently removes organic contamination from heat resistant metal parts by melt-off and thermal decomposition under vacuum.

**OURS EXPERTICE – YOUR BENEFITS**

**ADVANTAGES**
- Very short cleaning times
- Suitable for all polymers (incl. PVC, PTFE, PEEK)
- Highest flexibility
- Especially recommended for: Spinnerets, assembled spin packs, Breaker plates, Filter bundles, Hot runners

**ADVANTAGES**
- For large parts and machine tools
- Applicable for large amount of polymers
- Suitable for most polymers
- Especially recommended for: Filter bundles, Extruder screws, Large extrusion and pelletizing dies, Large hot runners

**ADVANTAGES**
- Low investment
- Suitable for most polymers
- Small footprint
- Especially recommended for: Non-return valves, Breaker plates, Small runners, Needle valves, nozzles

**ADVANTAGES**
- Fast & flexible
- Gentle & green
- All dimensions
- Small size

**Cleaning time: 8-30 h**
**Cleaning time: 1-4 h**
**Cleaning time: 4-8 h**
**Cleaning time: 3.5 h**
**ADVANTAGES**
- Especially gentle cleaning of temperature sensitive parts and tools
- Only electricity and water required
- Catalytic converter for off-gas cleaning

Especially recommended for:
- Spinners, melt-blown and spunbond dies
- Filter bundles, leaf disks
- Blown film die heads
- Extruder screws

**COMPACTCLEAN** is a small gas-heated thermal cleaning system, which removes organic contamination easily into a workshop.

**PERFECTLY CLEAN**
- Removal of all polymers
- Free of all polymer & carbon residues
- No damage to parts and tools

**FLEXIBLE SOLUTIONS**
- All thermal cleaning methods
- Systems for assembled, disassembled and complex parts and tools
- All sizes and geometries of parts

**ENVIRONMENTALLY FRIENDLY**
- Integrated or separate off-gas cleaning
- No polluted water
- Minimized energy consumption

**OUR EXPERTISE – YOUR BENEFITS**

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**COMPACTCLEAN**

**ADVANTAGES**
- Very short cleaning times
- Suitable for all polymers (incl. PVC, PTFE, PEKK)
- Highest flexibility

Especially recommended for:
- Spinners, assembled spin packs
- Breaker plates
- Special profile dies
- Hot runners

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**MAXICLEAN**

**ADVANTAGES**
- For large parts and machine tools
- Applicable for large amount of polymers
- Suitable for most polymers

Especially recommended for:
- Filter bundles
- Extruder screens
- Large extraction and pelletizing dies
- Large hot runners

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**INNOVACLEAN**

**ADVANTAGES**
- Low investment
- Suitable for most polymers
- Small footprint

Especially recommended for:
- Non-return valves
- Breaker plates
- Small runners
- Needle valves, nozzles

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**VACUCLEAN**

**ADVANTAGES**
- Especially gentle cleaning of temperature sensitive parts and tools
- Only electricity and water required
- Catalytic converter for off-gas cleaning

Especially recommended for:
- Spinners, melt-blown and spunbond dies
- Filter bundles, leaf disks
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**TYPICAL COMPONENTS**

- Injection moulding:
  - Screens
  - Nozzles
  - Static mixers
  - Needle valves
  - Non-return valves
  - Hot runners

- Extrusion:
  - Screens
  - Screw elements
  - Breaker plates
  - Screen changers
  - Filter, filter plates
  - Profile dies
  - Blown film die heads

- Fiber / Nonwovens:
  - Spin packs
  - Spinners
  - Spinning pumps
  - Spinning beams
  - Filter bundles, candles

**FOR ALL POLYMERS**

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- Your specific polymer: ...

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**SERVICE & SUPPORT**
- Process consulting and planning
- Commissioning and training
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**ENVIRONMENTALLY FRIENDLY**
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- Loading baskets, tables and racks

German Art of Engineering since 1969

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CLEANING SERVICES

Systems & Services for the Plastics, Fiber and Nonwovens Industries
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**CLEANING SERVICES**

**ACCESSORIES**

In addition to its Thermal Cleaning Systems, SCHWING offers optionally a variety of accessories and post treatment systems:

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- Loading baskets, tables and racks
- Bubble test units
- Quality inspection systems
- High pressure washers

**TECHNOLOGIES**

- THERMAL CLEANING OF METAL PARTS & TOOLS
- Systems & Services for the Plastics, Fiber and Nonwovens Industries
- Clean, safe & fast · German Art of Engineering since 1969

**CLEANING SERVICES**