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Press release

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SCHWING Technologies presents optimized cleaning process with switchable two-side sound on INDEX 20

Green Cleaning solutions for machine parts and tooling in the nonwovens industry

This fall, production processes for nonwovens are again the focus of the upcoming INDEX 20 exhibition in Geneva. From October 19th to 22nd, SCHWING Technologies (booth 4339) will focus on thermal cleaning solutions: the Company will present its optimized Green Cleaning solutions for removing polymer from large, contaminated components for nonwovens production. Up to six-meter-long components, such as melt-blown and spunbond dies as well as spinnerets, no longer need to be flipped – using double-sided, alternating Schwing ultrasonic units. The optimized process saves manpower, shortens cleaning times, reduces machine downtimes and thus increases the availability of plant components. The German specialist is the only company worldwide to offer complete solutions for the entire cleaning process of removing not only PET, PP and PE, but also other polymers.

New on INDEX 20: optimized cleaning process with switchable two-side sound

For the first time, Schwing is presenting its environmentally friendly cleaning shops with optimized post-treatment systems at this year's INDEX 20. "Until now, the ultrasonic process required two work steps", explains Managing Director Thomas Schwing: "Thanks to our new two-side sound, machine parts no longer have to be manually turned." Savings on personnel costs, rapid use of tooling and reduced machine downtime are the advantages, the expert knows. The process minimizes risk of damaging dies. At the exhibition, Thomas Schwing will also provide information about the Company's vacuum pyrolysis cleaning systems. The entire process, which takes about 8 to 12 hours, involves several cleaning steps, including thermal cleaning of components, subsequent high-pressure washing and ultrasonic cleaning. The drying phase is followed by a final inspection.

Cost-saving technology for environmentally friendly polymer removal

The fully automatic systems by the German specialist remove PET, PP and PE (as well as other polymers) and clean large dies and spin packs efficiently. Safe and material-friendly technology measures the precise temperature directly on the part and guarantees residue-free results – even inside mounted components or complex tooling. VACUCLEAN system consumes very little electrical energy and is equipped with a special catalyst to treat fumes, protecting the environment. Further advantages are, apart from the easy installation of the system, its low operating and maintenance costs. Production of technical nonwovens benefits from the increased operational availability and service life of properly cleaned tooling.

Further information: https://www.thermal-cleaning.com/en/applications-and-industries/non-wovens.html?gclid=CjwKCAjwmrn5BRB2EiwAZgL9ohSyd1T5vAzbAQd3_Q6y9QoVkETwruOD3dmgW2JqecD803XhX6rBehoCTwgQAvD_BwE

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About Schwing Technologies

Schwing Technologies has been operating for over 50 years and is the worldwide technological leader for high-temperature systems for thermal cleaning, thermo-chemical finishing and heat treatment of metal parts and tools. Managing directors are Ewald Schwing, Thomas Schwing and Alfred Schillert. The owner-managed company designs, manufactures, and operates systems at its headquarters in Neukirchen-Vluyn in Germany's Lower Rhine region. Built upon the achievements of German engineering, the medium-sized business is one of the world's best-known specialists in the removal of plastics. Among Schwing's approximately 3,000 international clients are companies from the plastics and fiber industries, as well as from the chemicals and automobile sectors. For every cleaning need, the company with its approximately 100 employees offers the most economically, ecologically and qualitatively best technology and cleaning solution. Schwing is also a reliable service partner for contract cleaning by processing more than 250,000 tools and parts each year to the highest environmental and qualitative standards. Founded in 1969, the company celebrates its 50th anniversary in 2019 and opened Schwing Technologies North America Inc., a new sales company in the USA, in that year.

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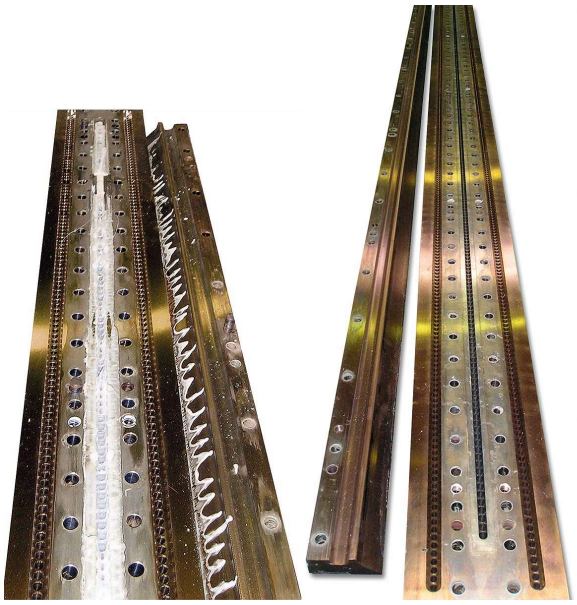
Photos



Melt-blown dies before and after cleaning: An optimized cleaning process with thermal pyrolysis, two side sound and further post-treatment removes polymer residues from machine parts in the nonwovens industry
Photo credit: SCHWING Technologies
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VACUCLEAN vacuum pyrolysis system from Schwing Technologies removes polymer residues from spin packs, spinnerets as well as melt-blown and spunbond dies with lengths of up to six meters by thermal vacuum cleaning
Photo credit: SCHWING Technologies
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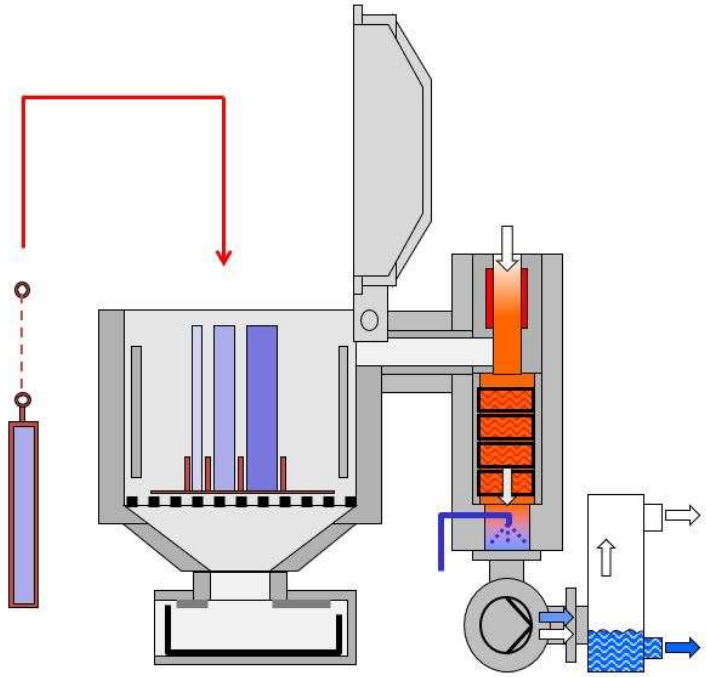

Functional principle of thermal vacuum pyrolysis: The cleaning process takes place in an electrically heated vacuum cleaning chamber. The temperature is measured directly at the machine parts, which are initially heated slowly and particularly gently. Here, a large part of the adhering polymer melts off and flows out. The decomposition of the remaining material takes place at approx. 450 degrees Celsius - remaining carbon is finally removed by adding air (oxidation)
Photo credit: SCHWING Technologies
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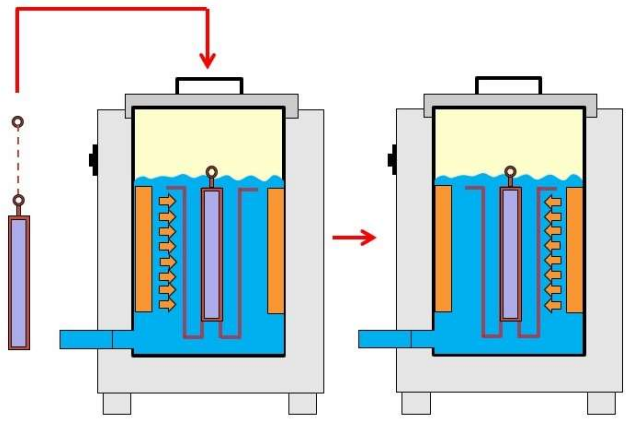

Functional principle of the optimized cleaning process with switchable two-side sound: Thanks to switchable two-side sound, machine parts no longer have to be rotated
Photo credit: SCHWING Technologies
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