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*Tradition is our strength
Innovation is our mission*

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HOTMELT

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Coating and laminating

Machines for technical textiles

CAVITEC®

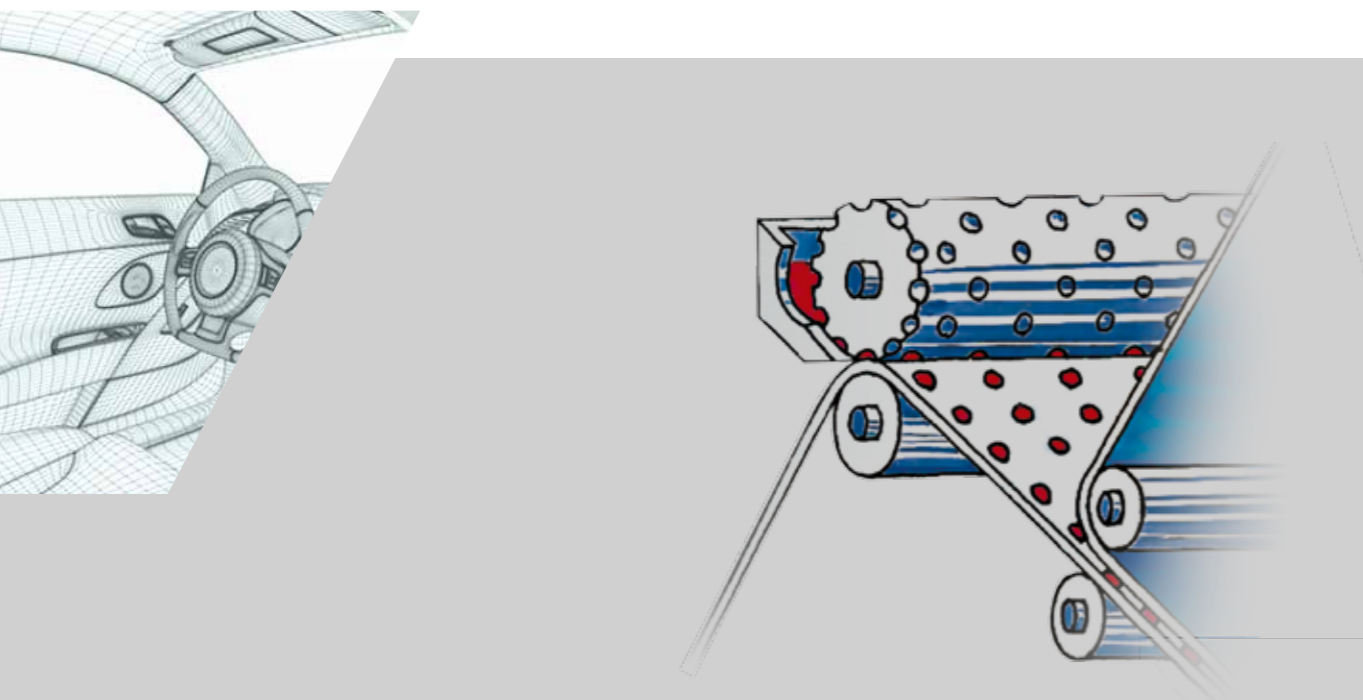
HOTMELT Coating and laminating

» Hotmelt adhesives commonly used in textile are one-component solvent-free thermoplastic polymers (non-reactive) or thermoset pre-polymers (reactive) heated to melting point prior to their application. » Hotmelt are applied onto a substrate material, e.g. woven, knits, nonwovens, foams, membranes, films, nets, silicon paper, etc. in hot plasticized state. » This process is called coating. » There are applications where material is only coated for changing the surface of the material, but more often the purpose is to bond or glue two layers of material together to bild a composite material, a laminate, hence, the bonding process is commonly called lamination.

» All plants are equipped with low tension web transport drives. » Tensions are measured with load cells and dancers. » Control system according to the setpoints. Several web guiding systems to ensure a proper alignment of the web layers for coating ad lamination. » Accumulators (J-box, roll and belt) ensure an on-going process with no stop during batch changes.

Optional auxiliary equipment

» Cleaning unit for the rollers, oil heater, water cooler



THERMOSET (DUROPLASTIC) HOTMELT ADHESIVES

One-component, moisture curing/ crosslinking reactive polyurethanes, with:

- Typical working temperatures 90 - 130°C
- Viscosity range 3'000 - 35'000 cps

Thermoset hotmelt adhesives are applied hot, in plasticized state, same as the thermo-plastic adhesives, but they are not cross-linked at the time of application. The adhesives cross-link with humidity over a time period of some hours to 2 days, depending on the polymers. Contrary to thermo-plastics, these adhesives are not plasticized again when they are re-heated. The process is not reversible.

Required auxiliary equipment

tank or drum melter



THERMOPLASTIC HOTMELT ADHESIVES

coPA, coPES, PSA, EVA, with:

- Typical working temperatures 150 - 230°C
- Viscosity range 3'000 - 150'000 cps

Thermoplastic hotmelt adhesives are in plasticized form whenever they are heated and solid when cooled. The process is fully repeatable and reversible. Under higher temperatures, the bonding strenght will be decreased. However, there are thermo-plastic hotmelt adhesives that can withstand temperatures above 200°C and they are well accepted in the industry.

Required auxiliary equipment

extruder or tankmelter

Fields of application

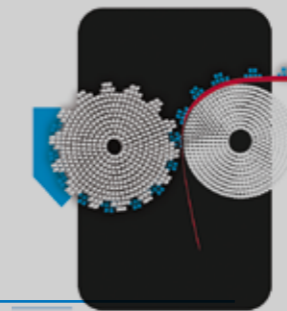
- active wear (outdoor)
- functional and protective clothing
- automotive interiors
- home textiles, upholstery, mattress ticking
- hygiene and medical products
- fusible interlinings
- technical composites

Any type of textile and non-textile webs can be laminated together, such as:

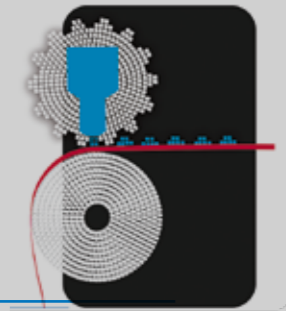
- woven fabrics
- knitted fabrics
- nonwovens
- membranes, films
- foams

Coating methods

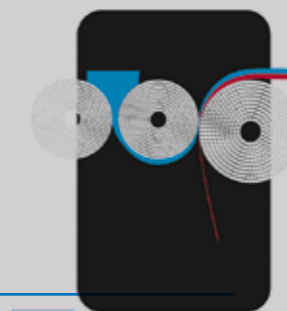
Rotogravure



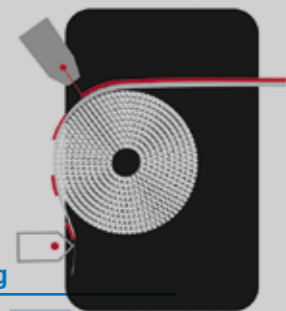
Rotary screen



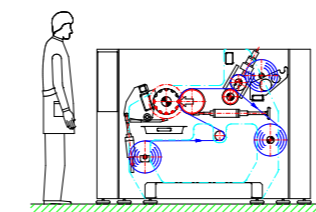
Multiroll



Slot die / spray coating



TSM – Test and sampling machine



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