

# SANITECH

SOLUTIONS



HOTMELT - 1600



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## SPECIAL PURPOSE MACHINERY MANUFACTURING

Since the day we were founded, we have been producing innovation-oriented, technological and efficient machines for our customers. We design the machines we produce in-house and attach great importance to R&D and product development activities.

## MECHANICAL SYSTEMS

We offer mechanical system solutions that meet the needs and expectations of our customers. We also design the machines we manufacture in-house and produce ergonomic machines that provide ease of use.

## HOTMELT SYSTEMS

We offer hotmelt system solutions for mass production, assembly applications and transportation needs required by our customers. While doing this, we do the industrial design in-house and benefit from all the possibilities of technology.

## SECTORS WE WORK IN;

- 🌀 Hygiene products
- 🌀 Technical textiles
- 🌀 Medical Text

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# HOTMELT - 1600



**Purpose of the Machine:** Our Hotmelt 1600 and 1600s machines are hotmelt lamination machines. By applying hotmelt PSA to one of two different materials, these materials are bonded to each other.

**Materials that can be laminated:** Nonwoven fabrics, PE and PP films and their different chemical versions can be laminated on this machine.

The fabric to be laminated must be minimum **14 gsm** and the film must be minimum **10 gsm**.

The maximum limits can be up to 300 microns depending on the thickness of the materials.

**Machine Sections:** This machine includes the following 7 sections.

- ⚙ Material 1 unwinder
- ⚙ Material 2 unwinder
- ⚙ Hotmelt Tank
- ⚙ Hotmelt Applicator
- ⚙ Hotmelt Hoses
- ⚙ Winder
- ⚙ Main Tracker

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# TECHNICAL SPECIFICATIONS

The technical specifications of the machine are as follows. These features may vary depending on the selected version.

Motors are used asynchronous or servo depending on the version difference.

**Gamak brand asynchronous motor is used in 1600 model lamination machine.**

- 1 unit 7,5 kw 1500 rpm asynchronous motor
- 1 unit 4 kw 1500 rpm asynchronous motor
- 1 unit 0,75 kw 900 rpm asynchronous motor

In our 1600s model laminating machine, servo motors of BECKHOFF, SCHNEIDER or SIEMENS brands are used, depending on preference.

- 1 unit 7,5 kw 3000 rpm servo motor
- 1 unit 4 kw 3000 rpm servo motor
- 2 0,75 adet kw asynchronous motor

**Pneumatic cylinders and valves are PEMAKS or MAG brand ISO15552 standard;**

- 2 unit 50x100 pneumatic cylinder
- 4 unit 50x 600 pneumatic cylinder
- 3 unit Mag 5:2 3/8 valve
- 10 unit Mag 3:2 1/4 valve

## Consumption and requirements for Homelt 1600;

**Total Electricity Consumption: 25 kw**

**Compressed Air Consumption: Min. 6 bar 180 lt/h**

**Machine Speed : max. 200 m/min**

**Hotmelt Consumption : 1-3,5 gsm**

**Hotmelt Application Width : 1600mm**

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## Consumption and requirements for Homelt 1600s;

Total power consumption: There is 25 kW installed

Air requirement and consumption

Operates with minimum 6 bar pressure

Compressed air consumption 180 liters/hour

**Machine Speed :max. 350 m/min.**

**Hotmelt Flow :1-4 gr/m<sup>2</sup>**

**Hotmelt Application width :1600 mm**

### AUTOMATION AND PANEL MANUFACTURING

Components for Control, power elements and automation system for the Hotmelt 1600 model

- ⚙️ 1 unit ABB ACS355 7,5 kw inverter
- ⚙️ 1 unit ABB ACS355 4 kw inverter
- ⚙️ 2 unit SCHNEIDER ATV12 inverter
- ⚙️ SCHNEIDER and OMRON brand are used for Motor Safety Equipments, Contactors and Relays
- ⚙️ OMRON ve ya LEUZE brands are used for sensors.
- ⚙️ PLC Delta brand.
- ⚙️ 10 inch HMI Delta brand.

Components for Control, power elements and automation system for the Hotmelt 1600S model

- ⚙️ 1 unit 7,5 kw servo driver(BEECKHOFF, SHNEIDER,SIEMENS)
- ⚙️ 1 unit 4 kw servo driver (BEECKHOFF, SHNEIDER ve ya SIEMENS)
- ⚙️ 2 unit SCHNEIDER ATV12 inverter
- ⚙️ Motor Safety Relays, Contanctors and Relays SCHNEIDER and OMRON
- ⚙️ Sensors OMRON and LEUZE.
- ⚙️ PLC or Panel PC (BEECKHOFF, SHNEIDER and SIEMENS)
- ⚙️ HMI (BEECKHOFF, SHNEIDER and SIEMENS)

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# Material-1 and Material-2 Unwinding System



- ⚙️ Automatic and manual edge control system with fork sensor control.
- ⚙️ Tension system that follows the situation according to the coil size.
- ⚙️ Maximum coil diameter that can be installed is 105 cm.
- ⚙️ Maximum coil weight that can be installed is 500 kg.
- ⚙️ High precision magnetic brake system.
- ⚙️ Coil Loader system for reducing the changing time.

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# CUTTING SIZING MACHINE



**Purpose of the Machine:** To cut the fabrics in rolls and bundle them into sheets.

The machine consists of three parts

- ⚙️ STACKING
- ⚙️ CUTTING
- ⚙️ UNWINDING

**Stacking:** In this section, the fabric to be blown is taken from the cutting section with the pneumatic gripper, all the bundles are stacked on top of each other to be moved to the desired length.

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**Cutting:** In this section, at least 8 layers are cut with a servo motor controlled industrial razor, each one up to 60 gsm fabric is cut.

**Unwinder:** 8 fabric bobbins, each weighing up to 500 KG, are installed in this section.

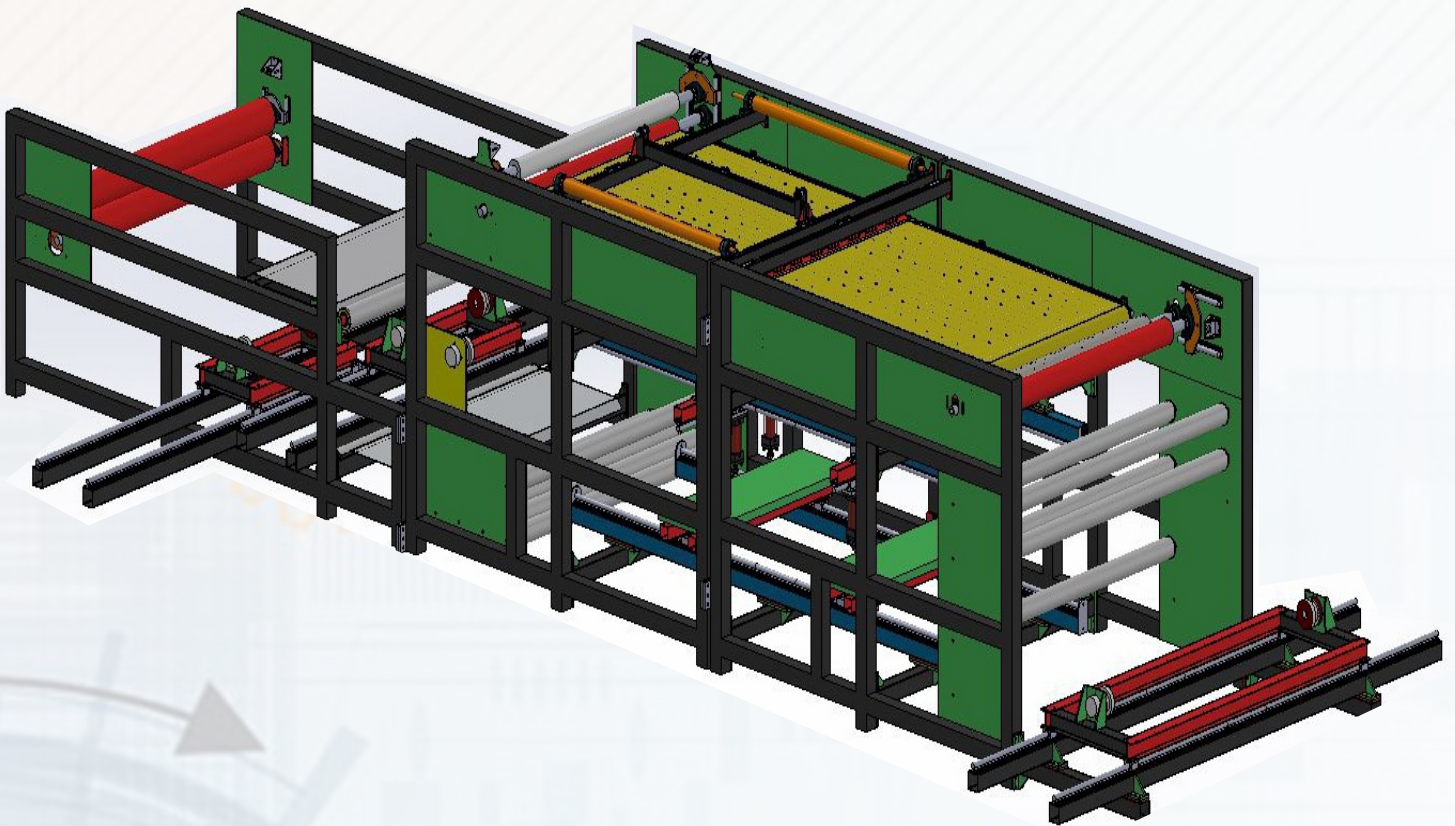
The coil insertion and removal operations are carried out with air shafts. Each coil has its own tension. This tension control system includes pneumatic or electromagnetic braking systems.

#### Technical Specifications;

- ⚙️ PLC (SIMENS-DELTA-BECKHOFF)
- ⚙️ HMI (SIMENS-DELTA-BECKHOFF)
- ⚙️ SERVO Systems (SIMENS-DELTA-BECKHOFF)

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# ANGIOGRAPHY DRAPE MACHINE



**Purpose of the Machine :** To provide mass production by adhering panels and extra reinforcements to the drapes used in angiography operations according to the desired features

**Machine Includes Six Sections;**

- UNWINDING
- REINFORCEMENT
- HOLE CUTTING
- FILM ADHERING
- CUTTING
- STAKING

**Unwinder:** There are four unwinders on the machine in total. Each unwinder has its own edge control and tensions system. Each unwinder has an average lifting capacity 500 kg.

**Reinforcement:** The fabric to be used as reinforcement is first glued, then cut, and then glued to the main fabric with the help of vacuum conveyors.

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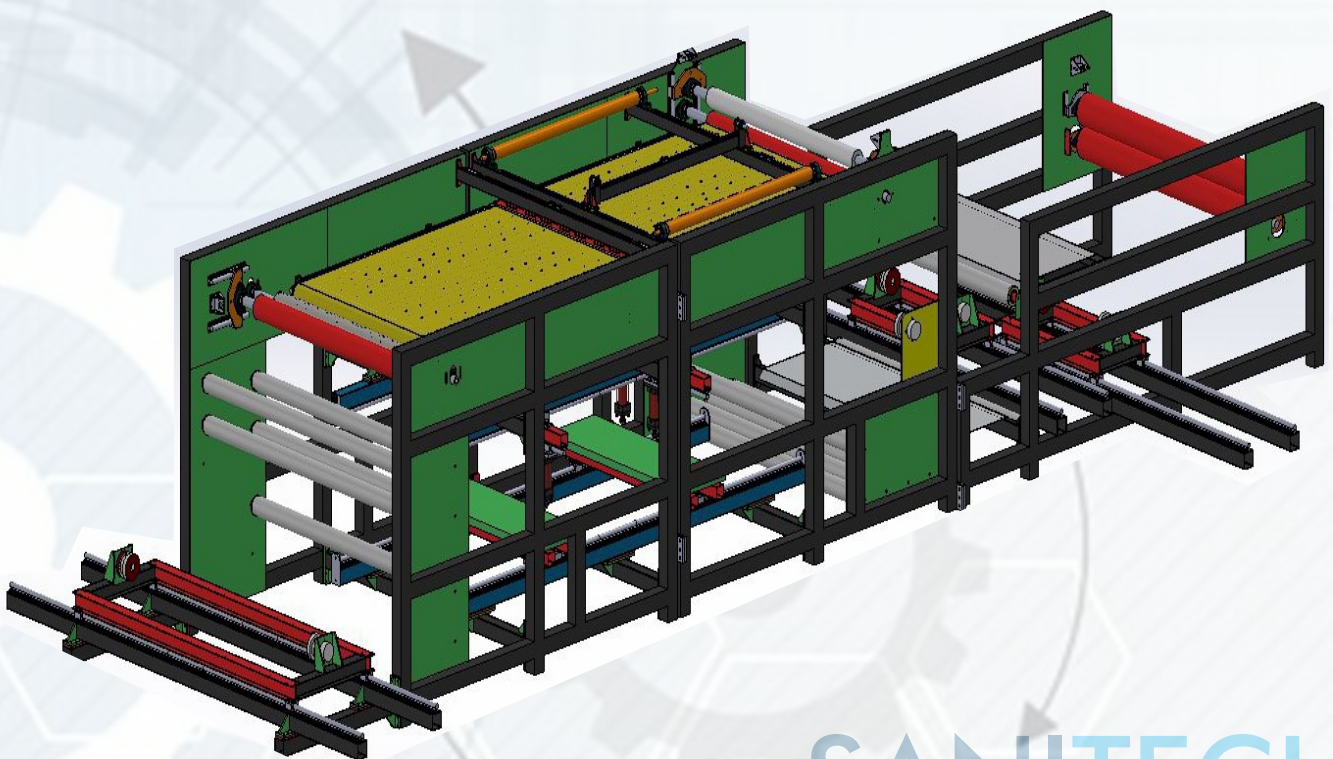
# ANGIOGRAPHY DRAPE MACHINE

**Punching:** The fabric that comes to the punching process with or without the reinforcement fabric glued is punched onto the fabric with an industrial razor or suitable molds using hydraulic or motor control.

**Film Adhering:** The frape, which has gone through various processes up to this stage, is attached to the edges of a maximum width of 60 cm PE film, with ultrasonic bonding, hotmelt bonding or hot gluing, depending on the request.

**Cutting:** When the drape comes to the cutting station with or without a film, it is cut with servo control using an industrial razor blade in the desired dimensions.

**Stacking:** In this section, the fabric to be blown is taken from the cutting section with the pneumatic gripper, moved to the desired length and all bundles are stacked on top of each other equally.



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# SIDE BANDED DRAPE FOLDING MACHINE



**Machine description:** Side tape cover machine, side tape and extra protection cover application is made to various fabrics. to the drapes used in angiography operations according to the desired features

**Machine Includes Six Sections;**

- UNWINDING
- REINFORCEMENT
- CUTTING
- SIDE BAND
- FIRST FOLDING
- FINAL FOLDING

**Unwinder:** It has automatic edge control, tension control and fabric loading systems. The system uses an air shaft for easy roll change.

**Side Band:** Side tape application on the fabric is done by applying double-sided adhesive tape or hotmelt. Tape length can be adjusted via HMI.

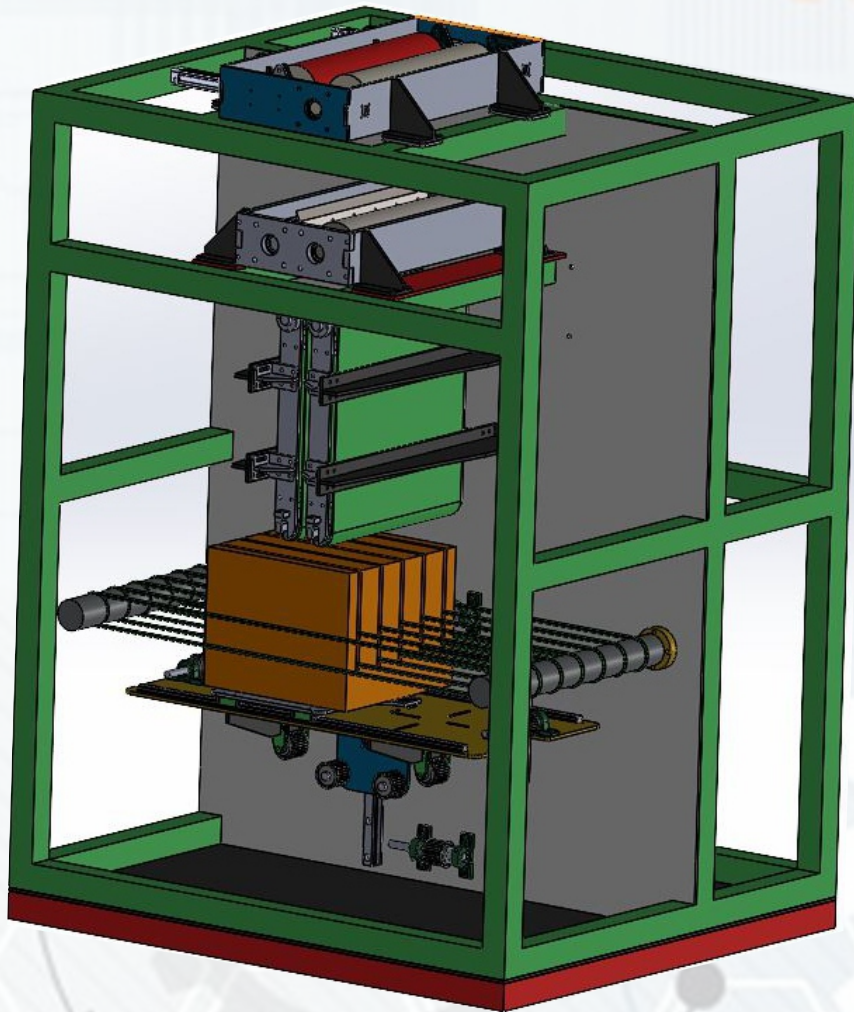
**Reinforcement:** The fabric to be used as reinforcement is first glued, then cut, and then glued to the main fabric with the help of vacuum conveyors.

# SIDE BANDED DRAPE FOLDING MACHINE

**First Folding:** In the first folding section, while the fabric is in motion, folding is done along its width with folding bars in the desired dimensions.

**Cutting:** The fabric coming out of the first fold is cut to the desired length while moving. The drape length can also be adjusted via the HMI.

**Final Folding:** There are designs suitable for 3 different folding styles for the final folding section. These types are as follows; M fold, Z fold and longitudinal fold.



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# CLEANROOM



## Cleanroom Solutions for a Contamination-Free Future

We specialize in the design and installation of advanced cleanroom systems tailored for a wide range of industries, including healthcare, pharmaceuticals, biotechnology, and electronics. Our expertise covers every critical aspect of cleanroom construction, ensuring full compliance with global standards such as ISO 14644, GMP, and FDA guidelines.

### Our services include:

- ⚙️ Airlock Systems for controlled material and personnel transfer, preventing cross-contamination.
- ⚙️ HEPA & ULPA Filtration Systems that meet various international cleanroom classifications.
- ⚙️ HVAC Systems specifically engineered for cleanroom environments, ensuring precise temperature, humidity, and particle control.
- ⚙️ Custom Cleanroom Design & Construction, adaptable to client-specific requirements.

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## CLEANROOM

With a commitment to quality, precision, and international compliance, our cleanroom solutions are trusted by organizations across Europe, the Middle East, Asia, and the Americas. Our global footprint and long list of references prove our ability to deliver high-performance environments wherever our clients operate.

If you're looking for a partner to build or upgrade your cleanroom to meet the most stringent industry demands, we are ready to bring our global experience to your project.

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