

M&A/ DIETERLE

MASCHINEN- & APPARATEBAU GMBH



Bonding machine

Machine programme

Our special machines cover all the production steps of spiral production from joining and filling to thermal fixing, cutting, edge melting and edge bonding of screens. By linking individual machines into a closed production chain, we ensure intelligent and efficient production.

Our special machines are divided into the following areas of production:

<i>Machine type</i>	<i>Production area</i>
<i>Spiral machines</i>	Produce individual spirals (left / right) from various monofilaments, with different cross sections.
<i>Joining tables</i>	Join individual spirals (max. 64 simultaneously) for the production of spiral screens.
<i>Filling tables</i>	Fill fixed and unfixed spiral screens with cored wire (max. 32 simultaneously)
<i>Calender</i>	Thermal fixing
<i>Cutting and melting machines</i>	Marking, cutting edges, melting edges. Can be used for felting as well as screens.
<i>Bonding machine</i>	Bonds edges. Can be used for felting as well as screens.

Our special machines produce guaranteed top quality.

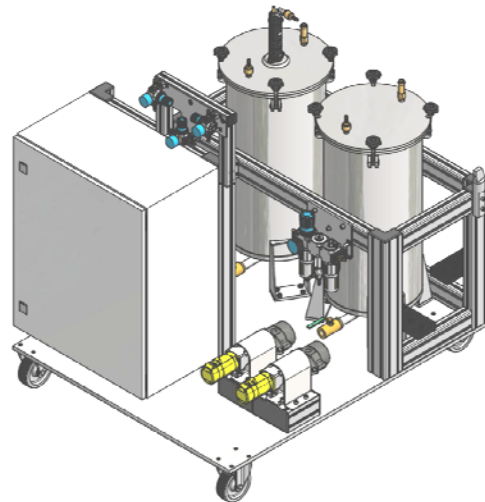
Effizient, präzise und zuverlässig!

Mobile bonding machine

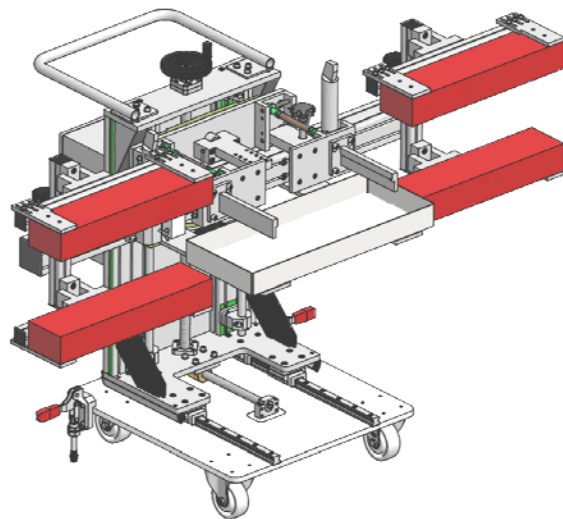
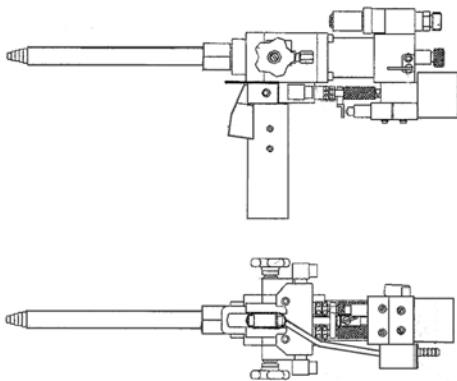
for bonding the edges of felts and screens

The mobile bonding machine consists of two separate, mobile system parts:

**Mixing unit for
2-component adhesive products**



Bonding unit with glue gun



Both devices are equipped with rollers and attachment points for transportation by overhead crane.

This ensures **flexible use of one machine**
in several different calender systems

With our bonding machine,
the edges of diverse felts and screens can be bonded with various 2-component
adhesive products such as **PU** and **silicon**.

Design

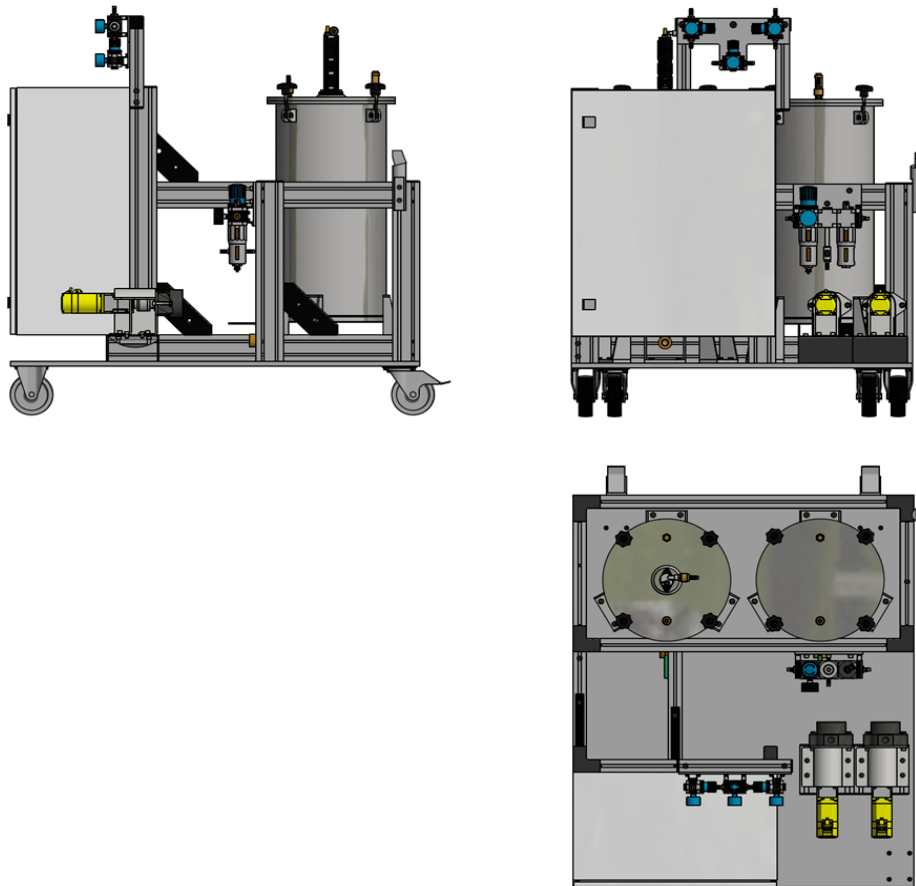
- Clear and functional design of both units
- Easy use
- Versatile
- Workspaces are fully visible
- easy access to all maintenance and work areas
- easily adjustable to diverse felt and screen formats

Operation and maintenance

- Easy to use and easy access to all areas
- Short training period for operating personnel
- Easy to make corrections at any time during the process
- Quick setup and conversion time for diverse materials
- Low maintenance and service costs

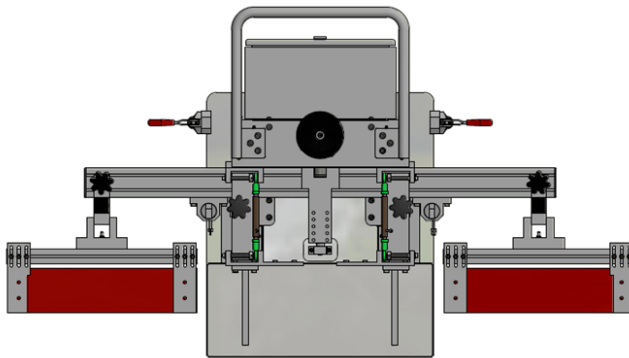
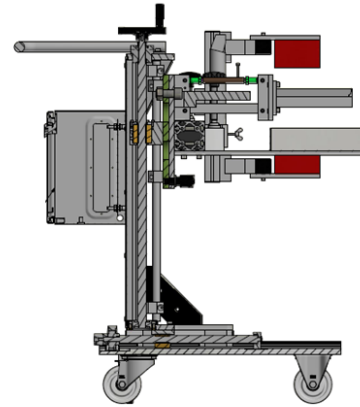
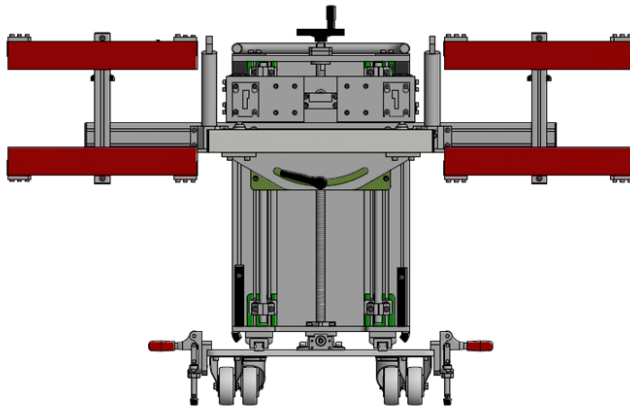
Mixing unit

- Each with 30-litre containers for components A and B
- Agitator
- Feed pumps with variable conversions for diverse doses for individual components
- Easily adjustable feed rate per display
- One user can operate and monitor the bonding process



Bonding unit with glue gun

- Plug-in device for glue gun
- Four infrared heaters for accelerating the hardening process
- Adjustable in all axes
- Glue gun with mixing nozzle, easy to clean by using disposable parts in the mixing nozzle
- Nozzles for various bonding widths are easy to clean and exchange (arrow fig. next page)



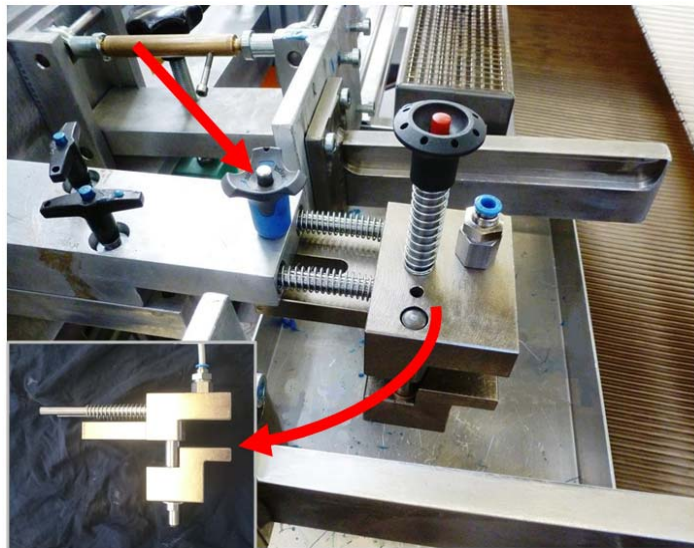
Wipers

continuous rotation
and height adjustment



Glue nozzle

easily exchanged by
pulling on the roll pin



Bonding edges.

- The exact mixing ratio for components A and B is checked according to manufacturer's instructions at the mixing unit using a test nozzle temporarily mounted on the glue gun
- The original mixing nozzle is equipped with a one-way grommet and stirring rod.
- Position and adjust the bonding unit on the screen edge
- Attach the glue gun to the bonding unit and connect the tube connection to the glue nozzle.



- Start roller drive and open adhesive supply.
- If necessary, the adjustment can be changed during the bonding process.
- After completion, blow out the glue gun, one-way grommet and stirring rod.

Advantages:

- ✓ The bonded edges are uniform and reproducible independent of the operator.
- ✓ Various widths are possible by exchanging the adhesive nozzle
- ✓ Bonds can be made with diverse 2-component adhesive products





Consultation



Partnership



Quality



Service



Customer satisfaction

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Technology that benefits