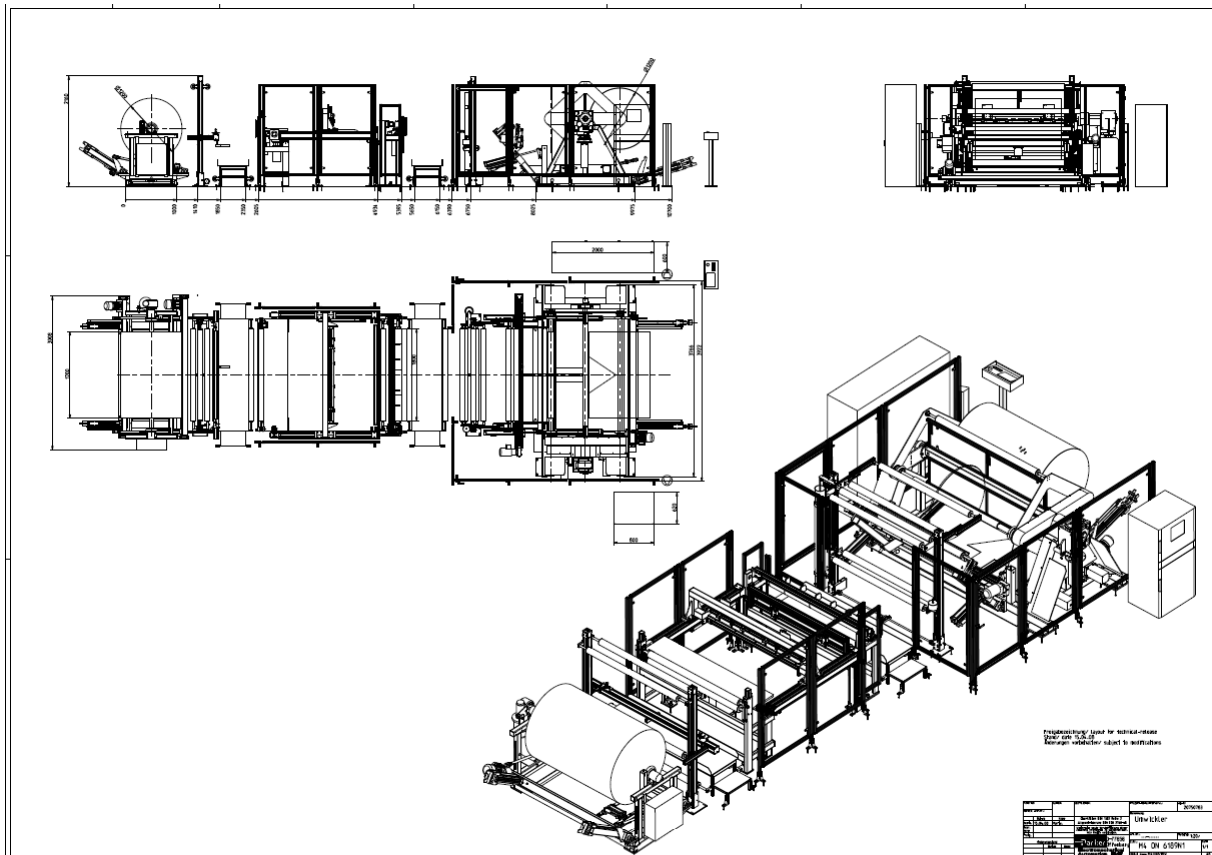


Winding system



Intended purpose and function:

The intended purpose is the converting of master material rolls to small rolls. The amount of meters for the small rolls is freely definable .

The material lane can be perforated in cross direction. The distance of the perforation is programmable whereas the perforation knife is linked with the material speed and perforates "on the fly" without material stop.

With adjustable crimping knives the material width of the small rolls is being adjusted.

For the winding of the small rolls a double unwinder serves as turning winder. After having reached the programmed amount of meters the unwinder automatically transfers a new and empty winding core.

An integrated cross cutter cuts the material lane.

The first material piece is pressed against the winding core that is covered with glue for easy winding.

A balancer in front of the turning winder controls the tension of the material winding and serves as material compensator during the roll change. So the production line works continuously and only needs to be stopped once a new master roll is being inserted.

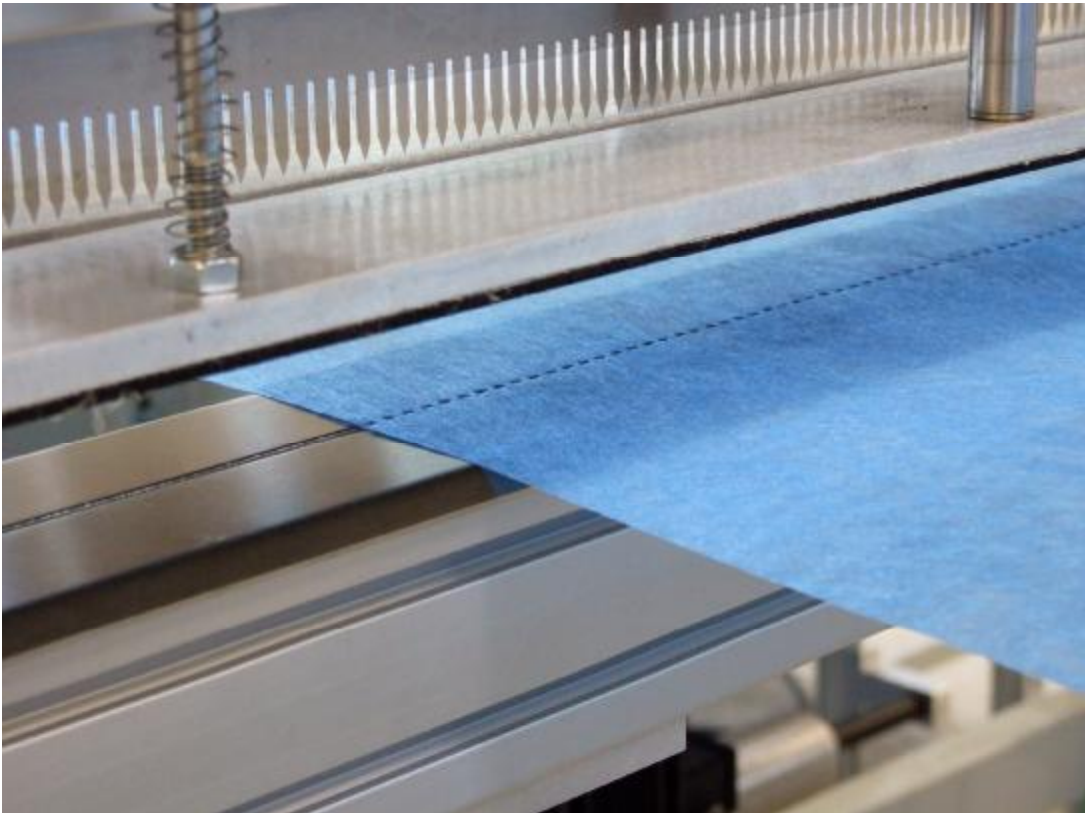
Unwinding unit driven in the center with inserting device for the material rolls



Sewing device for the new rolls



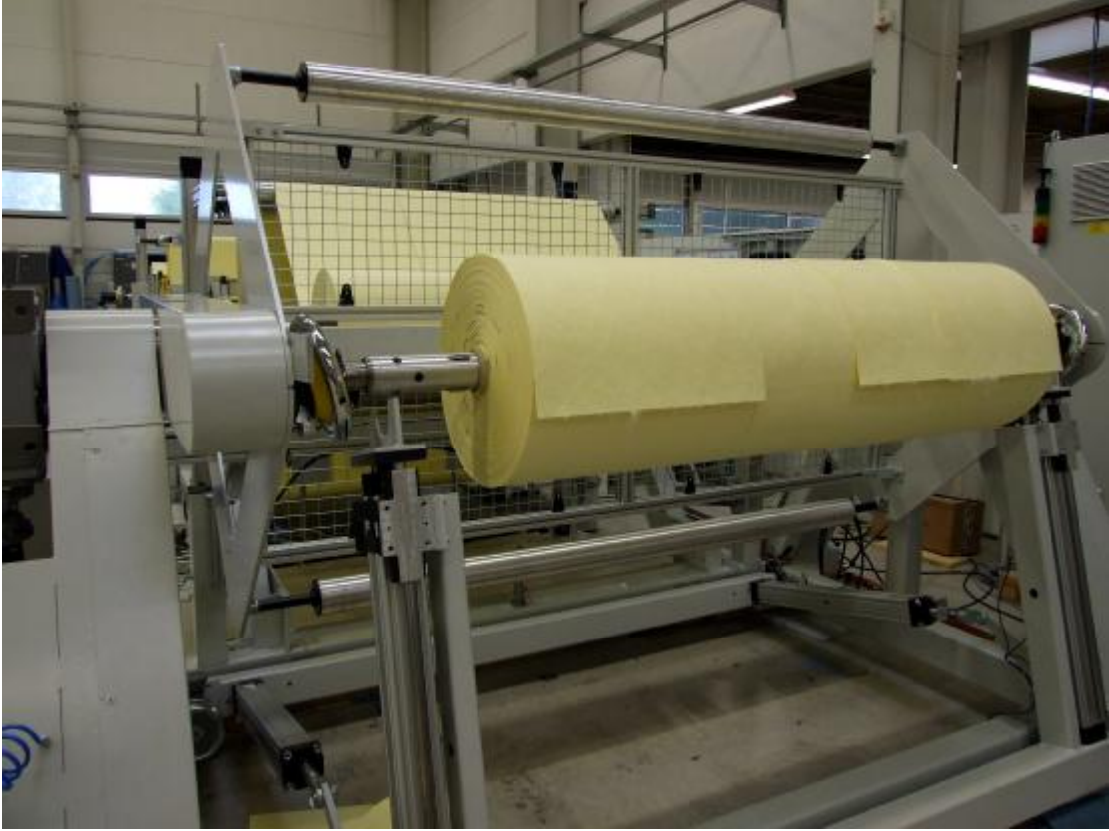
Perforation device in cross direction



Crimping knife for length cut



Turning winder with lifting unit to remove the rolls



Cross cutter and pressure rolls



Technical data:

Working width 1700mm

Roll diameter 1000mm

Roll weight 300 kp

Distance between two perforations 200 to 3000 mm

Max. line speed 25m/min