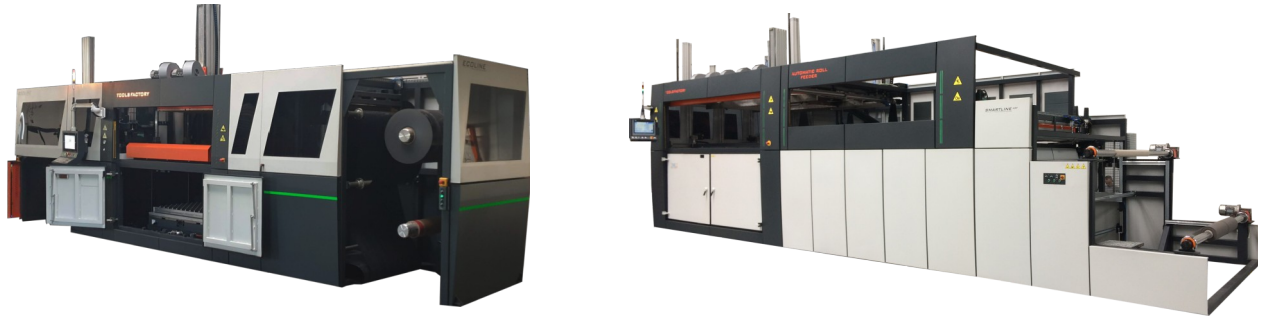


Automatic feeder of the plastic from the roll with the collection of the finished part.



A device cooperating with a thermoforming machine, designed to automatically unwind and take the material from the roll, cut the desired amount of material before or after the forming process, load the material into the working area and unload the finished product. The rollers with the plastic ribbon are mounted on two pneumatic expanding rollers, equipped with a quick disassembly and replacement system. The device ensures control of the unwinding process correctness and the possibility of adjusting its speed to the moulding machine's work efficiency. The functionality of the feeder consists in:

- controlling of the material unwinding process and its rate,
- feeding the material to the working window of the thermoforming machine,
- cutting off the set amount of material before thermoforming or the finished moulding after thermoforming,
- collecting the finished product from the mould and transporting it to the collection area,
- stacking ready-made mouldings on a stack.

The use of expanding shafts allows for quick replacement of rollers and adaptation to different core diameters. Cutting the material from the web can be done in two ways:

- a) before thermoforming - a given amount of material is cut off and moved to the working field
- b) after thermoforming - the finished moulding is cut off from the tape. The finished parts are picked up by pneumatic grippers and placed on a stack in the receiving area. You can control and adjust the height of the stack and the height of lowering onto the stack.

The feeder control is fully integrated with the thermoformer and controlled via its touch screen. It can be run in manual mode or in automatic mode with a

thermoformer. The feeder is equipped with laser sensors detecting the minimum amount of material on the roll, which is announced by an appropriate message on the monitor screen.

Film presentation:

<https://www.youtube.com/watch?v=6ozUS6lZrvw>

<https://www.youtube.com/watch?v=6AtnwH4lLjU>