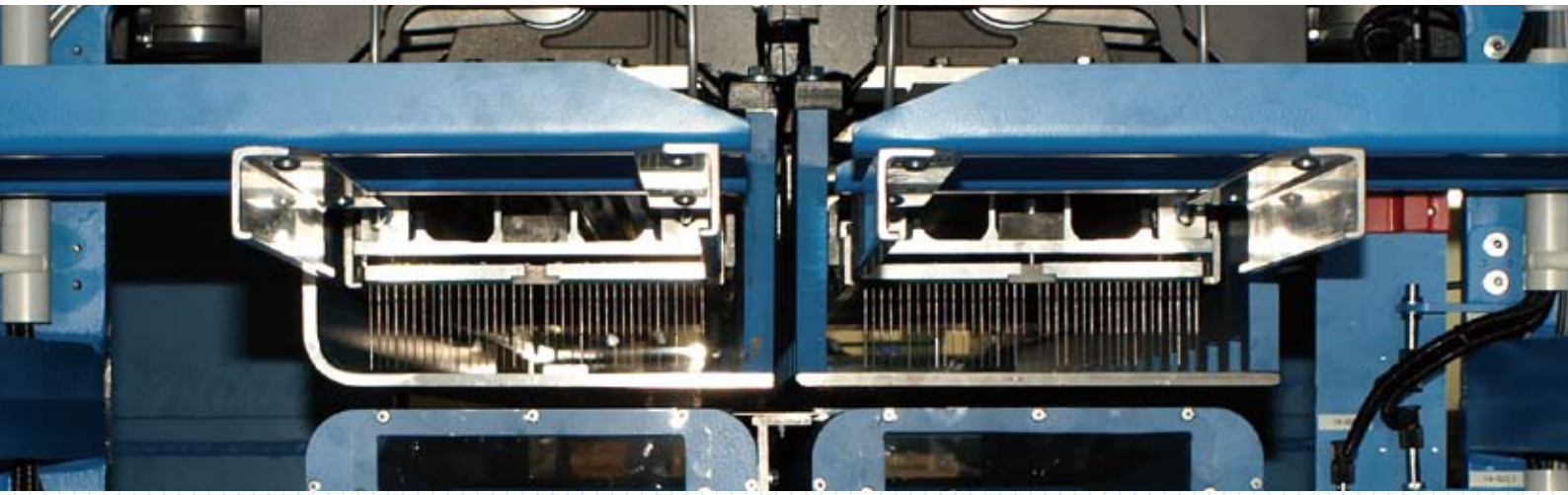
ENL

Needle Looms



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ERKOTRÜTZSCHLER

ENL

Needle Looms

Flexible, precise, secure: the feeding system

The feeding system of the ENL Needle Looms works with a pressure table. This ensures a draft-free feed even in case of a voluminous web laydown.

Another special feature are the finger rollers, the fingers of which consist of particularly nonstick plastics. These rollers guide the pre-compressed fleece directly to the needling zone and avoid an impairment of the web laydown by air turbulences.

The feeding unit and the delivery roll unit of the ENL Needle Looms are not only strongly dimensioned but also enable a pre-setting of the gap widths. This results in an absolutely secure material transport and ensures that the clamping is optimally adapted to the processed material.

ENL-D2

Modern, modular, easy to maintain: the machine structure

A three-phase drive and the most sophisticated frequency converter technology make the ENL Needle Looms work absolutely reliable even at high insertion forces. In addition, the twin-shaft system balances oscillating and rotating masses.

All this is incorporated in a modular structure enabling an optimal adaptation of the machine to the most different requirements.

The modular structure also facilitates a quick replacement of individual drive groups. Needle board replacement is just as easy and quick thanks to the pneumatic quick clamping system with its precisely fitting positioning bolts.

To guarantee an absolutely precise guidance of the needle bar, all needle bars of ENL Needle Looms are equipped with an enclosed bearing which is slip-free and lubricated for life.

Processing of special materials is no problem, as all critical machine areas are kept clean by means of the suction system

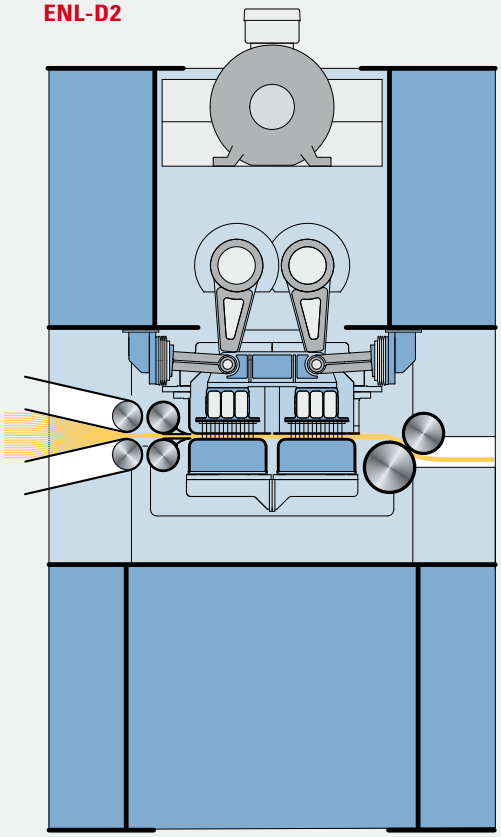
Machine Visualisation

and a compressed-air pulse. Depending on the model, i.e. single or double board machine, or on the working width, the ENL Needle Looms are equipped with a compressed-air reservoir. This reservoir avoids a breakdown of the compressed-air network during a compressed-air pulse.

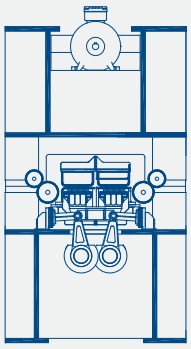
The air cooling of the main connecting rod bearing is simple and reliable at the same time: special filters ensure sufficient cooling and optimum cleanliness of the drive system even when maintenance intervals are longer.

Maintenance of all main bearings of the twin-shaft system is done almost automati-

ENL-D2



ENL-U2



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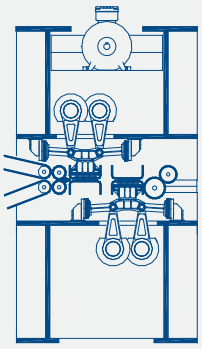
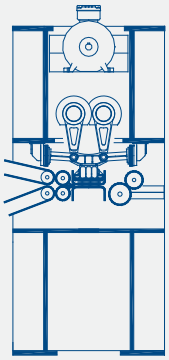


ENL-D1



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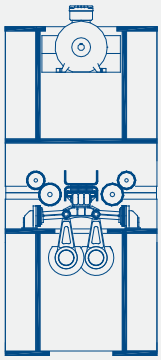

Nominal Width	Web Width	Width of Needle Boards	Beam Width
[mm]	[mm]	[mm]	[mm]
2500	2600	2750	2800
3000	3100	3250	3300
3500	3600	3750	3800
4000	4100	4250	4300
4500	4600	4750	4800
5000	5100	5250	5300
5500	5600	5750	5800
6000	6100	6250	6300
6500	6600	6750	6800
7000	7100	7250	7300

Suction System of Stripper Plate

Drive System

cally. At pre-determined intervals, a central minimum quantity lubrication system supplies the bearings with a given quantity of lubricant. This reliably avoids contamination of the ENL Needle Looms in the area of the drives.

One final characteristic of the sophisticated machine structure of our ENL Needle Looms are the pre-stressed and enclosed lifting spindle gears. They guarantee a secure adjustment of stitch plate and holding down device even at the highest insertion forces.

Simply convincing: the technical data

ENL Needle Looms can reach stroke frequencies of up to 1600 min^{-1}, depending on the stroke (30, 40 or 60 mm). The nominal (working width), the maximum width of the material to be processed as well as the width covered with needles and the width of the bar itself can be taken from the opposite table.

Needle Looms for Geotextile Line in 6.5 m Working Width

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