

THE MOST ADVANCED ELECTRONIC CONTROL SYSTEM ON THE MARKET

The operating software
makes it so easy that specialized
workers are not essential

Electronic system

Software development and hardware selection is managed by Lafer's own electronic division Texen.

Unlike other machines controlled only by PLC, Lafer machines are controlled by a combination of Industrial PC with colour touch screen and PLC. The PLC controls the machine functions whereas the PC assists the operative by greatly simplifying running the machine by means of:

- A large memory capacity that allows to store all the raising recipes in order to ensure reproducibility of the results at any time.
- Advanced troubleshooting guide with pop-up photos suggestions for over 100 alarms.
- Alarm and production statistics.
- Advanced control of all machine functions.



Machine production data transferable to ERP (enterprise resources planning) system

The machine can be supplied with possibility to transfer its data to an external system. The contents of the information to be transferred can eventually be customized according to the client's requirements.

Airconditioning not required

A special cooling system with air flows from bottom to top of the cabinets in combination with the design of the electronic components allows the machine to run in hot ambients without the need of air conditioners which can always cause problems due to condensation.



RAISING MACHINES

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Lafer
SPA
ideas for better fabrics

THE DIFFERENT RAISING MACHINE

Users consider the Lafer machine to be better than any other when comparing **raising results, performance and user-friendliness**

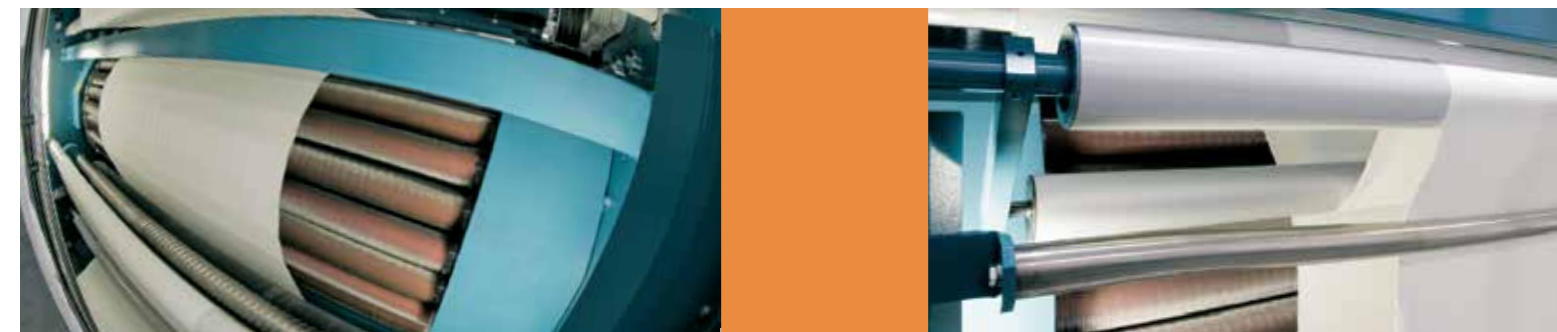
Designed for every requirement

The widest range of raising solutions are available for knit and woven fabrics with single and double drum machines configured as independent or multi-unit lines to achieve the desired production capacity and raising effect. Besides drum size/number of raising rollers (20-24-28-32-36) also the raising roller diameter and gap between the raising rollers are customized depending on the required raising energy and pile height. Other suppliers normally do not offer such an extensive level of customization such as Lafer.

Double drum GRI228 for maximum performance and results

The GRI228 raising machine (2 drums each with 28 rollers) is much more productive and leads to improved raising quality compared to conventional machines by exploiting a perfect balance between:

- wide contact surface of the fabric on the large diameter drums.
- high drum rotation speed with subsequent stronger raising action (normally possible with smaller diameter drums).



Advanced electronic (raising roller) cleaning brush phase control

Even a minimal difference in phase synchronization can damage the raising wire. The system is connected to the computer with very sensitive sensors that control the brush synchronization. If fabric goes into the brushes or if brushes go even slightly out of phase, the machine will stop with an alarm. The mechanism for resetting the brush phase is very easy and quick to use. Precision brush height adjustment is also a very easy task.

Fabric tension control

A dancer bar with pneumatic control adjusts fabric tension between lower and upper drums. Possibility to control tension on knit fabrics with load cells at drum entry/exit in order to avoid creasing.

Adjustable drums direction of rotation

Drums direction is adjustable clockwise and anti-clockwise as a standard provision. This gives much more flexibility in order to diversify the raising effect.



SUGGESTIONS FOR KNITS

Here are only a few of the solutions Lafer can provide for synthetic or natural based knits in open or tubular form

SUGGESTION 1

a: Polar fleece raising line (4 x GRI124) for processing both sides

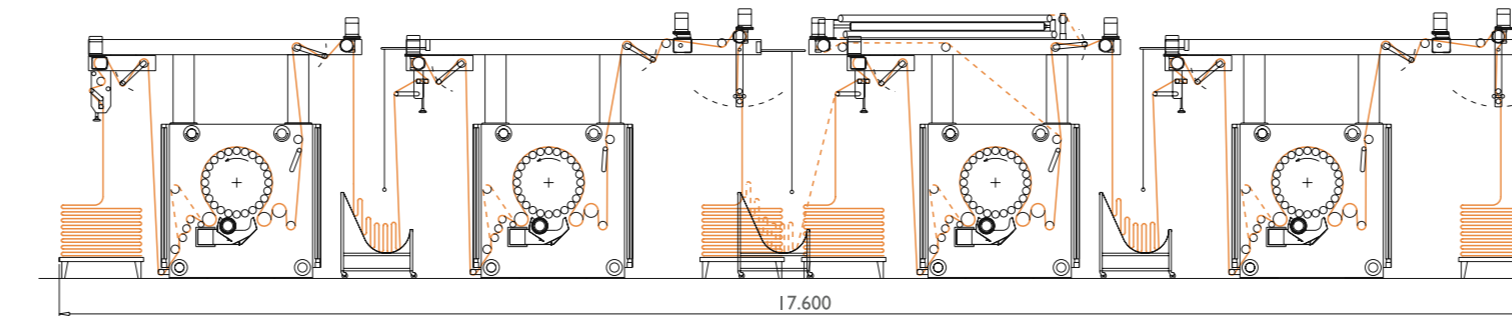
b: Combing machine for face side of polar fleece

The GRI124-4T (24 rollers) is provided with 2 lift-off rollers in order to allow adjustments of the fabric-to-drum contact and therefore vary the degree of combing action (required before shearing). With fabric running around the full drum (i.e. lift-off rollers not used) this machine can be used as a normal raising machine.

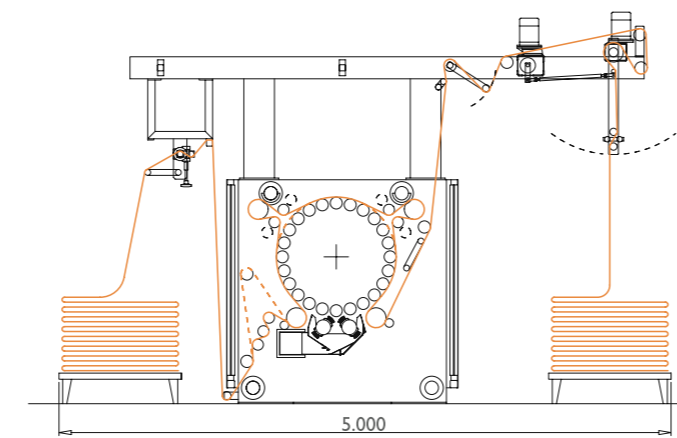
SUGGESTION 2

GRI228 raising machine for open width and tubular knits

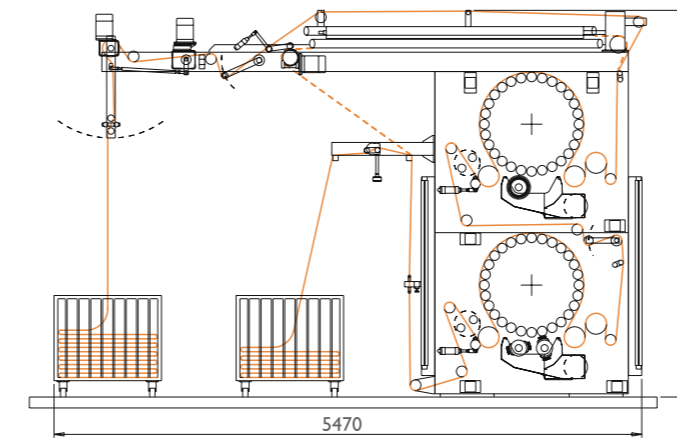
Equipped with spreading scroll rollers for open knits and/or cloth turning device allowing to process both sides of the tubular fabric. **A configuration is available allowing to raise fleece (suitably prepared) in tubular or open width form at speeds of 50 m/min and one pass!**



SUGGESTION 1a Raising line for polar fleece



SUGGESTION 1b Combing machine for polar fleece



SUGGESTION 2 For open width and tubular knits

SUGGESTIONS FOR WOVENS

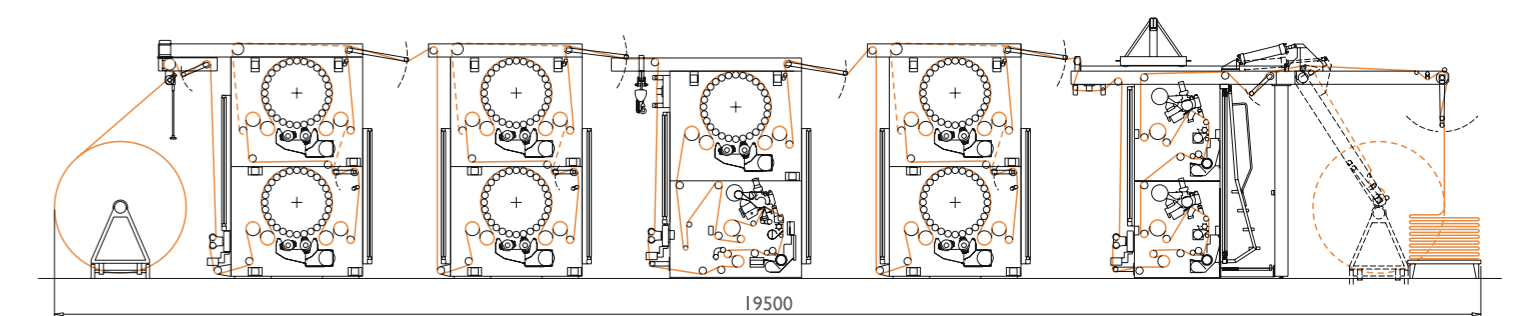
Combinations available for wovens are infinite and customizable depending on type of fibre (natural or synthetic) and enduse: narrow width machines for clothing, wide width machines for home textiles

SUGGESTION 1

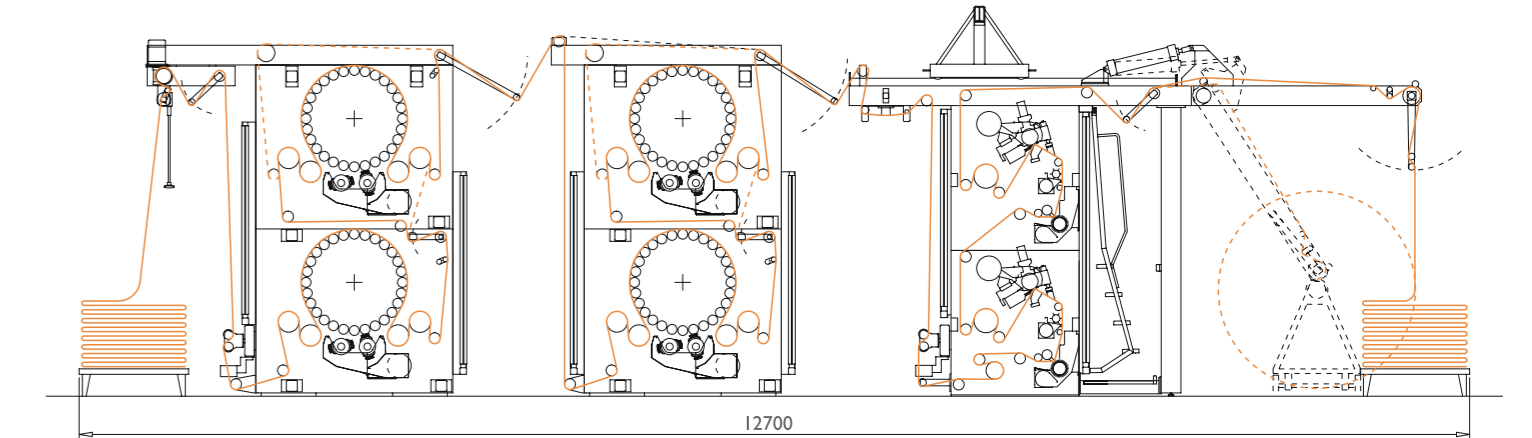
Raising line for woven including 3 double drums GRI228 + 1 combined shearing and raising machine GLC128 (patented by Lafer) + 1 double cutter shearing machine CMI200.

SUGGESTION 2

Two double drum raising machines + 1 double cutter shearing machine CMI200.



SUGGESTION 1



SUGGESTION 2