

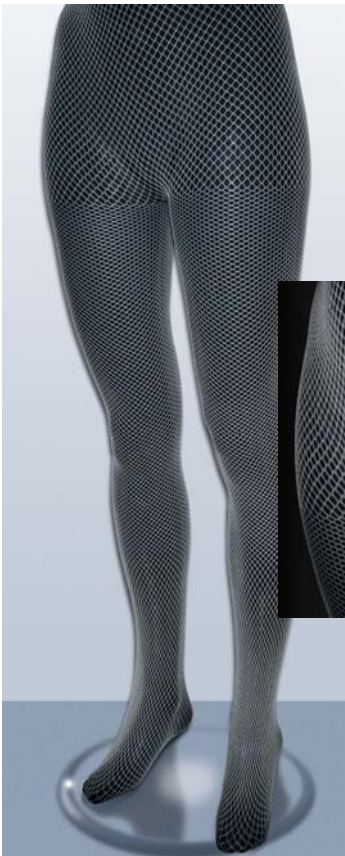
COMEZ DNB/EL-1270

New electronic double needle bed warp knitting machine for the production of technical textiles, women's apparel and fashion fabrics



COMEZ is a global leader in advanced narrow fabric technology and has launched a new **electronic double needle bed warp knitting machine** intended for the manufacturing of an extremely wide range of articles, such as, for example for:

- ✓ technical uses (netting for sports equipment and the food industry, high resistance ribbons in special fibres, ribbons and fabrics for applications in the geo-textile, automotive, building and industrial sectors)
- ✓ medical uses (tubular elastic netting, emergency bandages and dressings, disposable underwear)
- ✓ women's apparel (mesh stockings and pantyhose) and fashion fabrics.



The **COMEZ DNB/EL-1270** features a 1270 mm working width, comes in several gauges from 5 to 18 n.p.i., uses individual latch needles and can work any type of yarn. It is equipped with 12 pattern guide bars, with electronic control, but knockover sinker groups can be supplied on request.

The electronic drive of the thread feeders and the finished product take-down allows for the possibility of different stitch density values (stitches/cm) on one single product, as well as different values for weft/warp feeding and elasticity.

The machine is fitted with the new **DATA CONTROL CONTROLLER** which manages all necessary machine functions, monitors production data and allows for the realisation of lengthy pattern repeats: the number of lines for each pattern can reach a value that is just about unlimited.

The electronic programming of the pattern guide bars allows articles with different weaves to be produced without interruption, and the fabrics obtained feature a good three-dimensional consistency, difficult to obtain on single-needle bed machinery for traditional fabrics.

Thanks to the presence of 2 needle beds, and the unique evolution of the pattern guide bars, it is possible to obtain "double face" articles, with identical structure and specifications on both sides: the fabric doesn't actually have a front or reverse side. This is a very important characteristic in the production of articles such as knitted nettings and technical articles. However, it is also possible to differentiate the appearance of the two sides of the fabric, for example with a mesh structure on one face and a plain close-knit structure on the other.

With regards to articles in netting, both rigid and elastic, they can be created either flat or in a tubular form. In the flat form, the stitches dimensions can be set from a few millimetres to several centimetres: the adjustment can be made without interruption and the structure can be either simple or reinforced at crossover points by a "super knot". In the tubular form the structure can be with simple mesh, with very open mesh (e.g. for the production of mesh wrapping bags for fruits and vegetables), and with woven mesh (such as for the production of tubular netting for medical uses).

With regard to technical articles, one of the most interesting possibilities is that of the so-called spacer fabrics which basically comprise two distinct fabrics, constituting the two faces of the whole (and even presenting different appearances), connected by woven threads of a special consistency, so that the two faces are kept at a certain distance by connecting threads. Structures obtained using this process feature high voluminosity, and excellent elasticity to pressure (absorption effect). The electronic programming allows articles with alternating three-dimensional and flat areas to be made easily.

Given the vast range of articles that can be made and yarns that can be used, the **COMEZ DNB/EL-1270** can also be used for mixed compositions. The machine can be fed yarns from creels only, creels and beams combined or beams only. The yarn feed can also be provided by electronic feeders secured to the machine or by floor-standing external electronic feeders. The collection system for the finished product can be tailored to the user's requirements and available space.

