

Terrot: customized seamless-machines

As an approved and reliable circular knitting machine for the production of high-quality seamless underwear, the RFRM 2 is the latest generation of the body size circular knitting machines of Terrot GmbH, Chemnitz/Germany. Its main field of application is currently in health clothing.

Reliability

For the production of fashionable and comfortable seamless underwear, the rib double bodysize machine RFRM 2 offers high production reliability coupled with great efficiency. It is characterized by clear design and operational concept due to open, userfriendly construction. The RFRM 2 was preferentially designed for the production of garment length fine gauge women's singlets and vests, mostly in rib 22 gauge. Regular uniform cuffs without gradation are possible. The RFRM 2 produces a fully fashioned welt on underwear which forms a fully homogeneous surface and needs no further finishing or seaming. Separating or elastic threads can be easily integrated using strippers. So-called melting threads can be worked in at the start of the edge of the garments for separating the individual items. These dissolve in the later treatment of the product with temperature and humidity (steaming) resulting in separate items of underwear.

Sophisticated concept

On demand the RFRM 2 is produced in 13 up to 18 inch diameter and 18, 20 and 22 gauges (Fig. 1). With a feeder density of 1.1 feeders per inch of machine diameter, and with one needle track in the dial and cylinder, additional reinforcing threads can be added, e.g. in the crotch of a pair of briefs, by means of the strippers provided. The elasticity of the fabric can be additionally adjusted

by powered modification of the dial height. The following machine functions are controlled using the latest microprocessor technology and are implemented using stepper motors: firmness setting for the fabric, length and number of items, switching the cams in the dial and cylinder, switching the yarn stripper and construction and adjustment of the edge of the garment.

Operator guidance is undertaken easily and clearly by means of a PC menu, which is stored on a notebook. The changeover to different knitted articles takes place quickly and in an uncomplicated manner by means of an archive of defined article data. The notebook is connected to the serial interface of the machine for transferring data.

Summarized, the advantages are: process computer control for fully automatic knitting cycle, stepper motor control for the dial cam height and the dial cam separators, electronic needle and yarn monitoring and all knitting feeders are equipped with program-controlled yarn strippers.



Total view of rib double bodysize machine RFRM 2



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