

Sustainability that pays off.

Relative Technology: highly productive, energy-efficient, easy on the yarn



Relanit 3.2 HS: Up to 30% less energy consumption – up to 20% more performance

Even now, 30 years after it reached series maturity, relative technology, developed by Mayer & Cie., is as relevant as ever, and the latest models in the Relanit range are as timely and sustainable as ever they were. The shorter needle path characteristic of the technology, combined with a flatter needle curve, reduces energy consumption considerably. For the Relanit 3.2 HS it is up to 30 per cent lower than that of a conventional machine – combined with up to 20 per cent higher performance.

The basic principle of relative movement technology is unchanged, but Relanit machines themselves have grown with the technical options. Continuing strong demand is due mainly to how gently the yarn is processed. Conventional knitting machines work as a rule with a

horizontal sinker technology. With this technology, the vertical movement of the needle alone determines the stitch length. While the needle moves up and down the sinker moves to and fro.

In relative technology, in contrast, needle and sinker move relative toward each other. The vertical movement required for threading is divided into two complementary, opposing individual movements. This means that the sinker also makes an up and down movement. It is circular and halves the number of deflection points during stitch formation from eight to four. There is less friction and yarn tension, the yarn is treated more gently, and energy consumption is reduced. With relative technology there is less yarn breakage and yarns of lower quality can be processed safely. Less downtime, higher operating speed and greater productivity are the positive consequences.

The current Relanit machines can also be equipped with the Mayer & Cie.

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needle oil recycling system. Used oil is reprocessed and recycled, resulting in a saving of up to 30 per cent of needle oil per machine.

The innovative spinit systems spinning and knitting technology is indicative of the future potential of relative technology. The Spinit 3.0 E spinning and knitting machine, combining in one machine the three previously separate processes of spinning, cleaning and knitting, processes roving and not a finished spun yarn. It can only process the fragile fibre sliver because the machine's knitting unit is a Relanit.

Facts:

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