

## **Automation in Finishing of Knitwears.**

Sewing of Knits calls for high speed movement of thin parts undergoing lots of tension due to the yarns passing through at higher speeds for better productivity. In the recent years, sewing machines of knits underwent considerable changes in the machines that helped in achieving better productivity with less thread breakage rates. Unfortunately, if we could consider the final pressing or finishing processes in knitwear industry, we still have a long way to go in the process of automation. More than 90% of the knitwear manufacturers claim to do the ironing with the help of suction table and steam irons.

In any knitted garment manufacturing final ironing section, using suction tables and irons, is going through repeated ironing processes to get the size specifications right. The critical problem lies in the fabric as the loops per sq.inch is not constant, even though with modern technology it is reduced to a minimum, due to the winding tension caused in circular or flat knitting machines. This variation in the loop density causes the difficulty in standardizing the shrinkage % that in turn is the cause for the variation in sizes than expected within the rolls or between rolls of fabric.

One other critical problem that has to be addressed in the knitwear final ironing is the shines that we encounter in the places such as arm holes, plackets, hems and pockets. Knits are usually thicker than any woven materials which in turn means that if there is an application of pressure from outside with the heat contact, there will be a localized color variation. This localized color variation or color loss is called as “shining”. Shines are permanent damages that are caused to the fabric and in most cases it is not repairable. This leads to frequent rejections and in a knitted garments factory, it is not uncommon to see rejection rates reaching 1 % or even more in some cases due to the above mentioned problems.

In order to avoid those mentioned problems in the finish pressing, operators are instructed to just steam the knits from the top without making any physical contact on the garments using the irons. All the operators should be trained to achieve the desired level of quality in the production. This careful preparation of garments, calls for high skilled labors, proper training and still sharp reduction in productivity. For washed polo knitwears, it is usual to get a production of 30 pcs per hr on a suction table to achieve a good quality pressed polo shirts, with proper sizing and no shines.

Addressing these problems in the knitwear industry, Veit Group is adding a new dimension by introducing its latest innovation, the uniquely designed Knitwear finisher VEIT 8410.

Veit’s concept of 3 Dimensional finishing helps to achieve a perfect finish on any kind of Polo- and T-shirts without any shines or marks.

The specially designed, easy to use, knitwear finisher helps to achieve higher productivity and offers excellent repeatability even with unskilled labor. The operator is expected to load and unload the knitwears while our precise built-in controls will take care of the rest.

## Higher productivity

One of VEIT's customers is producing 85 pcs. of Polo-Shirts per hour and he is sure that he will finally achieve 100 pcs. per hour. This customer is producing Polos for all the big fashion labels in the world and he and his customers are both very happy with the results of the VEIT 8410.

## Tandem Operation

In the tandem operation, an operator controls two machines at the same time. Knitwears are loaded in the form of one machine when the other is finishing the already loaded garment. Tandem operation helps in cutting down the labor requirements approximately to half due to the efficient use of time.

## Different sizes?

Slim yet sturdy frame is easily adjustable to accommodate knits of various sizes. Sizes ranging from Small to Extra Large can be finished without any change in dimensions. The frame can be adjusted to set the required sizes. The measuring scale located on the sides helps to set the accurate dimensions.

## Assists in Packaging:

Upon Finishing, knitwears are packed in poly bags for transportation. The flat pressing on front and back hems along with the body creasing assists in further processes like packaging.

## Loading Bar:

A simple loading bar located over the frame assists in effective loading of the garments. The time to load the garment is further reduced with the use of the loading bar that helps to position the garment on the frame effectively as well as efficiently.

All the necessary finishing parameters like steam time, drying time and the volume of air can be easily controlled with the help of control knobs located on the frame of the machine.

Thus a knitwear finisher, is a cost effective solution to produce garments, of different sizes, with:

Soft Finish

Consistent quality

No Shine

Higher productivity and

Cheaper Labor

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