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THE PROCESS OF WEAVING NEW TYPES OF ADRAS NATIONAL TEXTILE

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ПРОЦЕСС ТКАЧЕСТВА НОВЫХ ВИДОВ НАЦИОНАЛЬНЫХ ТКАНЕЙ АДРАС

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Abstract. This article describes our experimental research on the technology of production of a new range of national textile at the production enterprise Yodgorlik LLC in Margilan and its selling.

Аннотация. В статье рассказывается о наших экспериментальных исследованиях технологии производства новой линейки национальных тканей на производственном предприятии ООО «Едгорлик» в Маргилане и их реализации.

Keywords: textile, adras, satin, loom, yarn, bobbin, tanda, rounding, coloring, weaving.

Ключевые слова: ткань, адрас, атлас, ткацкий станок, пряжа, бобина, танда, округление, раскраска, ткачество.

Introduction

The concept of accelerated development of the textile and clothing industry in Uzbekistan in 2019-2021 has been approved. It involves the study of domestic and foreign markets for the processing of raw materials on the basis of a comprehensive approach, the production and export of finished products, including the expansion and support of industrial cooperation, the sale of textile and light industry products. It is also planned to take measures to ensure the competitiveness of products in domestic and foreign markets.

Based on the above, the task of scientific research on the production of new types of national fabrics from natural raw materials, taking into account the needs of women, without violating the norms of our national mentality, was determined.

Material and research methods

In order to increase the quality and competitiveness of ready-made garments made from national fabrics, great attention should be paid to the raw material composition of the fabric. Taking into account the needs of the population, as well as to ensure the beautiful fit of clothes on the body, in the production of "Yodgorlik" LLC in the city of Margilan developed a new range of three types of national adras fabric. The number of national textile enterprises is growing in our country, including: Yodgorlik LLC, located in Margilan district of Fergana region, is still known around the

world for its elegant and high-quality products. The company has gradually started weaving new types of national fabrics.



Figure 1. Appearance of Yodgorlik LLC

The process of weaving the national fabric is carried out in ten stages: in the first stage, the cotton yarn is wrapped in sacks (Figure 2). If the cotton threads are single layered, they are wrapped in a single roll by twisting the roller into a coil (Figures 2, 3).



Figure 2. Spinning machine



Figure 3. Kalavalovchi bench

The prepared yarns are softened and bleached. The bleached yarn is rewrapped on a spool using a loom (Figure 4).



Figure 4. Bleached and softened yarns

The second stage is the rolling process, in which the cylindrical spools are wrapped separately by placing the threads separately on the frame of the spinning machine, taking into account the number of threads in the fabric and the width and length of the fabric (Figure 5).



Figure 5. Rounding process

The third stage is the preparation for dyeing, ie folding, where the tan yarns are 2; 2.20; Each libit should be prepared before abribanting, bringing it to a kalava state of 1.90 m. Each libit is divided by tying it with string from the desired location to make it easier to draw and count (Figure 6).



Figure 6. Folding process

The fourth step is to draw a flower, where the folded threads are drawn by hand using a pencil to draw a black pattern on the fabric based on exact dimensions (Figure 7).



Figure 7. The process of drawing flowers

The fifth stage is the dyeing process, in which the threads from the flower drawing are dyed, that is, the areas to be dyed are fastened and covered with cotton thread or colorless plastic glue. The more colors used in the fabric, the more it is dyed in sequence, that is, the areas where the color is obtained are closed.



Figure 8. Applied natural colors



Figure 9. Dyeing process

In the sixth step, the dyed yarn is removed, the cotton thread or plastic glue on the yarn is removed, and the yarn is opened. The yarns painted on a rectangular horizontal frame are pulled vertically, and the yarns are arranged in a row, rotating and assembling the yarns (Figure 10).



Figure 10 Spread of yarn from the dye

The seventh stage is the weaving, in which the gathered yarn is passed through the flowers and the blade in the twig, divided into 2, 4, 5, 8 twigs depending on the weaving, the twisted yarn is divided into two twigs, four twigs Divides into five and eight strands, divides into five and eight strands, and threads passing through the twigs of the twigs are passed through the crochet hooks will be numbered 10, 12, 16, 20, 22 determines the width (Figure 11).



Figure 11 Weaving process for hand loom

The eighth stage is the weaving process, in which the yarns that have passed the spinning stage are placed on the loom. Hand and knitting machines are available. The hand loom consists of two and four, five, and eight strands, depending on the thickness of the fabric (Figure 12).



Figure 12. Hand knitting machine

Yarns that have passed the weaving stage are considered to be yarns in the body. The back stitch is a thread that extends across the width of the fabric and is attached to the right side of the loom. A special shuttle wrapping method is used to wrap the yarn around the moccasin (Figure 13).



Figure 13. The process of wrapping Moki in yarn

The loom consists of the following main and auxiliary mechanisms:

1. The mechanism of formation of the humus;
2. Back rope throwing mechanism;
3. Mechanism of tying the rope to the edge of the fabric;
4. Tissue traction and wrapping mechanism;
5. The mechanism of tension transmission of body threads.

The ninth cleaning step is to cut off the remaining threads in the fabric. The tenth stage is ironing, in which the fabric is pressed under high pressure and the notches of the fabric are smoothed. On the basis of the above ten stages, three types of new national adras fabrics were developed in the production conditions of “Yodgorlik” LLC in Margilan (Figure 14).



Figure 14. Fabric weaving process

Conclusions

This new range differs from the existing ones: in the first model, 82.5% cotton is added to the body, 15% polyester 2.5% lycra (75DNE) yarn is added to the back; in the second sample, 80% cotton and 20% polyester (150DNE) yarn were added to the body; in the third pattern, 40% silk and 60% polyester (150DNE) yarn are added to the back (Figure 15).

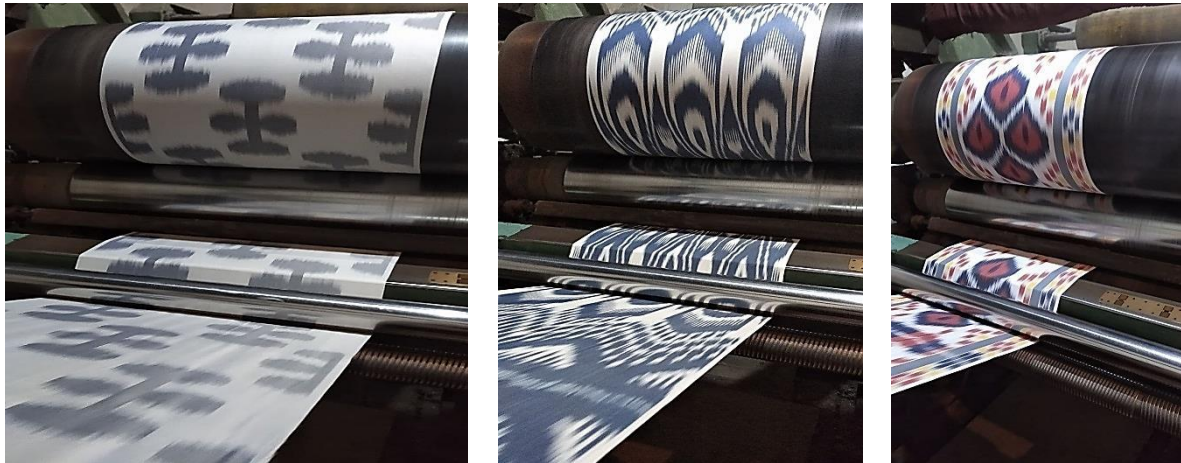


Figure 15. Pressing process

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