

# *The Application of Traditional Batik and Tie Dye Printing Technology in Garment Design*

**Wang Ping**

*Hexi University, Gansu, China, 734000*

**Keywords:** Traditional batik and tie dye printing technology; Garment design

**Abstract:** Tie-dyeing and batik are traditional Chinese crafts with folk characteristics, which are famous for their simple colours and unique patterns. This paper mainly studies the application of tie-dyeing and batik dyeing in fashion design, and deeply analyses the traditional handmade printing and dyeing technology in today's era. At the same time, according to the characteristics of tie dyeing and batik dyeing and the colour style of their application, the impact on modern clothing is analysed. In the traditional folk handmade printing and dyeing technology, tie-dyeing and batik have different styles and arts, which have different characteristics of beauty. The combination of traditional handmade printing and dyeing artistic style and fashion design is helpful to the inheritance and continuity of traditional folk handmade printing and dye art.

## **1. Introduction**

With the development of the times, fashion designers begin to attach importance to the artistry of fashion design and the design of clothing fabrics. According to the fashion design circle, only the clothing category with abstract basic material as the main material can best reflect the design ability of fashion designers. In order to design clothing styles and colour matching that meet people's aesthetic needs, fashion designers combine modern fashion elements with manual printing and dyeing technology, which not only brings people visual impact, but also designs unique clothing. The harmonious development of clothing industry and printing and dyeing industry help broaden and enrich the scope of clothing design, and combine clothing design with printing and dyeing technology, to promote the sustainable development of clothing design.

## **2. The application of tie dyeing and batik technology in garment design**

Tie-dyeing and batik dyeing are both important contents of Chinese traditional handicraft and the essence of the development of Chinese traditional culture. However, due to the simplicity of tie-dyeing technology in the development process of traditional handicraft in China, it still has corresponding practical value in the process of modern art development. It can adapt to the development of aesthetics of the times and constantly develop itself, thus promoting the individualized and diversified development needs of artistic aesthetics.

## 2.1 The application of tie-dyeing in garment design

In the process of applying tie-dyeing technology to modern garment design, the emphasis is mainly on people-oriented, and at the same time, it is necessary to promote the personalized research of garment products. At present, under the influence of tie-dyeing process, the shape and color of garment design have changed accordingly. Tie-dyeing technology is mainly used in modern fashion design abstract patterns, and in the production of these patterns, it can be seen that the characteristics of tie-dyeing process freedom and casual. In the specific pattern design, we can also find that most of the abstract patterns are asymmetric and irregular. This abstract aesthetic feeling can fully meet the aesthetic needs of people at this stage, but also can meet the current trend and trend of the overall development of fashion design. In the modern application and development, tie-dyeing process is mainly combined with other processes to develop, thus showing a unique visual effect in the final effect.

In the traditional tie-dyeing process, monochromatic tie-dye is mainly used, and in the process of single-color tie-dyeing, the two main colors are blue and white. With the continuous development and progress of the society, the tie-dye technology has a more diversified development in the choice of color, and gradually gets rid of the traditional enamel for blue and white, the color selection of the tie-dye process at the present stage. Among them, diversified colors are the most important design and development trend. In the development of modern tie-dye technology, tie-dye dyeing is also undergoing continuous and rich development, from the development of early single dyes to the current diversified choices. In the process of the development and change of the color of the tie dyeing process, it also shows the development and changes of the current fashion trends.



Fig 1. Modern tie-dyed clothing

The modern textile industry is gradually mechanized, and the production of printed fabrics is printed and dyed by machines. The output is high, the cost is relatively low, and the quality is superior, and the patterns are exquisite and beautiful. In recent years, due to changes in people's aesthetics, more pursuit of nature, environmental protection, health, and full display of individual personality characteristics, traditional tie-dyed clothing full of artistic atmosphere and uniqueness has appeared in the streets. Especially in summer T-shirts, dresses, backpacks, headscarves, etc., the personality of the tie-dyed dress. This has caused the attention of some printing and dyeing manufacturers to start industrial mass production. It can be seen that tie-dye garments have been industrialized and have a certain scale of development, as shown in Figure 1.

## 2.2 The application of batik dyeing in garment design

At present, batik technology is mainly applied with common clothing, such as short sleeves, hats, suits and dresses. Traditional batik dyeing process in the process of modernization also gradually has its own personalized development characteristics. In the development of batik technology, batik technology is not only applied to some accessories, but also combined with ready-made clothes. In its current development, mainly for ready-made clothes to add some elements of batik technology, at the same time, batik technology in ready-made clothes can more reflect a national style. At present, the combination of batik technology and ready-made clothes is mainly used in women's wear.

From the perspective of modern fashion, the combination of batik and modern clothing is not only an innovation, but also a heritage of traditional natural style and modern technology. With the change of people's life style, traditional batik is no longer just small-scale manual dyeing and weaving, mass production mode provides a great platform for batik technology. And the combination of traditional batik and modern clothing, to a large extent, is a manifestation of our traditional culture.

## 2.3 The comparison and analysis of batik and tie dyeing application in garment design

As far as artistic style is concerned, batik pattern is more realistic, relatively concise in shape, and has rich expressive force in clothing design; tie-dyeing pattern belongs to simple artistic style, with changeable patterns, batik and tie-dyeing are mostly white and blue in the use of color, but tie-dyeing is the primary color in all knots. Batik dyeing pursues the principle of full but not disorderly pattern structure, and pays attention to symmetry and unity in pattern composition. Applying the unique "ice pattern" in batik to garment design can fully show the unique aesthetic feeling of batik process. Batik dyeing technology pays attention to the overall clothing effect and pays attention to nature.

Tie-dyeing process in clothing design mostly uses white and blue, the pattern is simpler, which could add more simple meaning for clothing. Batik dyeing and tie dyeing are widely used in garment design, and then different types and styles of garments are designed. Batik dyeing technology can provide abundant batik patterns for clothing design, which have strong national color, rich patterns, and obvious artistic characteristics of images, which can enhance the artistic flavor of clothing design.

In tie-dyeing process, the pattern is lively and the color transition on tie-dyed fabrics is more, so it has a sense of hierarchy and can show a more lively and dynamic fashion design style. Through the combination of modern high-tech digital printing technology and traditional batik and tie-dyeing technology, the patterns produced are mostly irregular graphics, which have the characteristics of bright color, natural lines and distinct layers, making clothing more fashionable on the whole.

## 3. Innovation of traditional tie-dyeing and batik technology in garment design

### 3.1 Innovative development of traditional batik dyeing

In the traditional batik process, the main pattern are two-way continuous, the overall pattern is concise and generous, in the use of this pattern in the overall garment design, it is necessary to fully consider the display effect of the large pattern itself. However, the current fabric in China is mainly plastic structure, which is not conducive to the full display of traditional batik technology under the influence of pattern integrity. Therefore, in the overall design process, we should fully take into account the overall clothing material for the final effect of the pattern presentation, but also fully

demonstrate the development of traditional batik technology.

### 3.2 Innovative development of traditional tie dyeing

In modern tie-dyeing technology, the main innovation lies in the innovative design of patterns and dyeing methods. In the process of modern clothing design, tie-dyeing technology can construct a brand-new artistic charm and aesthetic feeling of clothing. At present, the development of fashion design in the world presents a variety of development characteristics. Firstly, the overall tie-dyeing process shows a diversified trend of development, and secondly, the modern tie-dyeing process has a more beautiful pattern. Modern tie-dyeing process technology can be combined through bold colors in fashion design, thus promoting the overall innovation of the whole fashion design.

### 4. Conclusions

With the continuous development of modern clothing design, tie-dyeing and batik dyeing have begun to be integrated into the lives of people's life, traditional handicrafts of tie-dyeing and batik dyeing also have corresponding characteristics of the times, allowing the development of traditional Chinese handicrafts in modern society. It is also becoming more and more colorful. Tie-dyeing and batik dyeing are both important contents of traditional handicrafts in China, and also the essence of the development of traditional culture in China. They have unlimited vitality and vitality in the overall history of China's development. However, due to the simplicity of the traditional handicraft tie-dyeing technology, it has caused its practical value in the process of modern art development, and it can continue to carry out itself in accordance with the development of the aesthetic of the times. In view of the application and innovative practice of tie dyeing and batik in modern clothing design, it can also promote the different styles of our current fashion design to a certain extent, which has certain practical significance.

### Acknowledgement

Horizontal Project of School-Land Cooperation in Hexi University: Research on Outdoor Goods Design of Xinjiang Desert Tiger Off-road Automobile Club Co., Ltd H2018051

### References

- [1] She Qiaoxia. *Rendering effect of printing and dyeing techniques on the style expression of batik and tie-dyeing art patterns* [J]. *Dyeing and finishing techniques*, 2017, 39 (5): 81-83.
- [2] Liu Xiang. *The application of traditional tie-dyeing in modern fashion design* [J]. 2017 (2): 65-69.
- [3] Wang Huabin. *Research on Chinese traditional culture elements in handmade printing and dyeing art*[J]. *Dyeing and Finishing Technology*.2017 (06)