

## Design and production of decorations based on silk carpet

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**Keywords:** traditional silk carpet technology; re-design; innovation.

**Abstract:** Traditional silk carpet craft is one of the outstanding heritage of our Chinese traditional culture, and its artistic style and artistic concept are very strong. This article discusses the research of traditional craftsmanship and applies it to new modern design. Search for the unique charm of traditional handicrafts by searching relevant historical materials and documents. This article mainly studies the traditional silk carpet craftsmanship. Starting from the artistic and cultural value of silk carpet craftsmanship, through research and redesign, the essence can be taken to create new contemporary design products with historical charm.

My country is a big country with more than 5,000 years of cultural heritage. In the development and progress of the times, the traditional silk carpet culture is gradually fading out of our perspective. Therefore, modern design must give the design products a historical and cultural imprint, inherit traditional culture while learning and absorbing foreign culture, while designing works, continue to apply traditional advantages, and give traditional crafts new vitality. Modern design can become a bridge between tradition and contemporary culture, and constantly exert regional culture.

### 1. The continuation of traditional silk carpet skills and artistic value

#### 1.1 The continuation of traditional silk carpet skills

Traditional silk carpets have very strong cultural and artistic values, which need to be protected. Traditional craftsmen are the inheritors of traditional skills and the bridge to pass on traditional skills and culture. It is their perseverance that traditional silk carpet skills can become the intangible cultural heritage left by the ancestors for generations. It cannot be compared with money. Of wealth. Because the traditional silk carpet production process is complicated and purely hand-made, a perfect silk carpet is made by using silk to weave through more than 20 processes, which has the characteristics of high cost and low output.

The production of traditional silk carpets is very complicated, generally divided into three stages: early, mid and late. Pattern preparation and material preparation are required in the early stage. In this link, brushes, rulers, stitching machines, dehydrating machines, etc. are needed. The designer discusses the theme elements together and draws them on the drawings, and then makes a big draft based on the drawings. After the completion of color marking, according to the common color of the carpet, dozens or even hundreds of colors are labelled and sorted out. In terms of materials, mulberry silk is the most commonly used material. Select the best mulberry silk and process it into silk thread degumming, and then dye and match colors. The middle stage is the forming process, which is the key link of the silk carpet. The mulberry silk that has been sorted in the early stage is warped (hanged), stretched, and drawn. Then we make the base, wrap the edges according to the method of plain weaving, and draw the artwork with paint, and weave with dozens of colored threads according to the pattern. In the later stage, the silk carpets that have been woven are trimmed, including flat wool, carpet washing, film cutting, carving, finishing and storage.

#### 1.2 The artistic value of traditional silk carpets

The decorative effect of traditional Chinese silk carpets is mainly reflected in traditional customs and ordinary people's daily lives. It is people's desire for good luck at that time. Many patterns such

as characters, animals, flowers, plants and other elements are outlined with simple and beautiful lines. Come out, symbolizing a beautiful meaning. In order to express the ideal meaning, its patterns are blended with the religious beliefs, myths, and traditional customs of the time and processed by a variety of artistic techniques. The decorative patterns of silk carpets have very strong regional and cultural characteristics. Due to the unique geographical environment and the influence of their own ethnic groups, different ethnic styles are formed. The art combines traditional crafts with modern art, so that Eastern elements and Western styles complement each other, showing a unique artistic charm.

For example, Gansu Tianshui silk carpet is a work of art that gathers artistic and cultural values. Because of its special geographical environment, it is one of the gates of the ancient Silk Road. Its handicrafts are rich in Western culture and the characteristics of the Central Plains. The main patterns are generally composed of group flowers (Figure 1), box flowers, etc. The patterns are mainly cranielle flowers (Figure 2). The large sides are decorated with seawater and river cliff patterns, and the small sides are mostly T-shaped patterns and crutch patterns. The pattern materials are drawn from various elements such as Persian carpets, figures, traditional patterns in the Central Plains, and geometric patterns in bronzes. The colors are mostly royal blue and purple, which contain the meaning of wealth, auspiciousness, and peace.<sup>[21]</sup>

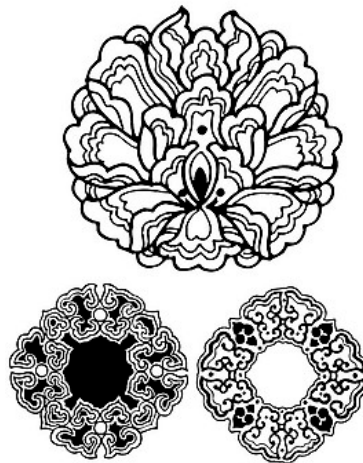


Figure 1 Regiment pattern



Figure 2 Kidney pattern

## 2. Inheritance and development prospects of modern silk carpet technology development

### 2.1 Development and application of foreign silk carpets

Nowadays, foreign silk carpet technology has a certain scale of development. Through thousands of years of cultural foundation and the cultural communication brought about by the Silk Road, a series of famous overseas crafts such as Persian silk carpets have appeared in Western silk carpets, such as Persian tapestries. Different styles and types of wall hangings such as, Arabic tapestries. Take the Persian silk carpet as an example. From the perspective of material quality, today's Persian silk carpet (Figure 3) adds a series of local unique materials such as wool, cotton, and gold silk on the basis of silk weaving. And superb Persian tapestries. In Southeast Asia, India first invented a series of complex dyeing techniques, and their hand-dyed wall coverings and curtains occupy an

important position in the world. In the Middle Ages in Europe, wall hangings were vigorously developed. Until the present time, the important decorative element of wall hangings has always been painting. Silk carpet wall hangings are well-known overseas for their ingenious weaving craftsmanship and grand scale. In terms of patterns, Persian silk carpet wall hangings are more composed of geometric patterns combined with each other, and are matched with gorgeous colors such as green, red, and yellow to form patterns with contemporary regional characteristics.

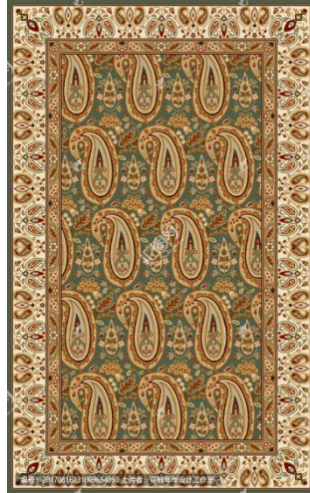


Figure 3 Persian silk carpet pattern

## 2.2 Development History of Domestic Silk Carpet

From the perspective of patterns, weaving texture is the earliest and only element in the decorative patterns of pottery in the primitive period of our country. For example, Jomon, basket, grid, net, herringbone, etc. are found on pottery in the upper and middle reaches of the Yellow River. Imprint. In the 3rd century BC, my country was called the "Silk Country" due to the large number of silkworms being raised and reeled to make silk fabrics. For thousands of years, with the continuous development of textile technology, our country not only has exquisite silk, wool, hemp and printing and dyeing handicrafts, but also created the weaving technology of passing warp and weft, and its craftsmanship expresses the content of painting. The level of sophistication has amazed the world. Chinese carpets have a long history like Persian carpets and enjoy a high reputation. Smart Chinese craftsmen have absorbed the essence of foreign countries, coupled with continuous innovation, using mulberry silk as the raw material to produce high-quality pure silk Persian-style carpets and tapestries.

The production process of silk carpets is roughly the same as that of wool carpets, except for the preparation and post-processing of raw materials. The silk must be simmered first, that is, the raw silk is immersed in an alkaline solution to remove the glue on the surface of the silk fiber and become a cooked silk. Generally, 27 cooked silks are twisted into a strand, which is dyed with acid dyes to become the raw material for flocking. The mid-range products of silk carpets use fine cotton yarn as warp and weft, while high-end products must use silk as warp and weft. Silk carpets all over the world use the process of drawing and planting pile, which is convenient for folding and storage. The post-processing of the silk carpet uses machine levelling and carpet washing. To wash the carpet, use a neutral detergent instead of a strong oxidizer for mercerizing. Chinese antique silk carpets must be cut into pieces and arranged decorative patterns, while high-end silk carpets generally do not need to be cut. In terms of artistic style, the colors and patterns of silk carpets in my country not only inherited the plum, orchid, bamboo, chrysanthemum, and auspicious patterns in traditional calligraphy and painting, but also created new modern design images. Due to the extensiveness and diversity of silk carpet development, after several years of changes, traditional Chinese patterns and Persian patterns continue to blend, resulting in new patterns that are both artistic and contemporary. Secondly, fashion and trend elements continue to emerge, and the images of silk carpet wall hanging crafts are gradually combined with real life. For example (Figure 4), geometric elements are used to form interesting graphics in an orderly pattern and repeated

arrangement.

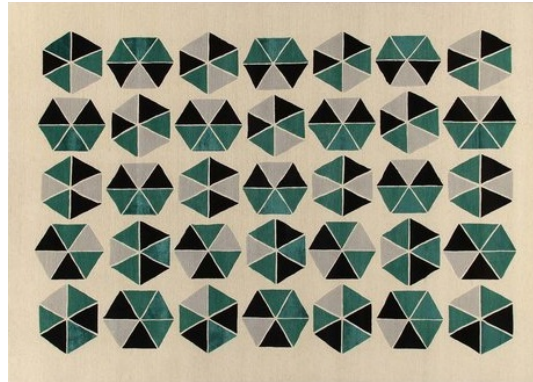


Figure 4 Modern silk carpet

### 2.3 Silk carpet technology and direction

The modern silk carpet technology has also undergone some improvements. The silk embossed weaving technique uses the hand-woven "8"-shaped twisting knotting and planting method. The production of silk woven high-relief tapestry is quite strict in the selection of silk threads. 60 natural tussah silk yarns are used as raw materials. Because 60 tussah silk yarns are elastic and have good stiffness, they meet the requirements of embossed art tapestry technology. The processing process of tussah spun silk is spun through the main processes of sorting, scouring, cotton making, woollen spinning, twisting, plying, singeing and so on. The production process of silk embossed art tapestry adopts 120~200 hand-planted "8"-shaped weaving process. This process technology can fully weave the thickness effect required by the embossing process, which is very suitable for the cutting and carving process. Rug weaving is one of the main processes in tapestry production. The task is for the carpet weavers to use special hand tools and machine beam equipment, use cotton warp threads, spun silk threads and other materials, in accordance with certain pattern design requirements and quality requirements, and process regulations and techniques. The method of operation is to change the shape of cotton thread, silk thread and other materials to weave a semi-finished artistic tapestry.

On the basis of the traditional silk carpet decoration technology, we can combine the techniques of brocade and embroidery to create auspicious pattern carpets with rich cultural heritage and artistic connotation. Silk carpet decorations and craftsmanship exudes its own unique charm in the hands of craftsmen. Nowadays, it is not only necessary to develop traditional crafts, but more importantly, to inherit and innovate this traditional craftsmanship and develop it to the younger generation. Through them, silk carpets are decorated. Carry forward. At the same time, for the unique silk carpet technology, only continuous innovation can make this technology have its own vitality. The silk carpet craftsmanship is complex, the manual costs and raw materials are expensive, and the production cycle and cost are very expensive. Therefore, only through the re-innovation of silk carpet technology can its skills and culture be better promoted.

## 3. Combining traditional silk carpet skills with modern design

### 3.1 Application of new technology in traditional silk carpet skills

The application of new technology in silk carpet technology mainly includes relief technology and programming technology. Among them, the embossing technique makes the original flat silk carpet more three-dimensional, and the stylized craft can present a more realistic and intuitive artwork. Take the stylized craftsmanship as an example. It was created by the famous craftsman Li Yukun, drawing on the best of others to create new weaving crafts, original stylised craftsmanship, and the world's first ultra-realistic modern art wall hanging designed with traditional Chinese silk carpet techniques. Artistic charm and superb craftsmanship entered the palace of Western art and became a wonderful flower in the forest of world art.

### **3.2 Fashion colors applied to traditional silk carpet decoration**

Color is a very important artistic element. It can reflect the cultural charm and highlight the cultural color. The color performance of different graphics, whether it is Arabic or traditional Chinese auspicious colors, infect and decorate life with its own unique charm surroundings. The "soft gold" silk carpet craft, known as the traditional Chinese craft, is famous all over the world for its bright colors and exquisite craftsmanship. The silk carpet technique has gone through from ancient times to the present and has been continuously evolving in the long river of history. The silk carpet has a special texture and bright colors. In order to continuously innovate traditional craftsmanship, the author conducts continuous research on the original silk carpet decoration. The survey found that in the color system of silk carpet decoration, the color scheme of traditional Chinese silk fabrics continues to be used, and most of them use colors with bright contrast and relatively high purity, such as white, red, brown, blue, and green. , To highlight the gorgeousness of silk carpets [8]. Many silk carpets were designed for royal nobles, so most of them were bright colors such as gold and yellow. The use of these colors reflected the social hierarchy and popular style of the society at that time.

But blindly inheriting without innovation is difficult to grasp the aesthetic needs of modern people, so it is particularly necessary to introduce fashionable colors into the traditional silk carpet decoration process. First of all, the color of the silk carpet wall hanging, and its appearance and structure decoration must be suitable for the environment where it is located, and the size must also be moderate. For example, in Mediterranean-style home decoration, the tapestries at this time can no longer be traditional colors but must introduce certain fashion elements. Mediterranean style is one of the styles widely used in home decoration design today. The beauty of Mediterranean style. Including the bright colors of "sea" and "sky", white walls that seem to be washed by water, the aroma of lavender, roses, and jasmine, the colors of blooming flower fields along the road, historic ancient buildings, and the interweaving of khaki and red-brown The strong national color of the result. The color of Mediterranean silk carpet is a typical Mediterranean style, which can play a role in setting off the internal environment of home decoration.

### **3.3 Combination of modern design and traditional decoration**

The silk carpet technique is the crystallization of the working people in our country. In modern design, works must be constantly innovated to be able to cater to the aesthetics of contemporary people. First of all, the inheritance of ancient patterns and continuous innovation on this basis must have a certain era. Economic progress will inevitably lead to the continuous evolution of traditional patterns to a series of new styles of decorative patterns. New innovative patterns must be inherited from the local Based on the elements, it absorbs inspiration from the current life scenes to create fresh and simple and new colors. In form, contemporary decorative patterns not only inherit the balanced distribution of structural pattern elements in traditional silk carpet decoration, but also derive new structures and styles based on the continuous two-sided and four-sided continuous basic forms. These applications are more colorful.

Secondly, the modern geometric frame patterns also have relatively large innovations. Its geometric skeleton pattern is different from the previous pattern used as an auxiliary and supporting main body. The new pattern is based on the original geometric pattern, and new pattern materials are added to the skeleton. The geometry and the landscape are in harmony with each other, so that the pattern has a new sense of space and is in harmony with the sense of plane.

Thirdly, with the continuous improvement of social material conditions, this huge innovation has also occurred due to the influence of people's different levels of aesthetic needs. Contemporary life is more and more changeable, showing a trend of diversification and diversification. As a silk carpet decoration, its artistic connotation and cultural richness are better, and the craftsmanship is complex. It is not only for the pattern decoration itself, but also through certain techniques. Pattern decoration conveys a special emotion to the audience, so the traditional pattern must be changed. For example, the popular Western abstract style wall hangings, through the expression of different points, lines and colors, are vividly expressed on the silk carpet. Through elements such as buildings and plants.

Innovate new comprehensive patterns, showing lively and rhythmic silk carpet crafts. Compared with realistic patterns, abstract theme patterns can bring more space for imagination, thus obtaining unexpected artistic meaning.

#### **4. Conclusion**

My country's silk carpet technology has been in the Western Han Dynasty for more than thousands of years. In the process of modern design, it reflects the cultural connotation and spiritual characteristics of silk carpet decoration technology, and investigates and analyzes the selection of appropriate patterns, colors and techniques, and then uses modern aesthetic concepts Harmony design techniques give it cultural vitality in the new era, introduce contemporary new crafts into the design, continue to inherit and redesign. Through in-depth observation, combing of traditional decorative arts and analysis of contemporary design, colors and techniques absorbed the essence of traditional silk carpet culture, designed and produced "Fan Die II-Pupa", feeling the artistic connotation and culture of silk carpet culture Connotation, so as to obtain more vital silk carpet artwork.

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