

# Analysis of Ru Porcelain Culture Exhibition Hall Design

Haoming Li \*, Zhou Zhang, Haoyu Liu, Yao Li

School of Art and Design, Wuhan Textile University, 430074, China

**Abstract:** As the leader of the five famous porcelain in the Song Dynasty, Ru porcelain played an irreplaceable important role in the history of ceramic development in China. In order to publicize the traditional culture of Ru porcelain, according to the characteristics and development stage of Ru porcelain, combined with digital innovation concepts and the means of combining traditional and modern science and technology, the design of Ru porcelain culture pavilion was carried out. Make people feel warm and at home while enjoying the works, realize energy saving and temperature control through digitalization, control humidity, temperature and lighting according to the flow of people in different areas, and realize the optimal plan through the simulation path, so as to make the entire venue intelligent, information and data.

**Keywords:** Ru Porcelain; Exhibition Hall Design; Humanization; Digital Innovation.

## 1. Establishment of Topic Selection

In the history of ancient Chinese ceramic science and technology, Ru porcelain as the leader of the five famous porcelain in the Song Dynasty, occupies a particularly important position, it began to burn in the middle of the Tang Dynasty, the Northern Song Dynasty has become famous in the world, because it is produced in Ruzhou City and got its name, there has long been a "Ruhe River on both sides of the landscape, everywhere fire" noun verses, [1] is one of the famous traditional Chinese porcelain manufacturing processes.

Ruzhou is located in Henan province, the origin of Ru porcelain, which is very close to the author's hometown, so it is convenient to carry out field investigation. Therefore, I want to design a pavilion to publicize Henan Ru porcelain culture. Contemporary exhibition space design is based on a solemn and solemn style, lacking a little life atmosphere, modern people's fast pace of life, there is no time to calm down to appreciate things, how to let modern people calm down in their leisure time, savor the essence of our traditional culture, this is my pavilion design needs to think about the problem.

## 2. Design Principles of Ru Porcelain Culture Exhibition Hall

### 2.1. Artistic Principle

In his architectural phenomenology, Norberschutz mentioned that if people want to get the feeling of "the foothold of existence" or settle down in a place, they need to satisfy two basic functions of the spirit: the sense of direction and identity. Therefore, the exhibition design should be artistic.

### 2.2. People-oriented Principle

The exhibition hall planning without the audience has no meaning of existence, the audience is also the exhibition hall to establish the need for targeted services in the group, the multimedia exhibition hall in the exhibition display is necessary to establish their own service concept: the exhibition hall designer suggests that all the audience as the center. Accordingly, it is necessary for Ru porcelain

exhibition hall planning to have appropriate foresight in the use of skills.

### 2.3. The Principle of Focusing on Key Issues

First of all, the construction of the pavilion should be simple and distinctive, so as to give visitors a deep impression in a short period of time. Ordinary people can only accept limited information in an instant, and visitors walk in a hurry. If they cannot obtain clear information in an instant, visitors will not be interested. It should be noted that too much focus is easy to distract the attention of visitors and weaken the overall impression, so in the early planning, you can use a separate display, the use of lights to highlight and emphasize key exhibits.

## 3. The Analysis of Ru Porcelain Culture Exhibition Hall Design

### 3.1. Design Overview

The purpose of this paper is to display and publicize the traditional culture of Ru porcelain, to make people feel it more easily by joining the experience area, to draw the distance between Ru porcelain Exhibition Hall and people's life, to break the disadvantages of the existing exhibition hall, and to integrate the exhibition hall with science and technology, so that the exhibition hall is full of humanization and wisdom. In the design of Ru porcelain pavilion, the life and technology are combined, the pavilion is combined with digital innovation, through the change of light and shadow to give the works in the pavilion different emotions, through the digital to achieve energy saving and temperature control, through the simulation of the path to achieve the optimal solution.

### 3.2. Design Concept

In recent years, China is in a period of gradual return of traditional culture and increased national confidence. This project takes New China Zen as the theme. In the classical elegance and modern style of Chinese style fashion elements, new Chinese style is the fusion and collision of Ming and Qing furniture and modern aesthetic, creating new Chinese Zen style, better continuation of local culture, adding immersive experience area, creating an open space, and bringing visitors a new experience.

Combining life with science and technology, combining the exhibition hall with digital innovation, giving different emotions to the works in the venue through the change of light and shadow, realizing energy saving and temperature control through digitalization, controlling humidity, temperature and lighting according to the flow of people in different areas, and realizing the optimal plan through the simulation path, making the entire venue intelligent, information and data. The venue will show different colors and light and shadow changes according to the relationship between the painting and the field.

### 3.3. Overall Solution Analysis

#### 3.3.1. Design Inspiration and Location Analysis

Since ancient times, Henan has been a gathering place of history and culture and a place where ancient capitals of many dynasties have changed. This land has witnessed the rise and fall of the land of China, and many writers have expressed their emotions here. In China, which is developing so fast, and today, when happiness cannot keep up with the pace of life, how to slow down our pace and follow the removal of the soul is the source of inspiration for the design of this case. This case hopes to display not only Ru porcelain through the exhibition hall, but also let everyone slow down the pace, enjoy life, and participate in the fun. The project is located in Ruporcelain Town, Ruzhou City, Pingdingshan City, Henan Province. Ruporcelain Town is a key experience area combining traditional business and ancient city style, with strong cultural flavor. The local production of Ru porcelain has been thousands of years, rich experience, is a famous Ru porcelain culture in China, the establishment of Ru porcelain culture pavilion here is the best place.

#### 3.3.2. Traffic Flow and People Line Analysis

The location area is moderate, and the nearby crowd is dense, which is easy for people to watch. For the area of making Ru porcelain, the more people, the better the business, which is conducive to income generation. In this area, pedestrians account for 27%, motor vehicles account for 25%, and electric vehicles and bicycles account for 48%.

#### 3.3.3. Plane Analysis and Human Line Analysis

The plan is determined, and the functional areas include handicraft Ru porcelain exhibition area, Ru porcelain tea set exhibition area, landscape area, production area, artist studio, and toilet. Through the division of different areas, the venue is orderly, the original plan road and placement are adjusted, and the planning is more reasonable through the analysis of the path. On the basis of the plan establishment, the Renren line analysis is carried out. The human nature line is divided into multiple nodes, so that people can easily plan the line while watching the exhibition and reduce the number of returnings.

#### 3.3.4. Design of Ru Porcelain Exhibition Area

(1) Ru porcelain exhibition area and small interior landscape design scheme

Take a cup of tea, let the fragrance wash away the floating dust, and let the sun move between the indoor scenery in the quiet time, outline the flowing ink and blue, add the bamboo forest element on the left side of the entrance, add the welcome pine on the right side, people who love traditional culture, will be influenced by the ancient literati, especially in the aspect of dignity, just as Su Shi said, "it is better to eat without meat than live without bamboo". Now many people take this as a creed, the construction of indoor landscape

naturally inseparable from plants, bamboo leaves in the light of the bamboo shadow swaying to bring beautiful light and shadow effect to the interior, these porcelain bamboo leaves appear particularly harmonious in the Chinese space, here is the paradise of literati.

(2) Ru porcelain tea set area hand-painted design scheme

Through the quick expression of hand-drawn exhibition venue planning appearance, and the establishment of supporting indoor facilities, starting from the source of design to analyze the program and the performance of the effect, so that people immersive.

(3) Function expansion

After the handicraft Ru porcelain visiting area, interior landscape, Zen culture wall, we can see the artist's studio in the function expansion area and the Ru porcelain production area, where artists make Ru porcelain professionally for everyone to watch and increase the interest of the exhibition hall. In Eastern culture, indoor landscape is often used as a supplement and extension of people's life. People's pursuit of natural interest is reflected through it. This node design is mainly based on the structure of the exhibition hall, through the form of "public art + platform" and "hands-on production + design" to deepen the understanding of Ru porcelain culture, attract the public to develop the experience of "Ru porcelain culture" around the production, and it can also serve the surrounding community and become a good place for daily leisure.

The design gives the correct planning of the exhibition hall for the rationality of the space through professional methods. The real design is not simply to design a work, but to integrate the design into life, so that the design full of humanity becomes a beautiful way of life, so that people can enjoy life and feel the charm of the designer.

### 3.4. Design Innovation --Add Digital Innovative Design

Combining life with science and technology, combining the exhibition hall with digital innovation, giving different emotions to the works in the venue through the change of light and shadow, realizing energy saving and temperature control through digitalization, controlling humidity, temperature and lighting according to the flow of people in different areas, and realizing the optimal plan through the simulation path, making the entire venue intelligent, information and data. The venue will show different colors and light and shadow changes according to the relationship between the painting and the field. When no one is watching, the mood box in the stadium will breathe quietly; When a spectator approaches, the mood box in the stadium will provoke a response to the spectator, either happy or calm or excited. Venues can be both elegant and modern, and at the same time can be transformed into digital interactive art works with artistic healing effects.

## 4. Summary and Prospect

The design of Ru porcelain exhibition hall is based on the characteristics and development stage of Ru porcelain, combined with the concept of digital innovation, the use of traditional and modern technology, the design highlights the characteristics of humanity, so that people feel warm and at home while appreciating the work; Through digitalization to achieve energy saving and temperature control, according to the flow of people in different areas to control humidity, temperature and lighting, through the simulation of the path

to achieve the best plan, so that the entire venue intelligent, information, data. Most of the current well-known pavilions have been reduced to tourist sites, and few are really pursuing the spirit of traditional culture. The original intention of this paper and design is based on the emotion of the current situation of Ru porcelain culture in Ruzhou City, hoping that the public can have more understanding of Ru porcelain culture. However, there are still many shortcomings in the design of Ru porcelain pavilions currently made, which is based on the shallow understanding of traditional culture. The application of modern technology to the design of the exhibition hall is still not skilled, and because the innovation ability needs to be further improved, the content of the paper has many shortcomings, and it is open to future revision and exploration.

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