

Combining discharge and thermal transport methods on metal surfaces as an entry point for the development of contemporary metal ornaments

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Abstract:

The artistic methods of decoration and color processing on metal surfaces are one of the methods inherited in the field of metal works from the age to the present, which is witnessing many technological developments. This development creates a range of digital methods and technologies that show the ingenuity and ease of expressive and technical performance to develop contemporary metal works.

With the change in digital printing arts, thermal transport technology on metal surfaces has been able to offer us modern and expressive industrial works as a unique technique in the nature of the ores and tools used. This technique has been used in the work of armor, copper dishes, and aluminum dishes and medals as a kind of souvenir that makes the artist design and creates many distinctive ideas and designs that compete with the labor market and produce small and micro projects. Thermal transport on metal surfaces is characterized by accuracy and high quality. This process is done in a few minutes where time and heat are controlled according to the product you want to produce. The tendency to use computers in digital thermal transport systems has increased which increases the degree of color control and thus the high efficiency of printing and increase the clarity and consistency of colors. Thermal transport is a type of digital printing that translates the digital system and a transfer to the printing system that plays a cycle in the transfer of printing to the ores on which it will be printed. It is a machine engineered to design or draw on flat ores while applying heat and pressure for a predetermined period.

Although heat presses are often used to apply designs to fabrics, they can also be used to transport designs on flat surfaces such as paintings, wood, metal ores (copper and aluminum, and others) with processing the surface of the material to be printed on.

This method is known as metal printing or sublimation on aluminum. It is a new and sophisticated method of modern forming methods, sublimation is the transition process of the

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