

CASE STUDY

A cut above the rest

Client: Teseo Spa

Location: Grandate, Italy

Product(s) supplied: [PT-VX610](#)

Challenge

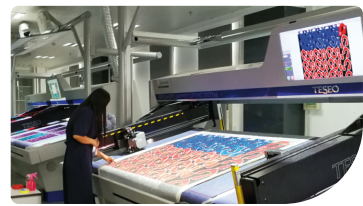
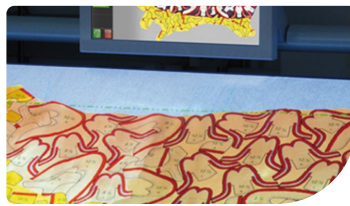
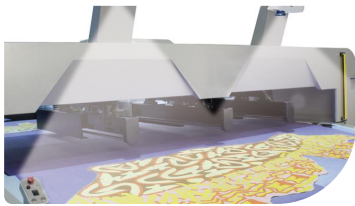
How to incorporate new technologies within established production methods for working and cutting leather.

Solution

The innovative use of Panasonic projection technology allows Teseo to directly reproduce patterns on to the leather prior to cutting.

"We developed a method to adopt video projection to assist the cutting process, avoiding waste and optimising productivity. We have found that this has produced very satisfactory results."

Giorgio Folicaldi
Teseo Spa



Since 1987, Teseo has developed tools and solutions for cutting leather that are used by clothing and footwear manufacturers and in furniture and car production.

Their aim is to make production more efficient by implementing new technologies and flexibility, matching the requirements of their customers who demand greater customisation in the product.

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"The way we adopted the use of the Panasonic PT-VX610 video projectors," says Giorgio Folicaldi of Teseo Spa, "is certainly out of the ordinary compared with their normal use. They are placed in a vertical position and project shapes and outlines onto the piece of leather.

"The primary aim is to accurately determine the position of the pieces of leather to be cut so they can be cut out virtually using the projection."

"We are speaking about a method that could be applied to any number of sectors, not just those that work with leather."

In a process similar to video mapping, the video projector defines the outlines using the digital image provided by the CAD software. Instead of displaying the prototype using video, the operator can observe placement directly on the skin before starting the cutting phase.

"This stage is crucial, particularly because it helps avoid excess waste and makes it possible to check everything by laying out the raw material before starting to cut," adds Giorgio. "It provides real assistance and is very convenient to use.

"In addition, the projection proves useful for projecting various colours onto the leather to show the various quality grades of the leather: This is also important for allowing accurate and precise outlining of the different qualities of that portion of the leather.

"Video projection plays an essential role, as it provides the operator with numerous benefits that lead to greater productivity and a lower risk for error."

"Lastly, the video-projection system helps operators to collect the cut sections. Once the cutting operation is completed, it is sometimes difficult to initially recognise the various pieces with the naked eye, as they are often very similar in appearance.

"The projection displays colours and text on the leather, making this sorting procedure significantly easier. This means video projection plays an essential role, as it provides the operator with numerous benefits that lead to greater productivity and a lower risk for error.

"We are speaking about a method that could be applied to any number of sectors, not just those that work with leather: This ranges from leather-covered furniture and clothing products to internal fittings for cars, including seats, dashboards, door linings and accessories."

"We have also found the quality-to-cost ratio extremely beneficial."

"As for choosing Panasonic," adds Giorgio Folicaldi, "We can confirm the company's product is highly reliable:

An industrial environment is typically hard on this category of products, much more so than a standard indoor environment. An industrial building has a vast amount of dust; and in our case, leather particles are released during cutting. We have also found the quality-to-cost ratio extremely beneficial.

"Panasonic PT-VX610 projectors, specifically the number of projectors installed on machines and how they are connected, etc., have properties suitable for our work requirements.

"Among all of them, the brightness level and resolution provide operators with comfortable working conditions. This is another very important aspect. Good colour resolution is also an essential feature.

"So it is vital the projected images do not flicker, because this results in an unsatisfactory displayed image and is harmful to both the operator and the cutting operation itself. This equipment will naturally contribute to accurate and flawless processes.

"We are very pleased with our choice, and everything has been operating as it should so far."

"Operation of the projector is also an important consideration, as it's in use for around 10 hours a day. It must provide top-quality, highly reliable service, suitable for an industrial environment. Any machine shutdown caused by a fault would significantly reduce productivity. We are very pleased with our choice, and everything has been operating as it should so far."