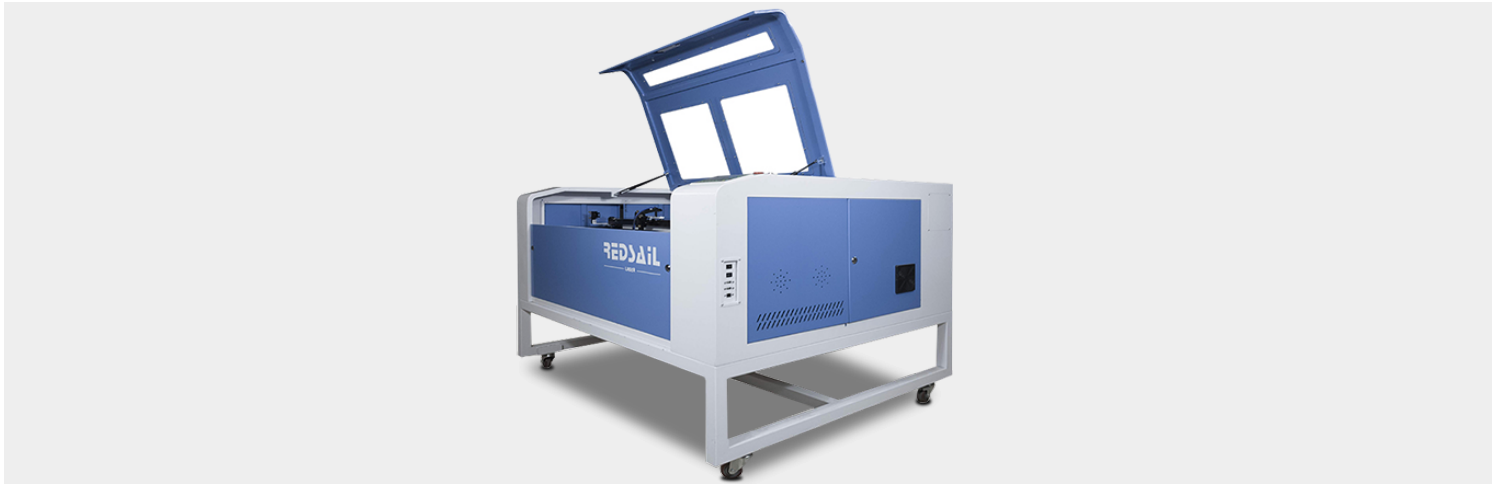


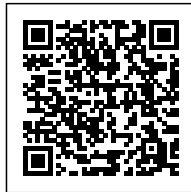
CO2 LASER CUTTING MACHINE QUICKLY CUTS FILM AND FOIL

Posted on 2023-06-27 by redsail



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How does [laser cutting](#) of foil and film work?

The controlled fusion of materials ensures clean cut edges without smudging. Lasers offer many advantages when processing multilayer films: Multiple layers such as backing, adhesive and top film can be cut in one work step. Composite materials can be cut in up to 10 layers, depending on the layer structure and the strength of the film.

Car Dial Laser Cutting

Why do I work faster with a laser than with a plotter?

Exactly matched axis drives and an innovative control system ensure precise and fast laser cutting with LESER laser equipment. Unlike plotters, there is no material resistance when using a laser. Therefore, laser cutting is faster. Another advantage: The laser beam doesn't need to be lifted or rotated like a knife. Trotec laser systems take full advantage of this in terms of speed and detail, especially when dealing with fine geometries.

Is it necessary to secure the material to the work surface?

No, not manually. For best cutting results, we recommend using a vacuum table. This ensures that thin or wavy materials lie flat on the table, just like laser cutting. No pressure is exerted on the material during laser cutting of foils and films; therefore no clamping or any other type of fixing is required. This saves time and money during material preparation and, last but not least, prevents material from breaking. All these advantages combine to make the laser the perfect machine for cutting foil and film.

Car Dial Laser Cutting

Need special accessories for precise laser cutting of foil and film?

Vision cameras are a great helper when customers want to deal with printed products. The software developed in-house by Lesser allows perfect contour cutting of printed materials. As a result, even flexible materials such as banners and flags can be cut with absolute precision. Time-consuming positioning is eliminated, deformations in the impression are detected, and cutting paths are

dynamically adjusted. By combining an optical registration mark inspection system with a Trotec laser, you can save up to 30% on process costs. Cutting dies are cost-free to manufacture, maintain and store. Furthermore, absolute flexibility of work is ensured, with the shortest possible response to any changes in the design.

What are the thin film laser cutting materials

Cutting films and foils with a CO₂ laser system represents a quantum leap in the quality of existing production processes

Laser beam can control the fusion of foil and film

Laser produces clean and sealed cut edges

Laser can precisely cut even the smallest radius

The laser can cut simple geometries at record speed

The laser is non-contact and does not exert pressure on the material

Laser consistently produces flawless results

Laser will not cause the paint peeling off of the final product

Advantages of Laser Cutters: Faster than plotters, more precise than dies, and more economical for small batches of up to 1,000 pieces.