

CATALOGUE OF SERVICES

# CONVERTING







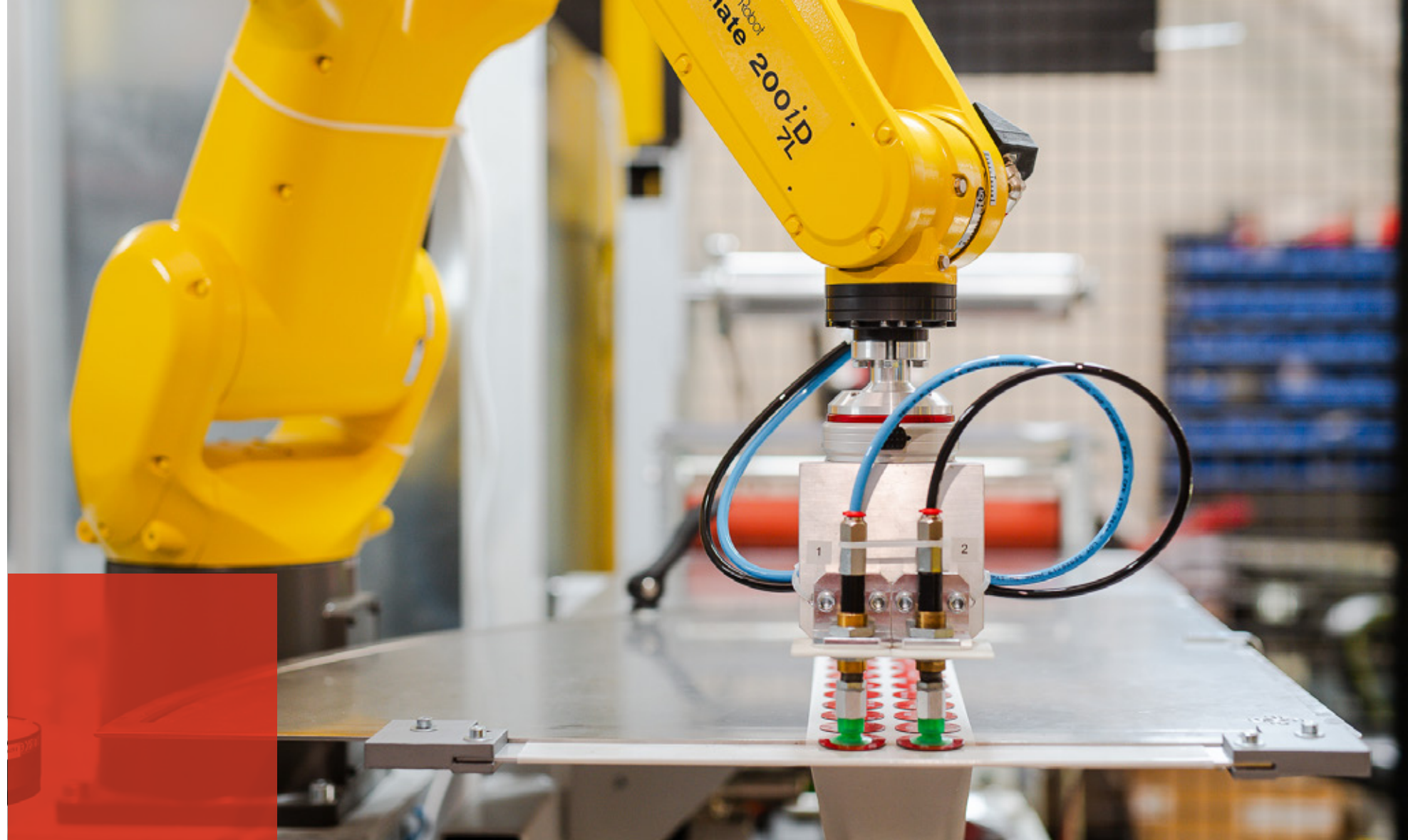


# CUSTOM DIE-CUTTING SERVICES

## UNRIVALLED ACCURACY WITH EVERY CUT.

Revolutionize your manufacturing process with **customized die-cutting solutions**.

At the company **OLEJÁR**, we specialize in **custom die-cutting services** that offer **unparalleled accuracy and adaptability** to meet unique needs of each project. Our state-of-the-art technology and team of experts ensure that every die-cut demonstrates our commitment to excellence.



## 1 All-round capabilities

We have available **advanced rotary, flat and laser die-cutting technologies**. Our versatility allows us to offer customized solutions for a wide range of materials including foams, adhesives, plastics and others.

## 2 Advanced Engineering

Having the right equipment is part of the equation. Another big part is knowing how to use it. Our **advanced engineering team** is capable to assist you with the design of manufacturability, with selection of materials, cost vs. benefit analysis, and much more.

## 3 Accuracy and precision

Our die-cutting services are renowned for their **accuracy**. We are able to deal **with complex designs and intricate shapes**, ensuring that every part meets **strict quality and tolerance standards**.

## 4 Customized for your industry

Whether you are in the aerospace, automotive, healthcare, electronics or other industries, our custom die cutting services are designed to meet **your specific requirements and ensure optimal performance and efficiency**.

## WE OFFER (CATEGORIES)



Die-cutting



Kiss-cutting



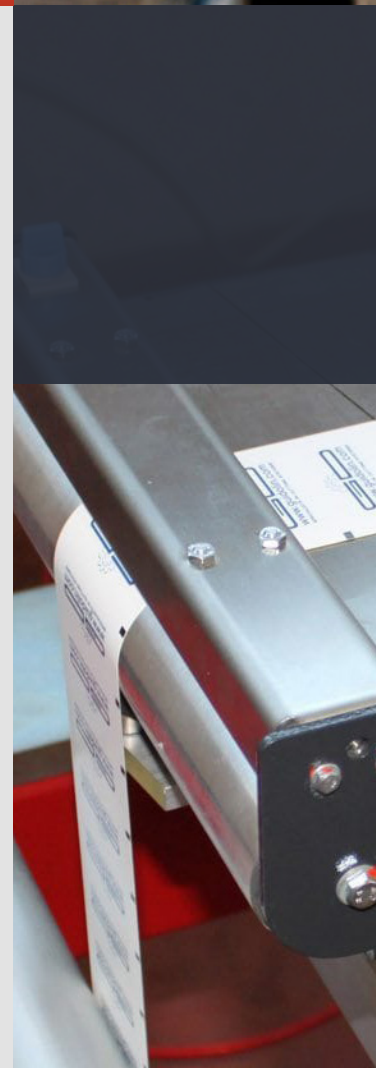
Lamination  
Longitudinal  
cutting



Slitting



Cutting  
with a plotter





# CONVERTING

## CONTOURING CUT-OUTS PRODUCTION

Single-sided and double-sided adhesive tapes can be further shaped to achieve **faster and more accurate application**.

Processing of materials is performed via cutting **technology with strict dimensions, die-cutting, kiss-cutting, rewinding and laminating with a variety of materials**.



The process of shape self-adhesive die-cutting is carried out by laminating silicone paper or film onto an adhesive tape, then either cutting or die-cutting is performed using a die-cutting machine and the desired shape can be delivered as **individual pieces, in sheets or in a roll format**.

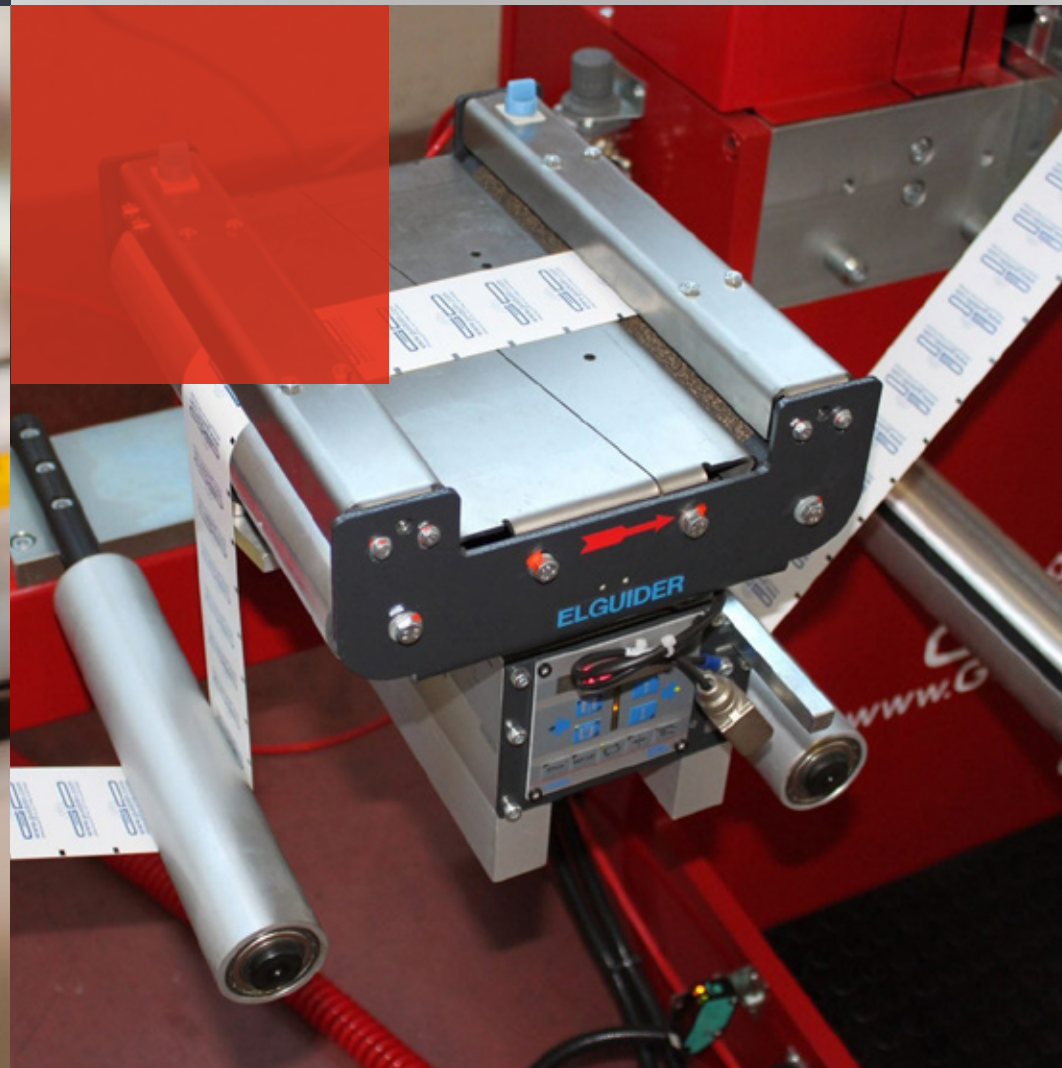
With a **wide range of materials available** including films, fabrics and foams, we offer our customers a **variety of die-cutting options to choose from**. Our machines are servo-driven, ensuring that we **achieve excellent dimensional accuracy** when die-cutting multilayer laminates or printed products.





# DIE-CUTTING

Die-cutting is the process of a precise cutting of materials into different shapes and sizes. It is used in a wide variety of industries.



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**Die-cutting** involves cutting through the material itself as well as the covering layer. The cut-outs are supplied as individual pieces and are used as seals, stops or semi-finished products for further processing.

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**Die-cutting** is an essential tool for creating of original designs and products, and with use of modern technology it plays an important role in the modern industry and design.



# CONTINUOUS AUTOMATIC MECHANICAL-ELECTRONIC PUNCHING MODE. GD 301D EL 10 TONNE CAPACITY - CUTTING PLATES 320 X 320 MM

This is a process that **die-cuts - kiss-cuts** simple shapes. Die-cut head is placed in a hydraulic or mechanical press after production. Suitable gaps underneath allow a **clean cut and easy removal of the finished piece**. Tools can be quickly swapped for greater **flexibility**.

**This technology is best for low volume projects**, or if the product is not suitable for rotary technology, it is a flat bed die-cutting.

In **die-cutting**, the material is die-cut into the underlying layer or together with an underlying layer of any shape using a punch. Each part is separate. For easier separation of the material from the surface, it is possible to use the so-called **fingerlift**, which we can apply to your product.

GD 301D EL





# KISS-CUTTING

Die-cutting is a special technology in the manufacturing of self-adhesive products that differs from traditional die-cutting. The **main difference** is the way the material is cut.



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Kiss-cutting differs from die-cutting that the die-cut material **remains on the underlying layer**, resulting in **easy peeling from the surface**, whereas with die-cutting the material is completely cut out and separated from the underlying layer.

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After die-cutting the finished products remain in **the roll or sheet**, making it **very easy to peel the die-cut from the underlying layer**. This is particularly useful in the manufacturing of products that allow the label to be easily removed from the underlying layer and adhered to another surface.

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**Kiss-cutting** is performed by **special machines** that have a **precision of thousandths of millimetres**, which prevents damage to the surface on which the material is glued. They are able to cut **precise dimensions and shapes with materials of different thickness**.

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Its **flexibility and precision** make this technology an essential part of modern industry.

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**Kiss-cutting** is also known as pressure sensitive cutting, i.e. it is a type of die-cutting in which the **blade does not penetrate the entire stack of material**, but cuts through a **precise number of layers**. With this application, a sharp edge or blade passes through the surface layer of a material but stops on top of another material.





**Laser kiss-cutting** is renowned for its **precision** and can handle complex shapes, ensuring each part meets **strict quality standards and tolerances** customized for your industry, whether you are active in the aerospace, automotive, healthcare, electrical or any other industries, our custom kiss-cutting services are designed to meet your **specific requirements and ensure optimum quality and efficiency**.

**Laser cutting and converting system** offers **innovative and cost-effective solutions** for processing of simple and complex geometries without traditional hard tooling - **superior quality** of parts that cannot be achieved via the traditional die-cutting process.

**The digital laser die-cutting and converting system** offers the greatest **flexibility and production capacity** for materials up to 350 mm wide. Laser kiss-cutting can reach speed up to 100 meters per minute depending on the application, and the standard 350 W RF "self-powered" laser source is a high-efficiency CO2 laser ideal for applications on adhesives and double-sided adhesives, plastics, graphics, overlays, labels, abrasives, cork, foams, neoprene, fabrics, technical textiles, and similar materials. The laser beam is concentrated in a very small spot (0.05-0.21 mm) and produces zero pressure on the component, allowing the material to retain its original shape.

## ROTARY STAMPER WITH LASER MODE. GD RO LASER 350 MM LASER POWER OF 350W

**Kiss-cutting - laser die-cutting**, which meets the needs of critical applications, enables **precision cutting of flexible materials** (foam tapes, rubber, laminates) and adhesives. The highly repeatable process allows **precise and clean cutting of the smallest details** - holes, slots, apertures.

Although **kiss-cutting** is often associated with rotary die-cutting, however, the kiss-cutting can also be made **with use of a laser**, which can be applied for kiss-cuts in the material by regulating the laser power frequency, so it does not cut through the entire layer of material, but only a certain thickness in accordance with the requirements.

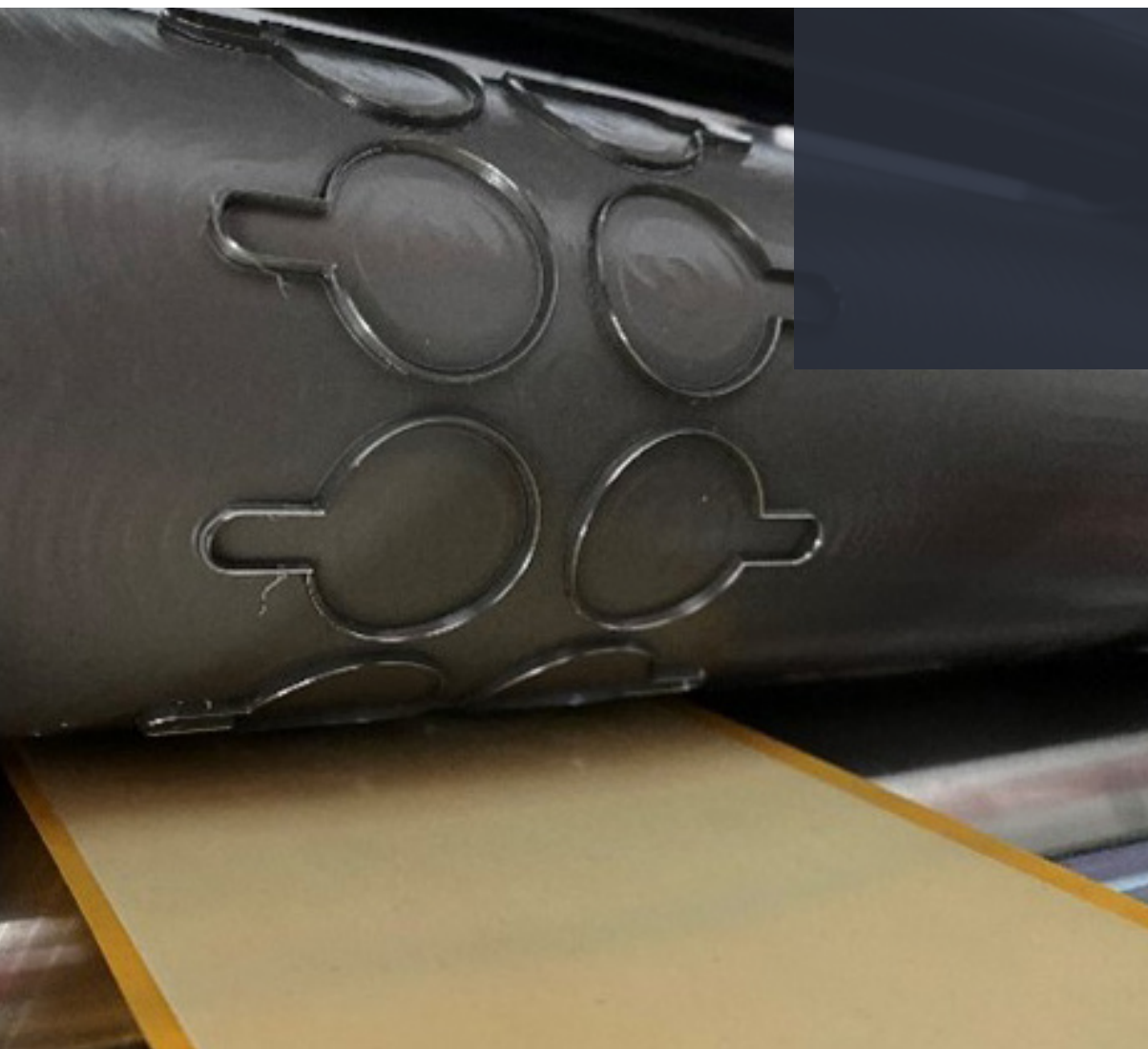




## ROTARY KISS-CUTTING, DIE-CUTTING

**Rotary die-cutting** is like combining a biscuit cutter with a roller to efficiently create multiple and continuous shapes in a short time. Compared to flat die cutting, rotary die cutting is a more **efficient process for cutting large volumes of material** supplied in rolls.

A roll of material, or a multiple rolls of different materials, is fed through a press comprising a pressing station where a rotating blade of a roller cuts the material. The cutting die rotates conjointly with the material feed rate, ensuring that the blades cut consistently to the **exact length**. Tight tolerances are achieved by servo motors on the press that maintain continuous material registration.





# LAMINATION LONGITUDINAL CUTTING

**Lamination** is a process in which we apply laminating adhesive to various types of non-adhesive materials using a laminator in order to make the materials sticky. The laminator has a **specific lamination thickness** is set to **prevent air from entering the gap between the adhesive and the underlying material** in order to achieve **the best possible quality**.



Lamination may be performed as **single-sided or double-sided**.

Depending on the surface of the laminated material, we are able to select **the most suitable type of laminating adhesive to ensure perfect adhesion**. With some materials, this can only be achieved by using **special primers** that will form on the surface a microfilm **for ideal adhesion**. Another method is **lamination using heat**, where the adhesive is heated to the desired temperature, which also helps the adhesive to adhere to the surface of the underlying material.

Finished products are used as damping parts, self-adhesive seals, sound and thermal insulation, or they are further processed in manufacturing of shaped cut-outs according to drawings. **Thanks to our variable machinery we are capable laminate single pieces (plates) as well as roll formats.**

We can laminate materials up to a **thickness of 100 mm and a width of 2300 mm**, our laminating machines are also equipped with slitting and cross-cutting units.

This technology will find its application **in industries where it is necessary to improve manufacturing process and the final product.**

## CUTTING AND LAMINATING TO THE REQUIRED WIDTH

We offer **cutting and laminating of various materials** such as:

- Coating materials
- Synthetic materials
- Fabrics
- Rubber
- PVC-PP-PE films
- Polyethylene
- Polyurethane
- Plastic films
- Non-woven fabrics
- Graphite

We can also cut to the required width even whole **rolls that have already been wound**.

### ICZ 2300 4H





# LOGROLL CUTTING (SLITTING)

If a customer requires **the exact size of the adhesive tapes in a roll**, they can be cut **according to the customer's specifications**. The cutting of the tapes is carried out from already manufactured logrolls of different widths and winding lengths on **special machines** with one or more knives.

**Cutting with a machine** - The process of precision cutting of a material. As part of our services, we offer machine cutting of materials, which allows customers to obtain **precisely defined dimensions of adhesive tapes and other products**. This process, known also as “**slitting**”, is performed by our **special machine** that can cut rolls of material **with incredible precision**.



Before the actual cutting, we carefully measure dimensions of the material using a **precision calliper** to ensure that the customer receives exactly what they have asked for. This means that every piece of our products **will match the customer's specifications and requirements**.

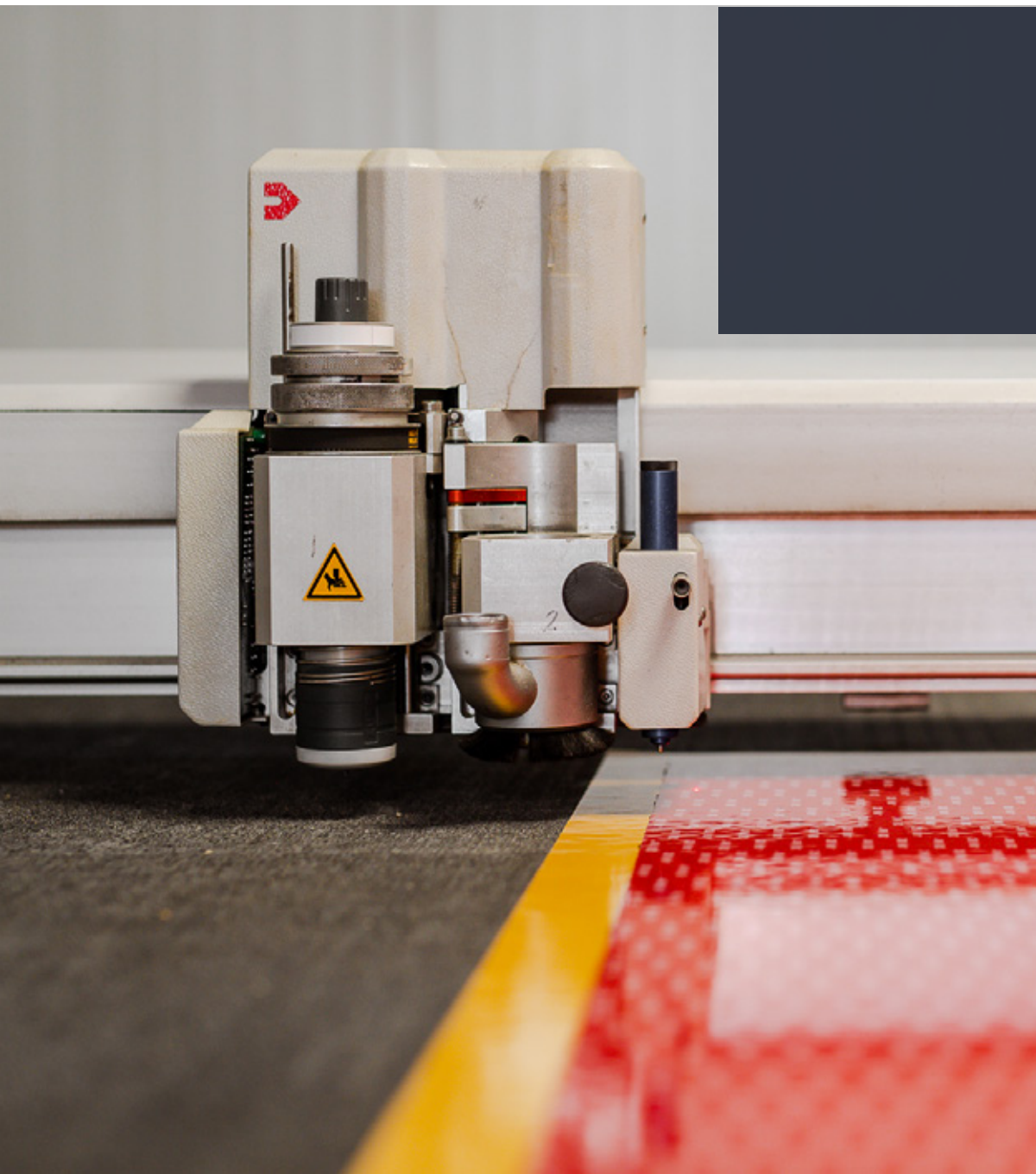
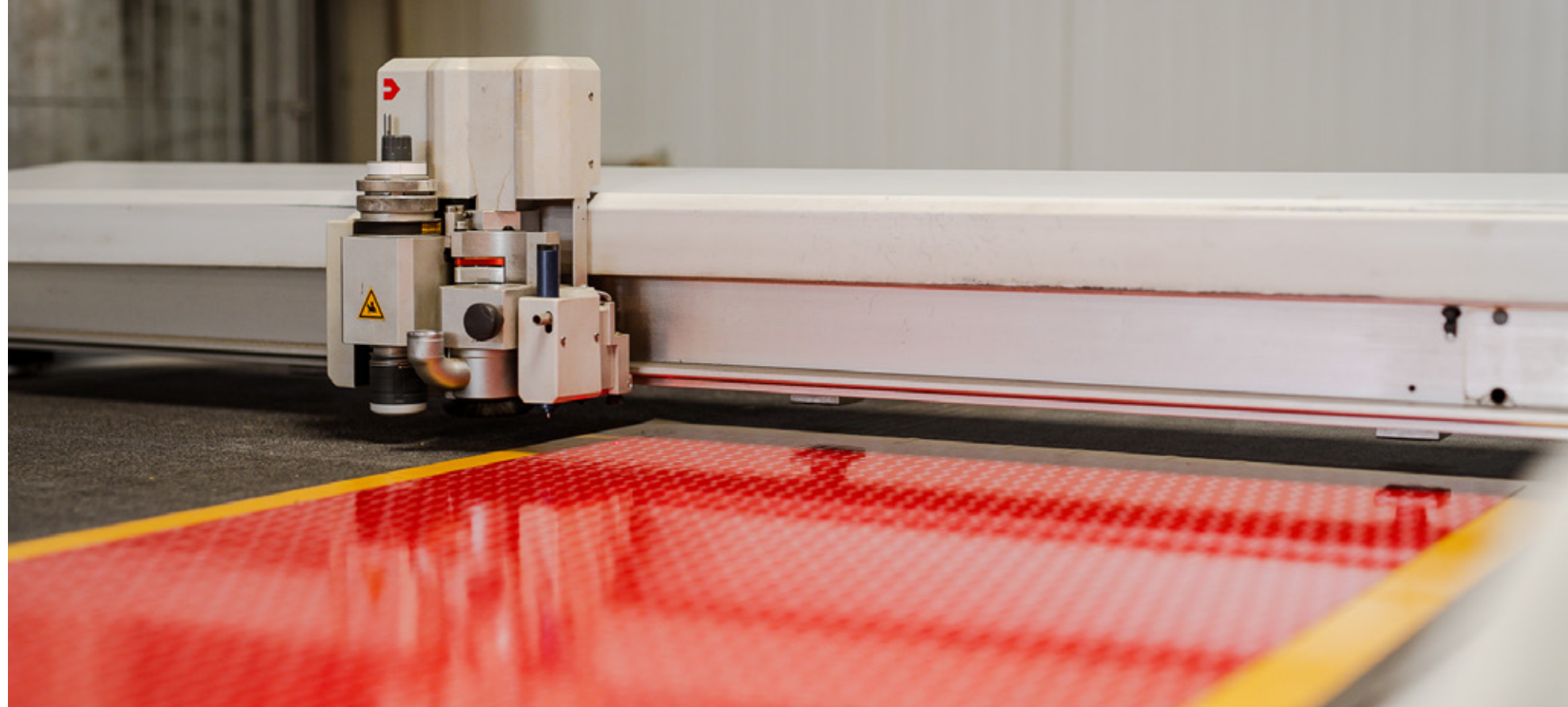
With our capability to perform machine cutting **with the utmost precision and our attention to details**, we can help you achieve optimum results for your projects. **Your satisfaction and accuracy are our top priority.**





# CUTTING WITH A PLOTTER

For plotter cutting, we use **high-end cutting plotters from Zünd Swiss Cutting Systems**, which ensure precise cutting with **maximum efficiency**. Plotter cutting offers unlimited opportunities for a variety of industries and guarantees accuracy, reliability, time and cost savings.

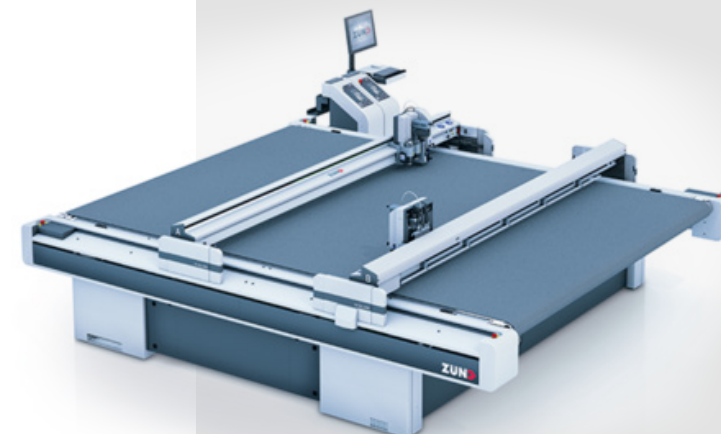


The **plotter cutting** is a process of using a cutting plotter to create different shapes and inscriptions from self-adhesive film or other materials. This process is used **to produce advertising stickers, signs, graphics and other design elements**.

Plotter cutting allows for the production of **complex shapes and flexibility in the production of patterns and small batches** of die-cuts where a cutting tool is not required.

We are able to cut shapes with maximum dimensions of **1500 x 1200 mm**.

## ZUND DIGITAL CUTTER



Our technology **minimizes production of waste while complying with environmental standards**. Become our partner on the path to success.



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