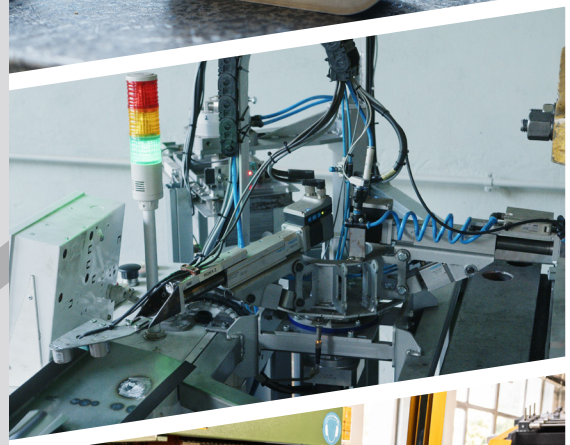
VALPRO
Quality. Reliability. Safety.

FULL CYCLE OF YOUR PRODUCT



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ABOUT VALPRO

With over 60 years of experience, VALPRO stands as one of the Baltic region's leading metalworking companies. Our expertise spans a wide range of metalworking services, including the manufacturing of metal fuel cans, cylinders for fire extinguishers, and other systems, as well as providing inspection of gas cylinders.

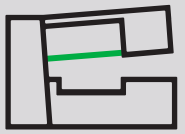
At VALPRO, we have built a solid foundation in the metalworking industry, continuously expanding our capabilities and deepening the expertise of our specialists. This commitment allows us to deliver the highest quality services to our clients and provide a complete product cycle—from the creation of blanks to the finished product assembly.

We are proud to offer specialized metalworking services that are rare in Latvia. One such service is deep drawing, a highly efficient metal-forming process that transforms flat metal sheets into products with complex shapes. In addition, we provide automated cutting of metal sheets and parts from coils, ensuring precision and efficiency. Our electric discharge machining (EDM) technology is ideal for producing intricate and precise components, meeting the highest standards of quality.

At VALPRO, we value long-term partnerships and are dedicated to producing high-quality metal parts and assembling them into finished products. Whether you need custom manufacturing, innovative solutions, or reliable service, VALPRO is here to deliver excellence every step of the way.

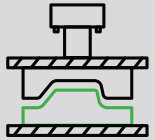
VALPRO METAL WORKING SERVICES

AUTOMATIC SAWING



STAMPING

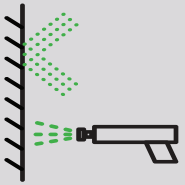
DESIGN AND PRODUCTION OF STAMPS



SHOT BLASTING

WET PAINTING

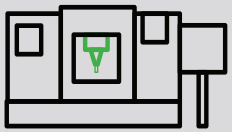
POWDER COATING



CNC TURNING

CNC MILLING

SURFACE GRINDING (HORIZONTAL)



HEAT TREATMENT

MIG/MAG, TIG AND SPOTWELDING

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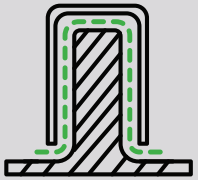
DEEP DRAWING

Deep drawing is a highly efficient metal-forming process that transforms flat sheets of metal into hollow objects. This technique is widely used in industries where strength, precision, and cost-effectiveness are critical, making it ideal for producing a variety of components, from automotive parts to household appliances.



KEY BENEFITS

High Efficiency: excels at creating rounded shapes, intricate contours and enclosed products while maintaining the metal's strength and quality. The process is ideal for high-volume production, ensuring rapid turnaround times without compromising on quality.

Precision and uniformity: ensures consistent, seamless shapes with uniform wall thickness, reducing the likelihood of weak points and enhancing the overall durability of the component.

Sustainability: Deep drawing supports eco-friendly manufacturing by minimizing material waste. The process is also energy-efficient, further contributing to sustainable production practices.

TECHNICAL SPECIFICATIONS

Suitable Materials: carbon steel, stainless steel, aluminum
Useful table area: 1200x1000 mm
Max Workpiece Thickness: 3 mm
Max depth of formed part: 400 mm

Deep drawing is an essential metal-forming process that combines precision, efficiency and sustainability, making it a preferred choice for manufacturers looking to produce high-quality components at scale.

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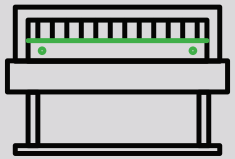
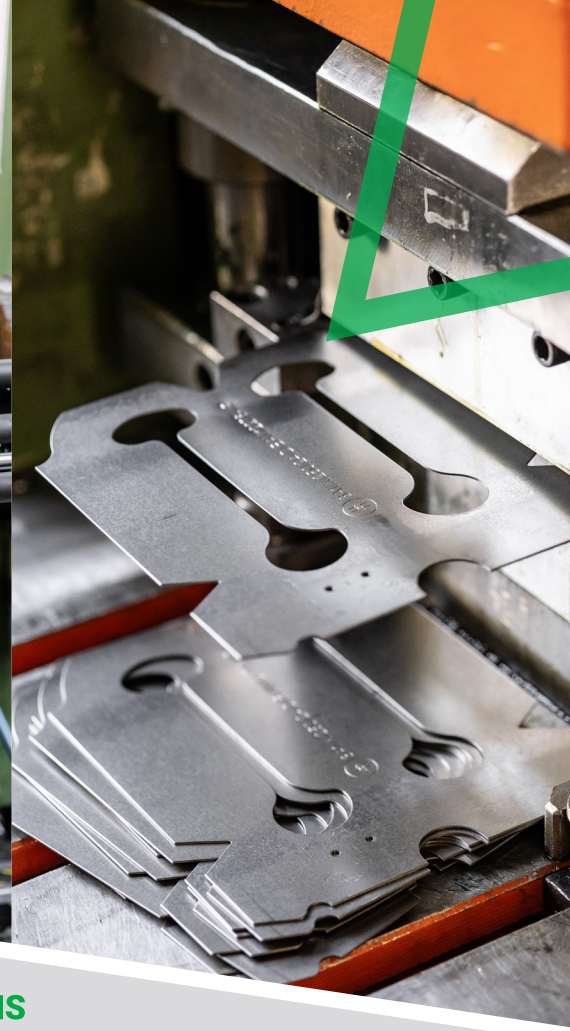
METAL SHEET CUTTING FROM COIL

Metal sheet cutting from coil lines is a crucial process that transforms large coils of continuous sheet metal into flat sheets of specific dimensions. This method ensures high-quality, customizable metal sheets for diverse applications. The process typically involves uncoiling the metal, straightening it and then cutting or punching it into individual sheets or parts of the desired length and form.





KEY BENEFITS

Cost Efficiency: Purchasing metal in coil form is more economical than buying pre-cut sheets. Coils are cheaper to transport and handle, leading to significant cost savings for manufacturers.

Optimal material utilization: Precise cutting and punching ensure minimal waste, allowing for efficient use of materials and maximizing productivity.

Flexibility and customization: Coil lines can easily adjust cut lengths, punch parts, enabling quick adaptation to changing production needs and custom specifications.

Improved production speed: Automated coil processing lines reduce manual handling and increase throughout for faster production cycles.

TECHNICAL SPECIFICATIONS

Suitable Materials: All types of carbon steels, including aluminum
Max Coil loading capacity: 6000 kg
Coil Inner/Outer Diameter: 480 - 620 mm / 1600 mm
Coil sheet thickness capacity: 0.5 - 3 mm
Coil sheet width capacity: 80-600 mm
Press capacity: 100 T
Press table dimensions: 1050x640 mm
Press maximum closed Die height: 315 mm
Press ram adjustment: 0-100 mm
Press max strokes per minute: 70

Metal sheet cutting from coil lines offers a blend of precision, efficiency and adaptability, making it an essential process for producing high-quality metal products at scale.

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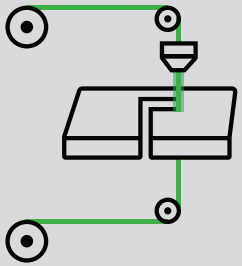
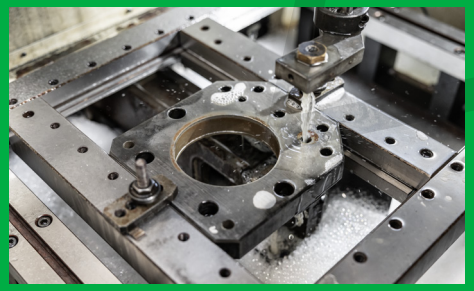
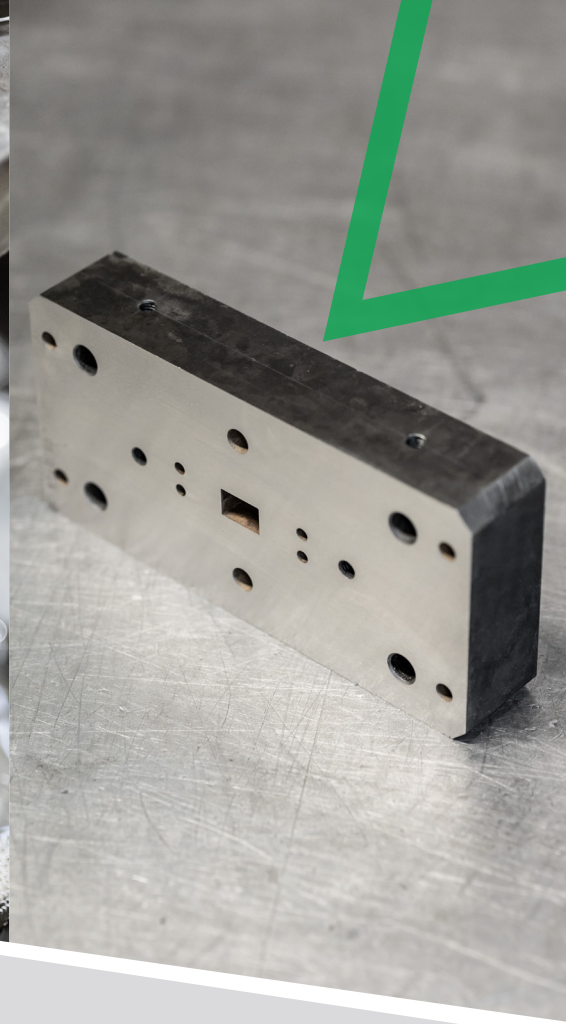
WIRE EROSION CUTTING (EDM)

Wire erosion cutting EDM (Electrical Discharge Machining) is ideal for intricate designs, complex geometries and components requiring precise angles unattainable by conventional methods.







KEY BENEFITS

Precision and versatility: Perfect for elaborate designs, complicated geometries and components with geometric angles that are complicated and expensive to produce using conventional production processes.

Material compatibility: Hard (heat-treated) and delicate materials can be cut without causing damage to the cutting tools. Material hardness and thickness does not affect cutting speed.

Superior accuracy: Cutting with a wire is more accurate than cutting with a laser, flame or plasma, allowing for exceptionally tight tolerances and accurate dimensions.

Non-contact process: There is no contact between the tool and the workpiece. This means delicate areas and weak materials can be processed without distortion.

No post-processing required: No polishing of the workpiece is required after processing.

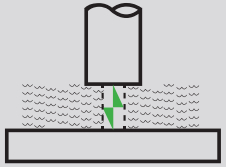
TECHNICAL SPECIFICATIONS

Suitable Materials: All types of carbon steels, including aluminum.
Cutting Area: 320x400 mm
Max Workpiece Thickness: 300 mm
Max Taper Angle/Plate Thickness: +/- 3° / 100 mm
Precision: +/- 0.004 mm
Surface Roughness: ≤0.8 µm
Max Cutting Speed: 180-220 mm²/min

Wire EDM is a superior choice for high precision cutting needs, offering unparalleled accuracy and efficiency for both hard and delicate materials.

DIE SINKING EDM

Die sinking EDM (Electrical Discharge Machining), also known as spark eroding, offers an innovative approach to shaping materials using electrical sparks instead of traditional cutting tools. This advanced technique excels in producing highly precise shapes and intricate contours in various conductive metals, making it the go-to solution for complex and demanding machining tasks.



KEY BENEFITS

Unmatched precision: Ideal for creating extremely accurate shapes, including sharp internal angles and complex geometries. The process allows for the precise replication of intricate designs, delivering high-quality results that meet exacting specifications.

No mechanical stress: The non-contact process eliminates mechanical stress on the workpiece, preserving surface integrity and preventing deformation. This is particularly beneficial for delicate components and thin materials.

Material versatility: This method is suitable for all electrically conductive metals, including hard-to-machine materials like titanium, tungsten and carbide, as well as softer metals like aluminum. It is also effective on hardened workpieces.

Enhanced efficiency: Die Sinking EDM significantly reduces machining time compared to conventional methods. The process is automated, which minimizes human intervention and allows for continuous operation, improving overall production efficiency.

Complex mold creation: Enables the creation of complex molds and dies with high precision, essential for industries like automotive, aerospace and electronics.

High aspect ratios: Capable of machining deep cavities and high aspect ratios that are difficult to achieve with traditional methods.

TECHNICAL SPECIFICATIONS

Suitable Materials: All types of carbon steels, including aluminum
Cutting Area: 210x80 mm
Max Workpiece Thickness: 100 mm

Die Sinking EDM stands out for its ability to deliver precision, reliability and versatility across a wide range of applications, making it an indispensable tool in modern manufacturing.

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