



Tosec

Sheet metal. Construction works.

www.tosec.nl/flyer



CUTTING

Laser cutting, plasma cutting, oxy-fuel cutting

For every sheet metal dimension and thickness we have the right tools. In addition, every machine is equipped with modern techniques to reduce production time. We cut steel, stainless steel and aluminum. We provide large as well as small steel products.

- + Laser engraving, plasma engraving & inkjet marking of material and charge numbers
- + Plasma cutting with 2 plasma cutting heads & oxy-fuel cutting with 6 cutting heads increase production speed
- + Plasma bevel cutting up to 45 degrees for welding edge preparation
- + Micro-joints help to secure smaller products and provide faster unloading after laser cutting





BENDING

Pressbraking, roll bending

Whether you have small series or large, heavy sheet metal, we can help you out with our press braking machinery. We will take care of all your products for example: c-profiles, u-profiles, sheet piles or silos. We have capacity up to 7 meters in Zwolle and up to 16 meters at our sister company Rime in Germany. Our sheet metal workers are very skilled in reproducibility. This results in very strict tolerances for every product in a series.

- + Press braking up to 7.200 mm (16.000 mm in Germany)
- + Every product the same dimension due to high reproducibility techniques and high quality machinery
- + 6 press brakes varying in length for both small and large products
- + Press force from 50 Mt up to 600 Mt in Zwolle and up to 2500 Mt in Germany for different sheet metal dimensions



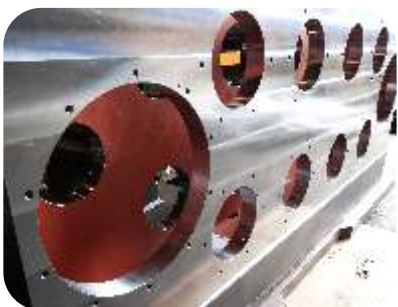


MILLING

Milling, drilling, threading, roller burnishing...

We are specialized in milling sheet metal. With different techniques such as milling, deep hole drilling, drilling and threading, roller burnishing and more. Our biggest machine, the Matec 50 HV is one of the largest CNC-machining stations in the Netherlands. With a working range of 7.000 x 1.200 x 1.300 mm it is perfectly suitable for milling large sheet metal products and welded constructions.

- + 5-axis milling up to 1.250 x 1.250 x 1.250 mm
- + 4 milling machines for larger and smaller products
- + 3-axis milling up to 7.000 x 1.200 x 1.300 mm
- + Deep hole drilling up to 1200 mm deep





WELDING

Certified welding, robot welding

Our welding department has been certified according to ISO 3834-2 and EN 1090-1 (class 3) standards. The EN 1090 is the European norm for the production of steel constructions. We can handle constructions with dimensions up to 40 x 8 x 6 meters. Our lifting capacity is 70 Mt to handle heavy products. Let us help you with steel, stainless steel, aluminum or high strength steel welding.

For series we use a welding robot with a working range of 1.200 x 1.200 x 1.200 mm. The product size is carefully chosen to combine 5-axis milling and robot welding. A 2.5 Mt manipulator is installed to robot weld large construction parts up to 2.600 x 1.000 x 1.000 mm.

+ Gas metal arc welding (GMAW)

+ Submerged arc welding (SAW)

+ Gas tungsten arc welding (GTAW)

+ Shielded metal arc welding (SMAW)





CERTIFICATION

ISO 9001, ISO 3834-2, EN 1090-1

Experiencing our excellent quality... You need more than one day for that. 98% in-time delivery doesn't prove itself in one order. The diversity of our machinery is discovered only when you use multiple of our many sheet metal working possibilities. The reliability and flexibility of our project engineers becomes evident after multiple quotations.

External organizations are better at judging us than we ever could. It is Bureau Veritas who certified our company according to the ISO 9001, ISO 3834-2 and EN 1090-1 (class 3) standards. Lloyds register has approved and certified our method for remarking. In this line we also deliver – if required - material with 3.1 or 3.2 certificate.

We are your suitable partner for special projects and recurring sheet metal work. We offer over **16 sheet metal working possibilities** and take care of drawing, construction, assembly and surface treatments. Most of it in-house.

Whether you need simple products or complex construction work. We are there for you!

Tosec. Fast. Flexible. Reliable.

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