

Sheet metal forming
in **XXL**





When Wilhelm Göcke founded his company almost 30 years ago, he was aware that steel sheet processing was mostly performed as a mass-production process, leaving no space for individuality or dimensions outside normal standards. That is why Göcke Transformation Technique filled this niche and specialized in processing of bespoke cut & pressed steel, aluminium and stainless profiles and parts.

Today, 145 employees process sheet metal of large formats and produce pressed profiles up to 25 meters in length on a surface of 40,000 m², for applications such as bridge and vehicle construction, machine construction and plant engineering.

Railcar construction for subways, interurban and commuter trains is another production focus. Göcke produce Special profiles as well as stable and light-weight lateral wall sheets in stainless steel for the major European railcar manufacturers.

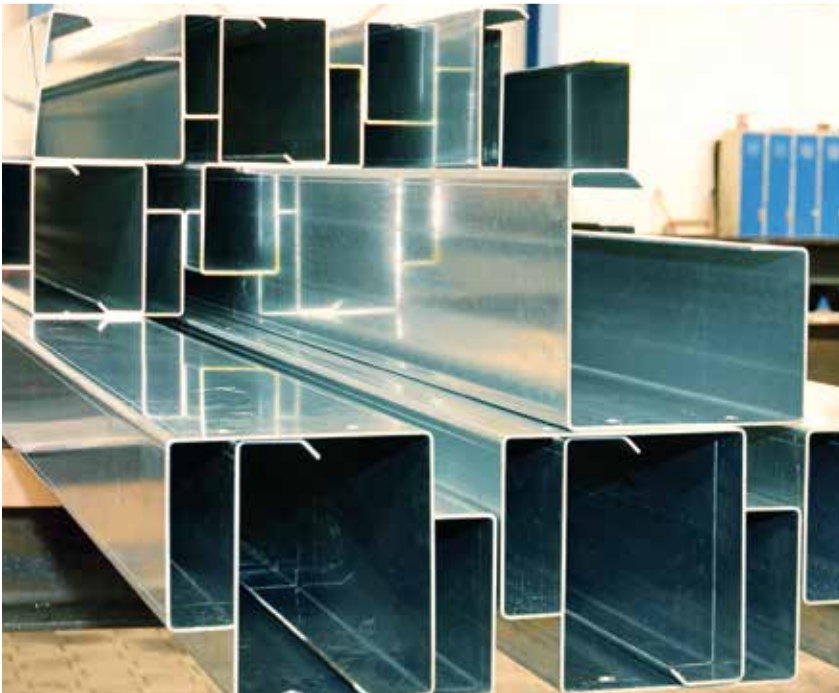
All-round Service for
Dimensions Exceeding
Conventional
Off-the-Shelf Solutions



Further to press brake bending, our technical portfolio also includes shearing, water jet cutting, laser cutting and plasma cutting, completed by laser welding and preparatory services.

In order to provide sheet metal processing in XXL, most of the machinery and systems used at Göcke are special constructions; tools for the press brakes and patterns are manufactured in-house.

Göcke provide you with all-round service for dimensions beyond common standards! Absolute adherence to production schedules at consistent high quality makes Göcke Transformation Technique a qualified partner for sheet metal processing in XXL.



Our certifications can be found on our website under www.goecke.com

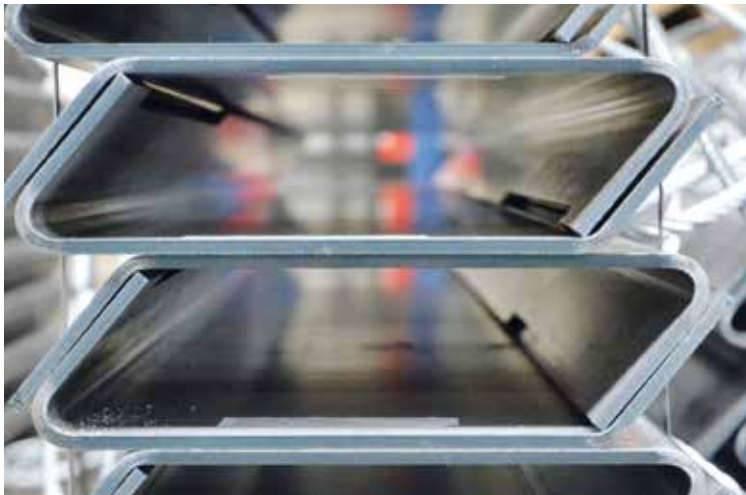
An Individual Solution for Any Inquiry

Press Brakes



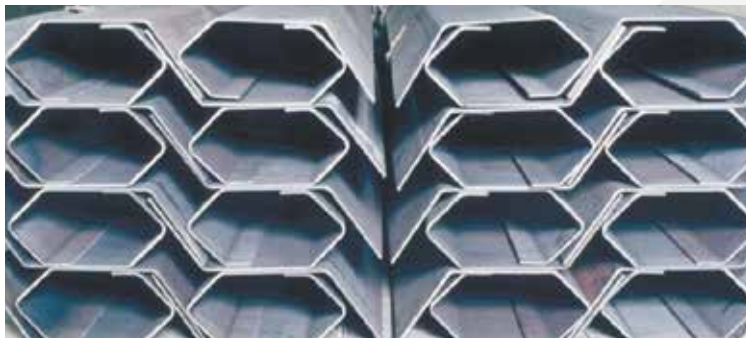
State-of-the art mass production in sheet metal processing often provides few options for individual problem solutions.

That is why we are specialized in processing of out of the ordinary sheet metal profiles.



At Göcke almost any customer demand turns to reality on DNC controlled state-of-the-art press brakes.

For this purpose a comprehensive material stock is available, even in special qualities.



Pressed Profiles up to 21 m
Press Capacity up to 3,000 t



Working Length up to 25 m

Sheet Thickness up to 40 mm

**Under Water Plasma System,
DNC controlled**

Working Width 2 x 3.50 m

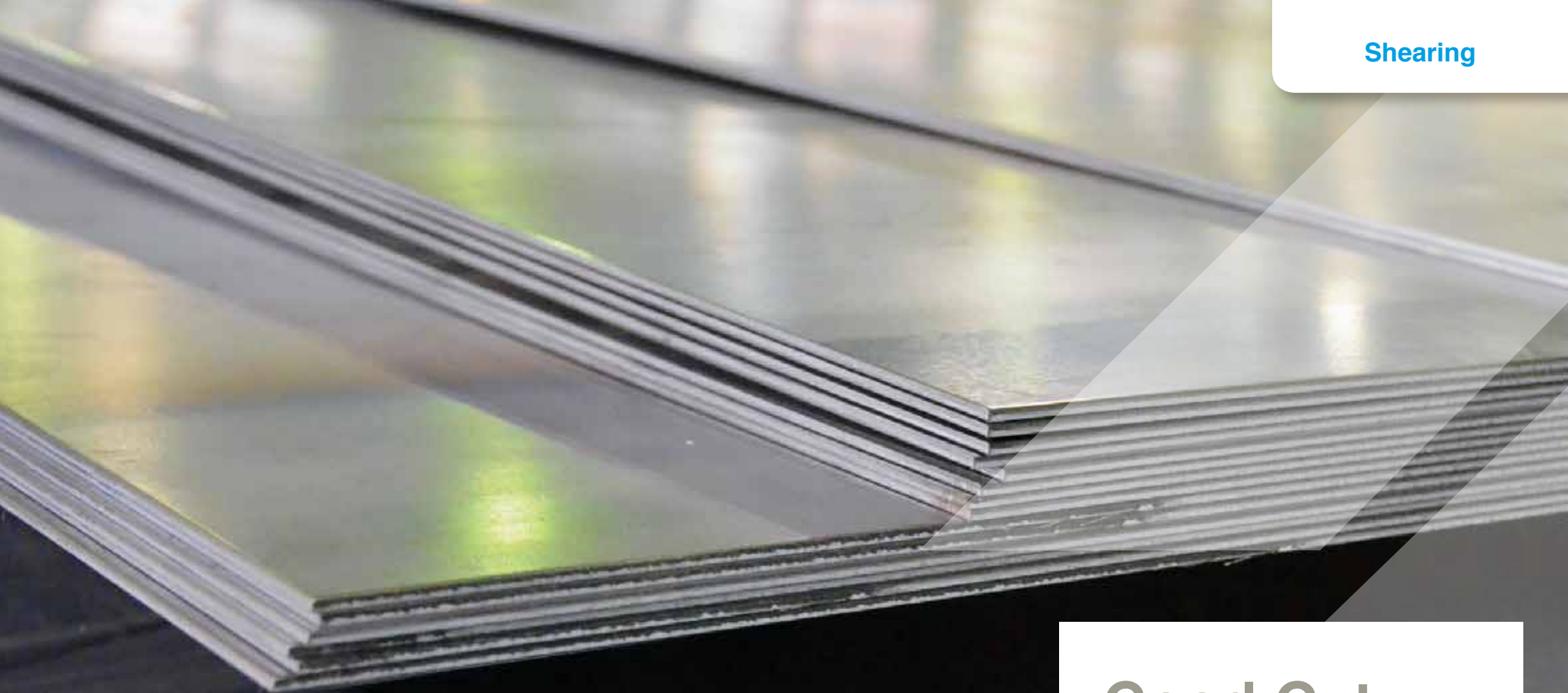
Fine Jet Plasma Systems

Working Width 5 m
Chamfers up to 45°



Our plasma cutting systems are technologically up-to-date and stunning in precision and possibilities. They allow for high quality cuts, with minor roughness depth, small angle deviation and high reproductive precision. With this technology Göcke provides you with many options.

Chamfers up to 45° are cut with the revolving chamfering head, thus providing optimum conditions for subsequent welding processes. Plasma cutting is a thermal cutting procedure for all electrically conductive materials such as aluminum, copper, construction steel and high alloy steels.



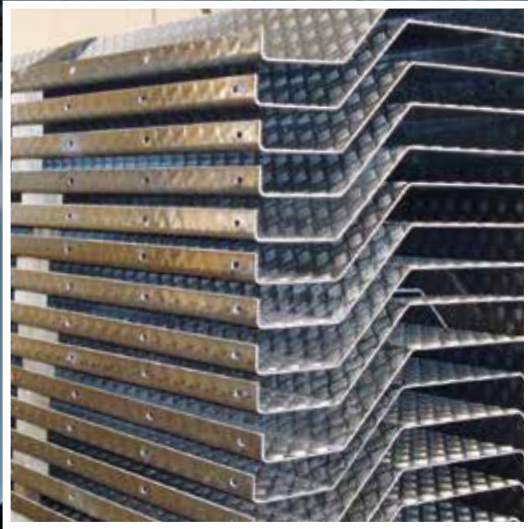
Good Cut

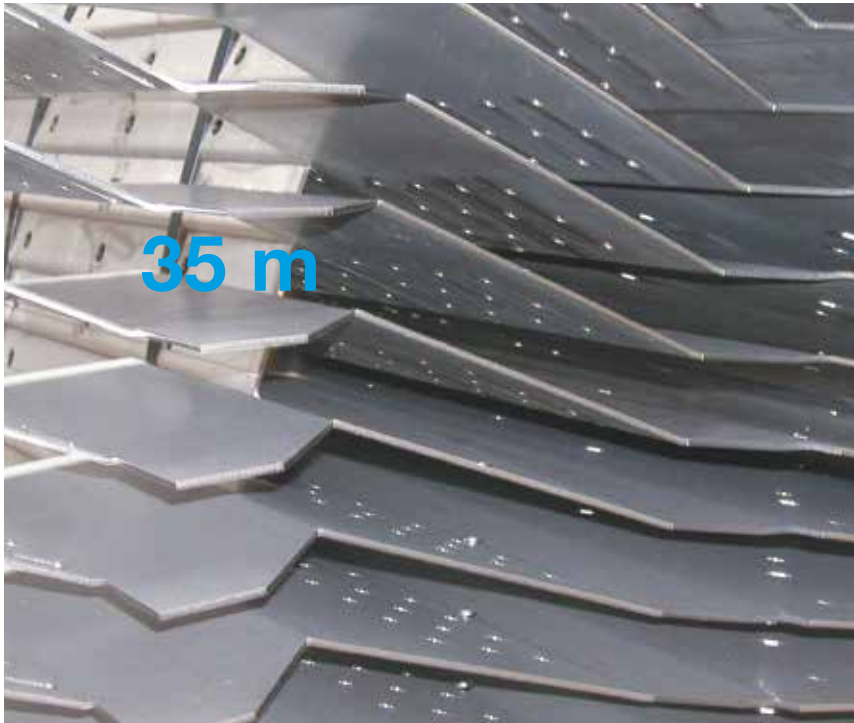
With our CNC controlled guillotine shears, sheets of up to a length of 10.2 m can be processed.

Due to optimal setting option of cutting angle and cutting gap, both thin and thick sheets can be processed, resulting in torsion-free cuts of constant high quality.



Laser Cutting





Working Length 35 m

Working Width 3.5 m

Sheet thickness 20 mm

Chamfers up to 52°



The 5-axis laser chamfer head enables Göcke to manufacture complicated contours and chamfers up to 52°, thus providing optimal conditions for subsequent welding processes. The smooth, burr-free cut edges of the blanks provide optimal conditions for flawless subsequent welding processes.

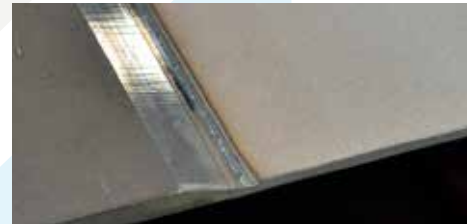
Highest efficiency is thus granted, in particular for single-piece production.

Göcke sets new benchmarks in laser processing with high customer benefits.

The use of the laser beam as a “tool” allows for fast cutting of both smooth and hard materials at minor micro-structural changes, gap width and high precision of the processed parts.

Furthermore the CO2 laser system provides the possibility to mark or sign work pieces fast, clearly and permanently.

Laser Welding



Metal sheets up to a maximum size of 4 x 20 m can be welded on our 2 laser welding machines. Extremely small welding seam geometries while maintaining minimal thermal distortions at the same time allow for unexpected and new possibilities in further processing.



Tailored Blanks with Thicknesses from 1 to 8 mm

Laser Welding System 1

Maximum dimensions of sheets to be manufactured: 4 x 20 m

Width 4 m
Length 20 m
Length of welding seam: 4 m

Laser Welding System 2

Maximum dimensions of sheets to be manufactured: 5 x 12 m

Width 5 m
Length 12 m
Length of welding seam: 12 m including cold wire feeding

Laser welding is usually performed without the feeding of additional filler materials. However, upon customer request, a filler material can be added, particularly for high-strength materials.

A high welding speed increases the productivity and thus the added value. Materials such as steel, stainless steel and aluminum up to copper-nickel alloys are especially appropriate for production of tailored blanks.





Preparatory Services

- Shaping
- Preparation of welding seams
- Welding
- Drilling
- Sawing
- Milling
- Punching

As flexible as pressed profiles can be processed, as flexible they are in terms of their field of application: From stabilizers for container cavities to the heat shield for space travel. Today many processing steps are automated; however, special processing steps must still be performed manually by authorized professionals, the only way to achieve the highest standard of quality and perfection. This demand is granted by permanent in-house quality checks.



Extreme Loads –
Extreme Responsibility



**Innovative Procedures,
Efficient Production**



**Stainless Steel –
Non-ferrous Metals –
Metals – Natural Stones**

From subcontract services
to complete production
including material



High pressure water jet cutting is a complementary process to the traditional, mechanical and thermal procedures. As no heat is applied for water jet cutting, steel, aluminum, non-ferrous metal, stone, glass, plastics, or sealing materials can be processed without problems.

Water jet cutting technically impresses through its high precision, small cutting widths and best quality of the cut edge. Random complex and filigreed series of cuts can be realized in one work cycle - and without generating hardness increase, strain and thermal changes of the material. Conventional post-processing steps for thermal or burr-generating cutting processes are entirely eliminated.

Working Dimensions 8 x 4 m

Material Thickness up to 200 mm

The Vertical Rotary Head Processing Center for Long Bed and Pendulum Processing

X Stroke: 2600 mm
Y Stroke: 900 mm
Z Stroke: 950 mm



More and more often Göcke has been approached with the demand to further process parts cut with water jet or laser. With our “Vertical-Horizontal Processing Center”, we are in the position to meet those requirements. The wide range of application options of this center with its “extended table” for pendulum and long bed processing complete the Göcke portfolio. Even the most complicated contours for the highest demands in mold and die production can be realized, providing you with reliability for your production flow. Internal quality control is performed by computer simulation on 3D CAD systems.

At Göcke Transformation Technique, our work has always been based on the assumption: Only those who undertake important issues themselves effect the quality of their products.



Our Activities:

- **Press Brakes:**
Working length 21 m
Press capacity 3000 t
- **Shearing:**
Working length 10.2 m
Sheet thickness 16 mm
- **Plasma Cutting:**
Working length 25 m
Working width 5 m
Sheet thickness 40 mm
Chamfers up to 45°
- **Laser Cutting:**
Working length 35 m
Working width 3.5 m
Sheet thickness 20 mm
Chamfers up to 52°
- **Laser Welding System 1:**
Maximum dimensions of sheets to be manufactured: 4 x 20 m
Width 4 m
Length 20 m
Length of welding seam 4 m
- **Laser Welding System 2:**
Maximum dimensions of sheets to be manufactured: 5 x 12 m
Width 5 m
Length 12 m
Length of welding seam: 12 m
including cold wire feeding
- **Water Jet Cutting:**
Working length 8 m
Working width 4 m
Sheet thickness 200 mm
Chamfers up to 90°
- **Preparatory Services:**
Welding seam preparation, welding, drilling, sawing, milling, punching, shaping
- **Mechanical Processing:**
X Stroke: 2600 mm
Y Stroke: 900 mm
Z Stroke: 950 mm