



Sheet metal components & assemblies made of steel, stainless steel, and aluminium



Everything from a single



source

Laser & Punching, Folding, Mechanical Processing,
Connection Technology, Welding, Surface Technology

“Everything from a single source”

Under this motto “Everything from a single source” we offer individual complete solutions from the beginning of planning, up to serial production. All production steps from surface treatment to assembly, take place directly in our company. This means that you have only one contact person, short communication channels, minimum logistic costs and highly efficient production processes.

1 Joint development

In the planning and design of individual components or entire production groups, our expertise pays off: experienced engineers advise and accompany you from the first pencil stroke onwards. Together with you, we develop individual optimized solutions. We use different CAD systems such as SolidWorks 3D, Inventor 3D or AutoCad, this simplifies the constant exchange of data.

2 Evaluate and test

In the next step, you receive a near-series or a prototype - to touch, look and try. After careful evaluation and possible fine adjustments, the product is then released for serial production.

3 On your mark, get set, go!

Now, to the use of our high-performance technology: At the beginning of the flexible manufacturing chain with CNC-based machines and integrated quality assurance systems, is one of the largest fully automated high-bay warehouses in Europe: With 840 storing spaces, filled with up to 2.500 t of metal sheets, the sheets are fed to the laser and combination machines accordingly. They are then, punched, lasered, edged, welded and milled as per customer request.

4 Surface treatment – it’s the finishing touch that counts

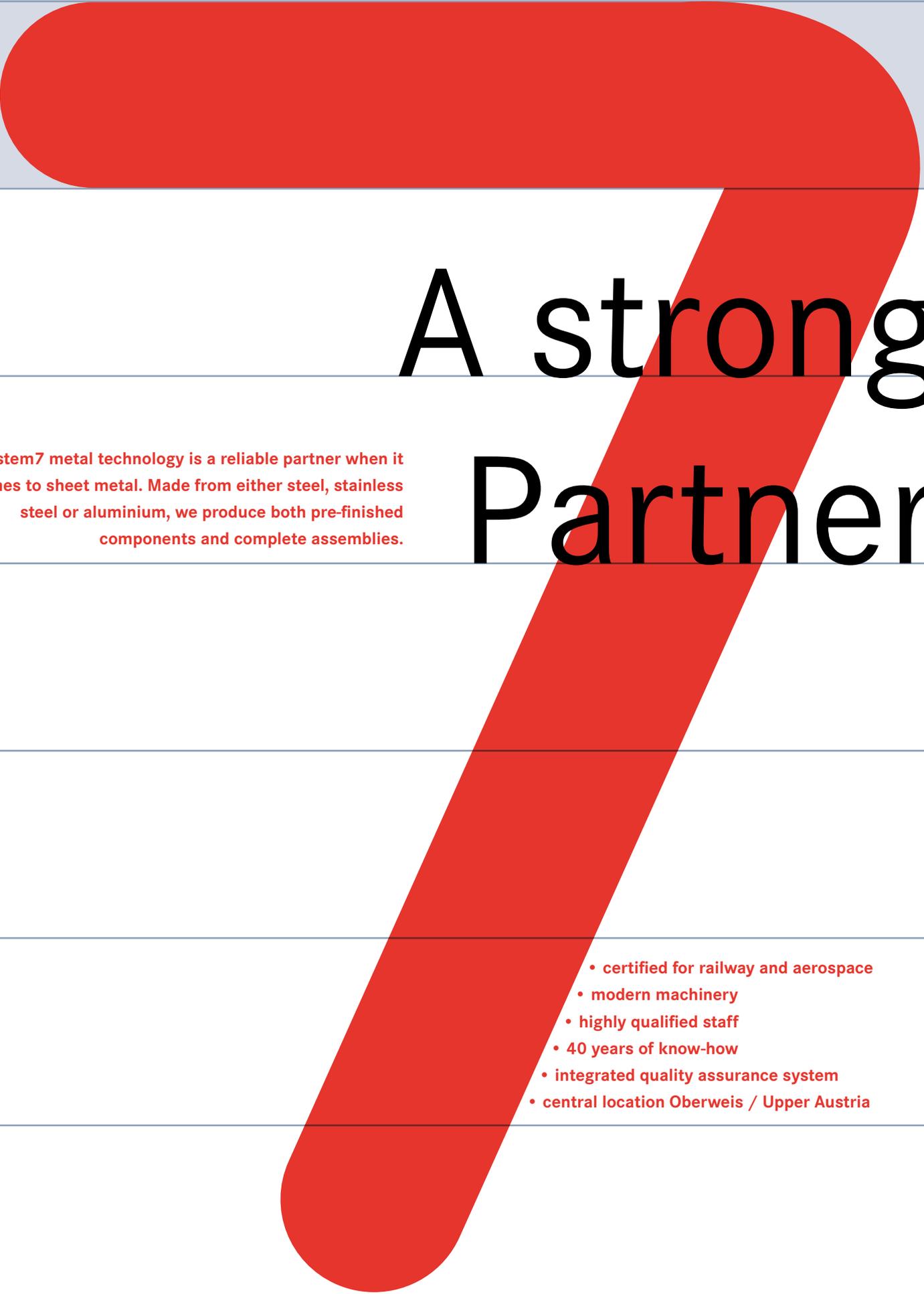
In the ultra-modern 4-zone powder coating and spraying plant, parts made of steel, niro steel, aluminium and plastic, up to a size of 3.000 x 1.500 x 700 mm are mechanically surface treated. Larger and more complex parts are retouched by hand.

5 Assembly – the whole is more than just a sum of all parts

The variable customizable assembly line with flexible working areas, is individually optimized and configured depending on various assembly units. In addition to the various welding techniques, also tox clinching, pressing/welding of bolts, nuts, blind rivet nuts, rivets and twisting are used. Especially to be emphasized is the aluminium welding competence of system7 metal technology.

6 Pleasant Extras

Highly qualified staff and the latest generation of machinery ensure optimum interaction between humans and technology. Due to 40 years of experience in the industry, we represent a comprehensive know-how, which is rarely seen. Our central location in Oberweis, near Gmunden, offers a crucial logistical advantage. Comprehensive certifications make system7 metal technology one of the most important suppliers in the railway and aerospace industry.



A strong Partner

system7 metal technology is a reliable partner when it comes to sheet metal. Made from either steel, stainless steel or aluminium, we produce both pre-finished components and complete assemblies.

- certified for railway and aerospace
- modern machinery
- highly qualified staff
- 40 years of know-how
- integrated quality assurance system
- central location Oberweis / Upper Austria



Laser & Punching

Whether thick or thin, our lasers cut through sheet metal like butter. Assembled in one of the largest fully automated high-bay warehouses in Europe. 2.500 tons of sheet metal are waiting here for further processing, e.g. with the new 8kw-fiber laser system.



LASER CUTTING

in mm

max. sheet size

3.000 x 1.500

Plate thickness up to

20

Plate thickness aluminium and niro steel up to

12

LASER-PUNCH COMBINATION

max. sheet size

3.000 x 1.500

Sheet thickness laser

Steel up to

8

Stainless steel up to

6

Aluminium up to

6

Sheet thickness punching

Steel up to

4

Stainless steel up to

4

Aluminium up to

5

Remodelling such as counterboring, threaded screws, bridges, knobs, hinges, engraving, graining, signing



Folding

What would a metal plate be without any rough edges? Definitely not a viable component and certainly not an assembly unit. At system7 metal technology, nine CNC-controlled press brakes provide the right angle for whether a single piece, small or large quantities...



Robot Folding Trumpf BendMaster

in mm

Highest precision for complicated flashings

Electronics and vehicle construction

Folding length max.

3.000

Plate thickness depending on length max.

10

AMADA HG-ATC

Hydraulic press brake

with automatic tool changer

Ideal for small batch sizes and a high range of parts

Folding length max.

3.000

Plate thickness depending on the length max.

10



Mechanical Processing

Our two new high-performance metal machining centers with 3 or rather 5 axes, enable efficient metal processing at the highest precision. They produce highly complex workpieces at high speed with continuously high accuracy.



DMC 100 U duoBlock

5-axis machining center max. table load	2 t
Spindle speed	12.000 U/min
Travel distances	
X-axis	1.000 mm
Y-axis	1.250 mm
Z-axis	1.000 mm

DMC 1035 V Ecoline

3-axis machining center max. table load	1 t
Spindle speed	12.000 U/min
Travel distances	
X-axis	1.035 mm
Y-axis	560 mm
Z-axis	510 mm



Connection Technology

In the metal sheet-Business, riveting- and nailing down is simply just not enough, therefore system7 metal technology features bolts, bushings and sleeves...



CNC-controlled insertion machines

for accurate insertion of bolts, bushings and sleeves

CNC-controlled stud welding machine

max. thread size	M8x50
max. workpiece size	1500 mm x 2700 mm



Welding

system7 metal technology has exceptional welding expertise: steel, stainless steel and aluminium are welded by robots or manually if required. Some welding methods to choose from are MAG, MIG, TIG, TIG cold wire or MIG brazing. Certification according to DIN EN 15085-2 CL1 enables us to weld statically stressed components in the railway vehicle sector. The impressive Hywema Duo lifting and rotating device can lift up to 5 tons of heavy loads in every thinkable position.



Robotized welding

Aluminium, steel and stainless steel

max. workpiece size

2.000 mm x 1.200 mm x 800 mm

max. weight

800 kg

Manual Welding

Aluminium, steel, niro steel, pipes

Steel thin and thick plates

Steel-aluminium-zinc coating

Hywema-Hub- Rotating devices

Type

HDV-DUO/HDVD050-100A3

Load capacity

5.000 kg

Torque

10.000 Nm

max. component length

7,0 m



Surface Technology

It is not all gold that glitters... it is often “only” just a sheet of metal. Whether glossy or matt, powder-coated or painted - our modern 4-zone system makes it possible to provide each piece with the required finishing touch. Oversized or complex parts are carefully retouched by hand.



Powder coating and wet varnishing

Materials: steel, niro steel, aluminium, synthetic materials of any kind

max. size

3.000 x 1.500 x 700 mm

Components and subassemblies for aviation and rail transport

Ultra-modern machinery, relevant certifications and approvals as well as sophisticated quality assurance systems, make system7 metal technology a competent partner in aviation and railway transport.

Particularly in the aviation industry, the requirements for quality and safety are very high. Numerous well-known OEMs and aerospace manufacturers, use system7 metal technology to produce structures and interiors of various aircrafts.

The certification according to Part 21 of the European aviation authority EASA is currently underway.

In addition, system7 metal technology possesses relevant approvals and certificates in the rail transport industry. When combined with dedicated railway know-how and the innovative solutions from our sister company system7 rail support, exceptional synergies with our customers are to be expected.



Quality assurance

system7 metal technology has a highly developed integrated quality management system. Individual production steps accompanied by constant quality control; all products are subjected to comprehensive final inspections. All processes are certified and are constantly reviewed and improved.

In addition to all common methods of material testing there is also the possibility of non-destructive material testing. system7 metal technology meets all requirements of a modern, state of the art quality assurance.

Comprehensive certification

In addition to the certification according to ISO 9001, 14001 and 3834-2 system7 metal technology complies with the DIN EN 15085-2 CL1 for the welding of railway vehicles.

The certification process is currently being certified by the European aviation authority EASA, Part 21. Numerous OEMs and aerospace manufacturers use system7 metal technology as an approved supplier.

- EASA Part 21 (certification under way)

- CL1 according to DIN EN 15085-2

- Austria Quality Seal

- ISO 14001: 2008

- IGP certificate *)

- ISO 9001: 2008

- EN ISO 3834-2

*) for the application of highly weatherproof powder facades



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