



INTEGRAL METALLURGICAL SERVICES

LASERGRAN 

BROCHURE 2021

Lasergran is a leading company in the metallurgy sector, which operates nationwide. We have 50 years of professional experience, in addition to over 24,000 m² of covered installations. We also work with the most advanced technological and computer resources on the market.

Lasergran provides all manner of metallurgical transformation services on-site, with no sub-contracting and a permanent stock of materials, resulting in significant savings in terms of delivery times and production costs.

Nowadays, we operate from four production sites. These comprise our headquarters in Santa Fe (Granada), our central area branch in Alcala de Henares (Madrid), our eastern area branch in Quart de Poblet (Valencia) and our northeast branch in Santa Perpètua de Mogoda (Barcelona).

BUDGET



Budget in record time

DESIGN



CAD/CAM design and technical support

STOCK



Permanent Stock +300 materials

CUTTING



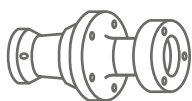
Fibre laser, plasma, oxy-fuel, waterjet

BENDING



Precision bending up to 8 m

MACHINING



All types of machining

MANUFACTURING



Parts and complete machine manufacturing and assembly

FINISHING



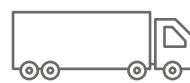
Coatings and surface finishes

QUALITY



Quality assurance and review

TRANSPORT



Urgent 24h shipment

We provide all manner of metallurgical transformation services on-site, with no sub-contracting and a permanent stock of materials

INTEGRAL METALLURGICAL SERVICES

LASERGRAN



Services for manufacturing parts, semi-manufactured products and entire machines

- Laser cutting for sheet metal up to 12,000 x 3,000 mm.
- Laser cutting for tubes.
- Precision bending.
- High definition plasma cutting (3D).
- High definition plasma tube cutting.
- Oxy-fuel cutting.
- Waterjet cutting.
- Punching.
- Shears cutting.
- Sheet bending.
- CNC lathe machining.
- CNC machining centre.
- Various machining with conventional machinery.
- Arc, MIG and TIG welding.
- Placement of electro-welded inserts.
- Placement of riveted inserts.

Services for surface finishes

- Powder coating in oven.
- Liquid painting in cabinet.
- Fine shot blasting for stainless steel.
- Coarse shot blasting for carbon steel.
- Deburring, sanding and satin works in automatic machine.
- Zinc plated*.
- Tinned*.
- Nickel plated*.
- Anodized*.
- Hot dip galvanized*.
- Thermal treatments*.

* Only these services are outsourced to other companies.

VALUES

- | | | |
|--|---------------------------|------------------------|
| · SECTOR LEADING COMPANY | · SPEED AND TRANSPARENCY | · PERMANENT STOCK |
| · 50 YEARS OF EXPERIENCE | · PERSONALISED ATTENTION | · LATEST TECHNOLOGY |
| · 24,000 M ² OF INSTALLATIONS | · SPECIALISED TECHNICIANS | · QUALITY GUARANTEE |
| · OPEN 24H | · DESIGN SOLUTIONS | · SHORT DELIVERY TIMES |

DESIGN AND SUPPORT

We are a great technical and human team capable of meeting all your requirements. We advise dozens of customers daily regarding their choice of appropriate materials and manufacturing techniques to successfully complete their projects.

We have more and more satisfied customers every day. This is all thanks to the efforts of our graphic designers, industrial developers, draftsmen, and mechanical engineers.



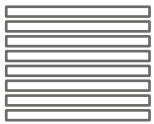
BUDGET

As soon as we receive an enquiry from a client, our technical department starts looking for the best solution in the shortest possible time.



PERSONALISED ATTENTION

Each client is assigned to a specialised technician. This ensures continuous contact with the same person.



STOCK

The choice of materials is especially important. We have a permanent stock of over 300 materials in order to speed up orders.



DESIGN

We use specific drawing development and processing techniques, as well as designing parts, assemblies, and entire machines in both 2D and 3D with SolidWorks.



TECHNICAL DEVELOPMENT

QUALITY

We're committed to always providing the highest quality services. We meticulously supervise every step of the production process, in order to guarantee the satisfaction of our customers.

INNOVATION

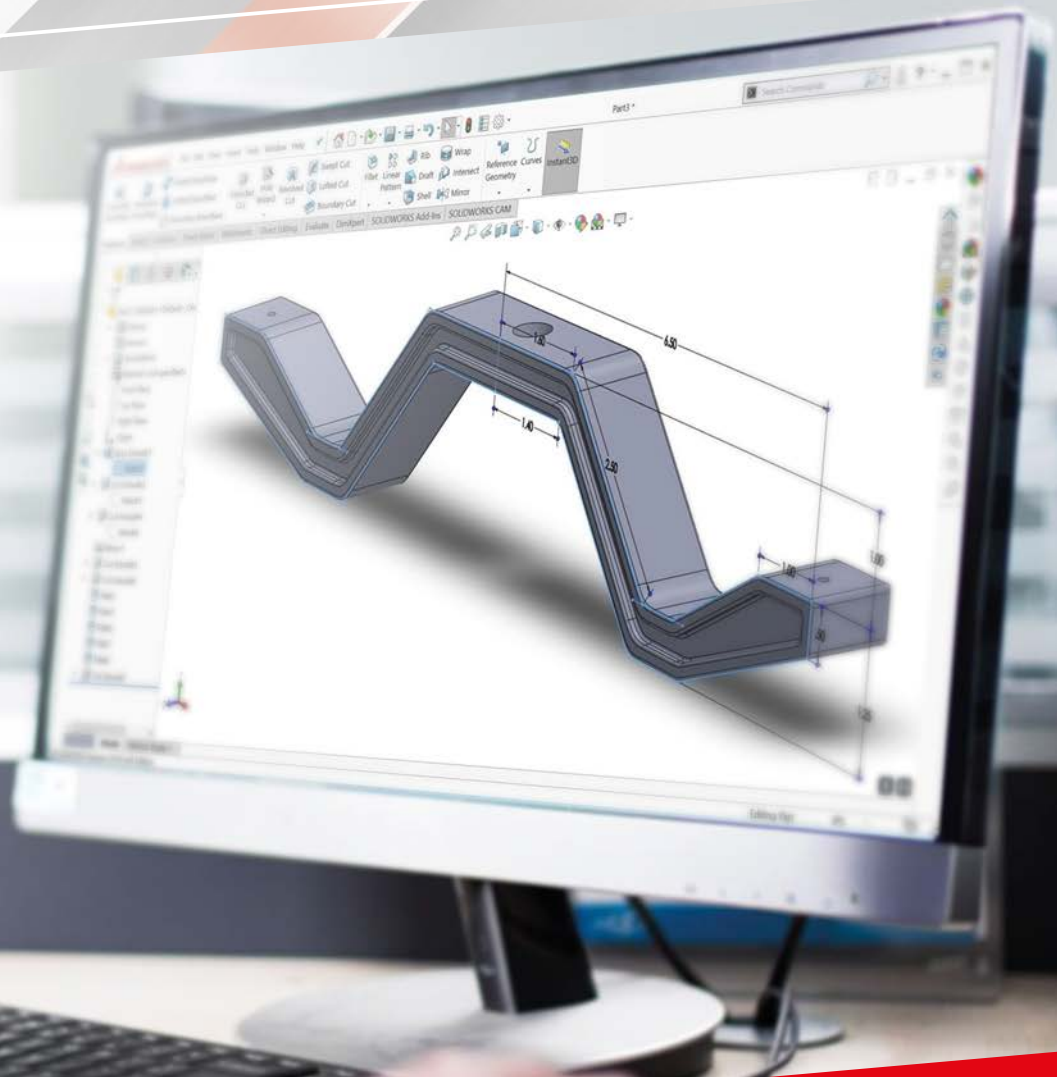
We have a highly optimized workflow which guarantees the greatest agility in all production steps, from the fast elaboration of a budget to the delivery of the final product.

SPEED UP

We are committed to innovation, which is why we use the most advanced technological media and devices on the market. This allows us to operate with maximum efficiency and allows us to tender the best service.

SUPERVISION OF PROCESSES

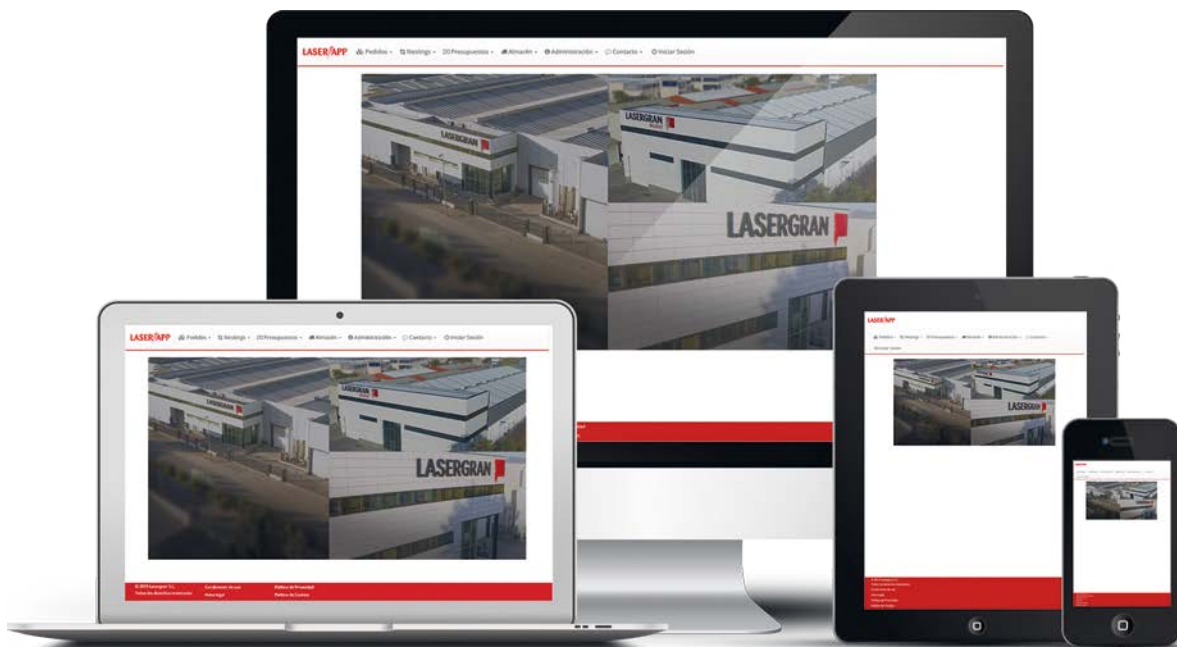
Thanks to our LASER APP, you can monitor each step in the process of manufacturing your product in real time.



LASER//APP

REMOTE CONSULTATION OF ORDERS

Always committed to offering the highest quality and transparency in our services, we have an application, developed by our IT department, which enables customers to consult the status of their orders remotely, from anywhere. Therefore, you know in real time what stage of the manufacturing process your order is at. Once the order is completed, you can download a copy of the delivery note, the invoice and the corresponding sheet metal certificates. In addition, you will be able to know the transport agency and shipping issue number.



**MANAGE YOUR ORDERS
WHEREVER YOU ARE**

LASER//APP FEATURES



START SESSION

In order to access the application and monitor the details of your order, you need to register your credentials and then log in with a password that will be assigned to you and can be changed later.



ORDERS

Get information about your orders and know its status in real time. The different process phases: (performed/ongoing/ready to start/awaiting) are represented by a series of icons and different colours, depending on the specific production phase.

GREEN: performed | **BLUE:** ongoing | **YELLOW:** ready to start | **RED:** awaiting

Visualize in detail the status of each process:

✂ Laser cutting, 💧 waterjet cutting, ✂ plasma cutting, 🌀 tube cutting, 📦 picking, 📖 bending, ⚙ machining, 🖌 painting, 🔗 welding, 🏠 galvanized, 💨 blasting, ● punching and * other works.

Once the order is finished, you can:

- Download a copy of the delivery note.
- Download a copy of the invoice.
- Download a copy of the corresponding sheet metal certificate.
- Find out the transport agency and shipping issue number.



CONTACT

Through the application, and from each order, you can get in contact with the technician responsible by filling out a form. You will receive an answer at our earliest convenience.

**EXCLUSIVE APP FOR
LASERGRAN CLIENTS**

LASER CUTTING

SHEET AND TUBE

HIGH SPEED AND PROFITABILITY

We invest in the acquisition and renovation of the best machinery available on the market, so we work with the most advanced technological and computer resources.

Top machinery is mainly reflected in the increase of the cutting speed, up to 7 times higher in some thicknesses, in a higher quality of cut in high thicknesses, and in the possibility of cutting other materials, such as copper, brass and titanium.

The possibility of machining tubes with a tool as efficient and precise as a laser cutter has revalued and made fashionable the manufacture of parts from tubes and commercial profiles. The machining of tubes and profiles with old and/or traditional techniques (sawing, drilling, milling) has been practically written off by the industry. Laser cutting facilitates very low manufacturing costs and almost unlimited machining possibilities.

9 LASER CUTTING MACHINES

- 1x 12,000 W Fibre machine with 4,000 x 2,000 mm bedplate (latest generation).
- 2x 12,000 W Fibre machine with 3,000 x 2,000 mm bedplate (latest generation).
- 1x 10,000 W Fibre machine, 2 heads and 12,000 x 3,000 mm bedplate (large format).
- 1x 10,000 W Fibre machine with 3,000 x 1,500 mm bedplate (latest generation).
- 1x 8,000 W Fibre machine with 3,000 x 1,500 mm bedplate.
- 2x 6,000 W Co2 machine with 3,000 x 1,500 mm bedplate.
- 1x 4,200 W Fibre machine for cutting tubes with a maximum diameter of 245 mm and 9,200 mm of length (large format) with chamfering head and motorized tools for drilling, tapping and countersinking.



LASER CUTTING FEATURES

CUTTING CAPABILITIES

- Carbon steel cutting up to 50 mm.
- Stainless steel cutting up to 50 mm.
- Aluminium cutting up to 40 mm.

ARTIFICIAL VISION

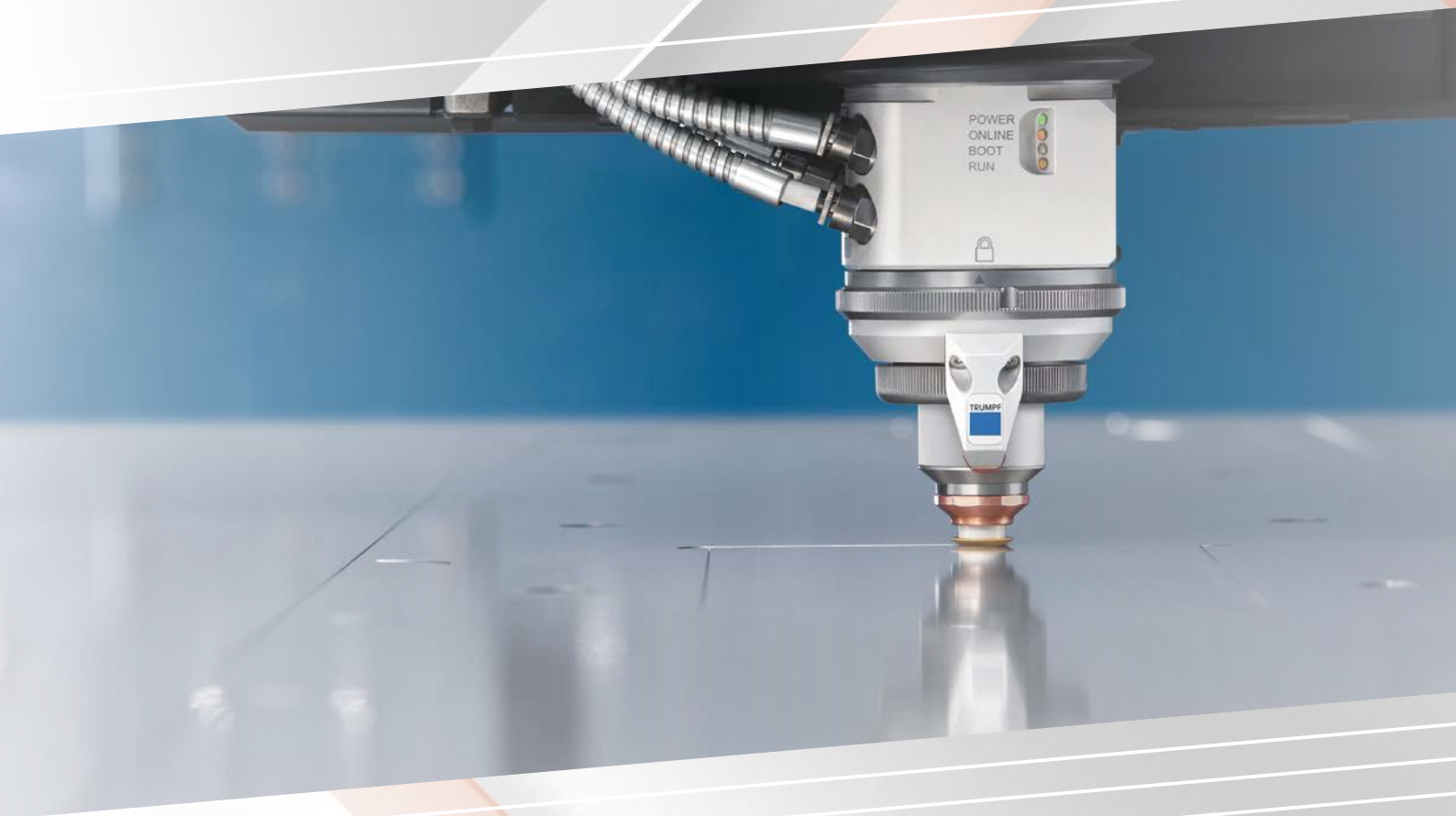
With this smart camera system we can re-machine with precision, parts that have already been cut.

BRIGHT EDGES

This cutting process enhances considerably the appearance on the edges of the thicker stainless steel parts (smoother and brighter).

COOLING IN CUTTING

Best performance to avoid deformations and stimulate the final quality of the cut, especially in thick pieces with holes.



ADDITIONAL FEATURES

- Tube laser cutting guaranteed quality and safety in the processes.
- Possibility of making intersections, joints, articulations, precise cuts, etc.
- Ability to machine round, square, rectangular tubes, beams, angle profiles, or other profiles.
- Profitable even for few units.

PLASMA AND OXY-FUEL CUTTING SHEET AND TUBE

We put a powerful oxy-fuel machine (cutting by torch) and high definition plasma cutting machine at your disposal, equipped with:

- **Kjellberg Hifocus 440 i**, the best plasma generator on the market.
- Lathe for machining pipes and beams from medium to large size.
- Bevelling head.

New plasma cutting technologies provides:

- Exterior and interior cuts with laser cutting appearance, even with diameters of holes smaller than thickness.
- It is suitable for cutting carbon steel, stainless steel and aluminium up to a thickness of 50 mm.



PLASMA AND OXY-FUEL CUTTING FEATURES

CAPABILITY OF PLASMA CUTTING

Carbon steel

Hifocus high quality up to 50 mm.

Stainless steel

Hifocus high quality up to 50 mm.

Aluminium

Great quality up to 40 mm. Maximum 60 mm.

Tube cutting

Thicknesses up to 50 mm.

Up to 600 mm diameter x 16,000 mm long.

OXY-FUEL CAPABILITY

For greater thicknesses.

Up to 200 mm.



WATERJET CUTTING BYJET FLEX

We continue to invest in technology in order to attend to our customers' orders. For the best quality, we recommend the services of a high pressure waterjet cutting machine:

- **Bystronic Byjet Flex L 8030.**

- Advanced with 4 heads and 2 pressure groups of 5,000 bars in order to give a higher performance.
- Sheet metal cutting dimensions up to 3,000 x 8,000 mm and thicknesses up to 120 mm.
- Unprecedented quality and level of detail, meaning that a finishing process may not be necessary.

Waterjet cutting technique is especially interesting for materials that can be affected by heat. In addition, it is not limited to sheet metal, various materials can be used, including plastic, glass, wood, marble, etc.



WATERJET CUTTING FEATURES

Dimensions

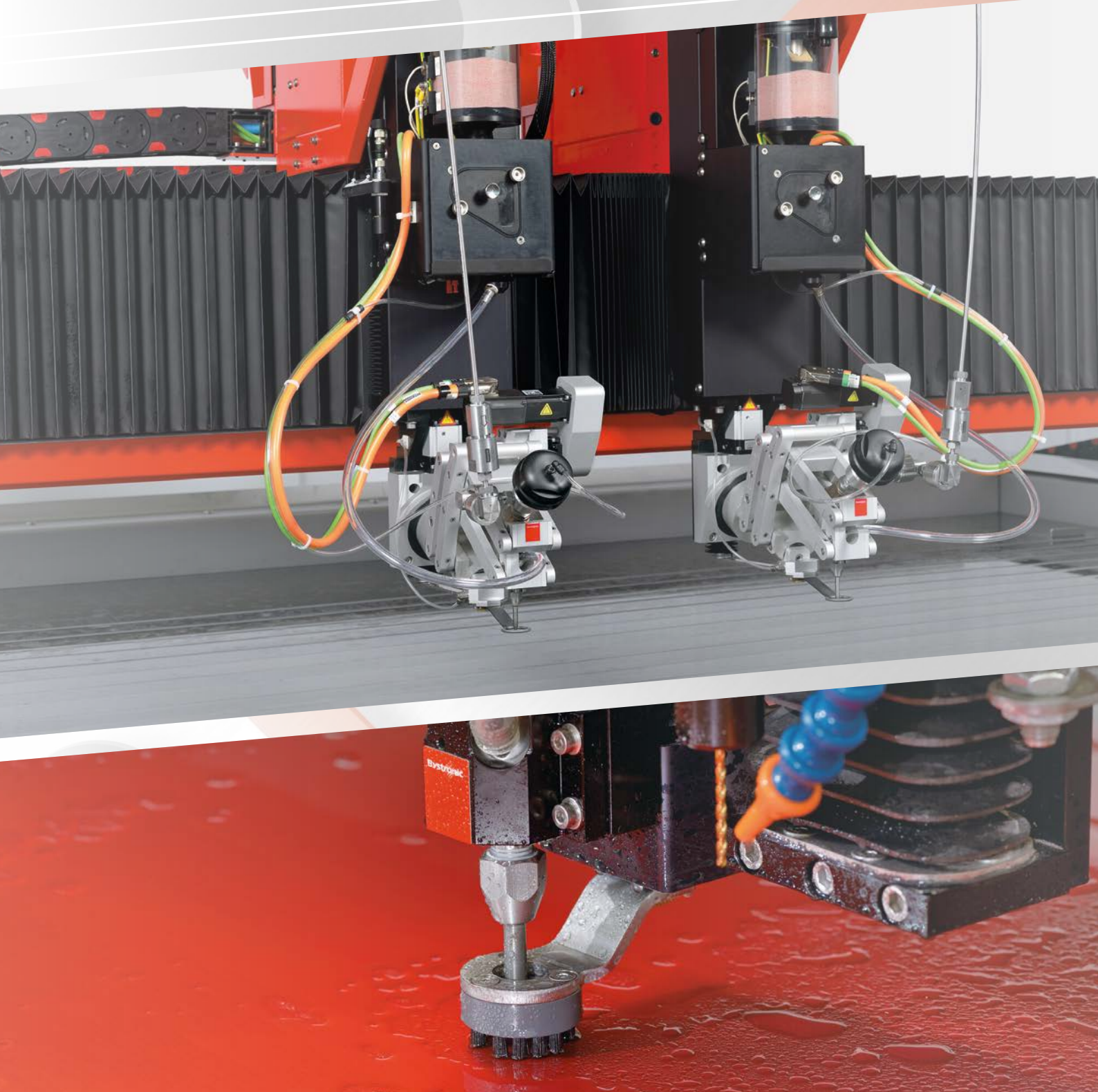
Up to 3,000 x 8,000 mm.

Thickness

Up to 120 mm.

Materials variety

- Metal.
- Plastic.
- Glass.
- Wood.
- Marble.



HIGH PRECISION BENDING UP TO 8 M

All the processes involved in the manufacturing of a quality part are important, but with regards to bending processes, we realize that in addition to having the best machinery on the market, it is essential to have the best officers.

15 BENDING MACHINES

- 1x Bending machine with 8 m of length and 600 Tm of pressure.
- 3x Bending machine with 4 m of length and 250 Tm of pressure.
- 1x Bending machine with 4 m of length and 200 Tm of pressure.
- 1x Bending machine with 4 m of length and 150 Tm of pressure.
- 7x Bending machine with 3 m of length and 150 Tm of pressure.
- 1x Bending machine with 3 m of length and 100 Tm of pressure.
- 1x Bending machine with 1 m of length - High speed.



BENDING TECHNOLOGY



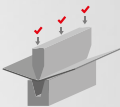
> Automatic measurement of material thickness

Bending calculations are corrected during the process depending on irregularities in the thickness of the material.



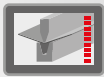
> Integrated process control

This control guarantees the automatic measurement of the rebound of the sheet and angle correction.



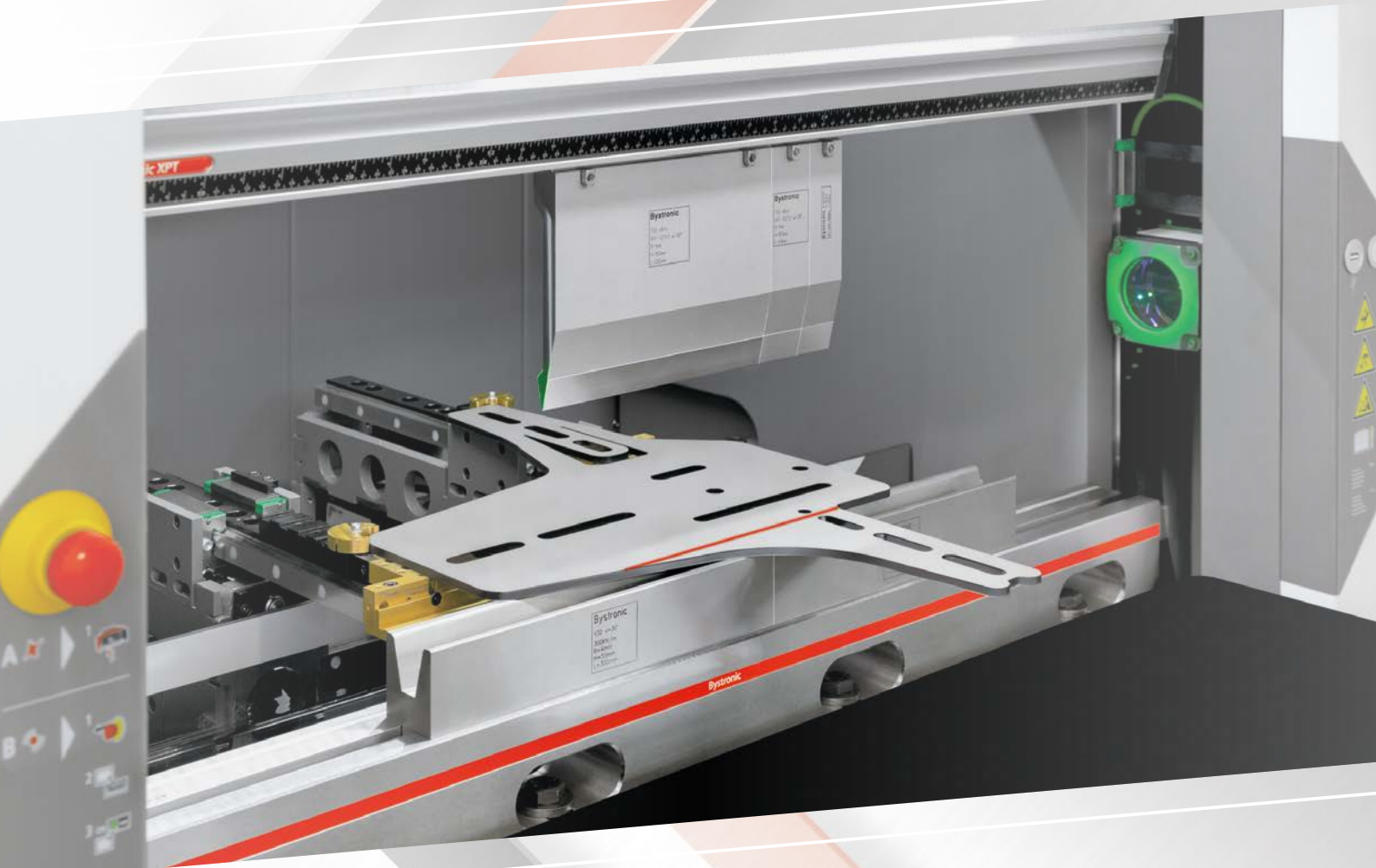
> Dynamic hydraulic pumping

Important system to guarantee that long pieces are properly bent in their central zone.



> Automatic control of pressing precision

The regulation of the pressing pressure is dynamic during the bending process. If the shape of the part requires different bending pressures, the machine will consider this and recalculate automatically.



MACHINING OF PARTS

At Lasergran we are responsible for finding the best technical solutions, not only in machining processes but also in management processes for the industrial sector in accordance with new technologies and materials. This means we can undertake the orders entrusted by our customers effectively and in the shortest time possible.

Our 50 years of experience in manufacturing processes such as machining, has earned us prominence in the sector. This makes us a reference for companies in search of quality work, quality of finished parts, fast delivery times, and a clear focus on customer service.



MACHINING SERVICES

MACHINERY

We have modern CNC machining, lathe and milling centers, as well as a complete set of conventional machinery to fulfil any order.

INDUSTRIES

We manufacture precision parts for clients in multiple industries such as capital goods manufacturers, food, iron and steel, furniture, among others.

QUALITY

We provide the highest quality products, punctuality in delivery times, and a considerable reduction in production costs.



SEMI-FINISHED AND END PRODUCT MANUFACTURE

**We manufacture everything from single part
to the most sophisticated machinery**

Thanks to our loyalty program, our customers will be able to benefit, among other things, from the possibility of manufacturing and assembling semi-finished and end products.

The wide range of services that Lasergran proposes, in addition to its commitment to producing products of the highest quality, increasingly the likelihood of our clients to entrust us with projects, from the production of parts to the final assembly of the product, including:

- Laser cutting.
- Plasma and oxy-fuel cutting.
- Waterjet cutting.
- Bending.
- Machining.
- Surface finishes.

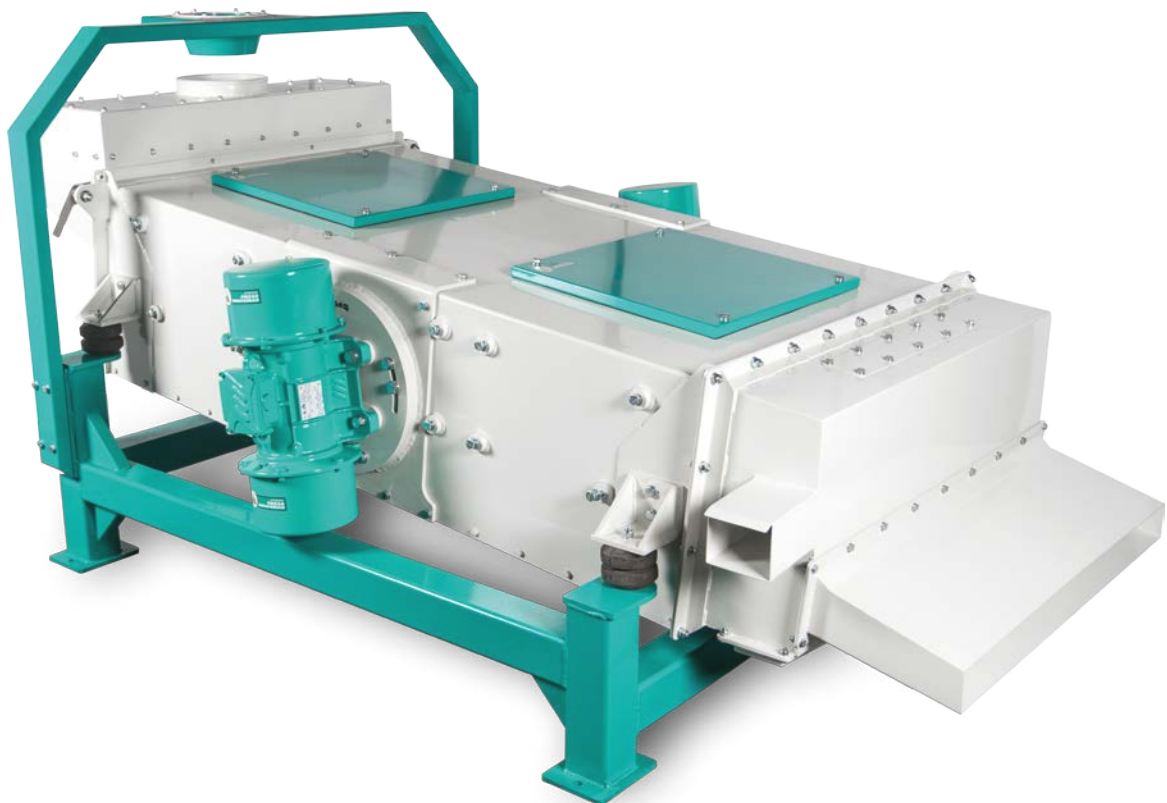
In addition to the subassembly works, we also offer final product assembly, which includes the use of commercial elements such as:

- Bearings.
- Transmission and Power elements (gear motors, motors, etc.).
- Pneumatic and hydraulic components.
- Electrical and electronic equipment.



PROCESSES

- Homologation in Metallic Structures - UNE 1090.
- Placement of electro-welded and riveted inserts.
- Welding with Electrode, MIG, TIG, Resistance by points and Oxyacetylene.
- Welding with triple pulsed Arc machines.
- Continuous punching and metal drawing operations.
- Different roll bending machines for thick and thin sheet metal.
- Mechanical adjustments for final assemblies.
- Specialists in pneumatics, hydraulics, electricity and electronics.



All work is are carried out at our production sites, with own staff and machinery and without outsourcing to third parties

SURFACE FINISHES

We have a plant for painting parts with powder coating in an oven. This plant is equipped with:

- 30 m long 5 phase treatment tunnel:
 - Washing and degreasing with saline base and surfactants.
 - Rinse with osmotic and demineralized water.
 - Nano technological process with double layer of Zirconium and Silurus. A non-chromic conversion is applied to expand the adhesion and corrosion resistance of the treated material.
- 17 m long moisture drying oven.
- Fast colour changing painting cabinet.
- 27 m long polymerization oven.



SERVICES FOR SURFACE FINISHES

- Powder coating in oven.
- Liquid painting in cabinet.
- Fine shot blasting for stainless steel.
- Coarse shot blasting for carbon steel.
- Deburring, sanding and satin works in automatic machine.
- Zinc plated.
- Tinned.
- Nickel plated.
- Anodized.
- Hot dip galvanized.
- Thermal treatments.



We offer a wide range of finishes,
material coatings and corrosion
protection techniques

QUALITY GUARANTEE

Lasergran's commitment to working in compliance with the current ISO and UNE regulations, guide us in our operations. It is a guarantee of safety and quality, and places us in a better situation on the global stage. Worker health and safety, system quality, and responsible environmental management are issues that concern and influence us all.

We have a Quality Department that continuously examines the compliance of all regulations and carefully supervises each step of the production process, in order to guarantee the satisfaction of our customers.



**We offer a quality guarantee and we
comply with all current regulations**

OUR CERTIFICATIONS



Quality Management System ISO 9001

At Lasergran we are dedicated to continuous process improvement and to providing the best quality customer service. In order to achieve this, we apply the ISO 9001 regulation that provides us with a great number of advantages:

- Increased customer satisfaction.
- Continuous improvement of processes.
- Reduction of rejections and incidents in production.
- Productivity increase.



Environmental Management System ISO 14001

Our devotion to respect the environment is absolute, and therefore, in our production chain we apply a series of guidelines from which we can maintain an Environmental Management System. The set of applied regulations are subjected to ISO 14001, through which we review all the management aspects of our company in relation to our environmental responsibilities, in order to improve our environmental behaviour.



Safety and Health at Work System ISO 45001

The application of ISO 45001 helps us to identify, prioritize and manage occupational health and safety as part of our common business practices. The regulations allows us to establish, maintain and improve a Health and Safety Management System to standardize the policy and to demonstrate compliance.



Steel and Aluminium Structures Execution UNE-EN 1090 and Thermal Cutting (Laser)

Lasergran is accredited to carry out the CE Marking of steel and aluminum structural components manufactured under Factory Production Control. The verification of the quality of the Thermal Cut of our equipment complies with the requirements defined in the standard for execution class EXC4, specifically with regard to the perpendicularity of the cut, roughness of the same and hardness of the free edge.

Welding of railway vehicles and components UNE-EN 15085

We carry out the welding of metallic materials during the construction and maintenance of railway vehicles and their components, under the provisions required in the series of standards EN ISO 3834. We provide reports of inspections and tests (destructive and non-destructive) carried out in the welds, as well as the declaration of conformity of the products, issued by an IWE International Welding Engineer.

URGENT TRANSPORT

At Lasergran we use the services of major transport companies, which work with us collecting daily, delivering within 24 hours, and charging competitive prices.

We also have a great fleet of our own trucks and shipping crew to connect our branches daily with the rest of the country, delivering goods to our customers directly and without transfers. With this service we guarantee that your orders arrive on time and intact.



24h SHIPMENT
Always faster than standard delivering
You want it now, you've already got it



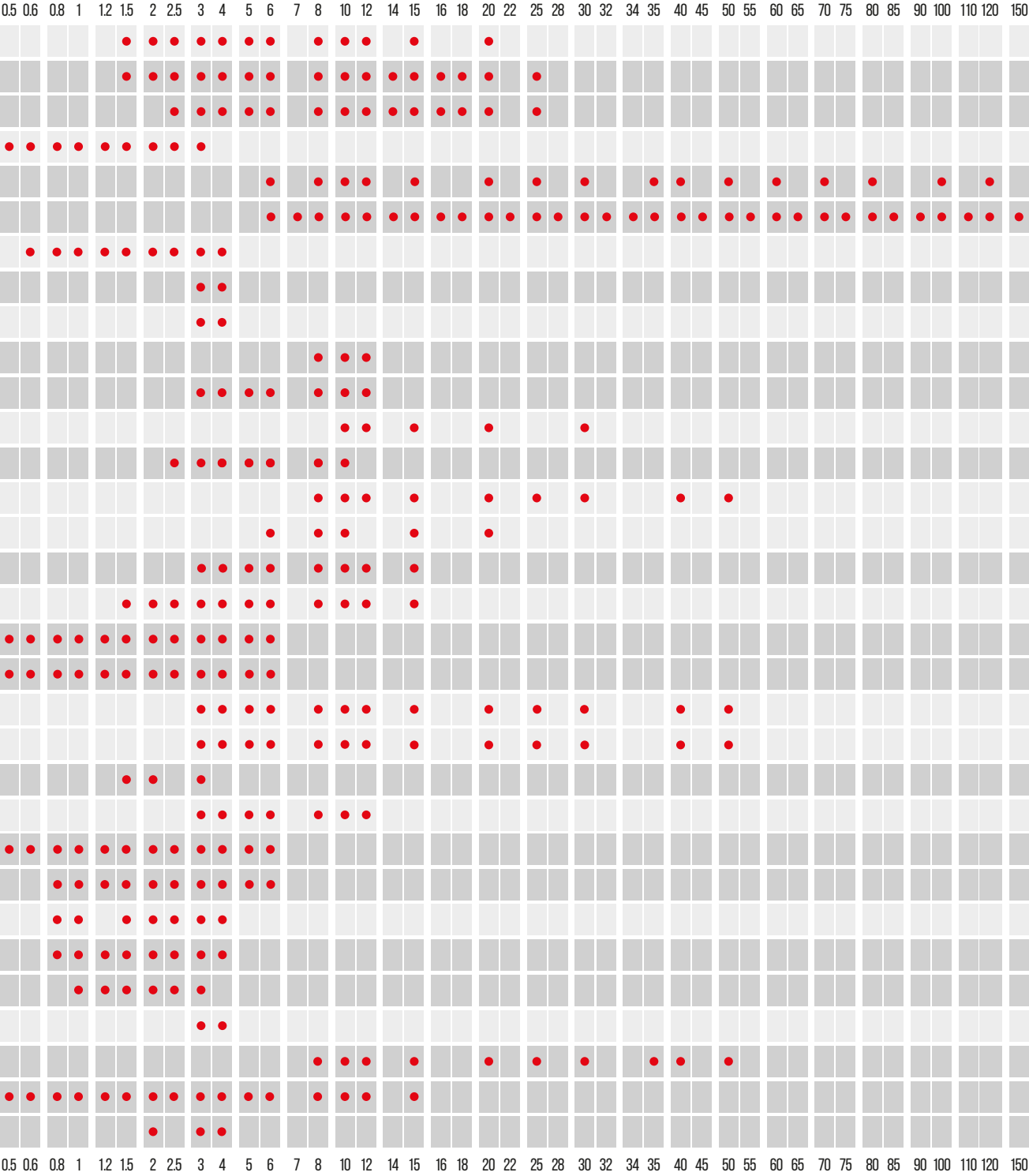
Own urgent transport

PERMANENT STOCK

We have a wide stock of more than 1,500 tonnes of sheet metal classified in more than 300 references located in an automated warehouse that is permanently at your disposal.

Type of Metal	Designation	Grade
Steel for manufacturing of parts High quality laminated sheets, best material for laser cutting. Coming from coils (pickled, black, cold rolled and galvanized sheets). Coiled Steel sheets - available stock Width: 1,000, 1,250, 1,500 and 2,000 mm, lengths up to 12,000 mm. Industrial Steel plates (large dimensions), available specially for shot blasting and painting Best choice for plasma and oxy-fuel cutting. Industrial Steel plates - available stock Width: 2,000 and 2,500 mm, lengths up to 13,500 mm.	Pickled sheet	S275JR
	Black rolled sheet	S275JR
		S355J2+N/S355MC
	Cold rolled sheet	DC01
	Hot rolled sheet	S275JR
		S355J2+N
	Galvanized sheet	DX51+Z140/Z275
	Hot rolled floor sheet – drop marks	S235JR
	Hot rolled floor sheet – stretch marks	S235JR
Special Steel plates	High elastic limit plate	S420MC
		S700MC
	High elastic limit plate (wider)	S700MC
	Abrasion resistant plate	400/450 HB
		400/450 HB
	Abrasion resistant plate (wider)	500 HB
		500 HB
Stainless Steel	F-114/C45 sheet	F-114/C45
	Anti-corrosion sheet Corten	S355J2W
		S355J2W
	Cold rolled stainless steel sheet	AISI 304
		AISI 316
	Hot rolled stainless steel sheet	AISI 304
		AISI 316
	Ferritic stainless steel sheet (gloss or matte finish)	AISI 430
	Heat resistant stainless steel sheet (hot or cold rolled)	AISI 310
	1-sided mirror polished stainless steel sheet	AISI 304
		AISI 316
	Cold rolled stainless steel sheet + 1-sided PVC	AISI 304
	1-sided satin finish stainless steel sheet	AISI 304
		AISI 316
	Teardrop stainless steel sheet	AISI 304
Aluminium	Aluminium sheet	5083
		5754
		Checkerboard

Thickness



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SOCIAL MEDIA

