



**SPECIALIST
MACHINERY
SALES**

AUSTRALIA, NEW ZEALAND & SE ASIA

THOUGHT-LEADER IN STEEL PROCESSING AUTOMATION

SUPERIOR MACHINERY SYSTEMS

XXL WELDING APPLICATIONS FOR LARGE SHEET METAL WELDING PROCESSES



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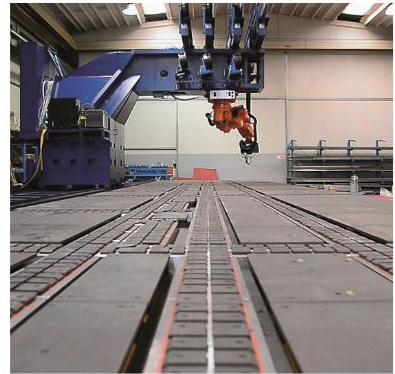
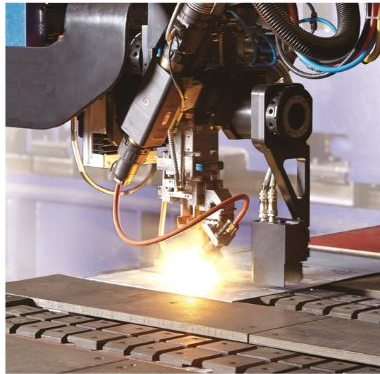
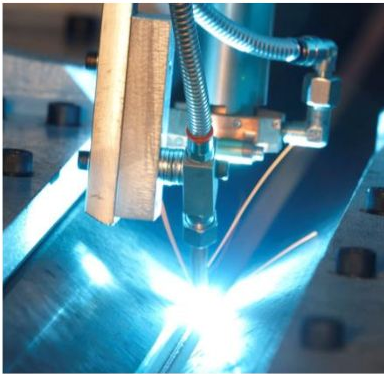
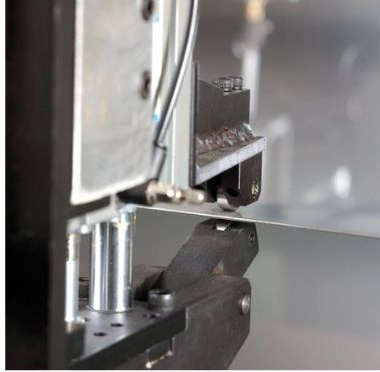


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XXL PLATE LINES

WELDING LINES FOR THE PRODUCTION OF NON-FORMED SHEETS

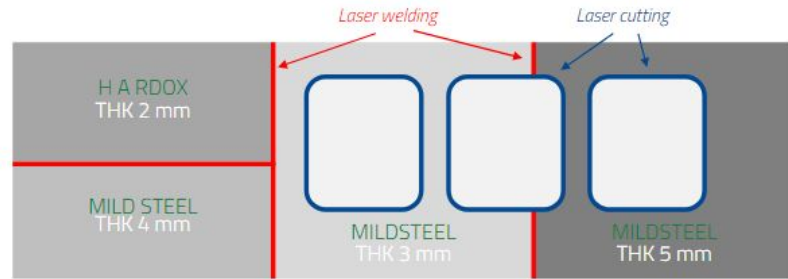
General Overview

A custom or custom-welded sheet (also called Tailor-Welded Blank or TWB) is a sheet made up of steel parts of different strength or thickness, joined by laser welding.

The main advantage is the opportunity to place the optimal thickness and strength of the steel where they are most needed, thus optimising the weight and consequently reducing the production cost. The same line can also be set up to cut the panel creating windows, passages, doors.

Applications

- Railway
- Service Centres
- Road Transport
- Naval



**LASER WELDING TECHNOLOGY IS THE BEST CHOICE
FOR NO BULKY WELDING BUMPS AND HIGH-QUALITY JOINTS**

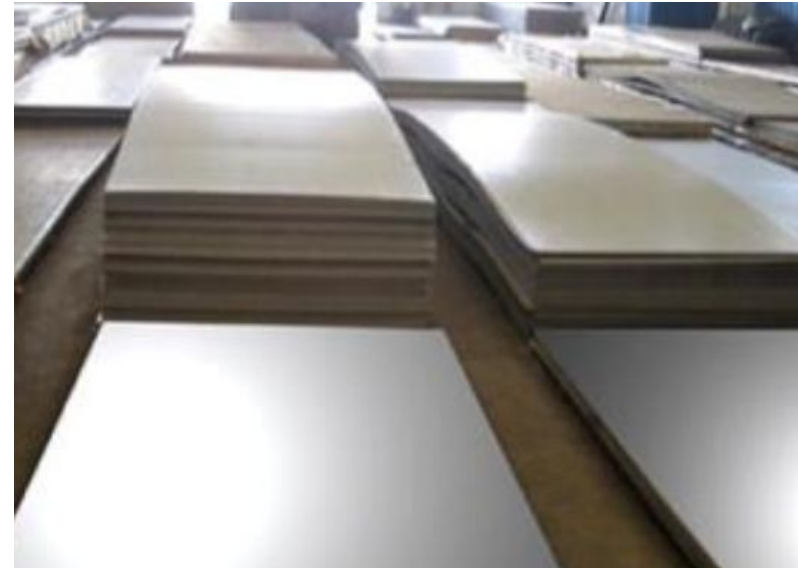


XXL PLATE LINES

WELDING LINES FOR THE PRODUCTION OF NON-FORMED SHEETS

Advantages and specifications of customised welding and laser cutting lines for non-format sheet metal

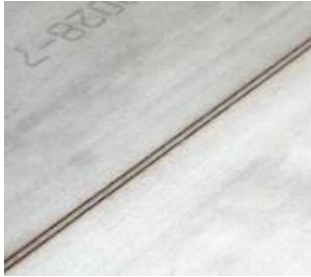
- Large dimensions (no theoretical limit, neither in width nor in length)
- Materials: carbon steel, stainless steel, HSS, Docol, Domex, Hardox
- Thickness: up to 25 mm with thickness change
- Welding technologies:
 - Autogenous
 - Cold wire
 - Hybrid (HLAW)
- Online joint tracking
- Possibility to perform non-linear welding (robotic solutions)
- Off-line programming
- Fully integrated material management system (from warehouse to finished products)





LASER WELDING

FLEXIBILITY OF LASER WELDING TECHNOLOGY



Welding between two sheets, one in stainless steel and one in carbon steel



Welding of two carbon steel sheets with bend on the welding line



Welding between two stainless steel sheets



Welding between two stainless steel parts of different thickness



Welding between two different types of steel and different thicknesses



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TWL, TWC AND TWCe SERIES

TRANSVERSAL WELDING LINES





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TWL, TWC AND TWCe SERIES

TRANSVERSAL WELDING LINES

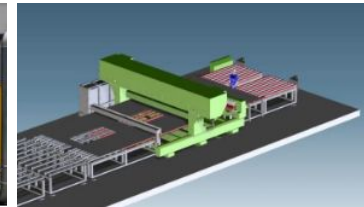
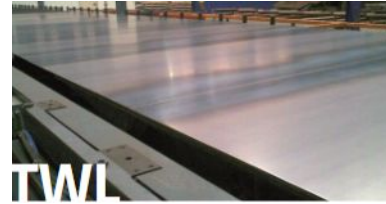
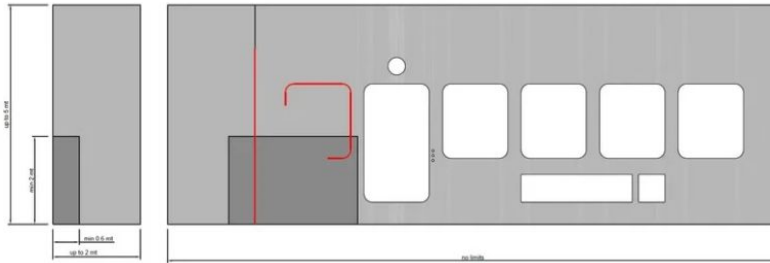




TWL, TWC AND TWCe SERIES

TRANSVERSAL WELDING LINES

The TWL, TWC and TWCe series have been designed to simplify the production of railway carriage walls starting from rectangular sheets of standard (commercial) dimensions. The result is a large sheet of metal complete with all the windows, doors and openings necessary for its use. The width of the final sheet normally varies between 3 and 6 meters, while there are no limits in length!





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LWC AND LW SERIES

LONGITUDINAL WELDING LINES

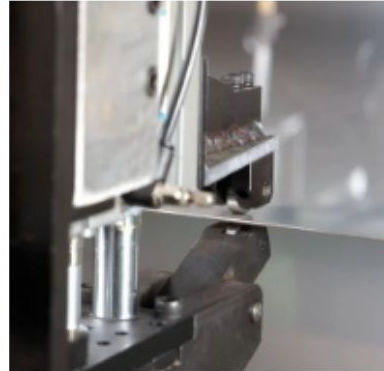




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LWC AND LW SERIES

LONGITUDINAL WELDING LINES

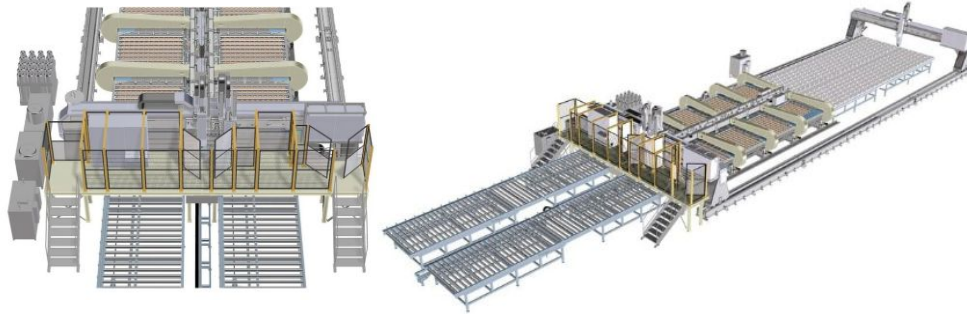
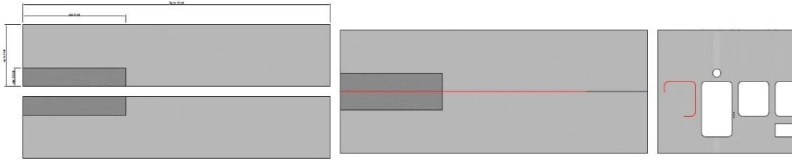




LWC AND LW SERIES

LONGITUDINAL WELDING LINES

Specially designed to allow longitudinal welding of long sheets, the application can vary considerably depending on the actual needs of the end user. Typically designed with the Boomerang clamping device which makes the solution well known and recognised in the market.





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XW AND XWC SERIES

EXTRA-LONG TRANSVERSE WELDING LINES





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XW AND XWC SERIES

EXTRA-LONG TRANSVERSE WELDING LINES

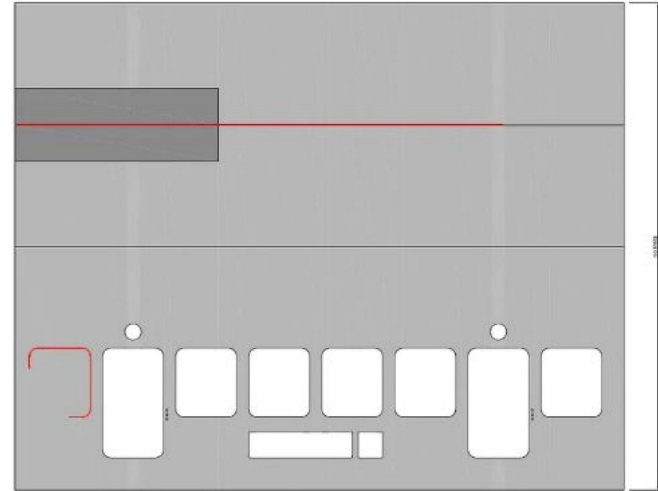




XW AND XWC SERIES

EXTRA-LONG TRANSVERSE WELDING LINES

These lines are designed to produce sheets/panels of large width and without length limits. Typical uses of this solution are shipyards or Service Centers equipped with large CNC machines.

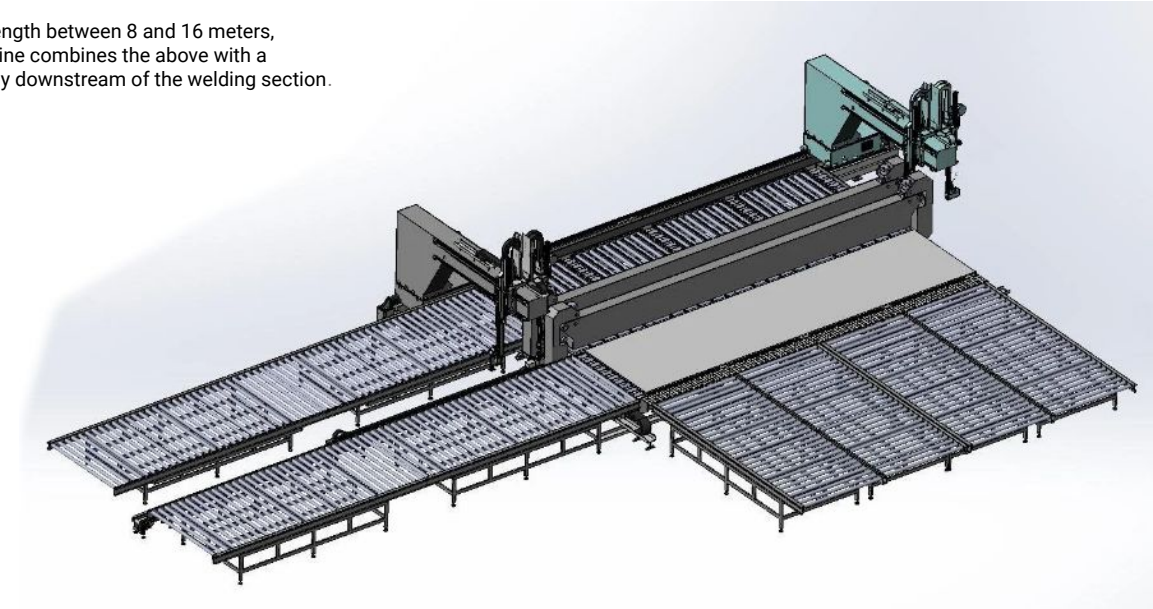




XW AND XWC SERIES

EXTRA-LONG TRANSVERSE WELDING LINES

The XW line typically operates with sheets of length between 8 and 16 meters, obtaining a very large welded panel. The XWC line combines the above with a dedicated cutting solution installed immediately downstream of the welding section.





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RVP SERIES

ROBOTISED SOLUTIONS



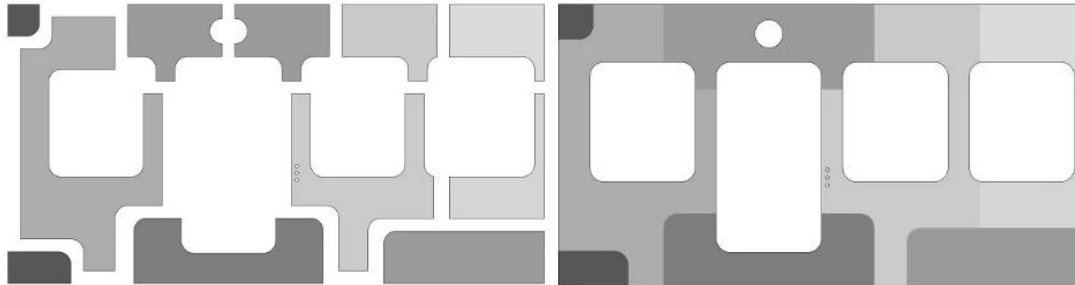


RVP SERIES

ROBOTISED SOLUTIONS

Flexibility at its limit! The RVP solution allows the production of complete sheets by applying the right material (material, thickness, treatment) in the right place. The machine is designed to weld a “puzzle” or a “patchwork” of sheet metal they are normally already pre-cut.

The result is a very high-performance solution which guarantees the optimisation of the weight and robustness necessary for the design of the high-speed trains. This is the ultimate technology for Rail Vehicle Production lines



WHY CHOOSE CASTELLINI

Founded in 1949 by Giuseppe Castellini as a mechanical workshop for reconvertng warfare residues for industrial use, over the years the company has undergone several transformations depending on emerging industrial opportunities. By virtue of its continuous investments in human capital, production facilities, and research and development activities, as well as its clear-cut corporate policy, Castellini has evolved into a well-organised company with an expert design and production team, a modern mechanical workshop, and state-of-the-art assembly department.

Nowadays, Castellini is a trusted partner of major steel producers and steelworks constructors but also in the Energy, Hydroelectric, and Shipbuilding sectors.

Sustainability

“Our commitment is to leave to future generations a sustainable and innovative project centred on the ability to adapt itself to the continuous and the increasingly challenging changes.”

Low-impact site

- 30% production area, 70% green area
- Geothermal conditioning
- 40% of energy needs self-generated with solar system 500 kW
- New solar system + 500 kW (end 2024)
- Workshop lighting with natural light
- Attention to work life balance

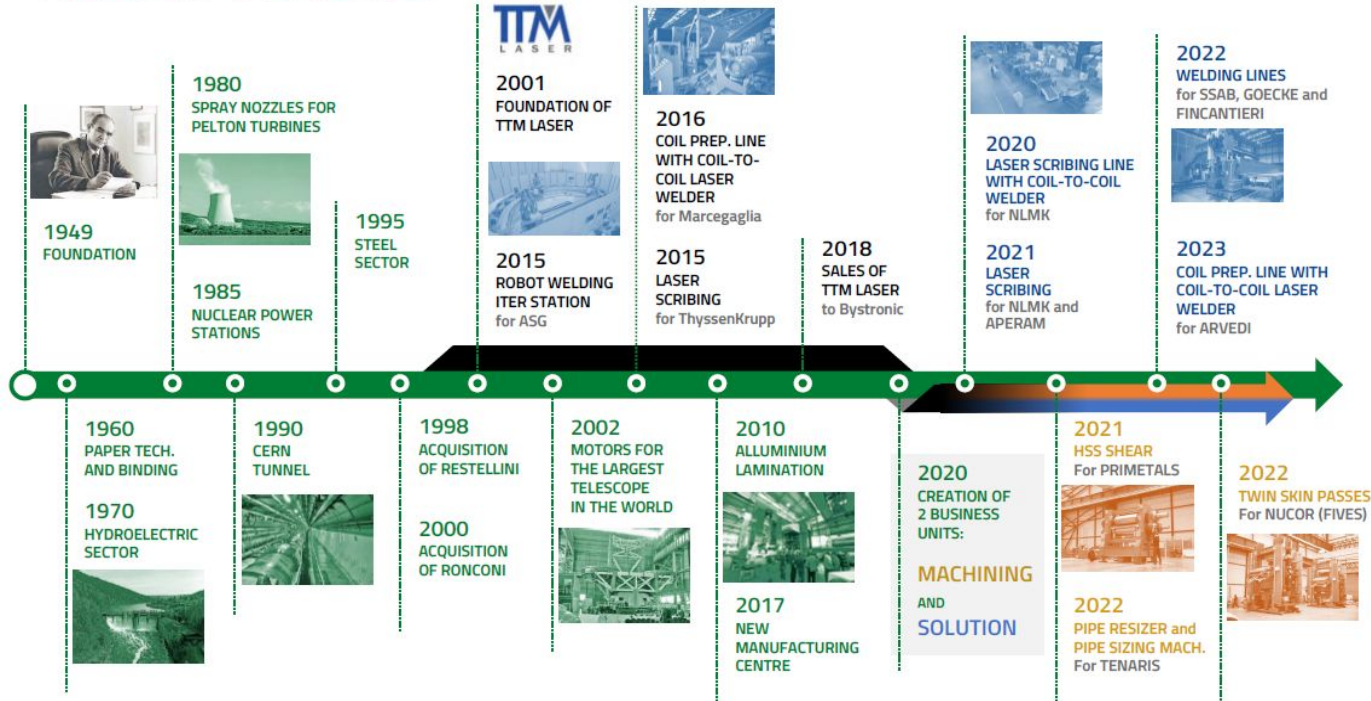
Social Responsibility

- Continuous support to no profit entities





HISTORY AND FUTURE





CASTELLINI FACILITY

AREA	62.000 sqm + 10.000 sqm
WORKSHOP	22.000 sqm + 7.500 sqm
OFFICES	3.000 sqm + 800 sqm
MAX. HOISTING CAPACITY	250 tons
HOISTING HEIGHT	17 mt
MAX. BORING FIELD	24 mt
SPECIALTIES	Heavy boring and milling machines / Horizontal and vertical turning lathe / Hydraulic pressure testing rig





MACHINING AND SOLUTION

TWO SOULS, ONE IDENTITY

Machining and Solution are the complementary souls of Castellini that share the same identity, which has been constructed over years of work by virtue of shared experience, values, and objectives.

produces Heavy Machinery
Equipment, High Tech
Rolling Mill Equipment and
Spare Parts for the Metals
Industry of steel and
aluminum

**CASTELLINI
MACHINING**

**CASTELLINI
SOLUTION**

develops technologies and
produces machinery and
plants for specific
applications based on the
Laser Technology, but not
only

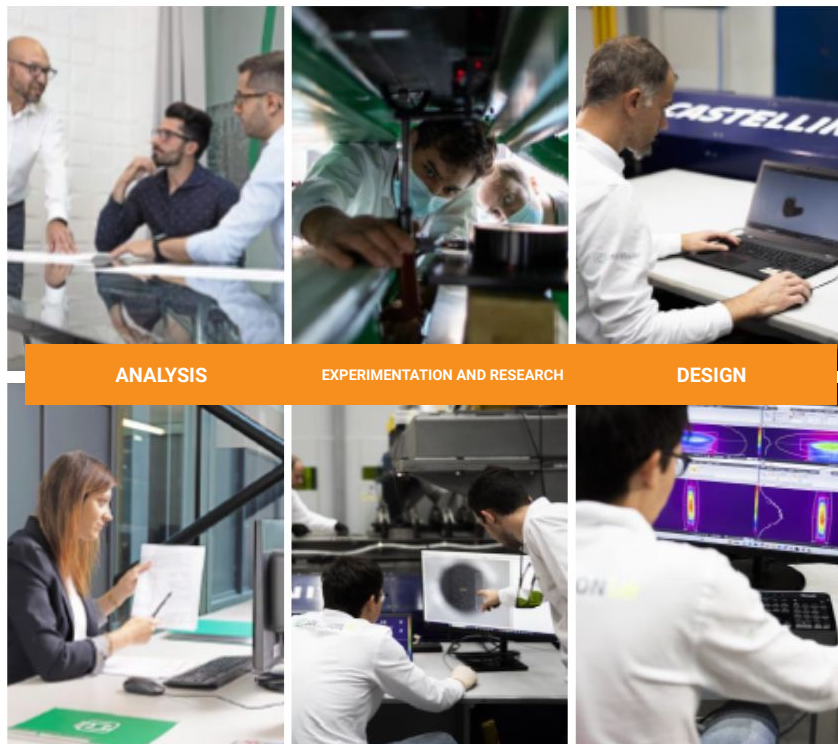


THE CASTELLINI SOLUTION APPROACH

DEEPEN INTO TECHNOLOGY FOR A CONTINUOUS IMPROVEMENT OF KNOW HOW

The customers' needs are the driving force of Castellini activities. Castellini solutions are developed in the knowledge that productivity and reliability are always the primary requisites, reachable only through a scientific path.

Following this continuous scientific research of the know how, exploiting the SOLUTION LAB, Castellini is daily developing innovative and performing processes intended for the steel manufacturing world.





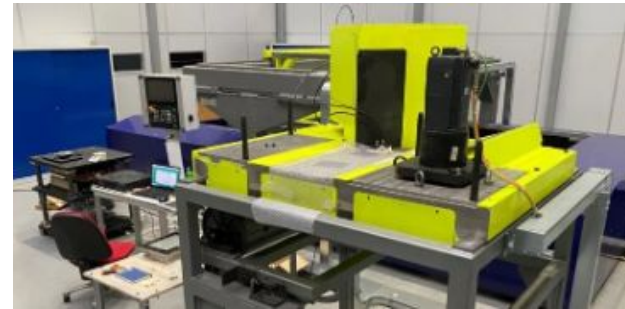
SOLUTION LAB

THE IDEAL PARTNER TO DEVELOP YOUR PROCESS

SOLUTION LAB by Castellini is designed to allow a wide range of possible tests with Laser technology (and not only), such as Laser Paint Stripping and Cleaning, Surface Treatments, Laser Scribing, Laser Cutting and Welding, Laser Cladding.

SOLUTION LAB is developed to perform tests on Stainless Steel, Carbon Steel, High Strength Steel, Grain Oriented Electrical Steel, Non-Grain Oriented Electrical Steel, Aluminium. SOLUTION LAB is equipped with two completely customised, high-performance units capable of simulating different conditions the actual operation and processes performed in the industrial solution.

The CASTELLINI SOLUTION R&D team is highly specialised in customising tests, simulation and analysis to meet the highest expectations of customers, both in terms of research and development than in the search for the most suitable applicable solution.





PARTNERSHIPS

THE RIGHT PARTNER LEADS TO A COMMON SUCCESS

Castellini Solution, driven by a strong passion for innovative technologies, cooperates with customers, suppliers, universities and research institutes, conscious that sharing know how is the most important booster to reach successful innovations.

Castellini scientific and technologic main partners are:

FINCANTIERI

DANIELI

RIIA



UNIVERSITÀ
CATTOLICA
del Sacro Cuore



UNIVERSITY
OF BRESCIA

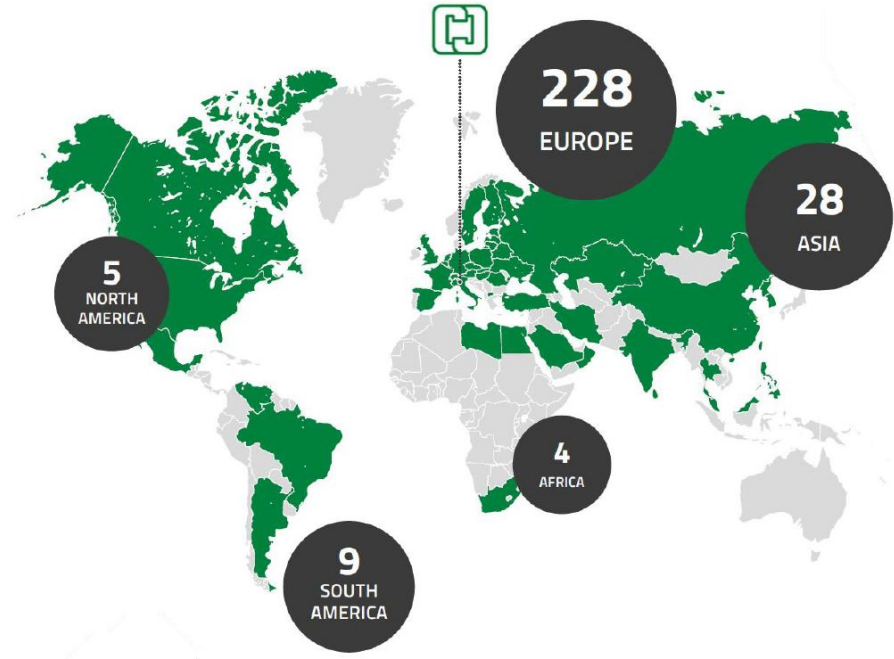
CALEF

**IPG
PHOTONICS®**



CASTELLINI WORLDWIDE PRESENCE

More than 70% of Castellini turnover comes from international markets. Castellini products are installed in manufacturing plants located all over the world.





LOOKING TO BUY PRE-LOVED MACHINERY?

Specialist Machinery Sales offer second-hand or used structural steel processing machinery from Kaltenbach, Gietart, Haeusler, SLF and more.

Generally, the machines that SMS has access to are from trading for new machines offered from the machine tool builders to clients of SMS in Australia and New Zealand. Most machines are between 5 and 15 years of age with full-service history available. Some machines can be inspected under power or in their shipping packing ready for immediate delivery to Australasia.

LEARN MORE HERE ►





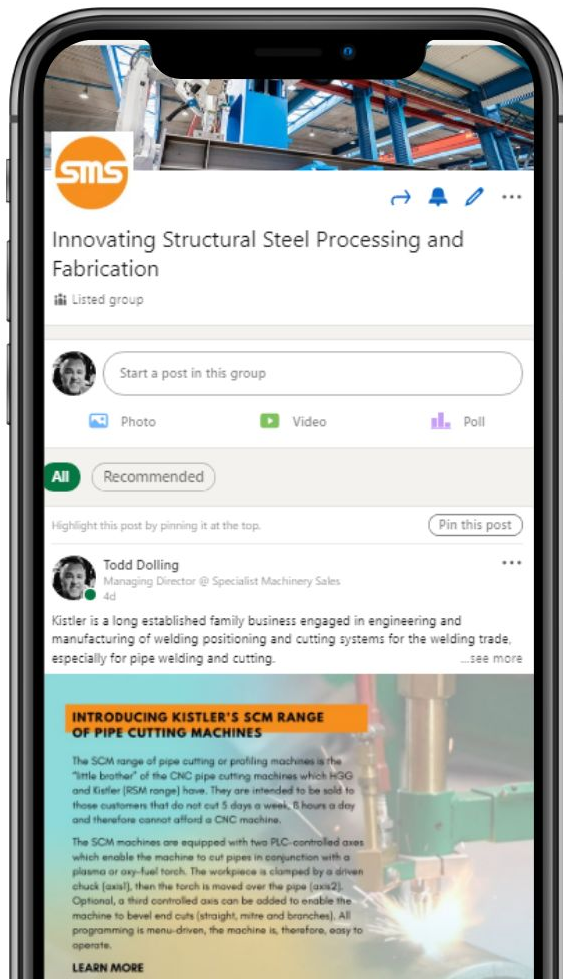
READY TO SELL YOUR PRE-LOVED MACHINERY?

Selling your pre-loved machinery may appear to be a simple process but it might be more complicated than you think. Selling pre-loved machinery involves equipment liens, resale certificates and financing a buyer. BUT DO NOT WORRY!

Used Structural Machinery (USM) is here to partner with you. At USM, we are your ideal channel to take your equipment and place it in the right hands, with the security and confidence that characterises us. Review our checklist below to help you understand when to retire your machine and how USM can help you sell it off efficiently and effectively.

LEARN MORE HERE ►





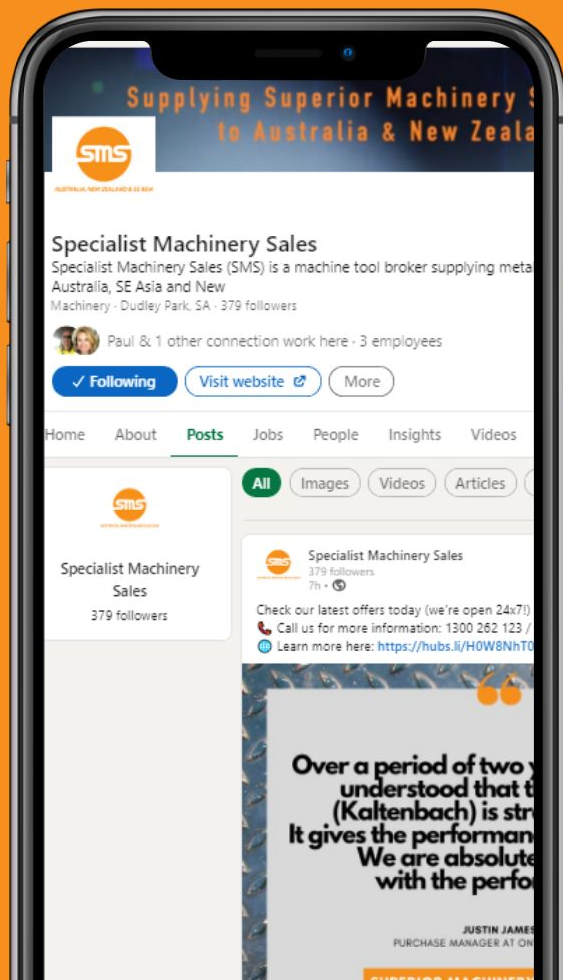
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Join our growing and exclusive LinkedIn Group -
[Innovating Structural Steel Processing and Fabrication Group.](#)

In this group, we bring in thought leadership content, topics, trends and challenges within the steel industry and steel processing automation. We encourage everyone to share your business challenges and solutions that you have encountered and how steel processing automation had helped achieved your business objectives.

JOIN HERE ►





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