SMF® FINISHING LINES

FLAT PROCESSING INNOVATION

Part of SMF Group

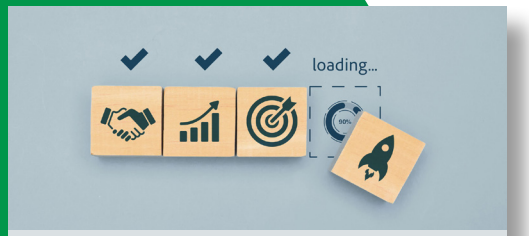
FL2400EN rev.02

INDEX

for a complete vision,
activate your connection.
Good browsing!

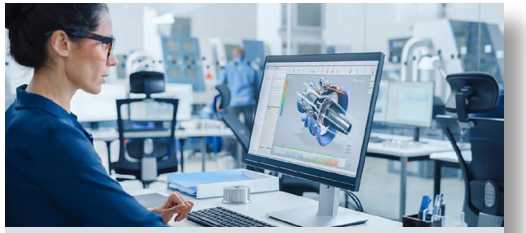
WHO WE ARE

COMPANY



MISSION

VISION



ORGANIZATION

OUR COMPANY

SMF Finishing Lines is part of a historic Friulian company, founded in 1984 in Fagagna, in the province of Udine, the SMF Group, Società Metalmeccanica Friulana S.r.l. which start its activity with the construction of customized machines, machining of mechanical parts and revamping of mechanical devices. Today, the SMF Group, accepting the challenges of the markets in which it operates, makes itself available to customers as a highly qualified and specialized point of reference by offering a high-performance in the sector.

SMF Finishing Lines design, manufactures, install and certifies complete line in the sector of continuous painting of metallic, ferrous and non-ferrous coil.

The range of systems proposed is complete and innovative, exploits a wealth of skills and experience gained in over 30 years of activity in the specific sector and finds its strengths in safety and ease of use, in the quality of the technological process applied, in the quality of the finished product, in reliability, sustainability and energy saving constantly researched and developed.

SMF Finishing Lines offers an effective partner for a "turn-key" supply, taking care directly of all the production cycle phases from installation, to commissioning, assistance with training of customer technicians, maintenance and spare parts service.

Company Profile **SMF Group**

CE The plants supplied by SMF Finishing Lines are "CE" certified, and in any case according to the active regulations in the country of installation.

OUR MISSION

Effective products and versatile service

Our mission is to offer, in a competitive way, effective products and a versatile, punctual and personalized service, capable of reach the best result in compliance with the objectives agreed with the Customer.

The company's objective is to be a point of reference for customers interested in quality, safety and flexibility.

We want to generate value through the expression of a corporate culture based on responsibility and sharing.

OUR VISION

Thanks to the experience of our team of engineers, SMF Finishing Lines aims to develop technologies and systems targeted at product quality, extreme operating reliability, ease of use by operators, product customization, the highest flexibility of supply, energy efficiency and minimal environmental impact.

Our target is to offer innovative and sustainable solutions for metalworking, to continuously improve production processes in order to reduce environmental impact, while ensuring maximum product quality and customer satisfaction.

Innovative and sustainable solutions

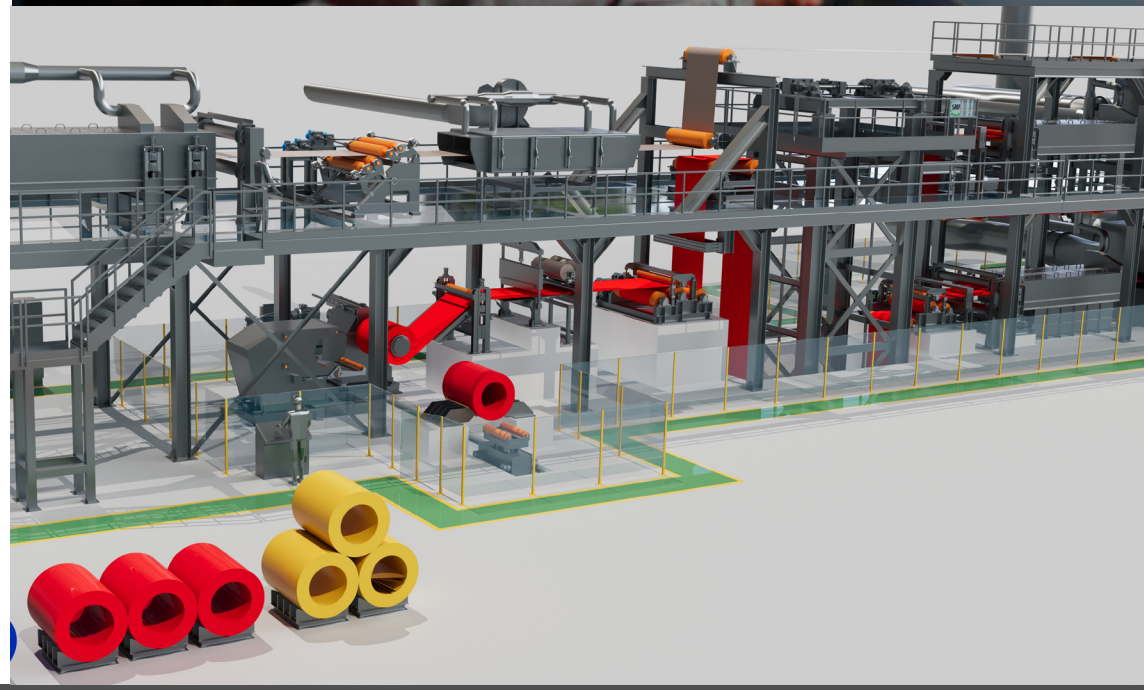
ORGANIZATION

With a team of highly specialized and qualified engineers and technicians and thanks to the matured and consolidated technological know-how in the specific sector, SMF Finishing Lines is able to satisfy the needs of customers by accompanying them on a path of innovation capable of guaranteeing them a constant evolution and adaptation of the production process to market needs.

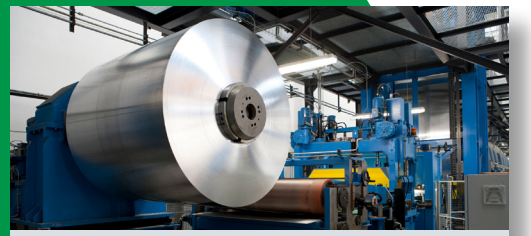
SMF Finishing Lines develops the projects of its plants using latest generation workstations complete with 3D design software suitable to cover the full design process.

Making use of the significant production capacity of the SMF Group, all the designed systems are manufactured internally within the group, providing customers with a complete service up to functional testing and the organization of national or international shipments.

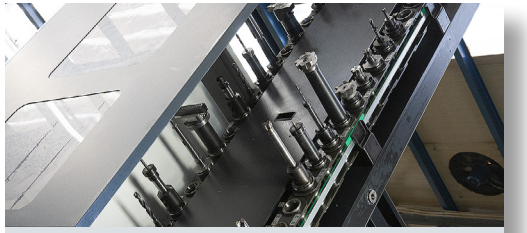
SMF Finishing Lines products are guaranteed by a “Made in Italy” production chain.



OUR DIVISION



MACHINERY PLANT



SPARE PARTS & SERVICE

RESEARCH & DEVELOPMENT

MACHINERY PLANT DIVISION

The Machinery Plant Division proposes, designs, builds, installs and certifies continuous cycle systems plants, technologically advanced for the processing and surface treatment of flat ferrous and non-ferrous steel strips.

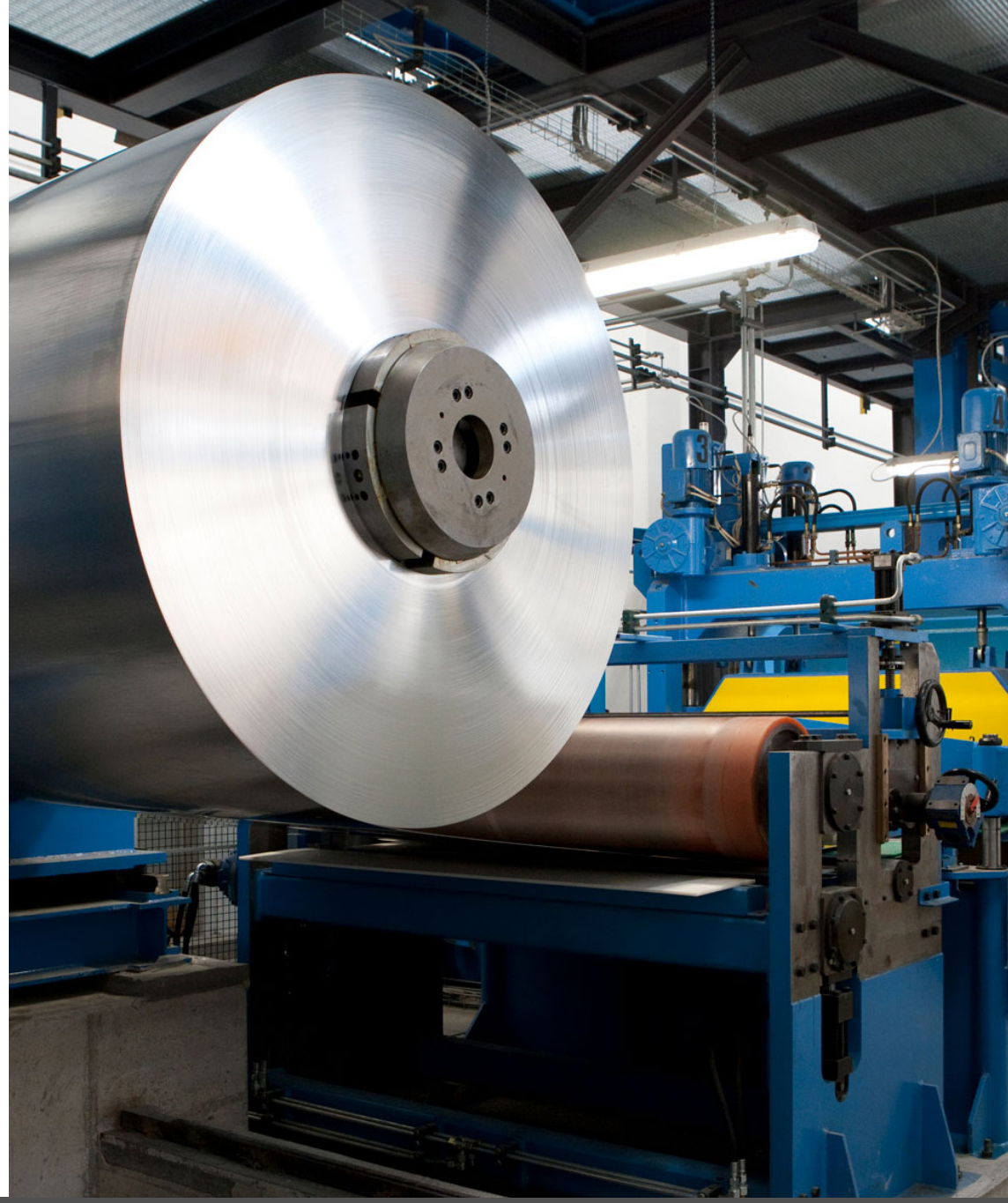
The division is also specialized in the Revamping activities of existing plants or individual machines which are returned to Customers compliant, performing and certified according to current normatives.

Inside the Division, three product lines are made available to Customers:

- LCC Liquid Coil Coating Line
- PCC Powder Coil Coating Line
- CREATIVA®

Other

- Special Machines
- Revamping



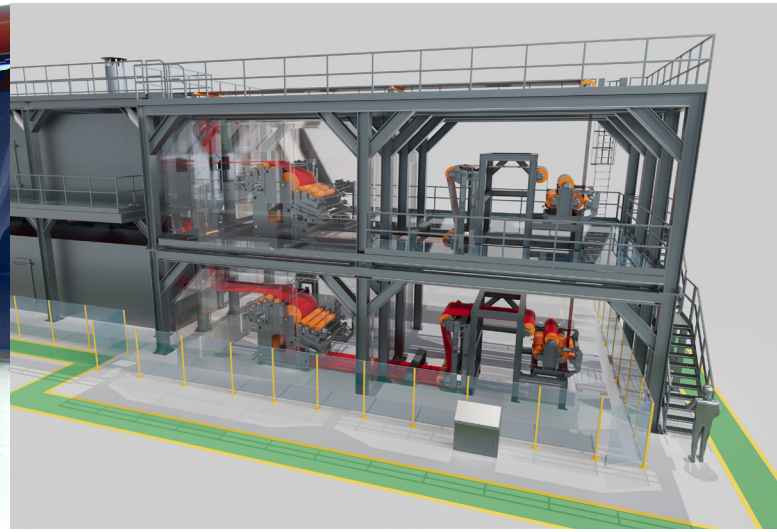
MACHINERY PLANT DIVISION

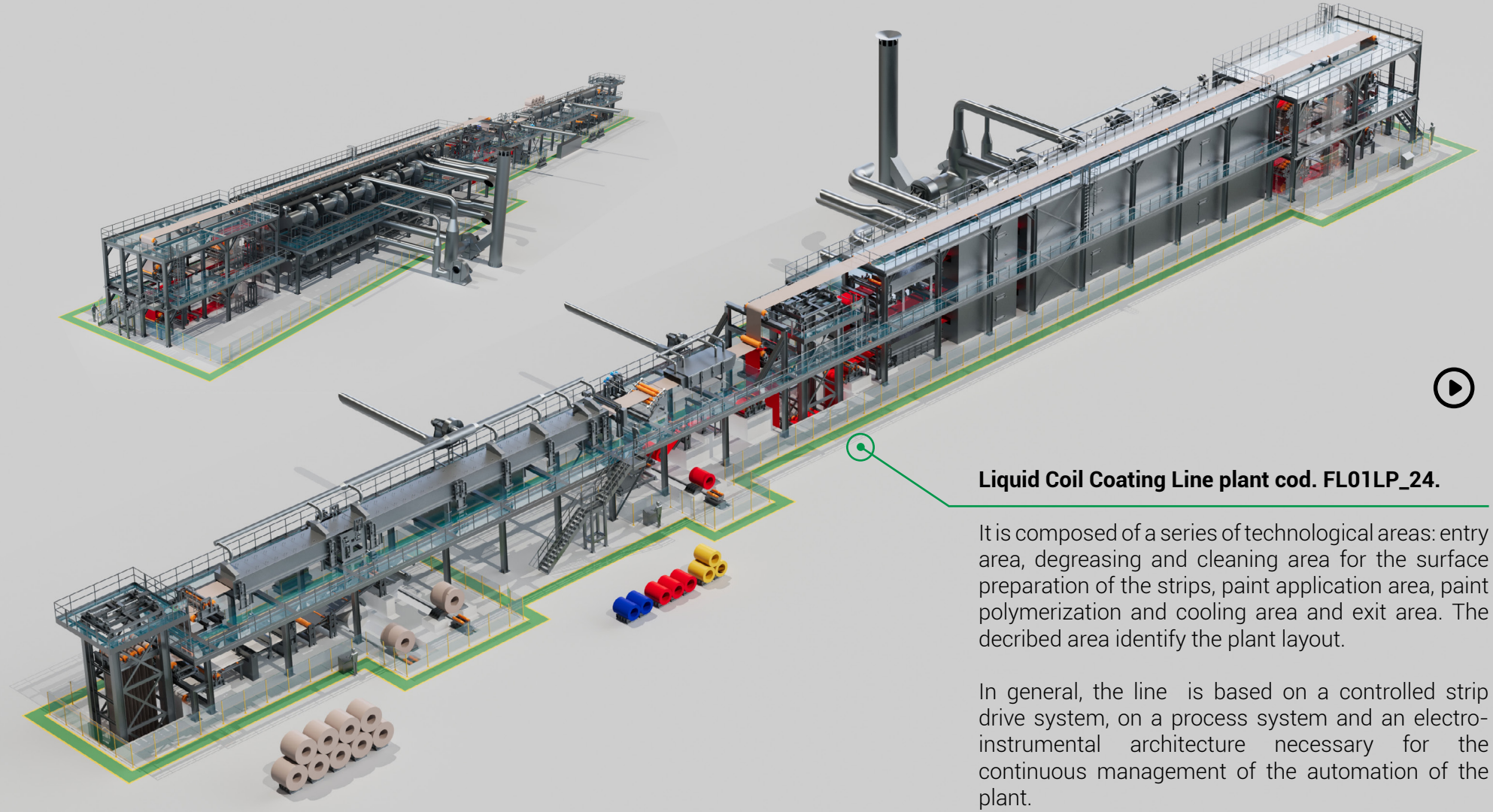
LCC LIQUID COIL COATING LINE

Brochure download →

Technical data sheet download →

← machinery plant





Liquid Coil Coating Line plant cod. FL01LP_24.

It is composed of a series of technological areas: entry area, degreasing and cleaning area for the surface preparation of the strips, paint application area, paint polymerization and cooling area and exit area. The decribed area identify the plant layout.

In general, the line is based on a controlled strip drive system, on a process system and an electro-instrumental architecture necessary for the continuous management of the automation of the plant.

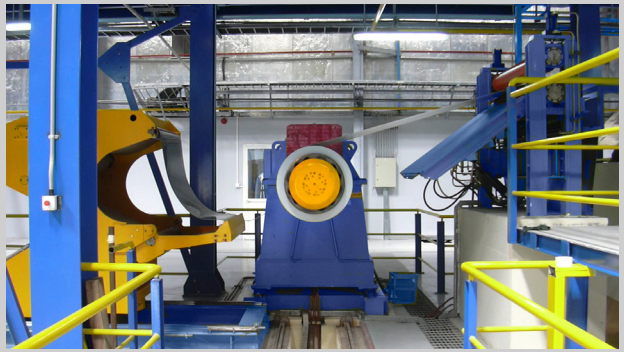
The system allows the application of paints either on one side (top) or on both sides (top and back) of the processed belts.

The strip drive system includes:

- Groups for coil loading and unloading;
- Groups for strip decoiling and recoiling;
- Groups for strip centering;
- Groups for strip end cutting and junction;
- Groups of strip tensioning bridle;
- Groups of strip accumulation;
- Groups for spools insertion;
- Groups for plastic film application.

The process system includes:

- Possible strip levelling
- Strip surface cleaning unit, generally by spray, with relative drying;
- Immersion, spray, roller or “soft rain” strip conversion unit with relative drying;
- One or more rolls coating machines for liquid paints application;
- One or more hot air polymerization units and water and/or air cooling system;
- Groups for the treatment of exhaust containing solvents coming from painting chambers and from polymerization ovens, using thermal or recuperative incinerators;
- Possible co-lamination groups the application of permanent decorated films;
- Possible decoration groups using inks with engraved rollers;
- Groups for temporary protective film application.



LCC LIQUID COIL COATING LINE

Technological process used for the continuous painting using solvent-based liquid paints of cold-rolled and galvanized steel strips or aluminum and its alloys. The prepainted finished product guarantees adequate preparation for following process of blanking, bending, moulding and profiling.

The main fields of application are:

- window and door complements;
- false ceilings;
- foamed covers;
- foamed panels for partition;
- continuous building facades;
- rainwater drainage systems;
- packaging industry;
- appliance industry;
- transport industry;
- Serigraphy

Paints with different characteristics can be applied, such as:

- polyester;
- polyurethane;
- epoxy;
- polyamides;
- fluorinated (PVDF);
- plastisol

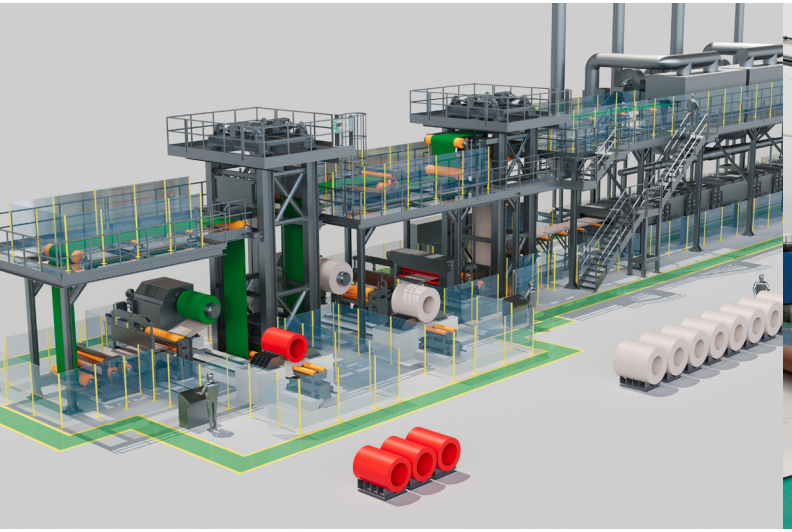
MACHINERY PLANT DIVISION

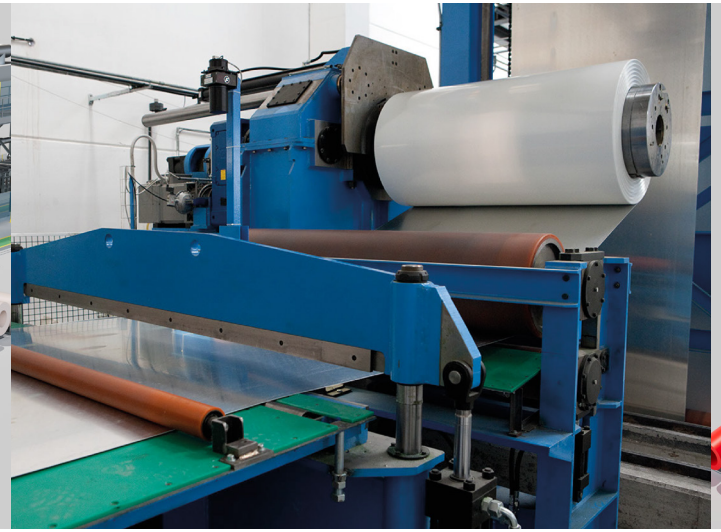
PCC POWDER COIL COATING LINE

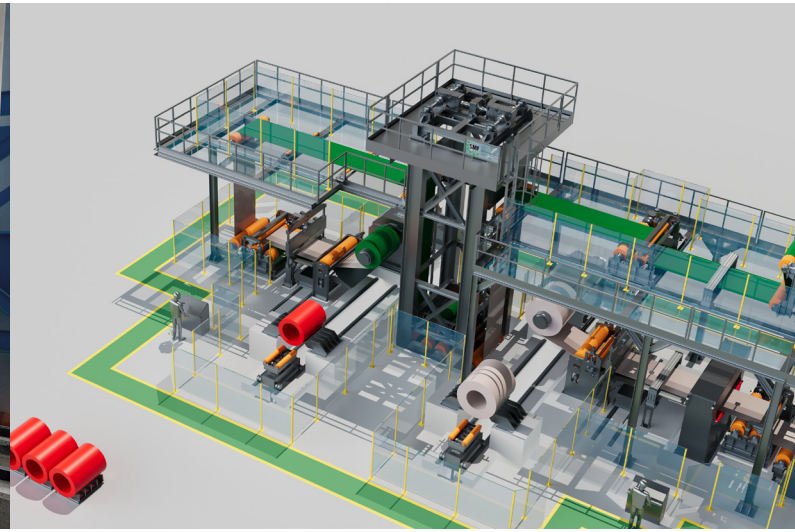
Brochure download →

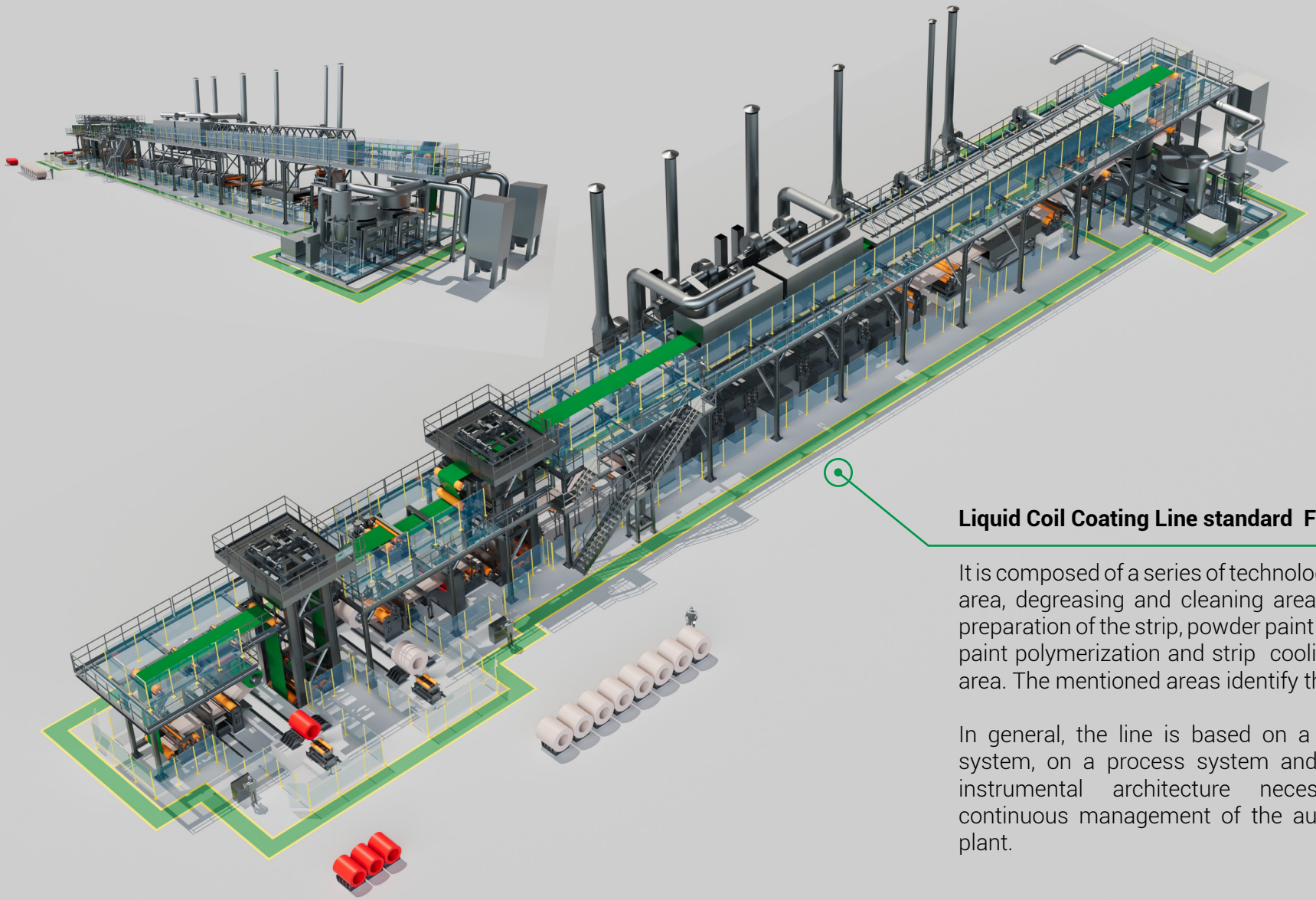
Technical data sheet download →

← machinery plant









Liquid Coil Coating Line standard FL01PW_24.

It is composed of a series of technological areas: entry area, degreasing and cleaning area for the surface preparation of the strip, powder paint application area, paint polymerization and strip cooling area and exit area. The mentioned areas identify the plant lay-out.

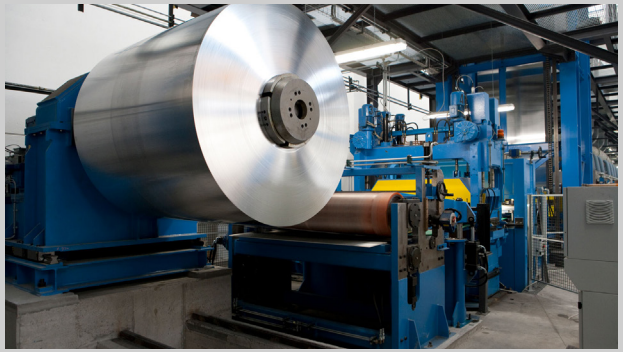
In general, the line is based on a controlled drive system, on a process system and on an electro-instrumental architecture necessary for the continuous management of the automation of the plant.

The strip driving system includes:

- Groups for coil loading and unloading;
- Groups for strip decoiling and recoiling;
- Groups for strip centering;
- Groups for strip end cutting and junction
- Groups of strip tensioning bridle
- Groups of strip accumulation;
- Groups for spools inserion;
- Groups for plastic film application.

The process system includes:

- Strip surface cleaning unit, generally by spray, with relative drying;
- Immersion, spray, roller or “soft rain” strip conversion unit with relative drying;
- Groups of application, normally, by electrostatic system of the painting powders on the “top” face of the strip
- Polymerization group, normally, by infrared irradiation;
- Cooling unit, generally, with forced air.



PCC POWDER COIL COATING LINE

Technological process used for the continuous painting of flat metallic, ferrous and non-ferrous strips. Use solvent-free powder paints. The finished pre-painted product, guarantees adequate preparation for following process of blanking, bending, moulding and profiling.

IThe main fields of application are:

- window and door complements;
- false ceilings;
- continuous building facades;
- appliance industry;
- transport industry;
- serigraphy.

Paints with different characteristics can be applied, such as:

- Polyester;
- Super-polyester;
- Polyurethanes.

CREATIVA®

FORME E COLORI SENZA LIMITI

Digital Printing | Sublimation Printing | Lamination | Transfer Printing

← machinery plant

Part of SMF FINISHING LINES

MACHINERY PLANT DIVISION

CREATIVA®

DIGITAL PRINTING

Digital Printing is a technologically innovative process to print pictures, shapes and customised textures on pre-coated ferrous or non-ferrous flat-rolled products (coils) without any limitation and continuously with customised geometries and colour combinations.

Digital Printing guarantees eco-sustainable applications, flexible and long-lasting applications. It also offers an excellent weathering resistance.
The process, following technical and technological verification, can also be inserted into existing painting plant (both LCC and PCC), transforming them into potential combined systems.
According to the production needs, we can design "Custom" layouts that guarantee the highest level of quality and reliability of the finished product.

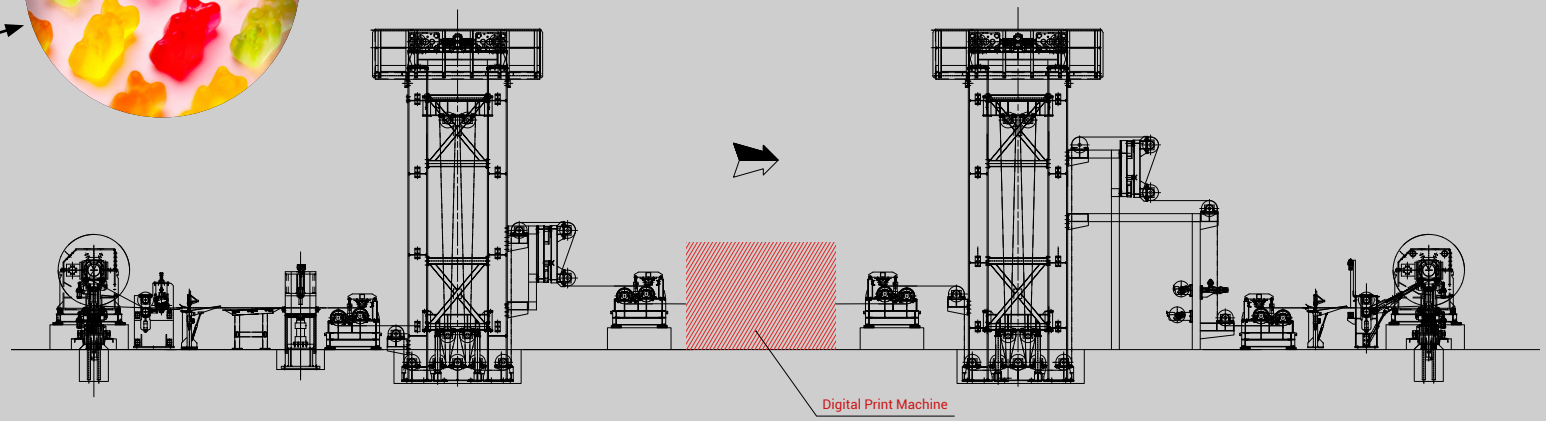
The major fields of applications are the follwings:

- Public and private architecture,
- Interior design,
- Urban furniture,
- Sport facilities furniture,
- Household appliances,
- Transport,
- Other.

← CREATIVA®

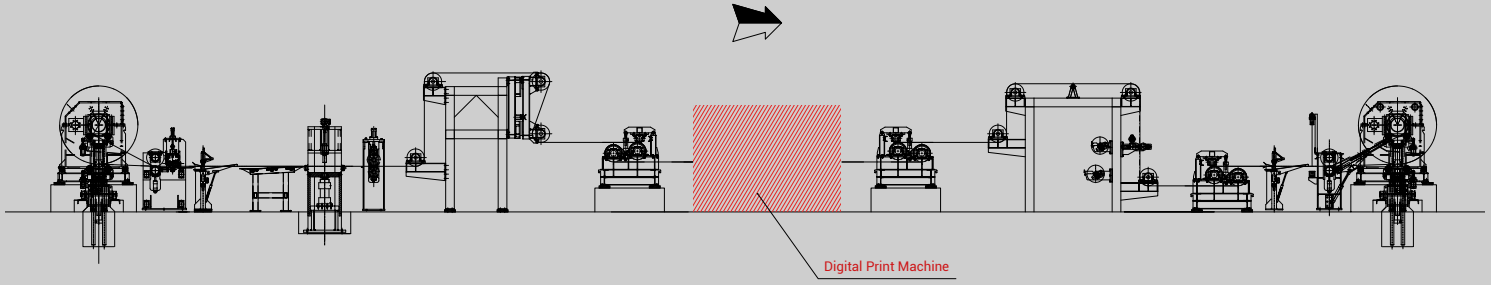
CREATIVA®

DPCN Digital Print Continuous Line



Layout **DPSS** "START and STOP" compact line with a process speed not exceeding 10/mt/min. consisting of: entry area, printing area, inspection area and exit area. Manual loading and unloading of coils. Services for the process and for the utilities to be placed in a specific area next to the plant.

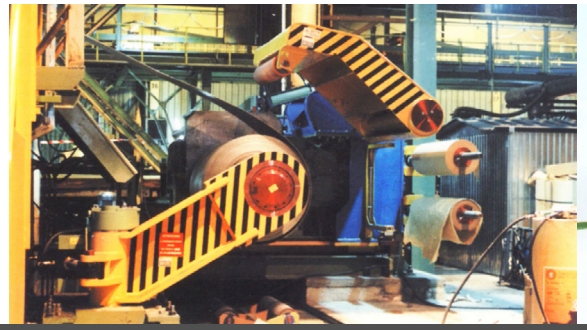
DPSS Digital Print Start and Stop Line

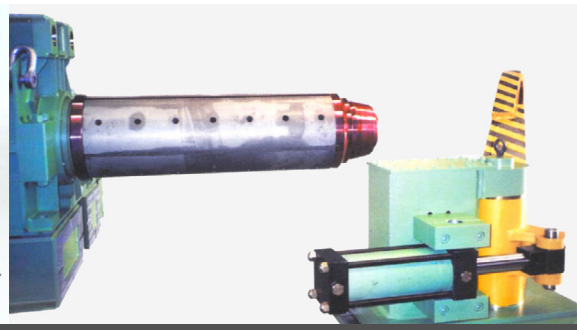


Layout **DPCN** extended line "Continuous cycle production" with a process speed not exceeding 55/mt/min. consisting of: entry area, accumulation area, printing area, inspection area and exit area. Manual loading and unloading of coils. Services for the process and for the utilities are placed in a specific section. Services for the process and for the utilities to be placed in a specific area next to the plant.

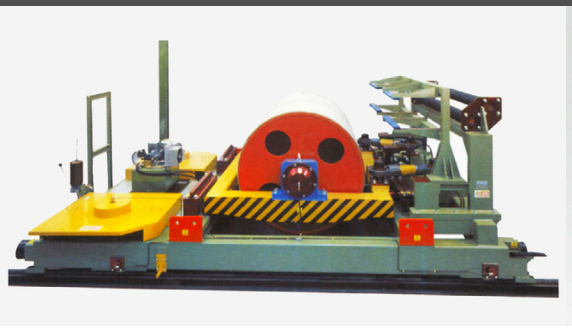
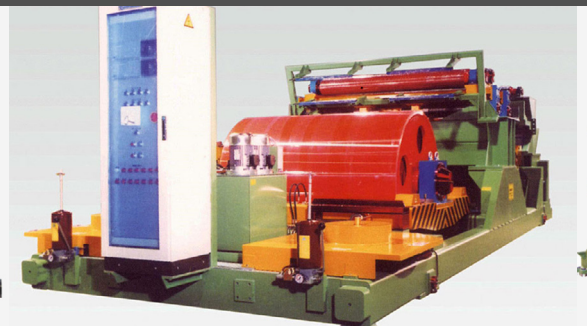
MACHINERY PLANT DIVISION – SPECIAL MACHINES

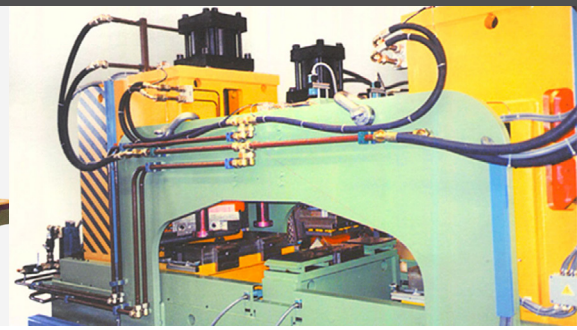
← machinery plant



SINGLE MACHINES



MACHINERY PLANT DIVISION – SPECIAL MACHINES

← machinery plant

PLANTS

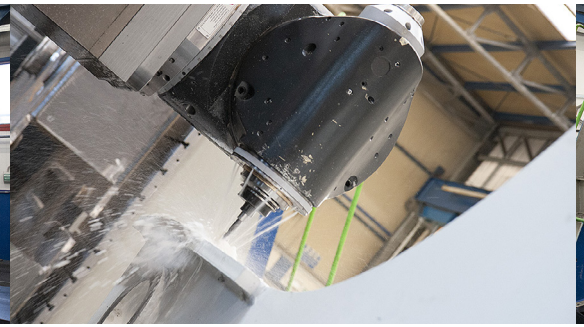
SPARE PARTS & SERVICE DIVISION

Spare Parts & Service division offers at the Customers a multidisciplinary assembly service.

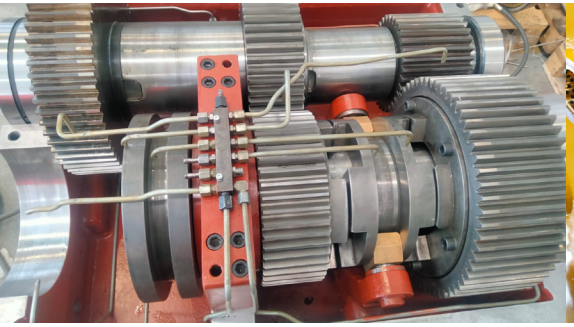
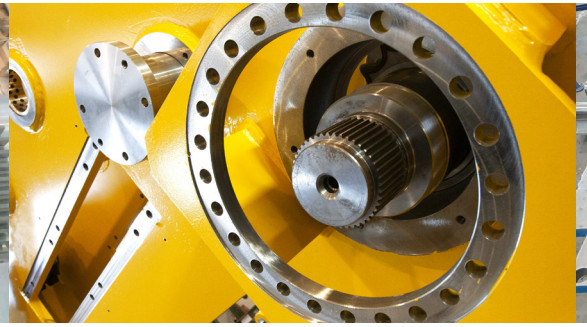
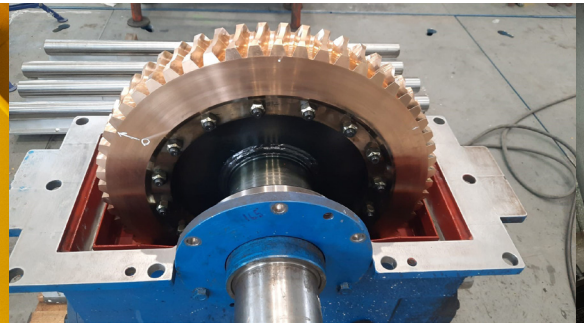
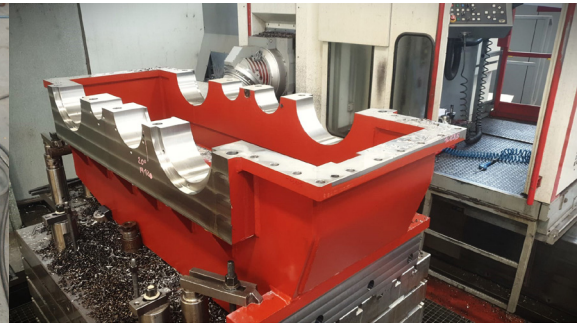
Thanks to the organization and flexibility of the company and using the support of advanced procedures, of latest generation instrumentation and highly qualified technicians, SMF Finishing Lines is able to intervene promptly in case of need for revision, repair and plant modifications for local adaptation, both on complete plants and on individual machines.

SMF Finishing Lines also offers customers a "designed spare parts service", focusing on timeliness, flexibility of performance and the quality of the finished product. Being able to count on a large and assorted machining machines, it is able to satisfy every type of dimensional and typological requirement.

SMF Group machine tool list →


SPARE PARTS & SERVICE DIVISION

RESEARCH & DEVELOPMENT DIVISION

One of the main objectives of SMF Finishing Lines is to develop innovative solutions integrated with technologically advanced processes, paying particular attention to eco-sustainability and the resulting energy savings.

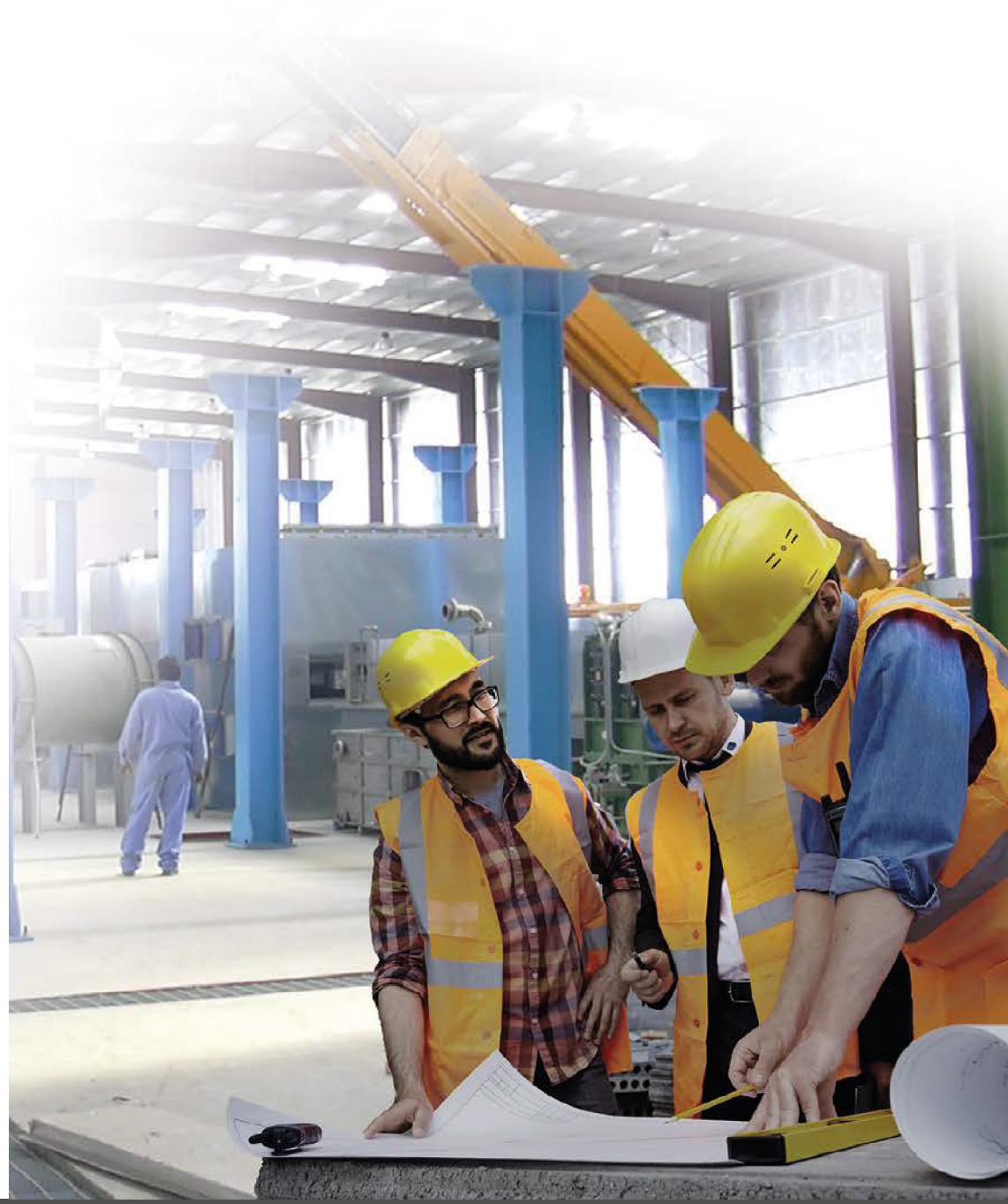
The Research & Development Division studies methodological applications in the industrial steel sector to which its specializations belong.

INSTALLATION

SMF Finishing Lines offers to the Customers a multidisciplinary assembly service, suitable for ensuring the complete installation of the plants supplied, acting as a single interface for coordination and management of all plant engineering, technical, technological, organizational and program skills.

The teams employed are composed of highly specialized and qualified technicians with gained experience in a specific field. The latest generation equipment are used to ensure maximum reliability and quality of field work.

SMF Finishing Lines, with its teams, operates in national and international areas.



SUSTAINABILITY

SMF Finishing Lines goal to constantly reduce its environmental impact, with the objective of acting according to a long-lasting and sustainable development model, reconciling the growth of companies with respect for the environment.

Efforts towards increasingly efficient technologies are also made with respect for the environment and further the company's commitment to safeguarding and improving people's lives.

Follow are some of the good practices put into practice.

Energy efficiency

We optimize the use of energy in production processes and in the installation of plants in order to reduce consumption and greenhouse gas emissions.

Use of sustainable materials

For the construction of our plants we prefer recycled or sourced materials from sustainable sources in order to reduce the overall environmental impact.

Waste reduction and recycling

We implement practices to reduce production waste and promote the recycling of materials in order to help minimize environmental impact.

Water saving

We reduce water consumption in production processes and in the installation of plants in order to help preserve water resources and reduce water pollution.

Emission control

We use technologies and processes that minimize polluting emissions into the air and the surrounding ambient in order to help improve air quality and protect people's health.

Sustainable transport

We optimize transport operations to reduce greenhouse gas emissions and air pollution associated with the transport of materials and finished products.

Stakeholder involvement

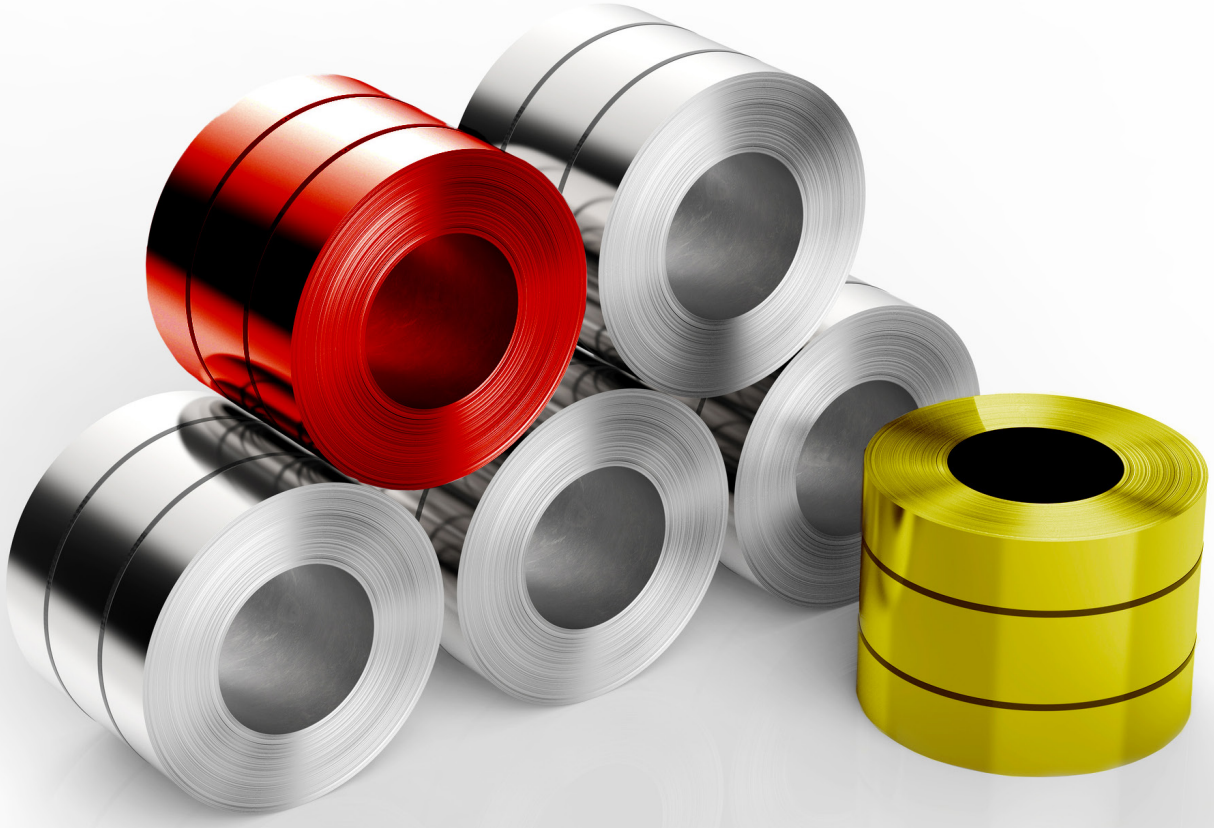
We actively involve employees, suppliers and customers in sustainability practices to help create a company culture oriented towards environmental responsibility.

Monitoring and reporting

We constantly monitor the company's environmental performance and provide transparent reporting on sustainability initiatives and objectives to promote accountability and transparency.

OUR PARTNERS

part of SMF GROUP



FLAT PROCESSING INNOVATION

SMF Finishing Lines S.r.l.

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