



 **MARCEGAGLIA**
RAVENNA

FLAT PRODUCTS
Ravenna plant

MARCEGAGLIA GROUP

WINNING DNA

MARCEGAGLIA IS ITALY'S LEADING INDUSTRIAL GROUP IN THE NATIONAL AND INTERNATIONAL STEEL SECTOR, WHICH HAS BEEN PROCESSING STEEL FOR OVER SIXTY YEARS.

THE COMPANY'S UNIQUE PRODUCTION AND BUSINESS MODEL IS A TRUE EXPRESSION OF ITALIAN FAMILY ENTREPRENEURSHIP, BY SUCCESSFULLY COMBINING ITS OWN OPERATIONAL FLEXIBILITY WITH STRONG MARKET PRESENCE TYPICAL OF MULTINATIONALS.

ESTABLISHED IN 1959 BY STENO MARCEGAGLIA IN THE TOWN OF GAZOLDO DEGLI IPPOLITI (MANTUA) IS TODAY A GROUP FULL RUN BY HIS CHILDREN ANTONIO AND EMMA MARCEGAGLIA.



OUR NUMBERS

MARCEGAGLIA IS A MAJOR PLAYER ON THE INTERNATIONAL STEEL SCENE THAT OFFERS CONSTANT GROWTH AND HIGH-QUALITY PRODUCTS AND PROCESSES, CONTRIBUTING SIGNIFICANT ADDED VALUE TO THE MARKET WHILE MAINTAINING A STRONG FOCUS ON SUSTAINABILITY.

1st PLAYER IN STEEL PROCESSING SECTOR IN THE WORLD

PRODUCER OF STAINLESS STEEL WELDED TUBES IN THE WORLD

PRODUCER OF CARBON STEEL WELDED TUBES IN EUROPE

SERVICE CENTER IN ITALY

6.5

MILLION TONNES OF FINISHED PRODUCT

9.0

BILLION EUROS IN TURNOVER

7,500

EMPLOYEES

36

PLANTS ACROSS 4 CONTINENTS

15,000

CUSTOMERS



STRATEGIC GOALS

10.1.0.0.0

- _____ ■ 10 BILLION EUROS IN TURNOVER
- _____ ■ 1 BILLION EUROS IN EBITDA
- _____ ■ 0 DEBT
- _____ ■ 0 ACCIDENTS
- _____ ■ 0 EMISSIONS



FLEXIBLE SOUL

INDEPENDENCE, DYNAMISM, AGILITY, RESPONSIVENESS, RESILIENCE AND SUSTAINABILITY ARE THE KEY ELEMENTS OF MARCEGAGLIA CORPORATE CULTURE:

FACTORS THAT HAVE HELPED MAKE THE COMPANY THE MAIN POINT OF REFERENCE FOR STEEL PROCESSING BOTH IN ITALY AND ABROAD.

MARCEGAGLIA IS ABLE TO SUCCESSFULLY OPERATE, EVEN GIVEN THE MOST DIFFICULT MARKETS AND GEOPOLITICAL CONDITIONS, THANKS TO INDUSTRIAL SYNERGIES, ECONOMIES OF SCALE AND THE DIVERSIFICATION OF PRODUCTION AND SUPPLY.

GROUP CULTURE FOCUSES ON THE ROLE OF PEOPLE AND ON SHARING SPECIFIC VALUES, WHICH HAVE BECOME THE CORNERSTONES OF ITS BUSINESS MODEL.



STRATEGIC RESOURCES AND DISTINCTIVE SKILLS

- SOLID GLOBAL PROCUREMENT NETWORK
- DIVERSIFIED RANGE OF PRODUCTS AND SERVICES
- WORLDWIDE DISTRIBUTION
(CUSTOMER BASE, GEOGRAPHIC MARKETS, AREAS OF USE)
- OPERATIONAL EXCELLENCE AND LOGISTICS
- FLEXIBILITY / REACTIVITY / SPEEDY DECISION MAKING
- SERVICE ORIENTATION
- COMPETENCE / MOTIVATION / STABILITY OF MANAGEMENT



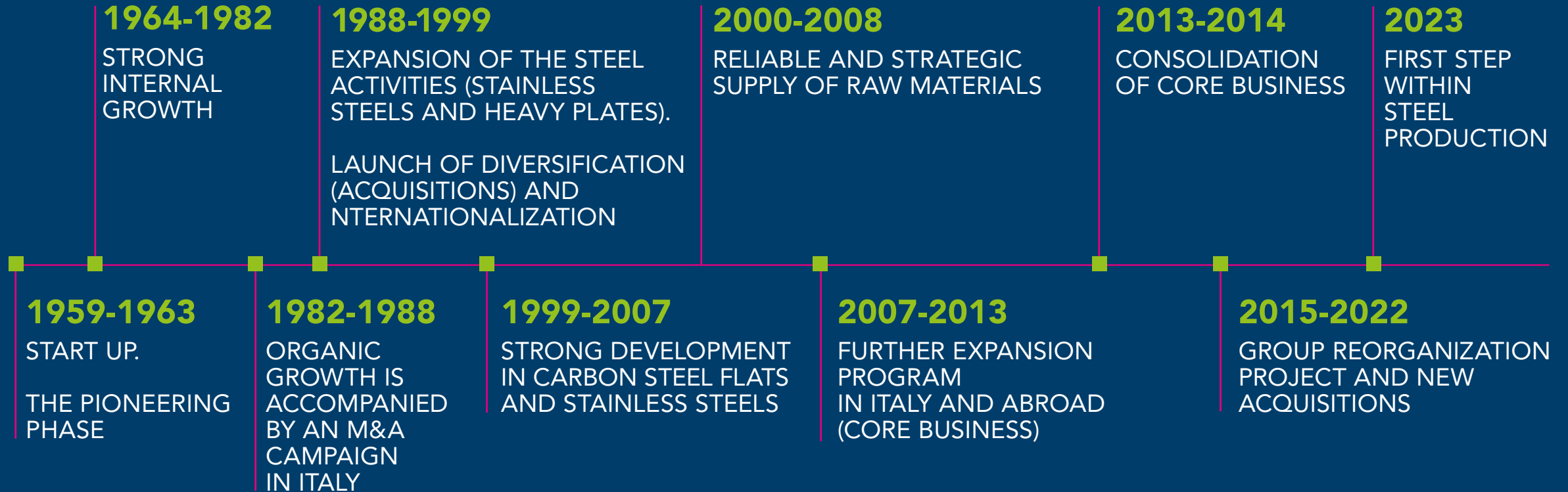
DEEP ROOTED VALUES

THE GROUP'S HISTORY IS FIRST AND FOREMOST THE STORY OF A FAMILY: THAT OF STENO, MIRA, ANTONIO AND EMMA MARCEGAGLIA.

IN OVER SIXTY YEARS, THE ENTREPRENEURIAL ADVENTURE, WHICH BEGAN IN 1959, HAS SEEN A SMALL LOCAL BUSINESS BECOME ONE OF THE TOP ITALIAN COMPANIES, WHICH WAS SUCCESSFULLY ABLE TO PROMOTE ITS "MADE IN ITALY" BUSINESS MODEL GLOBALLY, BUT WITHOUT LOSING SIGHT OF ITS DEEP-ROOTED ORIGINS.



DEEP ROOTED VALUES

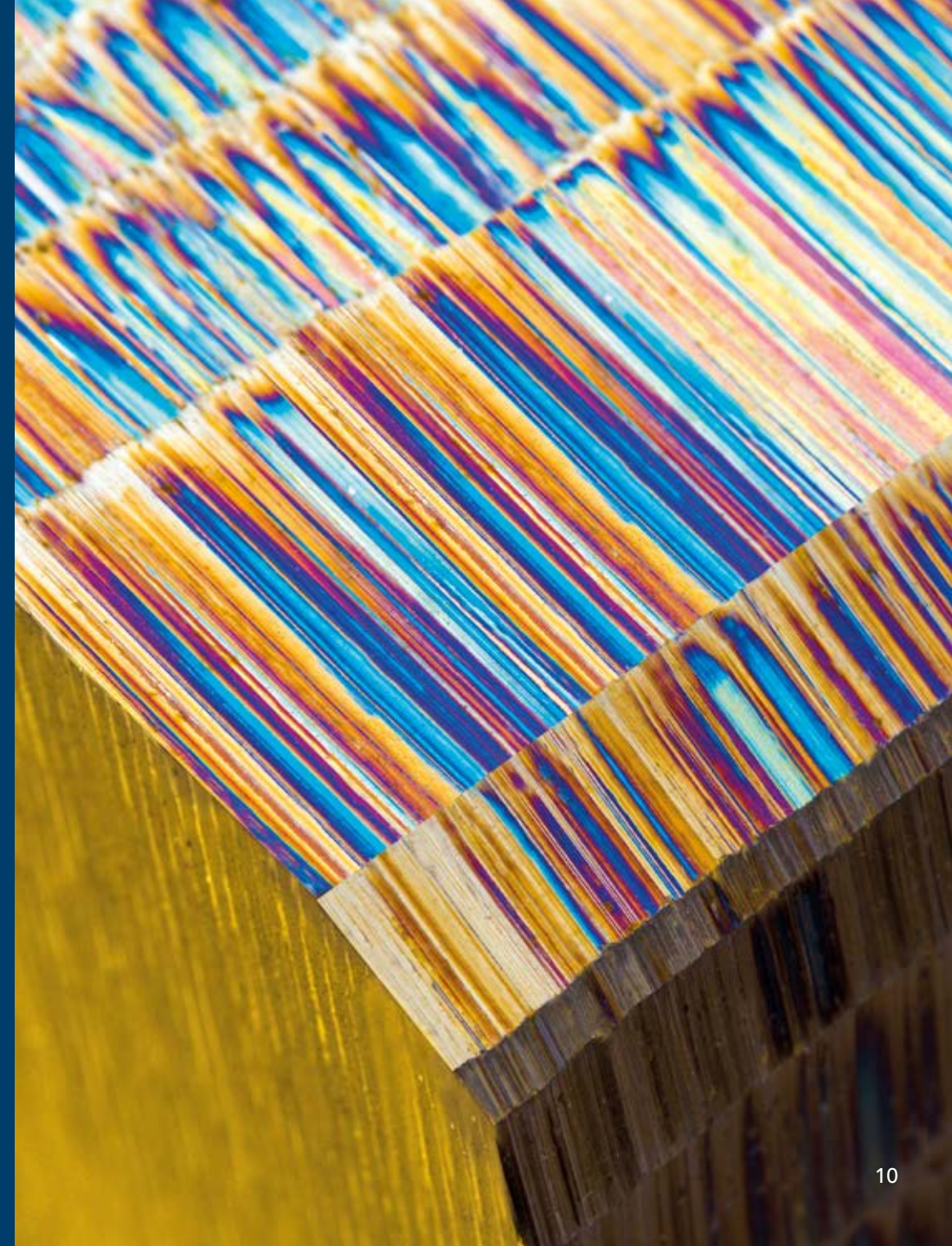


UNIQUE POSITIONING

MARCEGAGLIA IS PRESENT THROUGHOUT THE STEEL VALUE CHAIN, BOTH HORIZONTALLY AND VERTICALLY, THANKS TO ITS UNIQUE STRATEGIC POSITIONING.

THE GROUP IS THE WORLD'S LEADING INDEPENDENT STEEL PROCESSOR WITH A PRODUCT RANGE THAT COVERS EVERYTHING FROM CARBON TO STAINLESS STEEL, FROM LONG TO FLAT PRODUCTS, FROM COMMODITY TO SPECIALTY.

IN JANUARY 2023, THE COMPANY ACQUIRED AN ELECTRIC FURNACE FOR SPECIAL STEEL PRODUCTS IN SHEFFIELD, UK: THIS BEING THE FIRST PRIMARY PRODUCTION ASSET IN THE GROUP'S HISTORY. MARCEGAGLIA HAS INVESTED WITH A VIEW TO SHORTENING AND STABILISING SUPPLY CHAINS AND DEVELOPING AN OFFER OF INCREASINGLY SUSTAINABLE AND COMPETITIVE PRODUCTS.



STEEL, IN ALL SHAPES

CARBON STEEL



CARBON STEEL COILS
PICKLED, COLD ROLLED AND HOT DIP GALVANIZED



CARBON STEEL STRIPS
BLACK, PICKLED, COLD ROLLED AND HOT DIP GALVANIZED



CARBON STEEL SHEETS
BLACK, PICKLED, COLD ROLLED, HOT DIP GALVANIZED, DIAMOND AND TEARDROP PAT-TERNE



PRE-PAINTED COILS



PRE-PAINTED STRIPS AND SHEETS



CARBON STEEL WELDED TUBES



COLD-DRAWN WELDED TUBES



REFRIGERATION TUBES

BUILDING



INSULATED ROOFING AND WALL PANELS



INSULATED PANELS FOR SECTIONAL DOORS



SAFETY BARRIERS



SCAFFOLDING EQUIPMENT

SPECIALTY STEEL



STAINLESS STEEL COILS



STAINLESS STEEL STRIPS



STAINLESS STEEL SHEETS



STAINLESS STEEL WELDED TUBES



CARBON AND STAINLESS STEEL COLD-DRAWN BARS

STAINLESS STEEL FLAT BARS

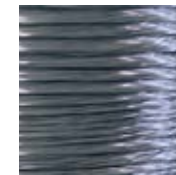
STAINLESS STEEL COLD FORMED SECTIONS



STAINLESS STEEL WIRE RODS

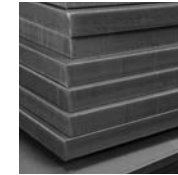


STAINLESS STEEL BARS



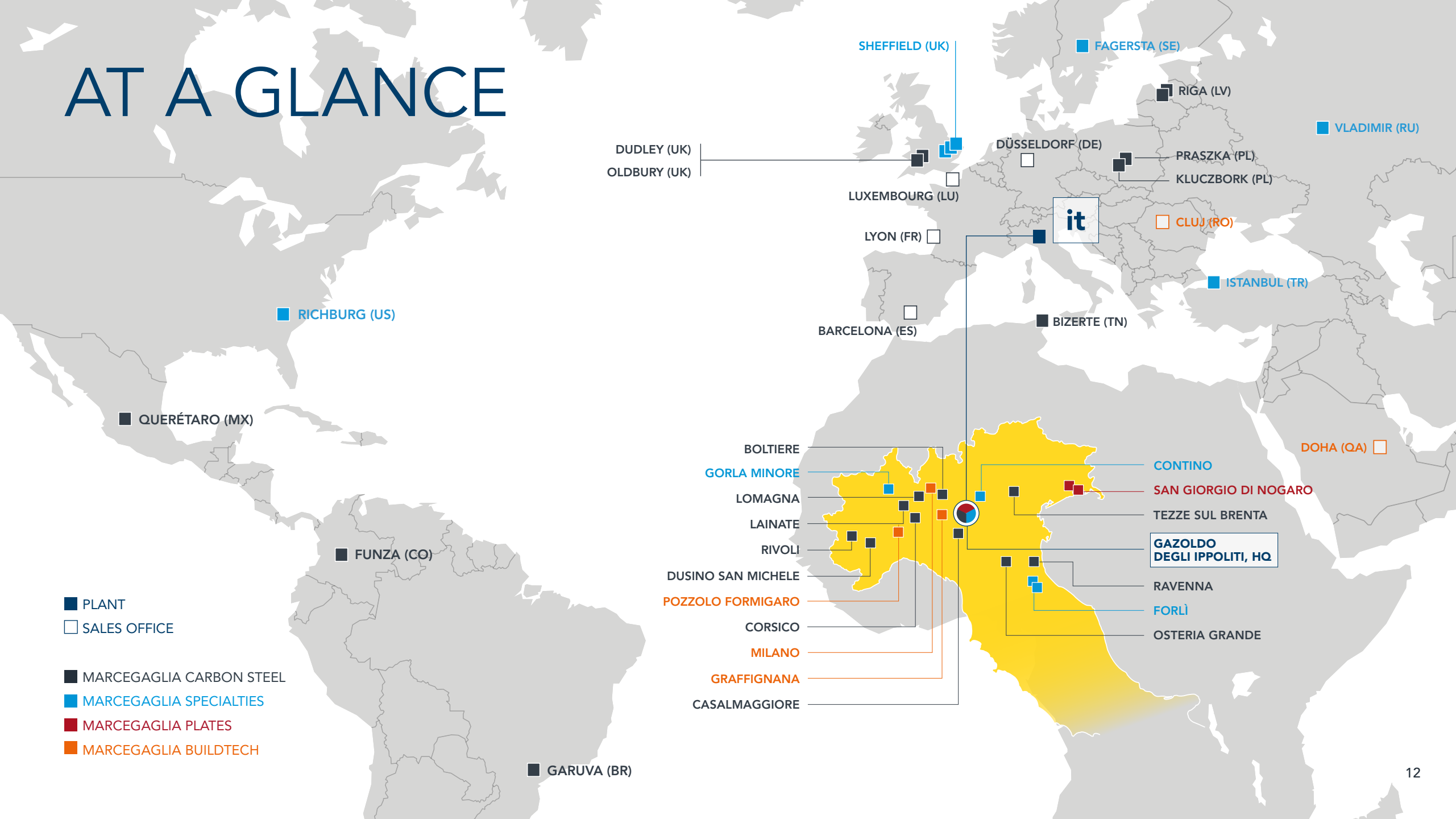
STAINLESS STEEL DRAWN WIRES

HEAVY PLATES



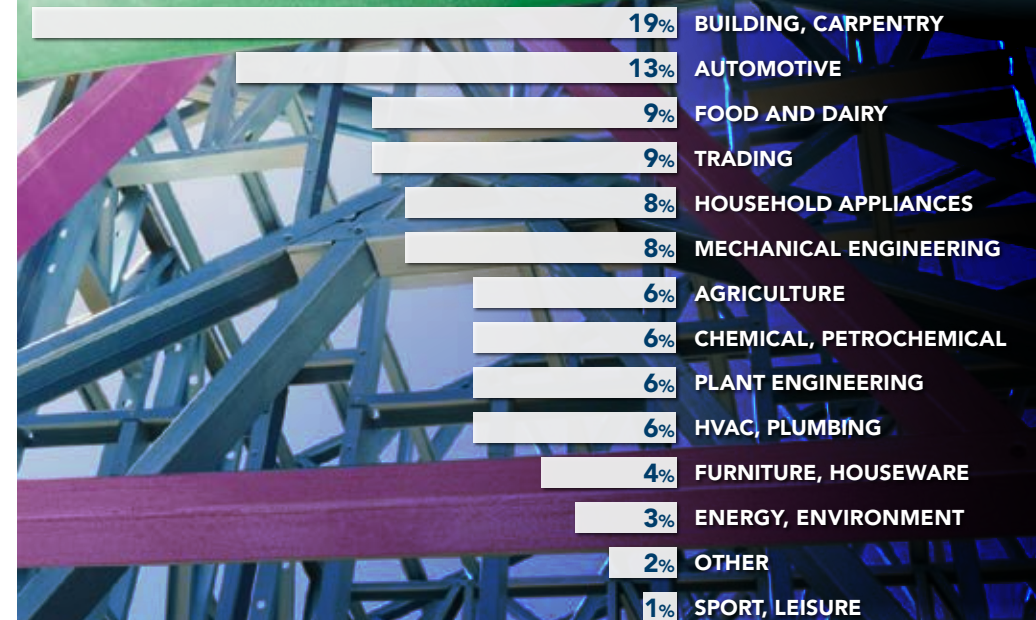
HEAVY PLATES

AT A GLANCE



STEEL, EVERYWHERE

MARCEGAGLIA MANUFACTURES PRODUCTS SECTOR WIDE: FROM DISTRIBUTION TO MECHANICAL ENGINEERING, INDUSTRIAL PLANT ENGINEERING, BUILDING AND CONSTRUCTION, AND THE AUTOMOTIVE INDUSTRY, WITHOUT FORGETTING SPECIALISATIONS FOR THE FOOD, AGRICULTURE, CHEMICAL AND PETROCHEMICAL, HYDROMECHANICS, HYDRAULICS, FURNITURE SECTORS AND MANY MORE.



STEEL, EVERYWHERE

OVER 15,000 CUSTOMERS ACROSS EUROPE
AND AROUND THE WORLD ARE PROOF
OF THE GROUP'S WIDESPREAD MARKET PENETRATION.

STRONG SECTORIAL DIVERSIFICATION
AND PRESENCE IN MULTIPLE GEOGRAPHICAL AREAS
MEAN THAT MARCEGAGLIA DOES NOT DEPEND
ON THE PERFORMANCE OF A SINGLE BUSINESS OR REGION,
GUARANTEEING ITS OUTSTANDING
AND PERHAPS UNIQUE RESILIENCE IN THE STEEL INDUSTRY.



MOVING THE WORLD

READY TO SEIZE EVERY OPPORTUNITY FOR GROWTH WHILST PAYING CONSTANT ATTENTION TO CUSTOMERS NEEDS, MARCEGAGLIA GROUP HAS CREATED A NETWORK OF 36 PRODUCTION PLANTS THAT GUARANTEE THE VERY BEST SKILLS, QUALITY, SERVICE AND KNOW-HOW, ALONG WITH A HIGHLY EFFICIENT LOGISTICS AND DISTRIBUTION NETWORK.

THE LARGE NUMBER OF HUBS LOCATED IN EUROPE'S MOST STRATEGIC MANUFACTURING DISTRICTS AND ITS PRIVATELY-OWNED RAILWAY TERMINALS AND PORT FACILITIES IN THE MEDITERRANEAN (RAVENNA, SAN GIORGIO DI NOGARO AND BIZERTE) ALLOW THE COMPANY TO MEET REQUESTS FROM AROUND THE GLOBE AND ENSURING ITS INTERNATIONAL CUSTOMERS PROMPT, FLEXIBLE AND PUNCTUAL PRODUCT DELIVERY.



UNPARALLELED NETWORK

MARCEGAGLIA PAYS CLOSE ATTENTION TO THE ORIGIN OF RAW MATERIALS DURING PROCUREMENT, WHICH PROVIDES REAL STRENGTH AND DEPTH TO ITS SUPPLY CHAINS.

THANKS TO PARTNERSHIP AGREEMENTS WITH TOP STEEL SUPPLIERS ON FIVE CONTINENTS, THE GROUP CAN EASILY SOURCE HIGH-QUALITY MATERIALS AND VARIOUS GRADES OF STEEL, OFFERING ITS CUSTOMERS A TAILOR-MADE SERVICE AT ALL TIMES.

THE STRENGTH OF ITS SUPPLY NETWORK COMBINED WITH FLEXIBLE AND DIVERSIFIED SOLUTIONS ALLOW MARCEGAGLIA TO BETTER ADDRESS MARKET VOLATILITY, ALWAYS SATISFYING THE NEEDS OF ITS CUSTOMERS.



QUALITY FIRST

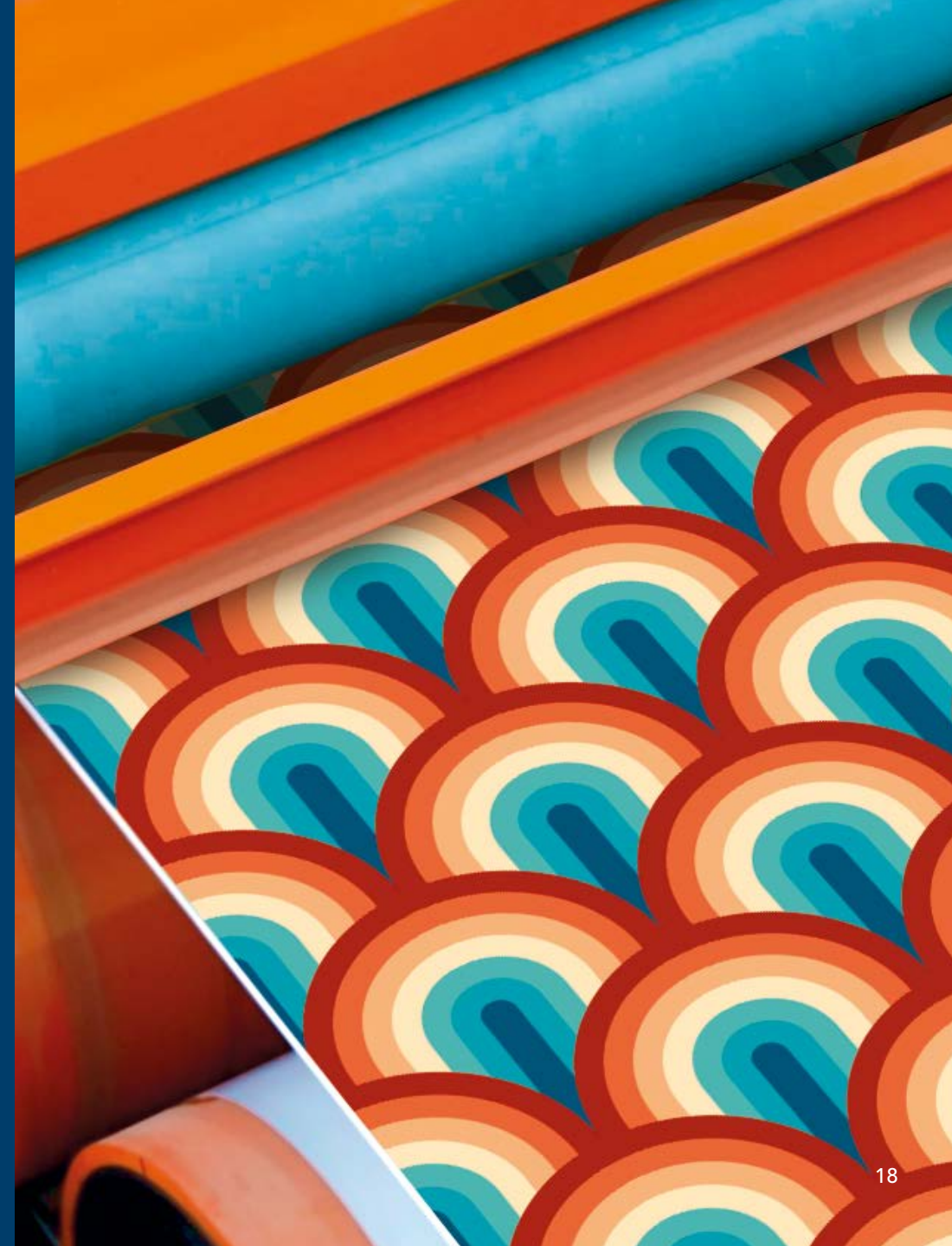
ALL GROUP ACTIVITIES STRIVE FOR EXCELLENCE,
CONSTANTLY SEEKING NEW AND IMPROVED
QUALITY STANDARDS
AND MAKING STRUCTURAL INNOVATION.
THIS IS A MINDSET THAT IS APPLIED
TO EVERY ASPECT OF CORPORATE LIFE.

A HIGH DEGREE OF PLANNING
AND OPENNESS TO CHANGE
MAKE MARCEGAGLIA A GROUND-BREAKING COMPANY,
WHICH IS ALWAYS AT THE FOREFRONT
OF EXPERIMENTATION AND INNOVATION.



THE FUTURE IS HERE

THE GROUP'S IT ENGINEERING AND R&D DIVISIONS ARE STRONGLY ENGAGED IN MULTIPLE ACTIVITIES FOCUSED ON DESIGNING AND IMPLEMENTING DIGITISATION AND INTEGRATED AUTOMATION SOLUTIONS. DEVELOPING HIGH-PERFORMANCE AND LOW-CARBON PRODUCTION THROUGH THE ADOPTION OF THE BEST TECHNOLOGIES AVAILABLE AND OPTIMISING THE STEEL PRODUCTION CHAIN AND PROCESSES. WITH PARTICULAR ATTENTION TO PLANT PRODUCTIVITY, WORKER SAFETY AND ENERGY EFFICIENCY THANKS TO THE USE OF RENEWABLE SOURCES.



SUSTAINABLE MIND

MARCEGAGLIA HAS ALWAYS CARED GREATLY ABOUT ENVIRONMENTAL AND SOCIAL SUSTAINABILITY, WELL AWARE THAT EACH COMPANY MUST PLAY ITS PART IN DESIGNING A WORLD THAT CAN FIND THE RIGHT BALANCE BETWEEN THE USE OF RESOURCES, WELL-BEING AND INCLUSION.

WE HAVE INVESTED IN H2 GREEN STEEL THE WORLD'S FIRST ZERO-EMISSION STEEL MILL; WE ARE PARTNERS OF THE CO2 CAPTURE AND STORAGE PROJECT IN THE RAVENNA INDUSTRIAL DISTRICT AND WE ARE EXPLORING THE USE OF GREEN HYDROGEN.



SUSTAINABLE MIND

WE HAVE DECIDED TO TAKE A STAND BY JOINING THE UNITED NATIONS GLOBAL COMPACT, AS PART OF THE ITALIAN NETWORK OF JUST OVER 500 COMPANIES, AND WE ARE ONE OF THE FIRST ITALIAN MEMBERS OF THE FIRST MOVERS COALITION LINKED TO THE WORLD ECONOMIC FORUM.

WE ALSO PARTICIPATE IN RESPONSIBLESTEEL™, A GLOBAL INITIATIVE THAT AIMS TO CONTRIBUTE TO THE DEVELOPMENT OF A STEEL INDUSTRY THAT CAN PRODUCE AND PROCESS STEEL IN AN INCREASINGLY RESPONSIBLE AND SUSTAINABLE WAY.



STEEL IS PEOPLE

PEOPLE ARE AT THE HEART OF MARCEGAGLIA'S CORPORATE VISION AND PLAY AN ACTIVE ROLE OF A BROADER PROJECT THAT GOES BEYOND THE WORKPLACE.

THE COMPANY LOOKS AHEAD, PROMOTING DIVERSITY, FAIRNESS AND INCLUSION TO BUILD THE BEST POSSIBLE WORKING ENVIRONMENT AND MAKE EACH OF ITS 7,500 EMPLOYEES TRULY FEEL PART OF THE GROUP.

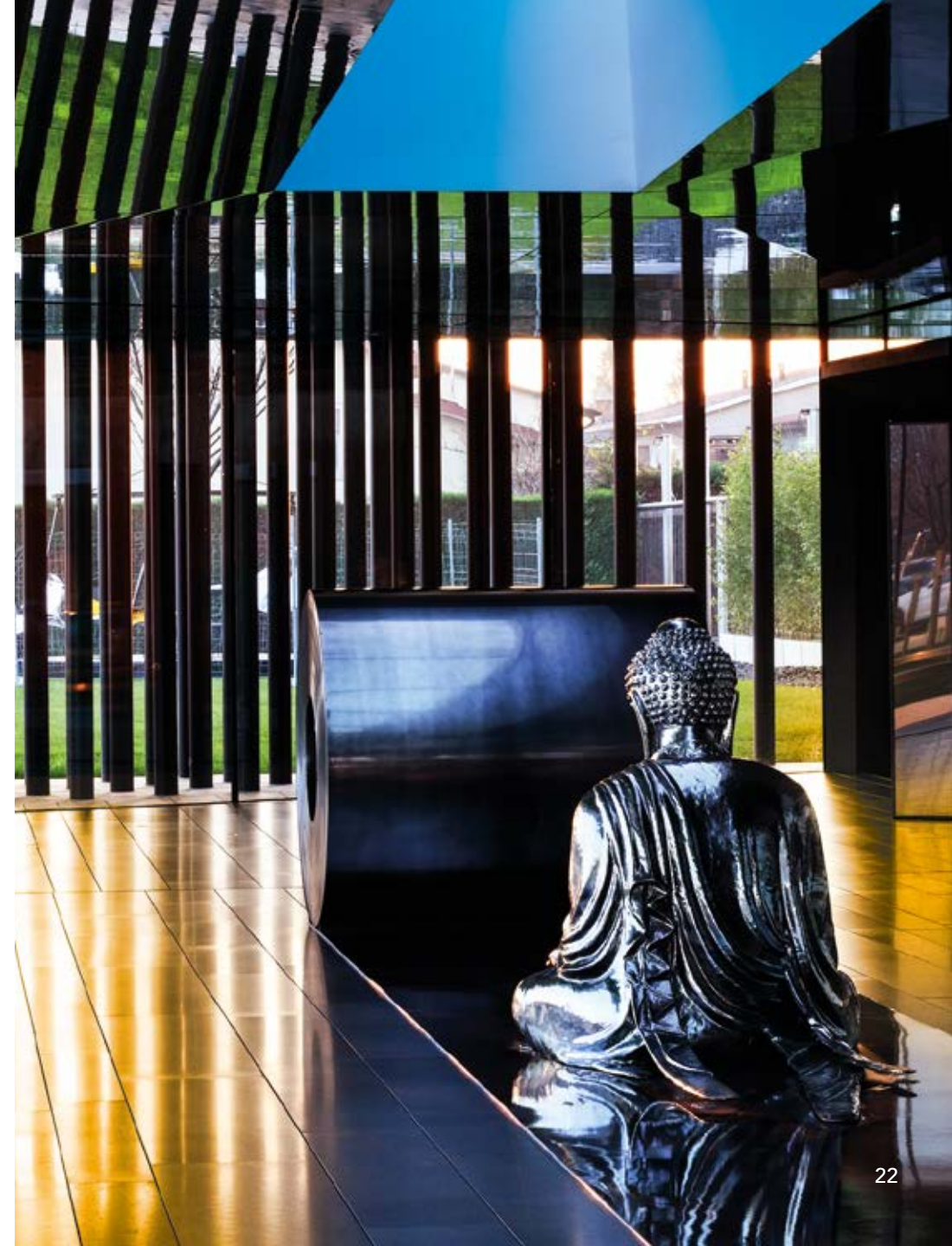
THE DEVELOPMENT OF PERSONAL QUALITIES AND TRANSVERSAL SKILLS, RESOURCE PRODUCTIVITY, AND EMPLOYEE ENGAGEMENT AND COLLABORATION ARE ESSENTIAL ASPECTS FOR THE HUMAN AND PROFESSIONAL GROWTH OF ITS PEOPLE, WHOSE ACTIONS ARE CRUCIAL FOR GROUP'S SUCCESS.



CASA MARCEGAGLIA

A PERMANENT MUSEUM COVERING 1,300 SQUARE METERS AT THE HEADQUARTERS OF THE GROUP, IN GAZOLDO DEGLI IPPOLITI, TAKES VISITORS ON AN EMOTIONAL AND INTERACTIVE JOURNEY.

RETRACING THE FOOTSTEPS OF THE FOUNDER, STENO MARCEGAGLIA'S VALUES THAT DEFINED THE COMPANY AND THE MANY APPLICATIONS THAT TRANSFORMED MARCEGAGLIA STEEL.



MARCEGAGLIA ACADEMY

A PLACE OF HIGHER EDUCATION
FOR GROUP EMPLOYEES AND COLLABORATORS,
AS WELL AS EXTERNAL USERS,
WHICH SHARES AND AMPLIFIES THE COMPANY KNOW-HOW,
THANKS TO THE CONSTANTLY UPDATED
HISTORICAL AND TECHNICAL ARCHIVE
OF THIS HIGHLY SPECIALISED EDUCATIONAL HUB
AND DIGITAL LIBRARY.



STEEL IS HUMAN

THE COMPANY HAS FORGED A RELATIONSHIP WITH THE LOCAL AREA EARLY ON THANKS TO THE INTEREST AND EFFORTS OF THE FOUNDERS, STENO AND MIRA MARCEGAGLIA.

OVER THE YEARS THIS BOND HAS GROWN DEEPER, ASSUMING A STRONG SOCIAL COMMITMENT TO SUPPORT NUMEROUS INITIATIVES FOR THE BENEFIT OF THE COMMUNITY.

MARCEGAGLIA FOUNDATION

MARCEGAGLIA FOUNDATION IS THE NON-PROFIT ORGANISATION ESTABLISHED IN 2010, WHICH DEMONSTRATES THE NATURAL EVOLUTION OF THE FAMILY'S PHILANTHROPIC SPIRIT WHICH EXCLUSIVELY PURSUES THE PURPOSES OF SOLIDARITY AND SUPPORT, AND THE CREATION OF INITIATIVES IN SOCIAL, HEALTH, EDUCATIONAL, ECONOMIC SPHERES.








BEYOND STEEL

MARCEGAGLIA INVESTMENTS OVERSEES AND DEVELOPS DIVERSIFIED ACTIVITIES WITH RESPECT TO THE CORE BUSINESS OF THE GROUP IN ELECTROMECHANICAL ENGINEERING, PRODUCTS FROM COMPOSITE MATERIALS AND DOMESTIC PRODUCTS. THESE FEATURE A DEDICATED RANGE OF COMPONENTS FOR THE APPLIANCES AND REFRIGERATION INDUSTRY.

THE HOLDING COMPANY IS ALSO PRESENT IN THE TOURISM AND REAL ESTATE SECTORS. AS WELL AS THE ENERGY INDUSTRY, WITH THE PRODUCTION OF ENERGY FROM RENEWABLE SOURCES. THERE IS ALSO AN INVOLVEMENT IN THE ENVIRONMENT, HEALTH AND SAFETY AND QUALITY SECTORS.



-  METAL HANDLES - CONDENSERS - EVAPORATORS
-  COMPOSITE MATERIALS
-  POWER PRODUCTION FROM RENEWABLE SOURCES
-  ANALYSIS - ENVIRONMENT, HEALTH, SAFETY AND QUALITY - TRAINING SOFTWARE, IT
-  HOSPITALITY ACTIVITIES AND REAL ESTATE

MARCEGAGLIA RAVENNA

THE PLANT

Marcegaglia has set up its by far biggest steel metallurgy plant in Ravenna, as well as the nerve-center for integrated logistics to supply each production and distribution facility of the industrial group.

The production facility, endowed with state of the art machinery, is the result of the group's constant investment policy aimed to increase its production capacity and range, the quality of raw materials and final products, the flexibility and rationalization of activities, and also to improve logistics, distribution and reliability towards the clientele.

540,000 SQM
TOTAL SURFACE

250,000 SQM
COVERED SURFACE

EMPLOYEES AND PRODUCTION

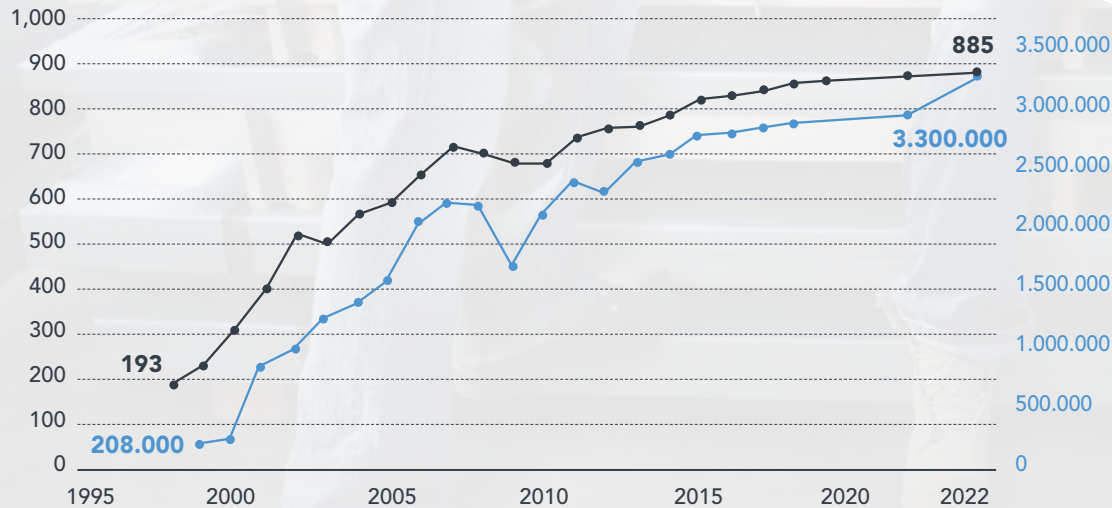
**885
STAFF**

1,000

STAFF OF THE SUPPLY CHAIN

**3.3 BILLION EUROS
VALUE OF PRODUCTION**

**NUMBER OF EMPLOYEES
PRODUCTION (tons)**



EVOLUTION

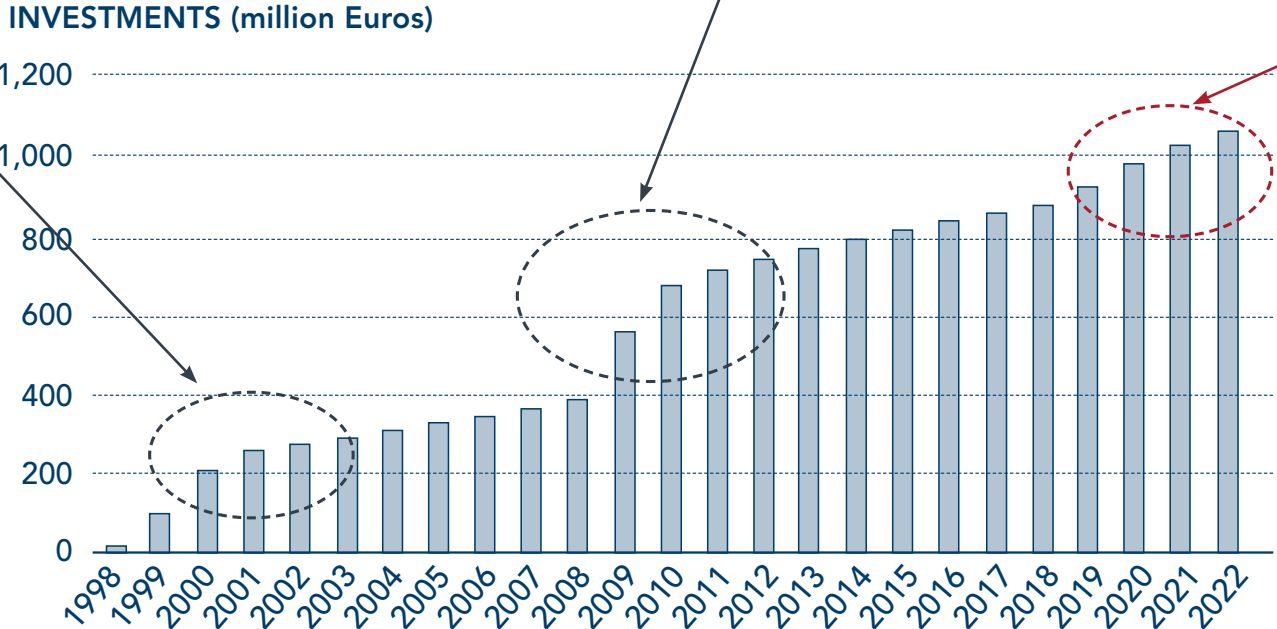


RAVENNA 2020: CUMULATIVE INVESTMENTS

PHASE 1
RAVENNA 2000

PHASE 2
RAVENNA 2010

PHASE 3
RAVENNA 2020



PRODUCTION PLANTS



Manufacturing capacity:

- Pickling 3,000,000 tons
- Cold rolling 2,500,000 tons
- Annealing 750,000 tons
- Skinpassing 750,000 tons
- HD galvanizing 2,000,000 tons
- Pre-painting 600,000 tons
- Service center 1,100,000 tons

Production lines:

- 2 pickling lines
- 3 cold-rolling mills
- 56 annealing bases
- 32 annealing furnaces
- 1 skinpass
- 4 hot dip galvanizing lines (including 1 galva-painting line)
- 1 pre-painting line
- Service center



MARCEGAGLIA

RAVENNA 31

PICKLING LINE

thickness: 1.20/6.00 mm
width: 900/1,550 mm
max weight: 35 t
max outside diameter: 2,150 mm

PRODUCT:

Dry or oil pickled, potentially trimmed and/or skinpassed

AUTOMATIC CONTROLS

- automatic dimensional controls (X-Ray thickness measurement and automatic width measurement)
- automatic surface defects detection

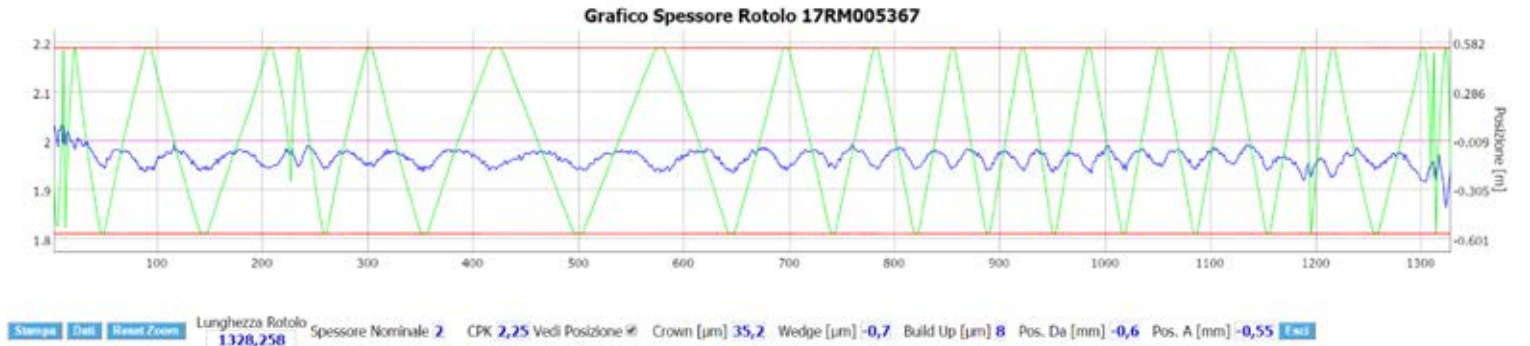
2 LINES

3,000,000 T/Y

MANUFACTURING CAPACITY

PICKLING LINE

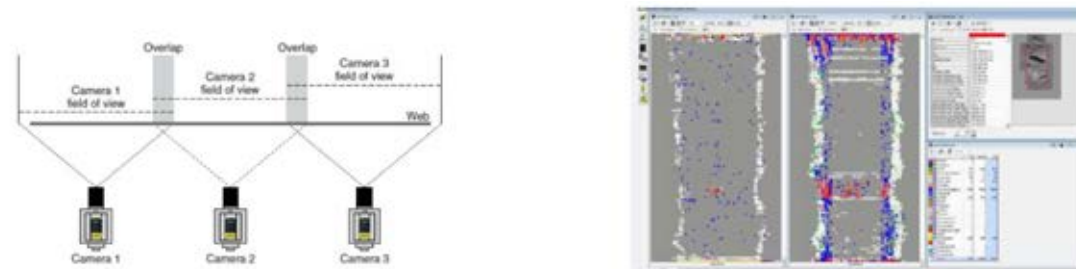
Continuous thickness measure.
Calculation of Crown - Wedge - Build UP
(the parameters of the shapes of the hot rolled products)



Continuous width measurement



Automatic surface defect detector
(PARSITEC system)



COLD ROLLING LINES

thickness: 0.23/4.00 mm
width: 900/1,530 mm
max weight: 35 t
max outside diameter: 2,150 mm

PRODUCT:
Cold-rolled coil - Full hard

AUTOMATIC CONTROLS

- automatic dimensional controls (X-Ray thickness measurement and automatic width measurement)
- automatic surface defects detection

3 LINES

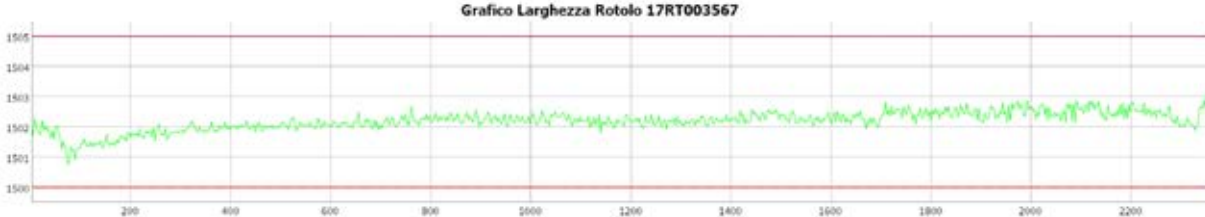
2,500,000 T/Y
MANUFACTURING CAPACITY

COLD ROLLING LINES

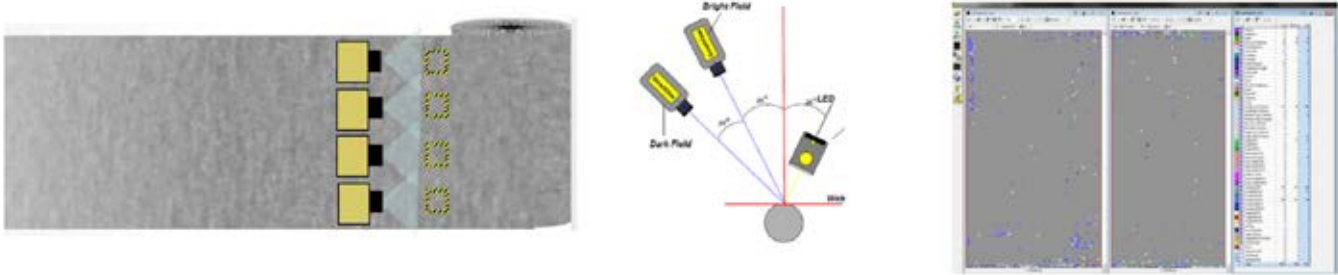
Continuous thickness measurement



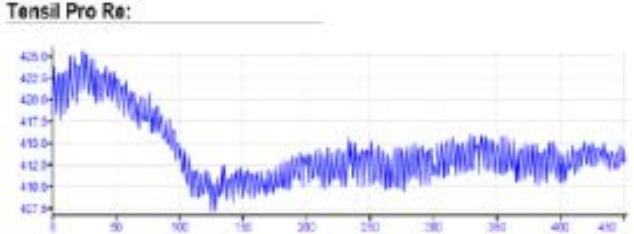
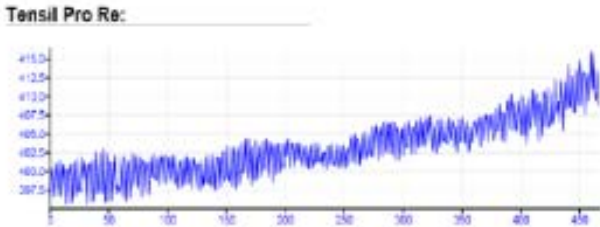
Continuous width measurement



Automatic surface defect detector
(Cognex system)



Continuous measurement of the mechanical properties of the hot rolled product using the TENSIL-PRO device
(Marcegaglia patent) NEW



NEW ROLLING MILL

REVERSIBLE ROLLING MILL EQUIPPED
WITH THE MOST SOPHISTICATED TECHNOLOGIES:
THE LEVEL OF AUTOMATION
AND THE INNOVATIVE EQUIPMENT
MAKE THE PLANT A WORLD LEADER

UP TO **0.23** MM THICK

EXTREMELY TIGHT TOLERANCES

CONTROLLED PLANARITY

HIGH PRODUCTIVITY

550,000 T/Y PRODUCTION CAPACITY

+30% INCREASE IN ROLLING CAPACITY



ANNEALING FURNACES

56 BASES
32 FURNACES

width: 900/1,530 mm
max weight: 35 t
max outside diameter: 2,150 mm

PRODUCT:
Annealed coil

The static annealing and skinpassing plants connected to the cold rolling lines make it possible to obtain maximum uniformity of the mechanical and magnetic properties of the machined steels, as well as to improve their surface qualities, depending on the intended applications.

SKINPASS

1 LINE

thickness: 0.4/3.00 mm

width: 900/1,530 mm

max weight: 35 t

max outside diameter: 2,150 mm

PRODUCT:

Skinpassed coil - surface finish

AUTOMATIC CONTROLS

Automatic dimensional controls
(X-Ray thickness measurement)

HOT DIP GALVANIZING

thickness: 0.25/4.00 mm
width: 900/1,530 mm
max weight: 35 t
max outside diameter: 2,150 mm

PRODUCT:

Galvanized coil

Surface finish: normal, minimized, skinpassed spangle

Zinc coating: from Z50 up to Z800 g/m²

AUTOMATIC CONTROLS

- automatic dimensional controls (X-ray thickness measurement)
- automatic control on thickness of zinc layer
- automatic control of the mechanical properties

4 LINES
(INCLUDING 1 GALVA-PAINTING)

2,000,000 T/Y
MANUFACTURING CAPACITY

 **MARCEGAGLIA**

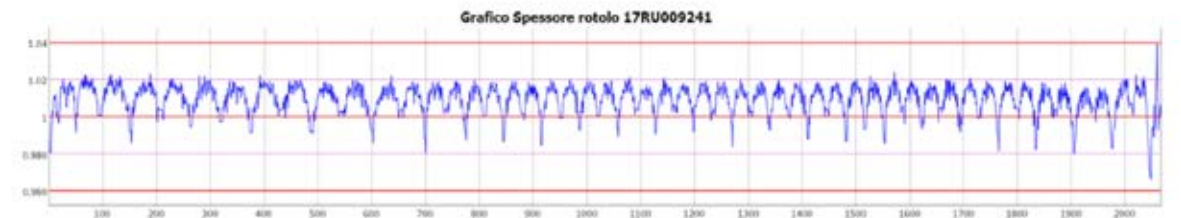
RAVENNA 39

HOT DIP GALVANIZING

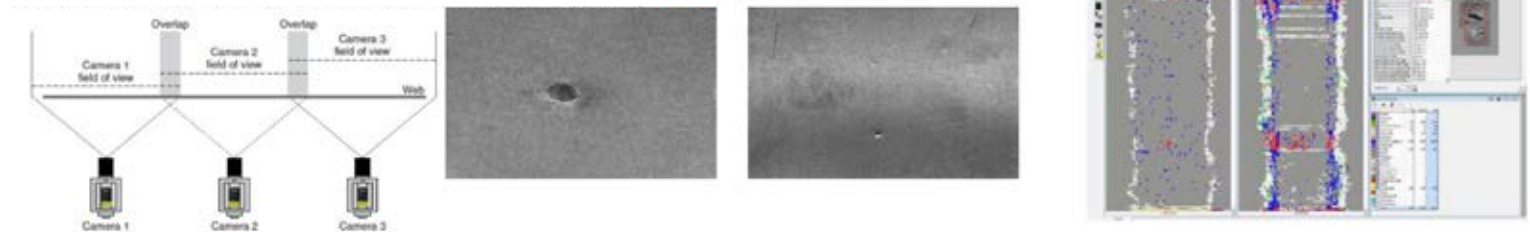
Continuous measurement of zinc coating



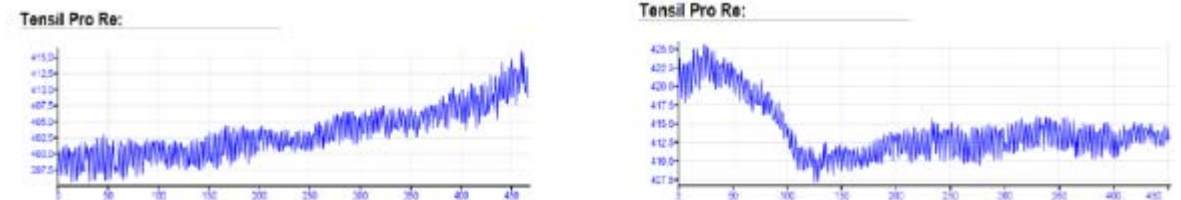
Continuous thickness measurement



Continuous width measurement.
Automatic surface defect detector
(PARSITEC system) **NEW**



Continuous measurement of the mechanical characteristics of the galvanised product using the TENSIL-PRO device (Marcegaglia patent) **NEW**



Continuous measurement of surface protectors
(Cr III passivants, antifinger, paint pretreatments)

PRE-PAINING

A large industrial facility with a complex network of pipes, walkways, and machinery. In the foreground, a large blue machine is processing a wide, red-painted metal coil. The background shows a long, brightly lit industrial corridor with yellow safety railings and various pipes and structures.

thickness: 0.25/2.00 mm
width: 600/1,500 mm
max weight: 35 t
max outside diameter: 2,150 mm

PRODUCT:

Pre-painted coil

Resin range: polyester, modified polyester/polyurethane, polyamide, fluoro-carbon, high flexibility polyester, vinyl, high-thickness paint systems

AUTOMATIC CONTROLS

- automatic colour control
- automatic control of coating thickness

2 LINES
(INCLUDING GALVA-PAINING)

600,000 T/Y
MANUFACTURING CAPACITY



MARCEGAGLIA

RAVENNA 41

SERVICE CENTER



thickness: 0.29/16.00 mm
width: 2,000 mm max

PRODUCT:

Sheet, narrow strip
Black, pickled, bright, striped, buckled,
hot-dip galvanized, pre-painted

Marcegaglia has set up in Ravenna Italy's largest service center for finishing, cutting and automated packaging of strips and sheets. The facility has a yearly output of 1.1 million tons and is equipped with 7 cut-to-length machines and 10 slitters for sheets and strips up to 2,000 mm wide and from 0.29 to 16 mm thickness and 3 packaging lines. The minimum cutting width for the strips is 30 mm.

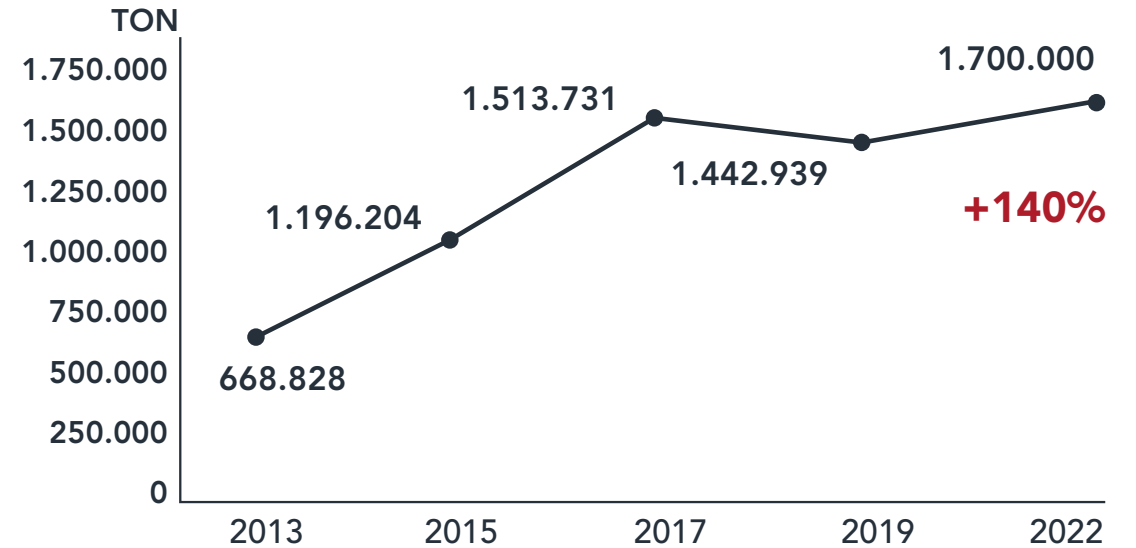
INTERMODAL LOGISTICS

HARBOUR DOCK

- 5,000,000 T/Y HANDLING CAPACITY
- 800 M LENGTH
- 50 M WIDTH
- 10,3 M DRAUGHT
- 5x100 T MOBILE CRANES

INTERMODAL LOGISTICS

SHIPMENTS BY TRAIN



RAILWAY

2,000,000 T/Y CAPACITY BY TRAIN

+4 KM OF TRACKS DEVELOPMENT OF INTERNAL RAIL TRAFFIC

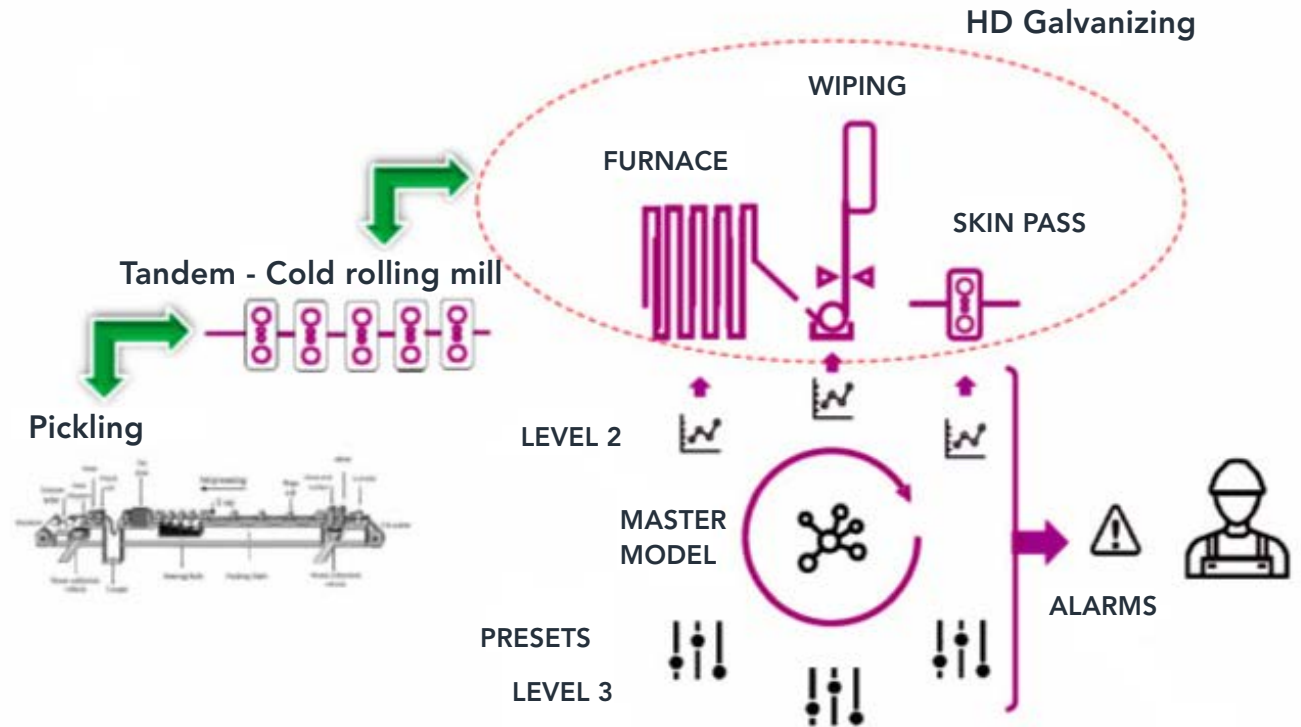
-175 TRUCKS DAILY REDUCTION IN ROAD TRAFFIC (FROM 2013)

INDUSTRY 4.0

MASTER MODEL PROJECT

INTERCONNECTION OF ALL THE LINES, SO THAT THE DOWNSTREAM LINE KNOWS IN ADVANCE THE MECHANICAL CHARACTERISTICS OF THE INCOMING PRODUCT AND CAN ADJUST ITSELF AUTOMATICALLY TO OBTAIN THE BEST QUALITY AT MAXIMUM SPEED

THE GALVANIZING LINE WILL RECEIVE THE MECHANICAL CHARACTERISTICS OF THE COIL AND THE FURNACE WILL SELF-ADJUST (SO-CALLED "INTELLIGENT FURNACE")



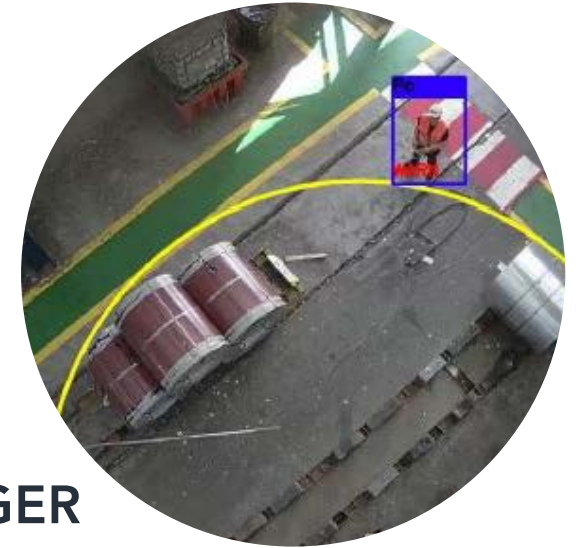
INDUSTRY 4.0

INTEGRATED LOGISTICS

OVERHEAD CRANE AUTOMATION
GROUND HANDLING
AUTOMATIC PACKAGING

ICOY PROJECT (I Care Of You)

INNOVATIVE SYSTEM
TO IDENTIFY THE PRESENCE
OF AN OPERATOR IN A DANGER
AREA. THE USE OF HIGHLY
SOPHISTICATED TECHNOLOGIES
SUCH AS ARTIFICIAL INTELLIGENCE (AI)
AND DEEP LEARNING (DL) MAKE IT POSSIBLE
TO CREATE SOLUTIONS FOR THE ISSUE
OF SAFETY AT WORK.
ICOY WAS DESIGNED BY ITWAY (A COMPANY
FROM RAVENNA).



COGENERATION PLANT

NEW COGENERATION PLANT
FOR SELF-PRODUCTION
AND SELF-CONSUMPTION OF ENERGY,
REPLACING THREE EXISTING
OLD-GENERATION STEAM GENERATORS
AND AT THE SAME TIME REDUCING
THE WITHDRAWAL FROM
THE NATIONAL ELECTRICITY GRID
AND ENVIRONMENTAL EMISSIONS



MARCEGAGLIA

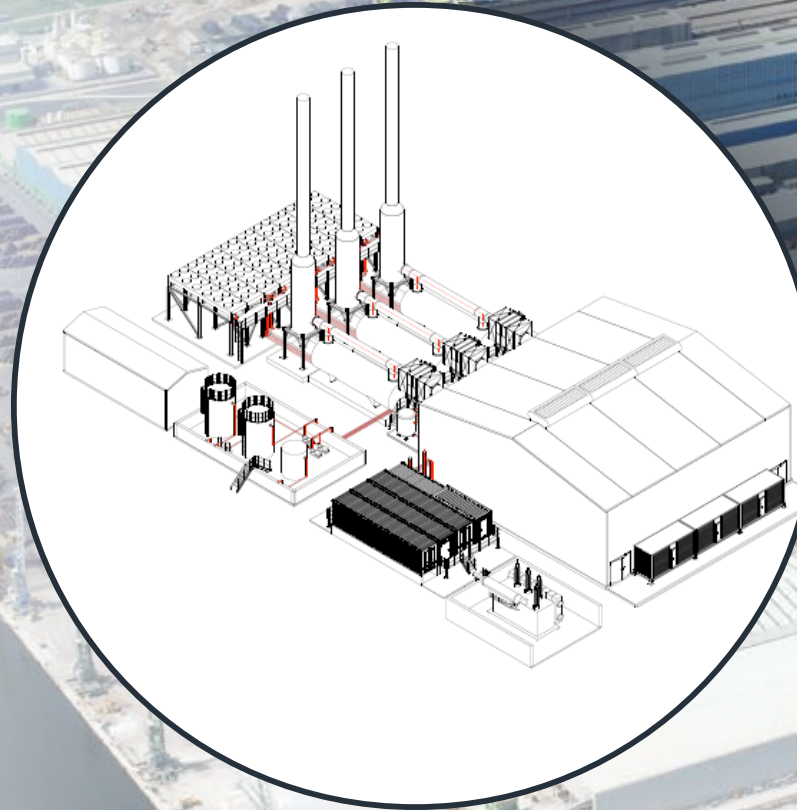
RAVENNA 47

COGENERATION PLANT

35 MW INSTALLED POWER,
QUALIFIED HYC
(High Yield Cogeneration)

GUARANTEES 67% OF THE PLANT'S
ELECTRICITY REQUIREMENTS

100% OF SELF-PRODUCED ELECTRICAL POWER
IS ALSO SELF-CONSUMED BY THE PLANT



MARCEGAGLIA
RAVENNA 48

FUTURE PROJECTS

NEW DOCK READY AT THE END OF THE YEAR 2023

AUTOMATION AND **DIGITALIZATION** OF LOGISTICS

DECARBONIZATION

- CCUS (CARBON CAPTURE, UTILIZATION AND STORAGE)
- GREEN HYDROGEN UTILIZATION
- ELECTRIFICATION OF PLANTS

NEW PRODUCTS DEVELOPMENT

- HIGH-STRENGTH MATERIALS
- ULTRA-LOW THICKNESS PRODUCTS
- CROMATICA



QUALITY, SAFETY AND ENVIRONMENT



The Quality Management System of Marcegaglia Ravenna has the following certifications:

- ISO 9001:2015 (Quality System)
- ISO 14001:2015 (Environmental System)
- ISO 50001:2011 (Energy Management System)
- UNI ISO 45001:2018 (Health and Safety System)
- SA8000:2014 (Social Accountability)

Other certifications include:

- CE marking for flat products (EN 10025-1)
- D.M. 14.01.2008 and D.M. 17.01.2018 (Technical standards for construction)

All products made by Marcegaglia Steel's Italian plants are equipped with Environmental Product Declarations (EPD) pursuant to ISO 14025:2010, published on EPD International.

STANDARD AND OPTIONAL TESTING

Tensile test

Hardness tests

Impact test

Accelerated corrosion tests (salt spray fog, humidity cabinet)

Chemical analysis

Micrographic and surface analysis by SEM microscope

Magnetic properties analysis

Chemical analysis on all process consumable products (acids, emulsions, oils, passivants, etc.)

Paint properties analysis

Surface roughness measurement



NOVEMBER 2023

STEEL FOR GREEN GROWTH

 **MARCEGAGLIA**
RAVENNA