



**MARCEGAGLIA  
SPECIALTIES**

**COLD DRAWN BARS DIVISION**

# MARCEGAGLIA GROUP

# INTERNATIONAL PLAYER IN STEEL

MARCEGAGLIA IS THE ITALIAN  
INDUSTRIAL GROUP LEADING THE EUROPEAN  
AND WORLDWIDE STEEL MARKET.

A UNIQUE COMBINATION OF THE DYNAMIC ITALIAN  
FAMILY BUSINESS MODEL WITH THE GREAT  
OPERATING CAPACITY AND PRESENCE  
IN THE INTERNATIONAL MARKETS,  
TYPICAL OF THE LARGE CORPORATIONS.

**6.2 MILLION TONS**  
PROCESSED YEARLY

**8 BILLION EUROS SALES**  
MARCEGAGLIA HOLDING

**(7.7 BILLION EUROS SALES** MARCEGAGLIA STEEL)

**6,600 EMPLOYEES**

**29 STEEL PLANTS**

**60 SALES OFFICES**

**1<sup>st</sup> INDEPENDENT PLAYER**  
IN STEEL PROCESSING SECTOR IN THE WORLD

**1<sup>st</sup> PRODUCER OF STAINLESS STEEL**

**WELDED TUBES** IN THE WORLD

**1<sup>st</sup> PRODUCER OF CARBON STEEL**

**WELDED TUBES** IN EUROPE

**1<sup>st</sup> SERVICE CENTER** IN ITALY



# CORPORATE CULTURE

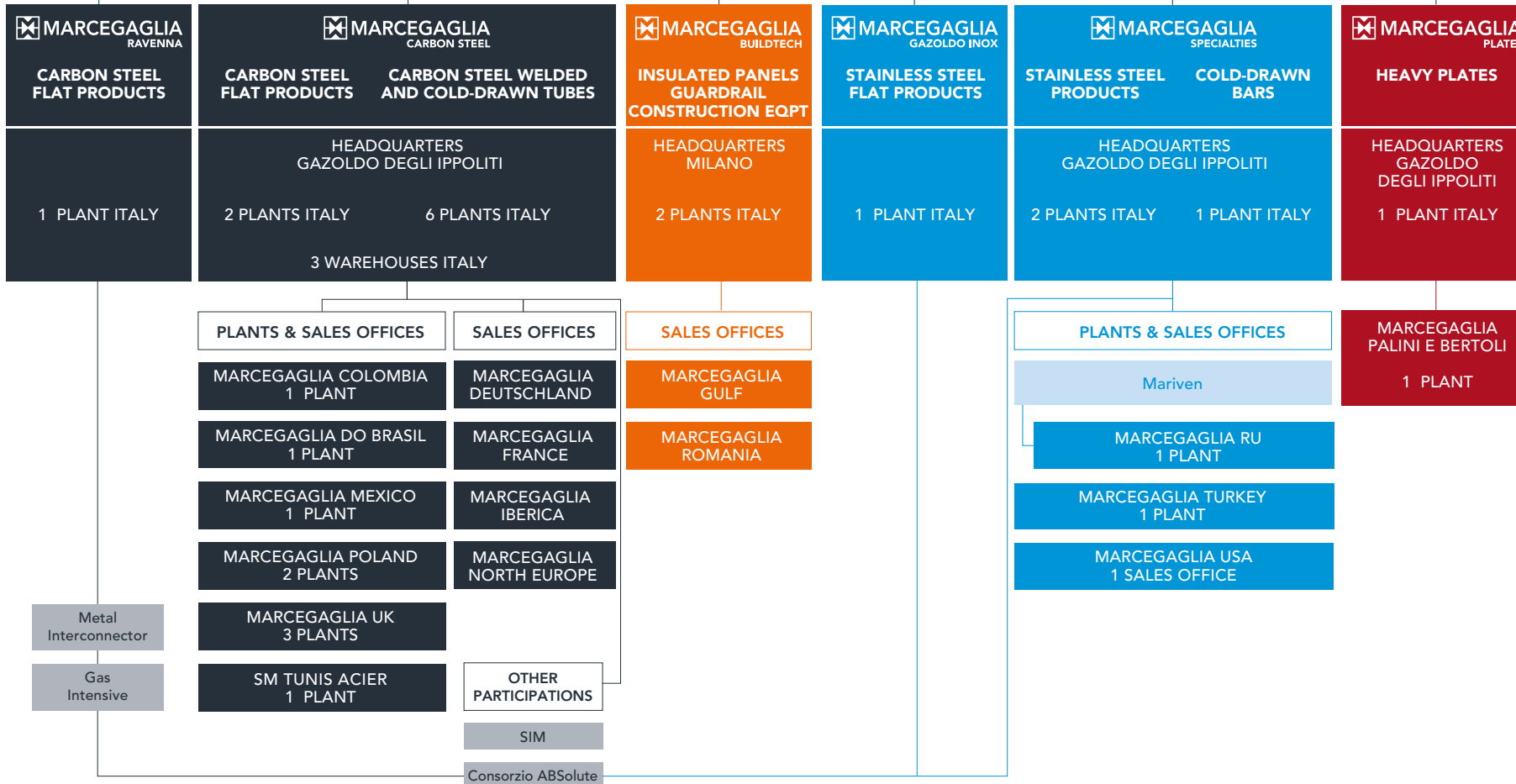
INDEPENDENCE, DYNAMISM, RESILIENCE,  
COMPETENCE, VERSATILITY, REACTIVITY:  
IN OVER 60 YEARS OF HISTORY,  
THESE DISTINCTIVE VALUES MADE MARCEGAGLIA  
THE PRIVILEGED PARTNER  
IN THE STEEL PROCESSING INDUSTRY.

THE COMPANY CULTURE IS BASED  
ON PEOPLE CENTRICITY AND SHARING  
OF THE SAME KEY VALUES WHICH  
ARE SHAPING MARCEGAGLIA  
UNIQUE BUSINESS MODEL.

# STEEL CORE

CORE BUSINESS ACTIVITIES, CONTROLLED BY MARCEGAGLIA STEEL (HOLDING COMPANY, WHICH REPRESENTS 97% OF TOTAL ACTIVITIES), ARE ORGANIZED THROUGH SIX DIFFERENT OPERATING COMPANIES: MARCEGAGLIA RAVENNA, MARCEGAGLIA CARBON STEEL WITH THE FLAT PRODUCTS AND WELDED TUBES DIVISIONS, MARCEGAGLIA BUILDTECH, MARCEGAGLIA GAZOLDO INOX, MARCEGAGLIA SPECIALTIES WITH THE STAINLESS PRODUCTS AND COLD DRAWN BARS DIVISIONS, MARCEGAGLIA PLATES FOR THE HEAVY PLATES PRODUCTION.

MARCEGAGLIA INVESTMENTS IS THE HOLDING FOR THE DIVERSIFIED ACTIVITIES (3% OF TOTAL ACTIVITIES).



#### HOME PRODUCTS

Oskar  
Imat

#### ENGINEERING

Elet.Ca

#### ENERGY

CO.GE.AM → Other particip.  
EuroEnergy → Other particip.  
ETA

#### HSE

Made HSE

#### HOSPITALITY ACTIVITIES & REAL ESTATE

Albarella → Other particip.  
Pugnochiuso  
Gaia Turismo → Other particip.  
Palazzo Agricoltura  
Gabetti Property Solutions

#### OTHER PARTICIPATIONS

# STEEL IN THE WORLD



- BOLTIERE
- LOMAGNA
- LAINATE
- RIVOLI
- DUSINO SAN MICHELE
- POZZOLO FORMIGARO
- CORSICO
- MILANO
- GRAFFIGNANA
- CASALMAGGIORE
- CONTINO
- SAN GIORGIO DI NOGARO
- TEZZE SUL BRENTA
- GAZOLDO DEGLI IPPOLITI, HQ
- RAVENNA
- FORLÌ
- OSTERIA GRANDE



## STEEL PRODUCTION

### PRIMARY INDUSTRY

Via either blast furnace, using iron mineral and carbon, or electric furnace, using re-melted scrap steel.

## ACTIVITIES

Iron making  
Steel making  
Casting  
Hot rolling

## OUTPUT

Coils  
Bars  
  
● Heavy plates

## 1<sup>st</sup> TRANSFORMATION

Crude products are chemically and/or mechanically processed to make them suitable for specific industrial purposes

Pickling  
Cold rolling  
Galvanizing  
Pre-painting

○ Galvanized coils  
○ Pickled coils  
○ Cold rolled coils  
○ Pre-painted coils  
● Hr/Cr Coils

## 2<sup>nd</sup> TRANSFORMATION

Advanced processing to customize steel products on clients specific requests

Tube forming  
Slitting and cutting to length  
Drawing

○ Tubes  
○ Strips and sheets  
○ Drawn bars  
● Tubes  
● Strips and sheets  
● Drawn bars

## DISTRIBUZIONE

Direct selling and/or retailing to industrial clients or further processing under request

Finishing  
Distribution

○ All products  
● All products

## END USERS MARKETS

○ Carbon steel products   ● Stainless steel products   ● Heavy plates

## UNIQUE STRATEGIC POSITIONING








Marcegaglia is covering the whole down- stream and distribution steel value chain, both horizontally and vertically, thanks to its unique strategic position. Marcegaglia is the first steel processor with a range of products that varies from carbon to stainless, from long to flat products, from commodity to specialty.






# STEEL UNIQUE



# PRODUCT RANGE








## **MARCEGAGLIA** CARBON STEEL

-  CARBON STEEL COILS
-  CARBON STEEL STRIPS
-  CARBON STEEL SHEETS
-  CARBON STEEL WELDED TUBES
-  COLD-DRAWN WELDED TUBES
-  REFRIGERATION TUBES
-  HOT DIP GALVANIZED COILS








-  HOT DIP GALVANIZED STRIPS
-  HOT DIP GALVANIZED SHEETS
-  PRE-PAINTED COILS
-  PRE-PAINTED STRIPS
-  PRE-PAINTED SHEETS

## **MARCEGAGLIA** PLATES HEAVY PLATES

## **MARCEGAGLIA** SPECIALTIES

-  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

## **MARCEGAGLIA** BUILDTECH

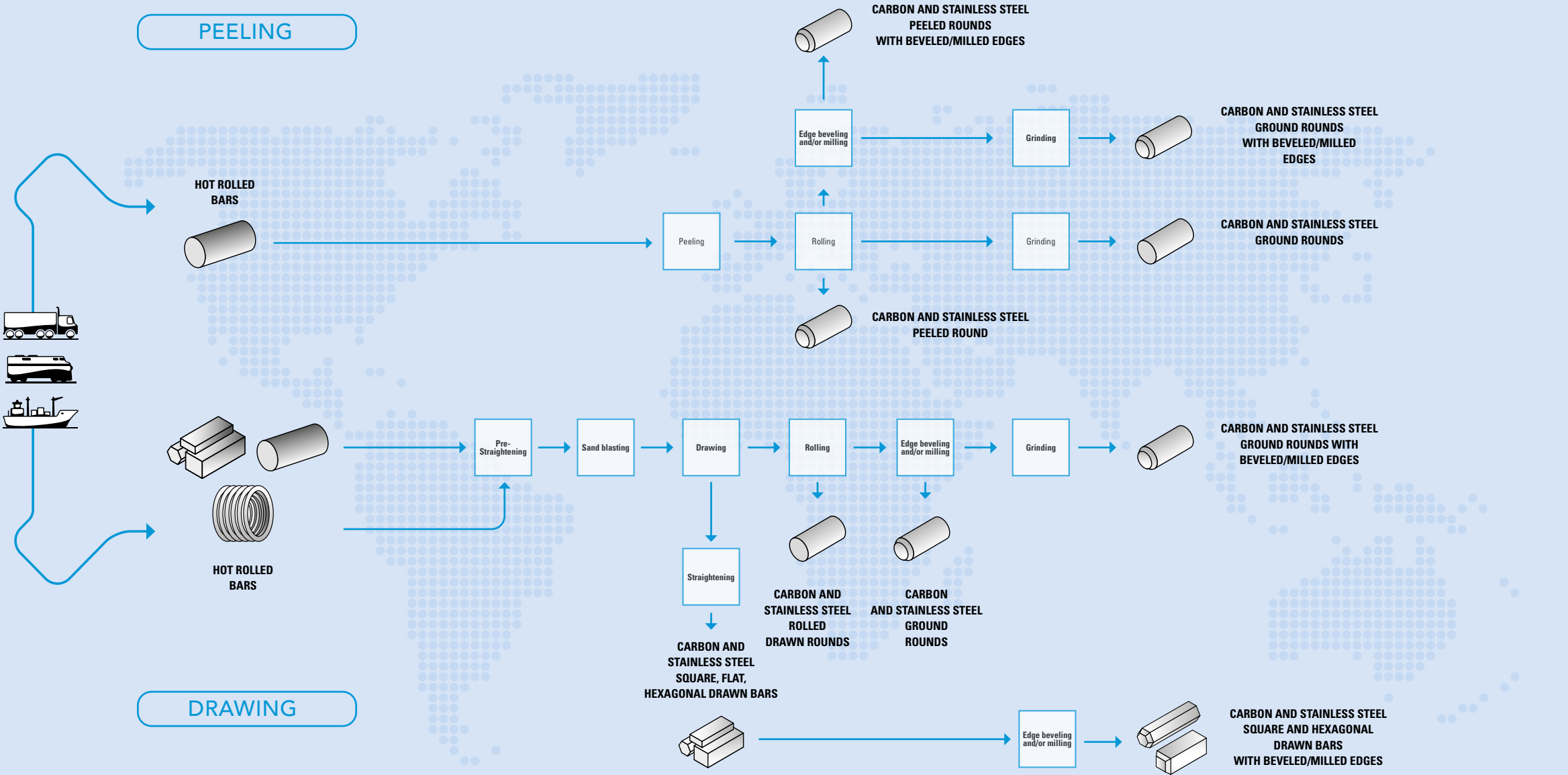
-  INSULATED PANELS
-  INSULATED PANELS FOR SECTIONAL DOORS
-  TRAPEZOIDAL CORRUGATED SHEETS
-  SM8 SYSTEM
-  SCAFFOLDING SYSTEMS
-  SAFETY BARRIERS
-  PLANK

# MARCEGAGLIA COLD DRAWN BARS DIVISION

# GLOBAL PLAYER IN PRODUCTION OF CARBON AND STAINLESS STEEL COLD-DRAWN BARS



# COLD DRAWN STEEL PRODUCTS MANUFACTURING PROCESS





# MANUFACTURING PLANTS - ITALY



**CONTINO**  
Stainless steel  
bright bars



**GAZOLDO  
DEGLI IPPOLITI**  
HEADQUARTERS  
Stainless steel flat products



**FORLÌ**  
Stainless steel welded tubes  
automotive tubes and pipes,  
process pipes for fluids,  
construction and ornamental tubes



**MARCEGAGLIA**  
SPECIALTIES

# MANUFACTURING PLANTS - WORLD



GARUVA, BRAZIL

## **Stainless steel welded tubes**

automotive tubes and pipes,  
process pipes for fluids,  
construction and ornamental tubes



VLADIMIR - RUSSIA

**Stainless steel welded tubes**  
automotive tubes and pipes,  
process pipes for fluids,  
construction and ornamental tubes

**Stainless steel flat products**



ISTANBUL - TURKEY

**Stainless steel welded tubes**  
polished tubes / decoration  
and corrosion tube sector

○ Stainless steel production  
in Marcegaglia Carbon Steel plant

# PRODUCT RANGE



## STAINLESS STEEL PRODUCTS

### FLAT PRODUCTS

HOT ROLLED COILS

COLD ROLLED COILS

HOT ROLLED SHEETS

COLD ROLLED SHEETS

HOT ROLLED STRIPS

COLD ROLLED STRIPS

### WELDED TUBES AND LONG PRODUCTS

#### WELDED TUBES

- high-frequency
- laser
- tig

#### LONG PRODUCTS

- bright bars
- flat bars
- cold formed section

## COLD-DRAWN BARS

### STAINLESS STEEL COLD-DRAWN BARS

STAINLESS STEEL  
COLD-DRAWN BARS

### CARBON STEEL COLD-DRAWN BARS

COLD-DRAWN BARS

FREE CUTTING STEEL  
COLD-DRAWN BARS





# COLD-DRAWN BARS

**150** MILLION EURO MARCEGAGLIA  
COLD-DRAWN BARS TURNOVER

**1** MANUFACTURING PLANT

**14** DRAWING BENCHES

**2** PEELING MACHINES

**10** GRIND LINES (FINISHING)

**170** EMPLOYEES

## According to EN 10277

The manufacturing plant in Contino (Mantova, Italy) is dedicated to the production of carbon and stainless steel cold-drawn and peeled bars, with a yearly capacity of more than 200 thousand tons.



# COLD-DRAWN BARS

## TESTING

INLINE ROTATING SENSOR EDDY  
CURRENT TESTING  
MAGNETO-INDUCTIVE TESTING

## OPTIONAL PROCESSING

ROLLING  
CHAMFERING  
CUT TO LENGTH



UPON  
REQUEST,  
GRADES AND  
DIMENSIONS  
VARYING FROM  
STANDARD  
CAN BE CONSIDERED.

.....  
Min. diameter (mm) 3  
.....

.....  
Max. diameter (mm) 150  
.....

# MAIN MANUFACTURING STANDARDS

EN 10277	Steels for general engineering purposes	S235JRC, S355J2C, E335GC+S, C15, C35, C40, C45, C45S, 20MnV6, 080A15 (sec. BS 970) <b>SAE1018</b>
EN 10277	Free cutting steels	11SMn30, 11SMn37, 11SMnPb30, 11SMnPb37, 36SMnPb14, 11SMnPb37TeBi, 45S20
EN 10277	Case hardening steels	C10R, C15R, 16MnCrS5
EN 10277	Steels for quenching and tempering	C35E, C35R, C45E, C45R, 42CrMoS4V bonificato (QT)
EN 10088-3	Stainless steels for general purposes	1.4305 (AISI 303) 1.4301 (AISI 304) 1.4307 (AISI 304L) 1.4404 (AISI 316L) 1.4104 (AISI 430F)



# CARBON STEEL COLD-DRAWN BARS



**Cold drawn rounds EN 10277**

**drawn - diameter mm**

**3 - 150**



**Cold drawn rounds 16MnCrS5  
acc. to EN 10277**

**drawn - diameter mm**

**10 - 100**



**Peeled rounds 42CrMoS4V  
acc. to EN 10277**

**diameter mm**

**20 - 100**



**Tondi rettificati C45  
acc. to EN 10277**

**diameter mm**

**8 - 120**



**Tondi rettificati 42CrMo54  
acc. to EN 10277**

**diameter mm**

**20 - 80**



**MARCEGAGLIA**  
SPECIALTIES



# CARBON STEEL COLD-DRAWN BARS

 Flat drawn steel s235jrc+c  
acc. to EN 10277

width mm	10 - 400
thickness mm	2 - 60

 Flat drawn steel S355J2C  
acc. to EN 10277

width mm	25 - 100
thickness mm	10 - 30

 Flat drawn steel C45+C  
acc. to EN 10277

width mm	20 - 100
thickness mm	5 - 40



# CARBON STEEL COLD-DRAWN BARS



Squared drawn steel s235jrc, c45  
acc. to EN 10277

width mm

8 - 100



Squared drawn steel s355j2c,  
acc. to EN 10277

width mm

20 - 60



Hexagonal drawn steel s235jrc,  
acc. to EN 10277

width mm

8 - 30



**MARCEGAGLIA**  
SPECIALTIES

# FREE CUTTING STEEL COLD-DRAWN BARS



**Round Free Cutting Steel**  
acc. to EN 10277

**diameter mm**

6 - 150



**Square Free Cutting Steel**  
acc. to EN 10277

**size mm**

15 - 80



**Hexagonal free cutting steel 11SMnPb30,  
11SMnPb37, 36SMnPb14 acc. to EN 10277**

**size mm**

6 - 100



**Hexagonal free cutting steel 11SMn30  
acc. to EN 10277**

**size mm**

7 - 65



**MARCEGAGLIA**  
SPECIALTIES



# STAINLESS STEEL COLD-DRAWN BARS



Bright round bars acc. to EN 10088-3

diameter mm

5 - 100



Bright round bars  
acc. to ASTM A 276 / A 479 / A 582

diameter mm

6.35 - 25.4



**MARCEGAGLIA**  
SPECIALTIES



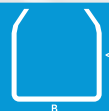
# FLAT BARS AND SPECIAL COLD FORMED SECTIONS



Flat bars  
EN 10088-2, EN 10028-7

lunghezza mm

100-200



Special cold formed sections

external dimensions mm

23x22 - 47x25



# EUMARC® STAINLESS STEEL BRIGHT BARS

CONTROLLED SUPPLY CHAIN

GUARANTEED OPTIMIZED  
CHEMISTRY

CONSISTENT MECHANICS



Marcegaglia Specialties experience and know-how in stainless steel has led to the development of EuMarc® stainless steel bright bars, a product that meets the market needs, characterized by consistent mechanics and chemistry, made of 100% European stainless steel.

.....  
Min. diameter (mm) 8  
.....

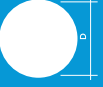
.....  
Max. diameter (mm) 60  
.....




**100%  
EUROPEAN  
STEEL**

 **MARCEGAGLIA**  
SPECIALTIES

# EUMARC® STAINLESS STEEL BRIGHT BARS

 Bright round bars acc. to EN 10088-3	
diameter mm	8 - 60

 Hexagonal cold-drawn steel acc. to EN 10088-3	
size mm	10 - 80

## Manufacturing standard

Non-destructive testing  
according to EN10088-3 (Class3)

## Product designation

Stainless steels for general purposes

## Grade

1.4305 (AISI 303), 1.4301 (AISI 304),  
1.4307 (AISI 304L), 1.4404 (AISI 316L)

## Testing

- Rotating sensor eddy current test
- Magneto-inductive test

## Optional Processing

- Grinding
- Polishing (grit 320)
- Chamfering

## Standard Chamfering Edges

edge tolerance:

$\varnothing 8 \div 10 \text{ mm} \pm 0.9 \text{ mm}$ ;  $\varnothing 10 \div 50 \text{ mm} \pm 1 \text{ mm}$ ;  
 $\varnothing 50 \div 60 \text{ mm} \pm 1.5 \text{ mm}$

## Supply conditions

Dimensional tolerances  
according to EN 10278



UPON REQUEST:  
CERTIFICATION  
ACCORDING  
TO AD 2000  
W2/W10



**MARCEGAGLIA**  
SPECIALTIES



# TYPICAL APPLICATIONS

STEEL FOR MECHANICAL  
ENGINEERING APPLICATIONS

STEEL FOR ELECTRIC MOTORS

STEEL FOR POWER TRANSMISSION  
AND DRIVES

A well-established production know-how and the use of sectorspecific steel grades make Marcegaglia's drawn steel bars the preferred choice for machine tools engineering, power transmission and drives, electric motors and other precision components for the mechanical industry.

 **MARCEGAGLIA**  
SPECIALTIES



# TYPICAL APPLICATIONS

**STEEL FOR AUTOMOTIVE APPLICATIONS**

**STEEL FOR HYDRAULIC APPLICATIONS**

**STEEL FOR HEAVY VEHICLE APPLICATIONS**

Major applications for Marcegaglia drawn steel bars also include hydraulic cylinder engineering and several subsystems within the automotive and heavy vehicle industry, among others earth moving machinery and lifting equipment.

 **MARCEGAGLIA**  
SPECIALTIES



# OUR STEEL BRINGS YOUR WORLD TO LIFE



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