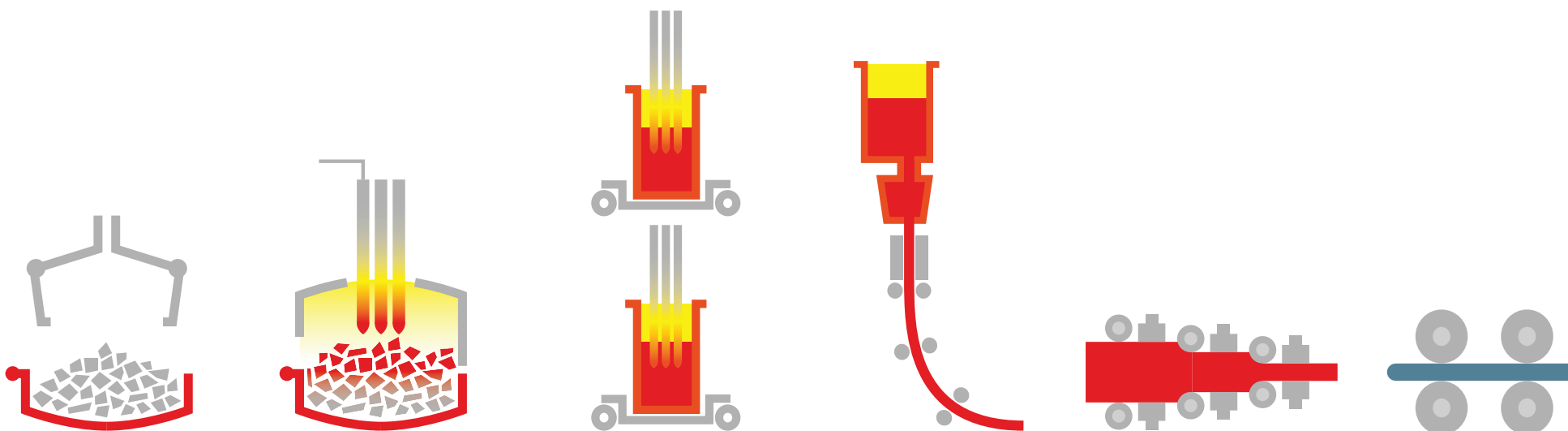


MANUFACTURING PROCESS



Scrap Charge

Melting

LF-Degassing

Casting

Hot Rolling

Cold Works



**ACCIAIERIE
VENETESPA**

SCRAP CHARGE

The incoming inspection of scrap includes radio-active testing and scrap classification:

Every heat three scrap boxes of 38 tons each are charged into the EAF.



MELTING



The Electric Arc Furnace allows to melt a metal charge with a high percentage of iron, in order to get liquid steel. The electric arc energy is transformed into heat and irradiated to the charge.

Supersonic lances inject Carbon or Oxygen into the liquid steel, carburizing and adding energy to the process.

LF-DEGASSING



- By adding the ferro-alloys, the chemical composition target is reached.
- Non-metallic inclusions modification.
- High vacuum is created inside this vessel by means of air suction.
- Steel is strongly stirred with Argon. Gases like Oxygen, Hydrogen and Nitrogen get in touch with vacuum and are removed by suction.

CASTING

In the continuous casting machines, the liquid steel solidifies and is shaped into blooms and billets.

Here technology is needed to keep under control parameters like speed, level, temperature, stirring intensity.



HOT ROLLING CC3 and CC4 casting process

Products:

Round bars 75 - 200 mm

Billets 65 - 200 mm

HOT ROLLING

Via Re-heating furnace

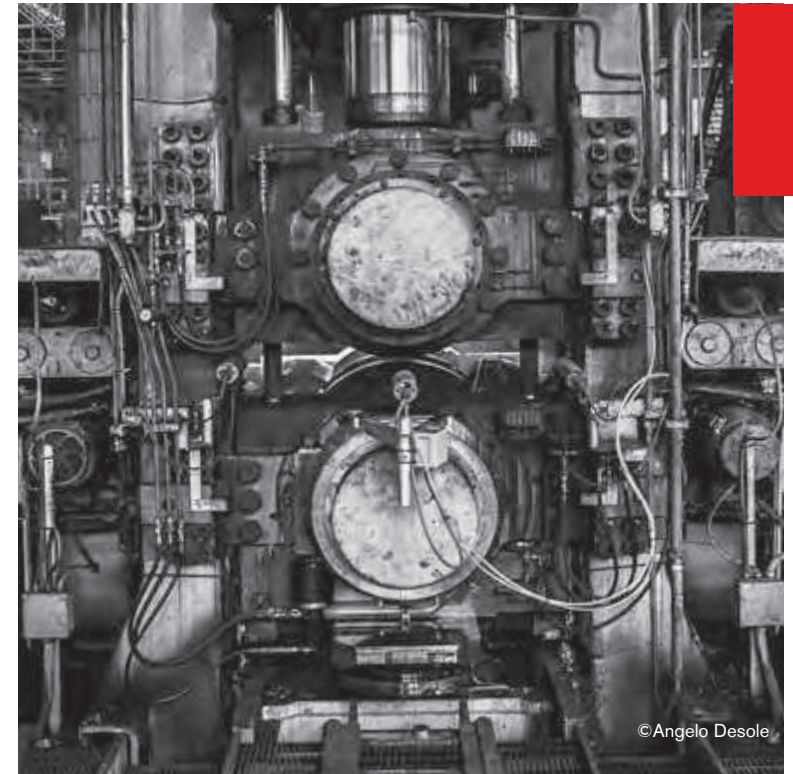
Products:

Round bars 6 - 70 mm;

Square billets 30 - 60 mm;

Hexagons 20 - 43 mm

STEP 2: new reversible blooming stand



COLD WORKS



ET & UT Inspection
Via Olanda Site - Cold Works
Inspection Lines for Round Bars

- Straightening
- ET Inspection (surface defects)
- LT Inspection (surface inspection)
- UT Inspection (sub-surface and core defects)
- Peeling

SAREZZO Site

Casting and Hot Rolling



Products:

Slabs from 220 x 160 mm to 380 x 200 mm

Bars and Coils from 13 to 43 mm

DOLCÈ Site Hot Rolling

Products:
Hot Rolling
(Bars, Bar Coils, Flats)



MURA Site Hot Rolling



Products:
Hot Rolling
(Flat and Large Flat Bars, Special Profiles for Off-Road Equipment)

CENTRO ITALIANO ACCIAI Site (Modena)



- Steel Stocks,
Customized Cut-to-length pieces



OTHER Sites

Acciaierie Venete Buja (Udine)

- Hot Rolling Mill (Flats, Ovals)

Venete Siderprodukte (Switzerland)

- Sales network

