



Hot rolled and hot rolled P&O

Coils and cut products

Hot rolled coils can be used in several application fields. **Structural, pressure equipment, gas cylinders, furniture's tubes, shipbuilding, drawing, high strength components** in **automotive** and **mechanical engineering**, are only some of the main applications which is worth remembering.

To meet the typical requirements of the uses for which they are intended, the coils are mainly made of Carbon-Manganese steel while Niobium micro alloyed steels (HSLA) are used for the most critical uses.

The strength ranges of the products mentioned above have yields ranging from 185 to 420 MPa and tensile strengths that can exceed 600 MPa.

Black coils can undergo a process of **chemical removal of the superficial iron oxide** using hydrochloric acid (pickling) and be marketed as "**pickled**" with resistance ranges like those of black coils.

Facilities

| | HR | HR P&O |
|----------------------------------|-----------|----------------|
| Production lines (nr.): | 2 | 2 |
| Production site: | Taranto | Taranto, Genoa |
| Production capability (mt/year): | 9.000.000 | 1.200.000 |

Dimensional ranges

| | Wide strips | Narrow strips | Cut sheets |
|------------------------|-------------|-------------------|--------------|
| Thickness (mm) | 1,8 - 12,0* | 1,8 - 10* | 1,8 - 12,0* |
| Width (mm) | 850 - 2040* | 15 - 599 | 600 - 2040* |
| Internal diameter (mm) | 610 or 762 | 508 or 610 or 762 | - |
| Length (mm) | - | - | 500 - 12.500 |

*P&O can be supplied up to 6,0 mm of thickness and 1800 mm of width depending on the steel grades.

Main reference quality standard

| Applications | Standard | Steel grade |
|--|--|--|
| Structural steels | EN 10025-2 | S185, S235, S275, S355 |
| Steels with atmospheric corrosion resistance | EN 10025-5 | S355J0WP |
| High yield strength steels for cold forming | EN 10149-2 | S315, S355, S420 |
| Steels for pressure purposes | DIN EN 10025-2 AD/00 MERKBLATT W1 EN 10028-2 | S235; S275 P235, P265, P295, P355GH |
| Steels for cold forming | EN 10111 | DD11; DD12; DD13; DD14; |
| Steels for cold rerolling, antifruting | Internal ADI standard | RH20; RH40; FE K0GZ |
| Steels for furniture pipes | Internal ADI standard | HTMO315; HTMO355 |
| Teardrops and Chequered steels | EN 10025 (mainly) | S185, S235, S275 |
| Shipbuilding | Main international standards (RINA, Bureau Veritas, LLOYD'S REG.) | Grado A, AH36, DH36 |
| Automotive | Main automotive standards | |

- Other standards can also be supplied (i.e., SAE J403, ASTM, API 5L, EN ISO 3183).
- Suitability for galvanizing according to request.

Supply conditions:

- Size and dimensional tolerances according to EN 10051 or other standards or agreed specification. Tight ADI tolerances are also available;
- Technical documents according to EN 10204 or ISO 10474;
- CE / UKCA marking where expected. Declaration of Performance also included.