



**INDUSTEEL** produces and sells ingots for open die forging and ring-rolling, as well as casting pieces for hydro-electric & nuclear applications.

**INDUSTEEL** offers:

- A wide range of steel grades from pure iron to high alloyed steel grades (such as stainless steels, nickel based alloys etc...).
- A wide range of ingots adapted to the customers specific requirements.

#### Traditional Ingot (round, polygonal, corrugated and square)

- From 4 to 190 tons (unit weight)
- Round Ø 500mm up to 1500mm



#### Round hollow ingot - Polygonal hollow ingot

- From 30 to 240 tons



#### Vacuum cast ingot

- From 76 to 270 tons



#### Casting

- From 60 to 250 tons
- Width 7m, depth 4.5m, length 14m
- Stainless, low alloy and carbon steel grades



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© Patented grade



**INDUSTEEL** is able to produce over **500** grades tailor-made for different markets : offshore, protection, pressure vessels...

#### OIL & GAS

F91/92  
F11/22  
F65  
F51 Duplex  
8630

#### NUCLEAR

30CrMoV4-11  
16/18/20 MnD5  
304L  
316L  
FXM11

#### NAVY

80/100HLES  
NQ1  
HY 80/100  
B64

#### WIND ENERGY

42CrMo4/Mod  
18/34CrNiMo6  
WSTE / P355NL  
14CrMoV6 -9  
31CrMoV9

*Non-exhaustive list*

#### SPECIFICITIES :

##### Low Hydrogen

Metal degassing at low pressure, and the creation of adapted slag enables us to obtain hydrogen content down to 1ppm through a vacuum pouring process.

##### Sulphur content

- Appropriate metal and slag deoxidation enables us to produce low sulphur aims under 10ppm sulphur content.
- For grades with aimed sulphur, calcium treatment is used to obtain globular inclusion in order to facilitate machining.

##### Inclusion cleanliness

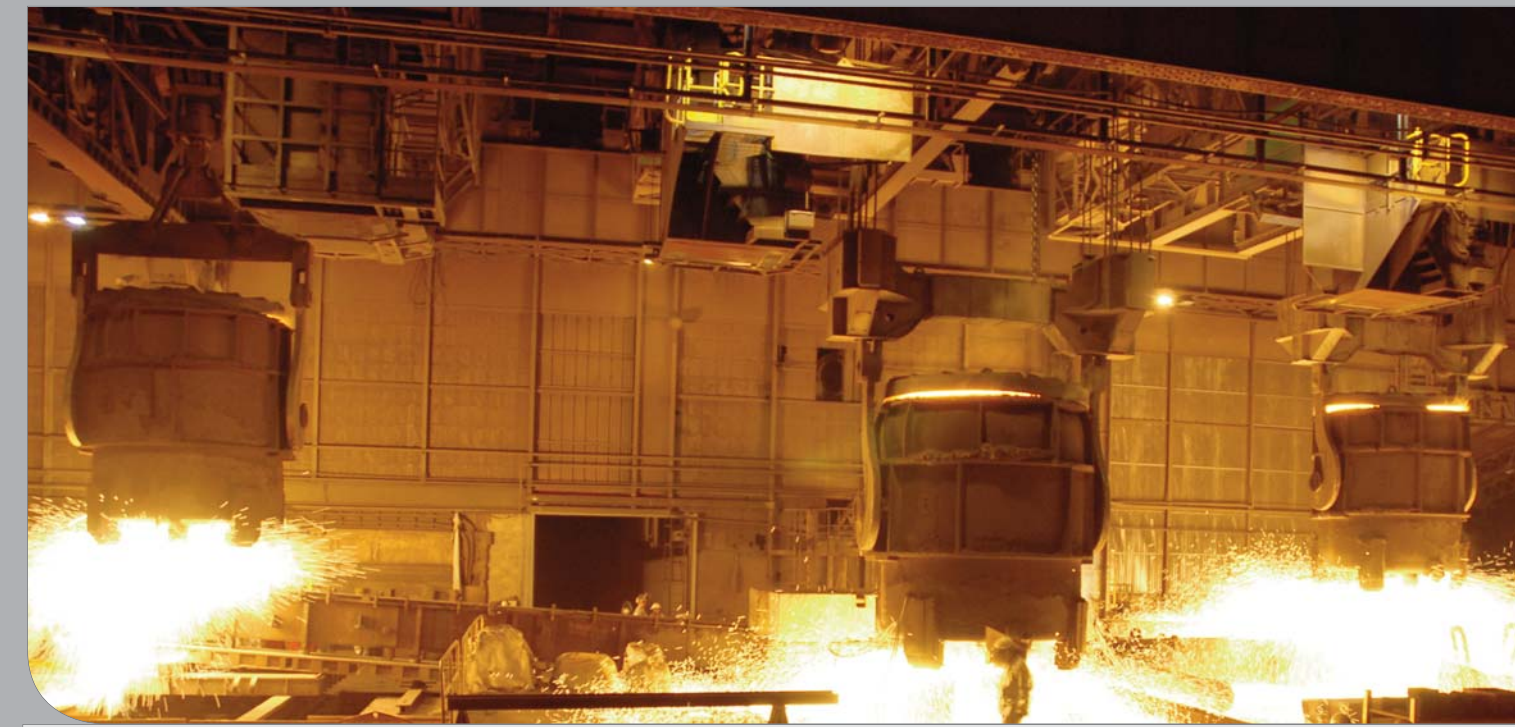
The specific steel plant facilities (furnace, LF, VD/VOD), and process control guarantee very low oxygen content and high standards in inclusion characteristics.

#### NEW EQUIPMENT

New under vacuum pouring station.  
One of the world 's most efficient equipment able to achieve vacuum < 0.1Tor.



**Backed up by a dynamic research center to assist our customers**



#### OUR EQUIPMENT

##### Electric arc furnace

- Capacity 240,000 tons/year
- Ladle capacity 70 to 100 tons

##### Secondary metallurgy

- Ladle furnace
- VD
- VOD with supersonic lance

##### Casting facilities

- Bottom pouring
- Under vacuum pouring
- Hollow ingots pouring
- Castings pouring in pits

##### Finishing facilities

- Heat treatments
- Specific furnaces to achieve your requirements
- Sawing capacities
- Grinding machine - Oxycutting

##### Laboratory

- Spectrometer
- X ray spectrometer
- Carbon / sulphur analysis
- Hydrogen / Oxygen / Nitrogen analysis





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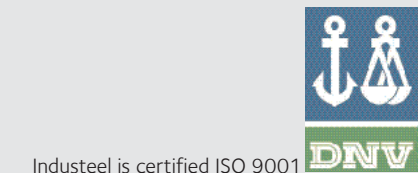
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 tomorrow**



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Ingots & Castings