



ASCOMETAL® A partner to your success

OUR PRODUCT OFFER

Product sizes

Non rolled / Semi-finished products

PRODUCTS	PLANT	FEASIBILITY	LENGTH	TOLERANCES
Continuous cast products	Dunes	180 to 325 mm CC rounds (170 mm on request)	From 6 to 12.5 m	± 0.5 % to ± 1.5 % of diameter depending on diameter
	Hagondange	240 ² CC blooms		
Ingots	Fos-sur-Mer	To 7.5 t		

Hot rolled products

PRODUCTS	PLANT	FEASIBILITY	LENGTH	TOLERANCES
Rolled blooms and billets	Fos-sur-Mer	80 to 400 mm	From 3 to 12 m	± 1 % to ± 3 % of diameter
Rectangular rolled bloom	Fos-sur-Mer	70 to 600 mm	From 3 to 12 m depending on diameter	
Bars	Dunes	80 to 300 mm	From 4 to 12 m (> 12 m on request)	± 0.3 % to ± 1 % of diameter depending on diameter
	Hagondange	16 to 100 mm	From 3 to 12 m	
	Fos-sur-Mer	80 to 325 mm	From 3 to 12 m	
Wire rod	Fos-sur-Mer	5 to 32 mm		+0.20 /-0.20 mm or ± 1 %

Cold finished products

PRODUCTS	PLANT	FEASIBILITY	LENGTH	TOLERANCES
Peeled bars	Dunes	76 to 300 mm	From 4 to 13 m	Classes 10
	Hagondange	20 to 80 mm	From 2 to 9 m	Classes 11 to 9
	Le Marais	20 to 78 mm	From 3.5 to 7.5 m	Classes 9
	Custines	15 to 85 mm		Classes 10 to 9
Ground bars	Custines	10 to 100 mm		Classes 8 to 7
Cold drawn wire rod	Fos-sur-Mer	1 to 22 mm		
Semi-finished parts	Le Marais			<ul style="list-style-type: none"> • Sawn parts: Ø 18 – 140 mm • Sawn and beveled parts: Ø 15 – 80 mm • Drilled parts: Ø 5 – 20 mm • Machined parts: Ø 8 – 40 mm • Ground cut-to-length bars: Ø 18 – 30 mm (and over on request) • Centerless ground cut-to-length bars: Ø 20 – 50 mm • Machined cut-to-length bars: Ø 10 – 40 mm
	Custines			

Standard grades

Ascometal® offers a **full range of carbon and alloy steels** compliant with the national and international standards requirements. In addition to these conventional grades, **which can be tailored to better suit individual customer specifications**, **Ascometal®** offers also a wide range of specialty products, fulfilling the most severe requirements of each market and stemming from its R&D work.

Specialties

Metasco®: steels suitable for hot forging treatment (bainitic and AFP steels).

- **Metasco® HC**: ferrito-pearlitic; Re > 750 MPa; Rm > 1000 MPa;
- **Metasco® 30, 38 et 44**: ferrito-pearlitic up to Rm = 1000 MPa;
- **Metasco® BA**: bainitic; Rm < 1000 MPa;
- **Metasco® MC, MC2, 1200**: bainitic up to Rm = 1200 MPa;
- **Metasco® VBI**: bainitic for induction heat treatment up to Rm = 1150 MPa.

Ascowell®: steels for oil and gas drilling and well completion.

- **Ascowell® C**: for sour service conditions;
- **Ascowell® TJC**: for forged corrosion resistant tool joints.

Endurasco®: high-endurance bearing steels.

Jomasco®: case-hardening steels with optimized Jominy and enhanced quenchability, low nickel alloyed.

To manufacture transmission parts

- **Jomasco® 23** (20 – 23MnCrMo5): steel with optimized Jominy quenching and for technical gains in case-hardening;
- **Jomasco® 23 Mod** (23MnCrMo5 mod.): adapted to replace Ni grades, improved Jominy quenching and case-hardening, compatible with low pressure case-hardening/gas quenching.

To manufacture cones and drilling parts

- **Jomasco® DB**: no Ni, improved Jominy quenching and case-hardening.

Ascoroc®: steels for the mining industry.

Nitrasco®: nitriding steels.

Ascoflex®: steels for helicoidal suspension springs.

Vitac®, Supervitac®: steels with improved machinability and proven levels of performance.

Splitasco®: steels for splittable connecting rods.

- **Splitasco® 70**: C70S6 grade with improved machinability;
- **Splitasco® 50**: grade with higher machinability performance;

- **Splitasco® 38**: high fatigue resistance;
- **Splitasco® HC**: very high mechanical properties: Re > 750 MPa et Rm 1000 – 1150 MPa.

Standard grades

- Alloy and carbon steels;
- Through and surface hardening steels;
- Case-hardening steels;
- Induction hardening steels;
- Spring steels;
- Bearing steels;
- Nitriding steels.

Finishing and control

Ascometal® ensures a wide range of finishing operations, including:

Heat treatments

Several quenching facilities (water, polymer, oil) and furnaces intended to **several treatments**: annealing, stress relieving, spheroidizing, isothermal, normalizing, pearlitic.

Cold finishing operations

- Straightening;
- Peeling;
- Shearing ;
- Cutting to length;
- End finishing, beveling, end machining, drilling, boring.

Inspection and Control

As soon as a grade of steel is produced, it undergoes numerous checks and inspections to guarantee its conformity with specifications (cleanliness, machinability, geometry, ...).

Ascometal® ensures a wide range of inspection operations, including:

- Internal soundness (ultrasonic inspection at 100% of volume);
- Internal cleanliness inspections (ultrasonic inspection in tank, wide field image analysis, ...);
- Surface quality inspections (eddy currents, magnetic dispersion leakage flux, magnetic particle inspection, ...);
- Conventional laboratory tests (analysis, mechanical tests, metallographic examinations);
- Dimensional and anti-mix inspections.