

Our product offer

Product sizes

Products	Plant	Feasibility	Length	Tolerances
Non rolled / Semi-finished products				
Continuous cast products	Hagondange	240 ² CC Blooms		
Ingots	Fos-sur-Mer	5.3t - 6.2t - 7.5t - 10.4t: Square ingot 3.3t: Round ingot		
Hot rolled products				
Rolled blooms and billets	Fos-sur-Mer	80 to 400mm	From 3 to 12m	± 1% to ± 3% of diameter
Rectangular rolled blooms	Fos-sur-Mer	70 to 600mm	From 3 to 12m depending on diameter	
Bars	Dunes	80 to 300mm	From 4 to 12m (> 12m on request)	± 0.3% to ± 1% of diameter depending on diameter
	Hagondange	16 to 100mm	From 3 to 12m	
	Fos-sur-Mer	80 to 325mm	From 3 to 12m	-
Wire rod	Fos-sur-Mer	5 to 32mm		+0.20 / -0.20mm or ± 1%
Cold finished products				
Peeled bars	Dunes	76 to 300mm	From 4 to 12.5m	Classe 10
	Le Marais	20 to 78mm	From 3.5 to 7.5m	Classe 9
	Custines	15 to 85mm		Classes 10 to 9
Ground bars	Custines	10 to 80mm		Classes 8 to 7
Cold drawn wire rod	Fos-sur-Mer	1 to 22mm		
Semi-finished parts	Le Marais		 Sawing: Ø 10 - 150mm Sawing, chanfering: Ø 10-105mm Grinding (Bars): Ø 10 - 80mm Centerless grinding (Slug): Ø 20 - 50mm Drilling (Slug): Hole Ø 6-20mm; Slug Ø 20-35mm Machining (Slug): Ø 10-46mm 	
	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.

Grades	Specialties		
METASCO®	steels suitable for hot forging treatment (bainitic and AFP steels)		
METASCO® 38 and 44	ferrito-pearlitic up to Rm = 1,000 MPa		
METASCO® BA	bainitic; Rm < 1,000 MPa		
METASCO® BAE75	bainitic steel with Re > 750 MPa, Rm ≤ 1,000 Mpa for induction heat treatment		
METASCO® MC, MC2, 1200	bainitic up to Rm = 1,200 MPa		
METASCO® HCi	bainitic steel for induction heat treatment and mechanical strengthening up to $\mbox{Rm} = 1,150 \mbox{ MPa}$		
ASCOWELL®	steels for oil and gas drilling and well completion		
ASCOWELL® C	extended life in corrosive environments		
ASCOWELL® TJC	for Forged Tool Joints resisting to corrosion		
ASCOWELL® HS	high yield strength with excellent resilience and fatigue resistance		
ASCOWELL® HT	high resilience at low temperature with Re > 1,000 MPa		
	WIGHT 10 > 1,000 WII a		
ENDURASCO®	high-endurance bearing steels		
ENDURASCO® JOMASCO®			
	high-endurance bearing steels case-hardening steels with optimized Jominy and enhanced quenchability, low nickel alloyed		
JOMASCO®	high-endurance bearing steels case-hardening steels with optimized Jominy and enhanced quenchability, low nickel alloyed		
JOMASCO® To manufacture trans JOMASCO® 23	high-endurance bearing steels case-hardening steels with optimized Jominy and enhanced quenchability, low nickel alloyed smission parts steel with optimized Jominy quenching		
JOMASCO® To manufacture trans JOMASCO® 23 (20 – 23MnCrMo5) JOMASCO® 23 Mod	high-endurance bearing steels case-hardening steels with optimized Jominy and enhanced quenchability, low nickel alloyed smission parts steel with optimized Jominy quenching and for technical gains in case-hardening adapted to replace Ni grades, improved Jominy quenching and case-hardening, compatible with low pressure case- hardening/gas quenching		
JOMASCO® To manufacture trans JOMASCO® 23 (20 – 23MnCrMo5) JOMASCO® 23 Mod (23MnCrMo5 mod.)	high-endurance bearing steels case-hardening steels with optimized Jominy and enhanced quenchability, low nickel alloyed smission parts steel with optimized Jominy quenching and for technical gains in case-hardening adapted to replace Ni grades, improved Jominy quenching and case-hardening, compatible with low pressure case- hardening/gas quenching		
JOMASCO® To manufacture trans JOMASCO® 23 (20 – 23MnCrMo5) JOMASCO® 23 Mod (23MnCrMo5 mod.) To manufacture cone	high-endurance bearing steels case-hardening steels with optimized Jominy and enhanced quenchability, low nickel alloyed smission parts steel with optimized Jominy quenching and for technical gains in case-hardening adapted to replace Ni grades, improved Jominy quenching and case-hardening, compatible with low pressure case- hardening/gas quenching es and drilling parts low Ni, improved Jominy quenching		

Grades	Specialties	
ASCOFLEX® 20.6	Cost saving, adaptable case- hardening grade with properties equivalent to molybdenum grades	
VITAC® et SUPERVITAC®	steels with improved machinability and proven levels of performance	
SPLITASCO®	steels for splitable connecting rods	
SPLITASCO® 38	high fatigue resistance	
SPLITASCO® 70	C70S6 grade with improved machinability	
SPLITASCO® HC	very high mechanical properties: Re > 750 MPa et Rm 1,000 – 1,150 MPa	
SPLITASCO® XS	bainitic steel for splittable connecting rods meeting very high mechanical properties: Re > 950 MPa and Rm > 1100 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, induction) and furnaces enabling to perform several heat 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.

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