

**Comprehensive  
range of stainless  
steel solutions**



**Swiss  
Steel**  
International

Swiss Steel is a leading global producer of special long steel with operations around the world. The independent Group has an integrated business model built around the Divisions Production and Sales & Services which allows Swiss Steel to leverage strategic and operational synergies in the interest of its customers.

**Production – specialized steelmaking, forging and rolling plants in Europe and North America; drawing mills, bright steel production and heat treatment in northern and western Europe, Turkey and China (Joint Venture with Tsingshan).**

Our Production Division encompasses the business units Ascometal, Deutsche Edelstahlwerke, Finkl Steel, Steeltec and Ugitech, operating a total of nine state-of-the-art steelmaking EAFs in Canada, France, Germany, Switzerland and the USA. The steel plants complement each other in terms of formats and qualities, covering the entire spectrum for special long steel. Besides the three main product groups – tool steel, engineering steel and stainless steel – the range includes special steel products. Characteristics such as close dimensional tolerance, strength and surface quality are precisely matched to our customer's brief.

#### **Our “Green Journey”**

We are embarking into a Green Steel + Green Services program. CO<sub>2</sub> Neutrality is our ultimate goal. We propose already on the market some green steel products and develop green services initiatives.

**Swiss Steel International, the Group Sales & Services network, a reliable global partner in steel consulting, processing and supply.**

We combine our sales activities within our Sales & Services Division, and guarantee the consistent and reliable supply and end-to-end customer solutions worldwide with around 70 distribution and services branches in more than 30 countries. These include technical consulting and downstream processes such as sawing, milling and hardening, heat treatment as well as supply chain management, up to just in time deliveries. We pursue the goal of offering our customers global access to our products and services – with excellent quality standards and first-class services.

Such a service approach based on our state-of-the-art product range leads to long lasting relations with our customers who value us as partner in their development. We count more than 300 stainless steel grades in our offering.

Don't hesitate to contact us for any special need you require in your next project and your innovation process.



**Our range of local services includes**

- Technical support / trainings
- Local supply chain services
- Just in time deliveries
- Cutting
- Drawing
- Chamfering

# Our star products dedicated to the most stringent markets

## Automotive

- UGIMA® and NIRO-CUT® improved machinability grades.
- EXHAUST® F1, EXHAUST® Bi Stab, ferritic welding wire for exhaust lines.
- MAGNADUR®, ACIDUR®, CORRODUR® and ELECTRODUR® 4105 range of stainless steel.
- UGIPERM®, MRE® with optimized magnetic properties.
- UGIPURE® for high-performance spring bars.
- UGIWELD® for optimized results in welding.

## Aerospace

- AERODUR®, UGIPURE®, UGI® AIR for the requested cleanliness in stainless steel.

## Medical

- ACIDUR® 4441, UGIPURE® 4441, for implantable medical devices.
- CORRODUR® 4021, UGI® 4197, UGI® 4542 martensitic and austenitic steels for ancillary products and surgical instruments.

## Mining

- UGICHROM® hard chromium plated bars for hydraulic systems.

## Electronics

- Ultra fine wires from Sprint Metal.

## Architecture Building and Construction

- ACIDUR® 4362, UGIGRIP® stainless steel rebars.
- UGISHAPE® for architectural applications.

## Mechanical Engineering

- UGICHROM® hard chromium plated bars for piston rod applications.
- UGIMA®, NIRO-CUT® for improved machinability.
- UGIPLEX® for a full range of duplex grades.



### Oil & Gas

- **ACIDUR®** and **UGI®** range of hard and acide resistant steel (4418, 4542, 4462, 4501, 4410).
- **CORRODUR® 4006, 4021** corrosion resistant steel.
- **MAGNADUR® 501, 601** non-magnetic steel for multidirectional drilling.
- **UGISHAPE®** simple to highly complex shaped wires for filtration applications.
- **UGIALLOY®** nickel alloy welding wires.

### Food industry

- **ACIDUR® 4404, ACIDUR® 4462, ACIDUR® 4521** for water management.
- **ACIDUR® 4460, ACIDUR® 4462** for fishing industry.

### Marine

- **Long bars** for propeller shafts.
- **PYRODUR® 4718** for marine valves.

*Our steels satisfy the highest technical requirements such as extreme resistance to corrosion, mechanical load, high strength, strain values and very high thermal resistance.*



# Our stainless, acid and heat-resistant steel grades

From 1 meter diameter forged bars to ultra fine wires of 13 microns, we offer more than 300 grades dedicated to the most specific applications. We are covering all the stainless steel families: austenitic, ferritic, martensitic and duplex grades including high machinability versions (UGIMA® and NIRO-CUT®), heat-resistant steel, creep-resistant steel, non-magnetic and magnetic steel.

Thanks to our state-of-the-art Research and Development centers, we can also work in collaboration with our customers to develop new products for special steel needs.

Material no.	EN Symbolic designation	AISI, ASTM
<b>MARTENSITIC STAINLESS STEEL</b>		
1.4313	X3CrNiMo13-4	F6NM
1.4003	X2CrNi12	
1.4006	X12Cr13	410
1.4005	X12CrS13	416
1.4021	X20Cr13	420
1.4024	X15Cr13	410
1.4028	X30Cr13	420
1.4029	X29CrS13	420F
1.4031	X39Cr13	420C
1.4034	X46Cr13	420
1.4035	X46CrS13	420F
1.4037	X65Cr13	
1.4120	X20CrMo13	
1.4057	X17CrNi16-2	431

Material no.	EN Symbolic designation	AISI, ASTM
<b>MARTENSITIC STAINLESS STEEL</b>		
1.4044	X15CrNi17-3	
1.4418	X4CrNiMo16-5-1	
1.4117	X38CrMoV15	
1.4197	X22CrNiMoS13-1*	
1.4116	X50CrMoV15	
1.4122	X39CrMo17-1	
1.4125	X105CrMo17	440C
1.4903	X10CrMoVNb9-1	F9
1.4718	X45CrSi9-3	
1.4731	X40CrSiMo10-2*	
1.4913	X19CrMoNbVN11-1	
1.4922	X20CrMoV11-1	
1.4923	X22CrMoV12-1	

Material no.	EN Symbolic designation	AISI, ASTM
<b>CHROMIUM FERRITIC STAINLESS STEEL</b>		
1.4016	X6Cr17	430
1.4511	X3CrNb17	
1.4512	X2CrTi12	409
1.4601	X6CrNb12*	409Cb
1.4509	X2CrTiNb18	441
1.4521	X2CrMoTi18-2	443 / 444
1.4105	X6CrMoS17	430F
1.4104	X14CrMoS17	430F
1.4113	X6CrMo17-1	434
	X12CrS13+Si*	416Si
1.4105	X6CrMoS17	430FR
1.4106*	X2CrMoSiS18-2-1*	
1.4114*	X6CrMoS19-2*	434F

Material no.	EN Symbolic designation	AISI, ASTM
<b>STRUCTURALLY HARDENED STAINLESS STEEL</b>		
1.4542	X5CrNiCuNb16-4	630
1.4545	X5CrNiCu15-5*	
1.4548	X5CrNiCu17-4*	630
1.4568	X7CrNiAl17-7	631
1.4980	X6NiCrTiMoVB25-15-2	660
<b>AUSTENITIC-FERRITIC / DUPLEX STAINLESS STEEL</b>		
1.4062	X2CrNiN22-2	
1.4362	X2CrNiN23-4	
1.4410	X2CrNiMoN25-7-4	F53
1.4460	X3CrNiMoN27-5-2	329
1.4462	X2CrNiMoN22-5-3	F51
1.4501	X2CrNiMoCuWN25-7-4	F55
1.4507	X2CrNiMoCuN25-6-3	F59

\*Grades not defined in EN 10088.

We have more than 100 grades in our offering, feel free to contact your local expert for any special requirement.

# Our stainless, acid and heat-resistant steel grades

























Material no.	EN Symbolic designation	AISI, ASTM	Material no.	EN Symbolic designation	AISI, ASTM
<b>AUSTENITIC STAINLESS STEEL</b>			<b>CHROMIUM-NICKEL-MOLYBDENE AUSTENITIC + STAINLESS STEEL</b>		
1.4301	X5CrNi18-10	304	1.4401	X5CrNiMo17-12-2	316
1.4307	X2CrNi18-9	304L	1.4404	X2CrNiMo17-12-2	316L
1.4306	X2CrNi19-11	304L	1.4406	X2CrNiMo17-11-2	316LN
1.4311	X2CrNiN18-10	304LN	1.4429	X2CrNiMo17-13-3	316LN
1.4310	X10CrNi18-8	301	1.4436	X3CrNiMo17-13-3	316
1.4305	X8CrNiS18-9	303	1.4439	X2CrNiMoN17-13-5	
1.4303	X4CrNi18-12	305	1.4435	X2CrNiMo18-14-3	316L
1.4570	X6CrNiCuS18-9-2		1.4578	X3CrNiCuMo17-11-3-2	
1.4567	X3CrNiCu18-9-4		1.4598	X2CrNiMoCuS17-10-2	
1.4541	X6CrNiTi18-10	321	1.4571	X6CrNiMoTi17-12-2	316Ti
1.4550	X6CrNiNb18-10	347	1.3952	X2CrNiMoN18-14-3*	
<b>REFRACTORY AUSTENITIC STAINLESS STEEL</b>			1.3964	X2CrNiMnMoNNb21-16-5-3	
1.4828	X15CrNiSi20-12	309Si	1.4539	X1NiCrMoCu25-20-5	904L
1.4841	X15CrNiSi25-21	310 / 314	1.4529	X1NiCrMoCuN25-20-7	926
1.4845	X8CrNi25-21	310S	1.4466	X2CrNiMoN25-22-2	
<b>REFRACTORY FERRITIC STAINLESS STEEL</b>			1.4909	X2CrNiMoN17-12-2*	316L
1.4713	X10CrAlSi7		1.4910	X3CrNiMoBN17-13-3	
1.4724	X10CrAlSi13	405	1.4441	X2CrNiMo18-15-3	316LMV
1.4742	X10CrAlSi18	430			
1.4763	X8Cr24*	446			

\*Grades not defined in EN 10088.

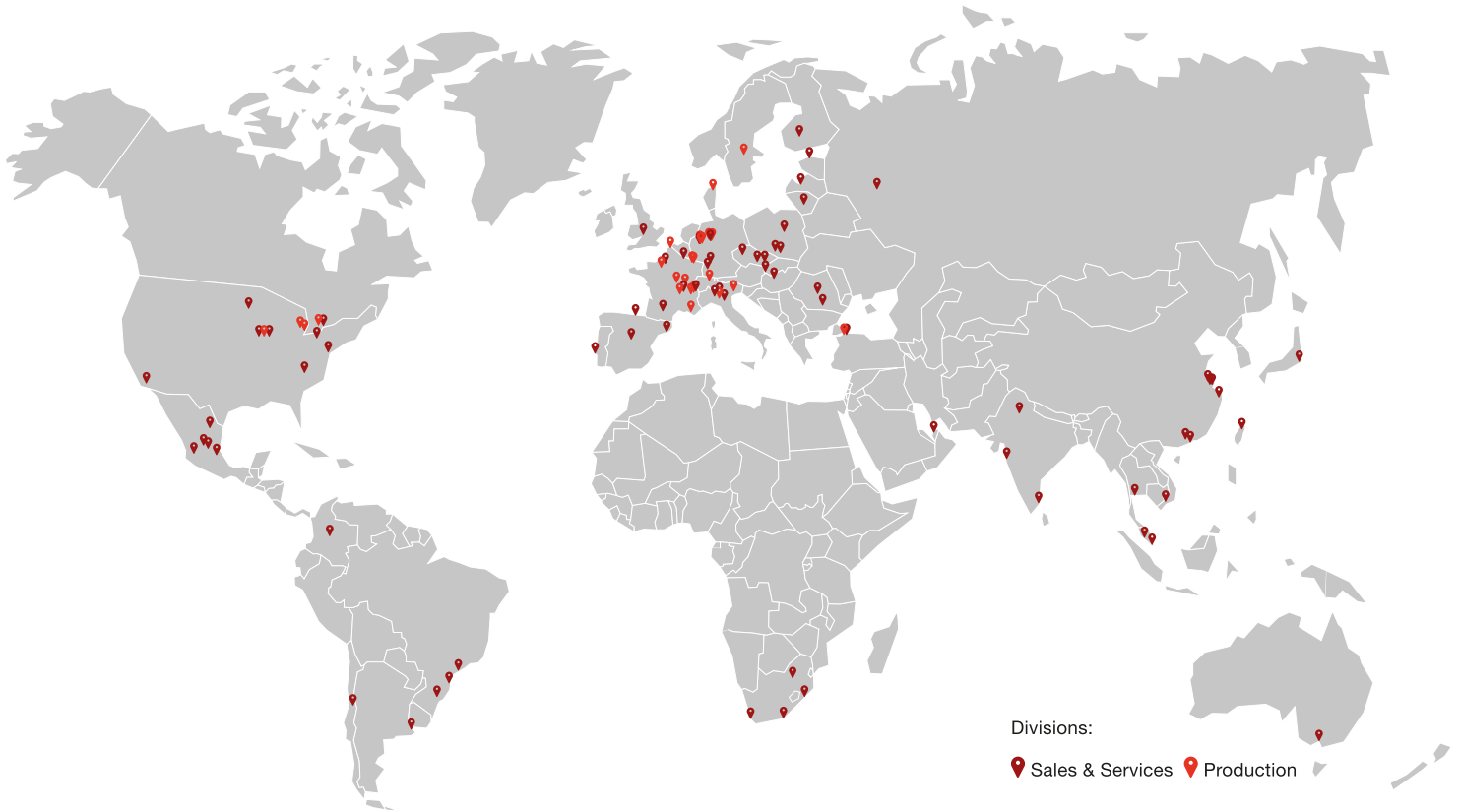
We have more than 100 grades in our offering, feel free to contact your local expert for any special requirement.



# We provide a range of effective solutions in all dimensions

Ingots, Continuous casting, Semi-finished products	Hot rolled bars	Wire rod/ Drawn wire	Bright steel	Forged products	Special products
<b>Ingots:</b> 1 - 58 t   50 - 160 mm   22 - 58 mm	 7 - 250 mm   50 - 160 mm   22 - 58 mm	<b>Wire rod:</b>  5 - 32 mm (5 - 13 mm rising in 0,5 mm increments/ 13 - 32 mm rising in 1 mm increments)	 0,8 - 130 mm   2 - 55 mm   3 - 55 mm   2 - 18 mm	  <b>Open-die forgings,</b> rotationally symmetrical forgings forged to shape on request up to 50 t single-piece weight	 <b>Drill collars,</b> diameter up to 280 mm (round), length up to 10 mm
<b>Continuous casting:</b>  138 mm 150 mm 205 mm 265 mm   475 x 340 mm	 <b>Width:</b> 80 - 510 mm  <b>Thickness:</b> 24 - 160 mm  <b>Width/thickness ratio:</b> 10:1 max	 12,4 - 28 mm rising in 1 mm increments  <b>Drawn wire:</b>  0,013 - 22 mm Coils, spools, baskets, reels	 2 x 1 100 x 40 mm  Bright steel in bars of 2 to 130 mm  Bright steel in coils of 0,8 to 22 mm	 65 - 1100 mm   50 - 750 mm	 <b>Pre-machined,</b> rotationally symmetrical forgings, forged to shape
<b>Semi-finished products:</b>  50 - 320 mm, rising in 1 mm increments		<b>Profiles:</b> 1 - 60 mm <sup>2</sup> Coils, reels, straightened products		 <b>Single-piece</b> weight up to 23 t	

# Your local contact worldwide



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**> 30** Countries

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