



SCHMOLZ + BICKENBACH

Comprehensive range of stainless steel solutions



SCHMOLZ + BICKENBACH GROUP

SCHMOLZ + BICKENBACH
International





SCHMOLZ + BICKENBACH 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 SCHMOLZ + BICKENBACH 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 and Turkey.

Our Production Division encompasses the business units Ascometal, Deutsche Edelstahlwerke, Finkl Steel, Steeltec, Swiss Steel 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.

Sales & Services – 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 service branches in more than 30 countries. These include technical consulting and downstream processes as sawing, milling and hardening, heat treatment as well as supply chain management. We pursue the goal of offering our customers global access to our products and services – with excellent quality standards and first-class service.

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 around 100 grades in tool steel 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:

- › Local supply chain services
- › Just in time deliveries
- › Cutting
- › Chamfering
- › Technical support



Our star products dedicated to the most stringent markets

Aerospace:

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

Automotive:

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

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 acid resistant steel (4418, 4542, 4442, 4501, 4410)
- » CORRODUR® 4006, 4021 corrosion resistant steel
- » MAGNADUR® 501, 601 nonmagnetic 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 the 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
MARTENSITIC STAINLESS STEEL		
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
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	

*Grades not defined in EN 10088

Material no.	EN Symbolic designation	AISI, ASTM
CHROMIUM FERRITIC STAINLESS STEEL		
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*	X2CrMoSi18-2-1*	
1.4114*	X6CrMoS19-2*	434F
STRUCTURALLY HARDENED STAINLESS STEEL		
1.4313	X3CrNiMo13-4	F6NM
1.4542	X5CrNiCuNb16-4	630
1.4545	X5CrNiCu15-5*	
1.4548	X5CrNiCu17-4*	630
1.4980	X6NiCrTiMoVB25-15-2	660
AUSTENITIC-FERRITIC / DUPLEX STAINLESS STEEL		
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
1.4410	X2CrNiMoN25-7-4	F53

Material no.	EN Symbolic designation	AISI, ASTM
AUSTENITIC STAINLESS STEEL		
1.4301	X5CrNi18-10	304
1.4307	X2CrNi18-9	304L
1.4306	X2CrNi19-11	304L
1.4311	X2CrNiN18-10	304LN
1.4310	X10CrNi18-8	301
1.4305	X8CrNiS18-9	303
1.4303	X4CrNi18-12	305
1.4570	X6CrNiCuS18-9-2	
1.4567	X3CrNiCu18-9-4	
1.4541	X6CrNiTi18-10	321
1.4550	X6CrNiNb18-10	347

REFRACTORY AUSTENITIC STAINLESS STEEL		
1.4828	X15CrNiSi20-12	309Si
1.4841	X15CrNiSi25-21	310 / 314
1.4845	X8CrNi25-21	310S

REFRACTORY FERRITIC STAINLESS STEEL		
1.4713	X10CrAlSi7	
1.4724	X10CrAlSi13	405
1.4742	X10CrAlSi18	430
1.4763	X8Cr24*	446

Material no.	EN Symbolic designation	AISI, ASTM
CHROMIUM-NICKEL-MOLYBDENE AUSTENITIC STAINLESS STEEL		
1.4401	X5CrNiMo17-12-2	316
1.4404	X2CrNiMo17-12-2	316L
1.4406	X2CrNiMo17-11-2	316LN
1.4429	X2CrNiMo17-13-3	316LN
1.4436	X3CrNiMo17-13-3	316
1.4439	X2CrNiMoN17-13-5	
1.4435	X2CrNiMo18-14-3	316L
1.4578	X3CrNiCuMo17-11-3-2	
1.4598	X2CrNiMoCuS17-10-2	
1.4571	X6CrNiMoTi17-12-2	316Ti
1.3952	X2CrNiMoN18-14-3*	
1.3964	X2CrNiMnMoNNb21-16-5-3	
1.4539	X1NiCrMoCu25-20-5	904L
1.4529	X1NiCrMoCuN25-20-7	
1.4466	X2CrNiMoN25-22-2	
1.4909	X2CrNiMoN17-12-2*	316L
1.4910	X3CrNiMoBN17-13-3	
1.4441	X2CrNiMo18-15-3	316LMV

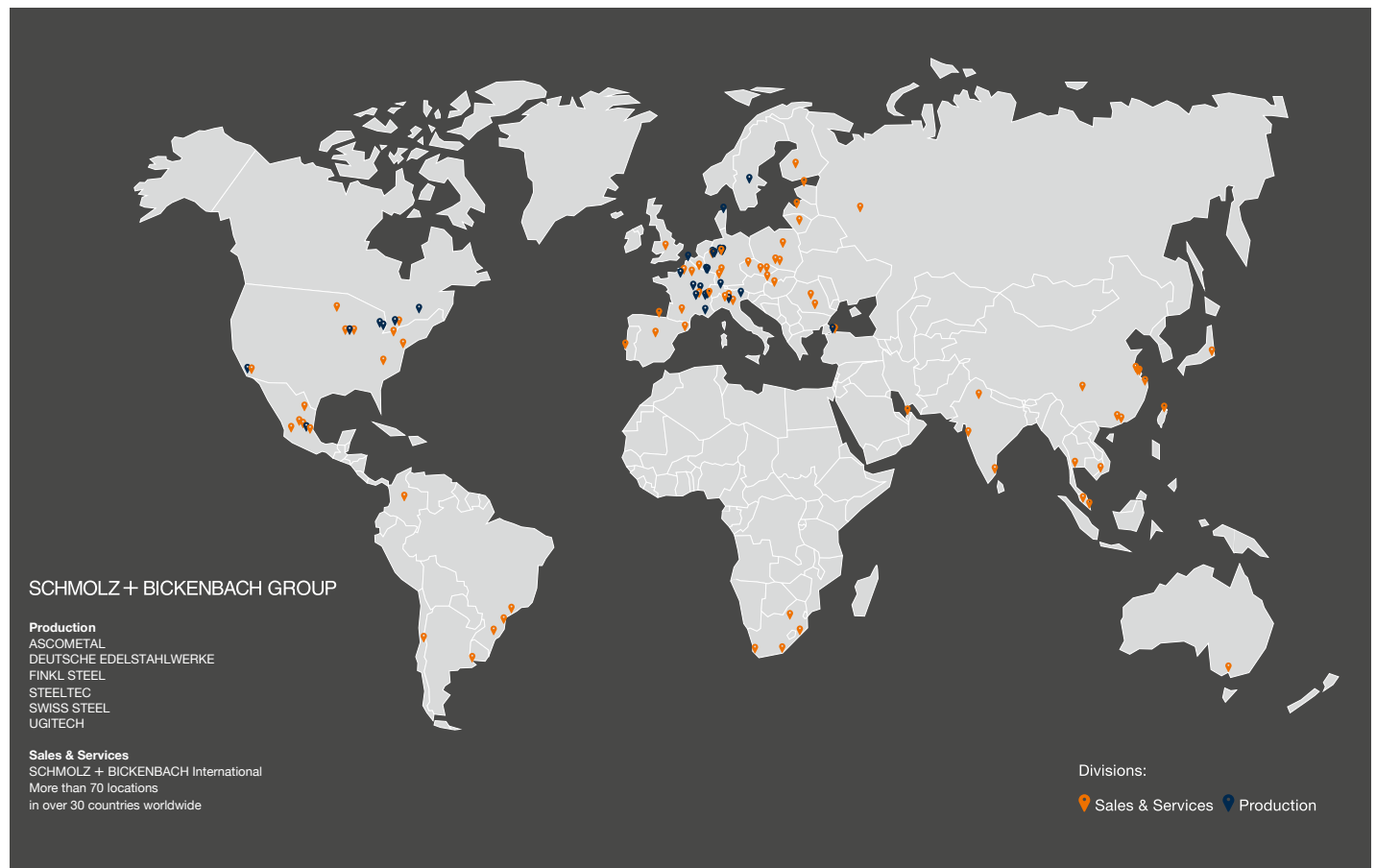
*Grades not defined in EN 10088

We have more than 300 grades in our offering, feel free to contact your local experts for any special requirements.

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
<p>Ingots 1 - 58 t</p> <p>Continuous casting 138 mm 150 mm 205 mm 265 mm</p> <p>475 x 340 mm</p> <p>Semi-finished products 50 - 320 mm, rising in 1 mm increments</p>	<p>7 - 250 mm</p> <p>50 - 160 mm</p> <p>3 - 60 mm</p> <p>Width: 80 - 510 mm Thickness: 24 - 160 mm Width/thickness ratio: 10:1 max</p>	<p>Wire rod 5 - 32 mm (5 - 13 mm rising in 0,5 mm increments/ 13 - 32 mm rising in 1 mm increments)</p> <p>12,4 - 28 mm rising in 1 mm increments</p> <p>Drawn wire 0,013 - 22 mm Coils, spools, baskets, reels</p> <p>Profiles 1 - 60 mm² Coils, reels, straightened products</p>	<p>0,8 - 130 mm</p> <p>2 - 55 mm</p> <p>2 - 60 mm</p> <p>2 - 18 mm</p> <p>2 x 1 - 100 x 40 mm</p> <p>Bright steel in bars of 2 to 130 mm Bright steel in coils of 0.8 to 22 mm</p>	<p>Open-die forgings, rotationally symmetrical forgings forged to shape on request up to 50 t single-piece weight</p> <p>65 - 1100 mm</p> <p>50 - 750 mm</p> <p>Single-piece weight up to 23 t</p>	<p>Drill collars, diameter up to 280 mm (round), length up to 10 mm</p> <p>Pre-machined, rotationally symmetrical forgings, forged to shape</p>

Your local contact worldwide: 1400 employees -



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08/2018

