



SCHMOLZ + BICKENBACH

Comprehensive range of tool steel solutions





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



Cold works:

- » CRYODUR® 2990 the innovative steel for sheet metal working
- » CRYODUR® 2767 with high hardenability and toughness, highly suitable for polishing, texturing and EDM machining
- » CRYODUR® 2746 the special steel for cold-shear blades, particularly for cutting scrap

Hot works:

- » FX-XTRA® Versatile forging die material for both shallow and deep impressions. Excellent high temperature properties make this a true workhorse
- » THERMODUR® E 40 K Superclean effectively slows down formation of hot cracks for light metal die casting
- » THERMODUR® E 38 K Superclean with excellent toughness and low susceptibility to hot cracking
- » Press-X® precipitation hardened alloy with excellent resistance to heat checking
- » CX® excellent ductility and toughness for warm and near-net shape forgings; ram and sow blocks
- » THERMODUR® 2383 Supercool for press hardening with excellent thermal conductivity

High Speed Steel:

- » RAPIDUR® 3343 the best choice for all metal-cutting tools
- » RAPIDUR® 3207 High-speed steel of superlative performance combining optimal cutting-edge retention, high-temperature strength and toughness

Plastic mold:

- » MLQ-Xtra™ LQ an excellent material for Photo-Etching & Texturing. The VAR or ESR process eliminates nearly all segregation
- » FORMADUR® 400 Superclean an ESR re-melted mold steel with excellent polishability and texturing properties
- » MD™ Xtra™ mold steels for maximum hardenability in large plastic injections molds
- » CORROPLAST® the corrosion-resistant steel with best machinability
- » CORROPLAST® FM ultimate corrosion-resistant steel with excellent machinability
- » FORMADUR® PH X Superclean stainless steel that sets polishability standards
- » 420Q a superior product for molding vinyl base or other corrosive plastics. It can be used for injection, compression and transfer molding

Powder metallurgy:

- » Fe-, Ni- and Co-Basis
- » PM-Steel, especially cold work and high speed tool steels
- » Powder for additive manufacturing, “3D-printing”
- » Ferro-Titanit® metal matrix composite with titanium carbides for high wear resistance

Special products:

- » Open die casting
- » Aluminum die casting
- » Aluminum extrusion
- » Plastic mold
- » Glass mold
- » Mandrel bars
- » Cold rolls

Our tool steel grades and dimension range

SEL	AISI	DEW	Finkl	Pressure die casting	Light metal Extrusion	Forging	Glass products	Tube manufacturing	Press-hardening
HOT WORKS									
1.2083	420	Formadur® 2083 Superclean	420® Premium Quality				•••		
		Thermodur® E 38 K Superclean		••••	•••	•••			
		Thermodur® E 40 K Superclean		••••	••••	•••			
1.2329		Thermodur® 2329			••				
1.2342	~H13	Thermodur® 2342 EFS						••••	
1.2343	H11	Thermodur® 2343 EFS	SDX ShellDie®	•	•••	•••	•	•••	
1.2343	H11	Thermodur® 2343 EFS Superclean	SDQ ShellDie® Premium Quality	•••	•••	•••	•		
1.2344	H13	Thermodur® 2344 EFS	Finkl H13 DC®	•	•••	•••	•	•••	
1.2344	H13	Thermodur® 2344 EFS Superclean	Finkl H13 DC-Xtra®	•••	•••	•••	•		
1.2365	H10	Thermodur® 2365 EFS			•	•••			
1.2367		Thermodur® 2367 EFS	SLX ShelleX®	•	•••	•••	•		•••
1.2367		Thermodur® 2367 Superclean	ShelleX® Premium Quality	•••	•••	••••	•		
1.2383		Thermodur® 2383 Superclean		••			••		••••
1.2714	~L6	Thermodur® 2714	FX, Durodi, 2714		••	••••			
		Thermodur® 2999 Superclean		•••		•••	•		••
			Press-X™			••••			
			WF®			••••			
			CX®		••	••••			

SEL	AISI	DEW	Finkl	Injection molds	Compression molds	Plastic Extrusion	Blow molds	Large molds	Mold frames	Extruders
PLASTIC MOLD										
1.2083	420	Formadur® 2083	420M	•	•	••	•			
1.2083	420	Formadur® 2083 Superclean	420M® Premium Quality	••••		•				
1.2085	420 FM	Formadur® 2085	420MB		•				•••	
		Formadur® 2190 Superclean		••	••					
1.2311	P20	Formadur® 2311	Finkl 2311	•••	•••	•••	••	••	•	
1.2312	P20 +S	Formadur® 2312	COREBLOC™		•			•	•••	
1.2316	420 mod	Formadur® 2316	Finkl 2316	•••	••	••••	••	••		••
1.2316	420 mod	Formadur® 2316 Superclean		•••	••	••••	••			••
1.2331	4140	Formadur® 2331	HB™ Holderbloc						•	
1.2343	H11	Thermodur® 2343 EFS	SDX ShellDie®	•••	••	•		•		•••
1.2343	H11	Thermodur® 2343 Superclean	SDQ ShellDie® Premium Quality	••••	••	•		••		
1.2344	H13	Thermodur® 2344 EFS	Finkl H13 DC®	••	••	•		•		•••
1.2344	H13	Thermodur® 2344 Superclean	Finkl H13 DC-Xtra®	•••	••	•		••		
1.2357	S7	Cryodur® 2357	DRX™	••	••					•••
1.2738	P20 +Ni	Formadur® 2738	MD®	•••	•••	•••	••	••••	•	
		Formadur® PH 42 Superclean		••••	••	••	••			
		Formadur® PH X Superclean	Mar-X™	••••	•	••••	•••			
		Formadur® 320	MD®	•••	•••	•••	••	••••	•	
		Formadur® 320 Superclean		•••	•••	•••	••	••••	•	
		Formadur® 400	MD®HH	•••	••••	•••	••	••••		
		Formadur® 400 Superclean	MLQ®-Xtra SH	••••	••	•••	••	•••		
	P20 mod		MD®-Xtra	••••	••••	•	••	••••		••
		Corroplast®			•				••••	
		Corroplast® FM			•				••••	






















EFS = Extra Fine Structure

This is an excerpt from our portfolio that also contains other grades. All grades are available in remelted condition.

SEL	AISI	DEW	Finkl	Cutting Punching Shearing	Coining Pressing Bending	Rolling	Folding Guiding	Machi- ning	Tool holder	Tools
COLD WORK										
1.2210		Cryodur® 2210						•		••
1.2242		Cryodur® 2242								•••
1.2249		Cryodur® 2249		•	•					•
1.2357	S7	Cryodur® 2357	DRX™	•	•••					•
1.2360		Cryodur® 2360		••	••	•••				
1.2363	A2	Cryodur® 2363		••	•••	•				
1.2379	D2	Cryodur® 2379		••••	•••	•••				
1.2436	~D6	Cryodur® 2436		•••	•••	••				
1.2510	O1	Cryodur® 2510		••	••		••			
1.2550	~S1	Cryodur® 2550		••	•••		••		•	••
		Cryodur® 2709		•						
1.2721		Cryodur® 2721		••	•••				•	
1.2746		Cryodur® 2746		•••						
1.2767	6F3	Cryodur® 2767	Finkl 2767	•••	••••					•
1.2826	S4	Cryodur® 2826					•		•••	•
1.2842	O2	Cryodur® 2842		••	••		••••			
		Cryodur® 2990		••••	•••	•••				
		Cryodur® PM-V10		••••	••••					
		Cryodur® PM-V12		••••	••••					
		Cryodur® PM-V15		••••	••••					
1.3207		Rapidur® 3207						••••		
1.3243		Rapidur® 3243						•••		
1.3247		Rapidur® 3247						••••		
1.3343	M2	Rapidur® 3343		••••	••••	•••		•••		
1.3344		Rapidur 3344		••••	••••			••••		
1.3344 / 1.3395	M3-2	Rapidur® PM 23		••••	••••	•••		•••		
1.3294 / 1.3244	M36	Rapidur® PM 30		••••	••••	•••		•••		
1.3253		Rapidur® PM 52		••••	••••	•••		•••		
~1.3241 / 1.3292		Rapidur® PM 16		••••	••••	•••		•••		
~1.3351	M4	Rapidur® PM M4		••••	••••	•••		•••		

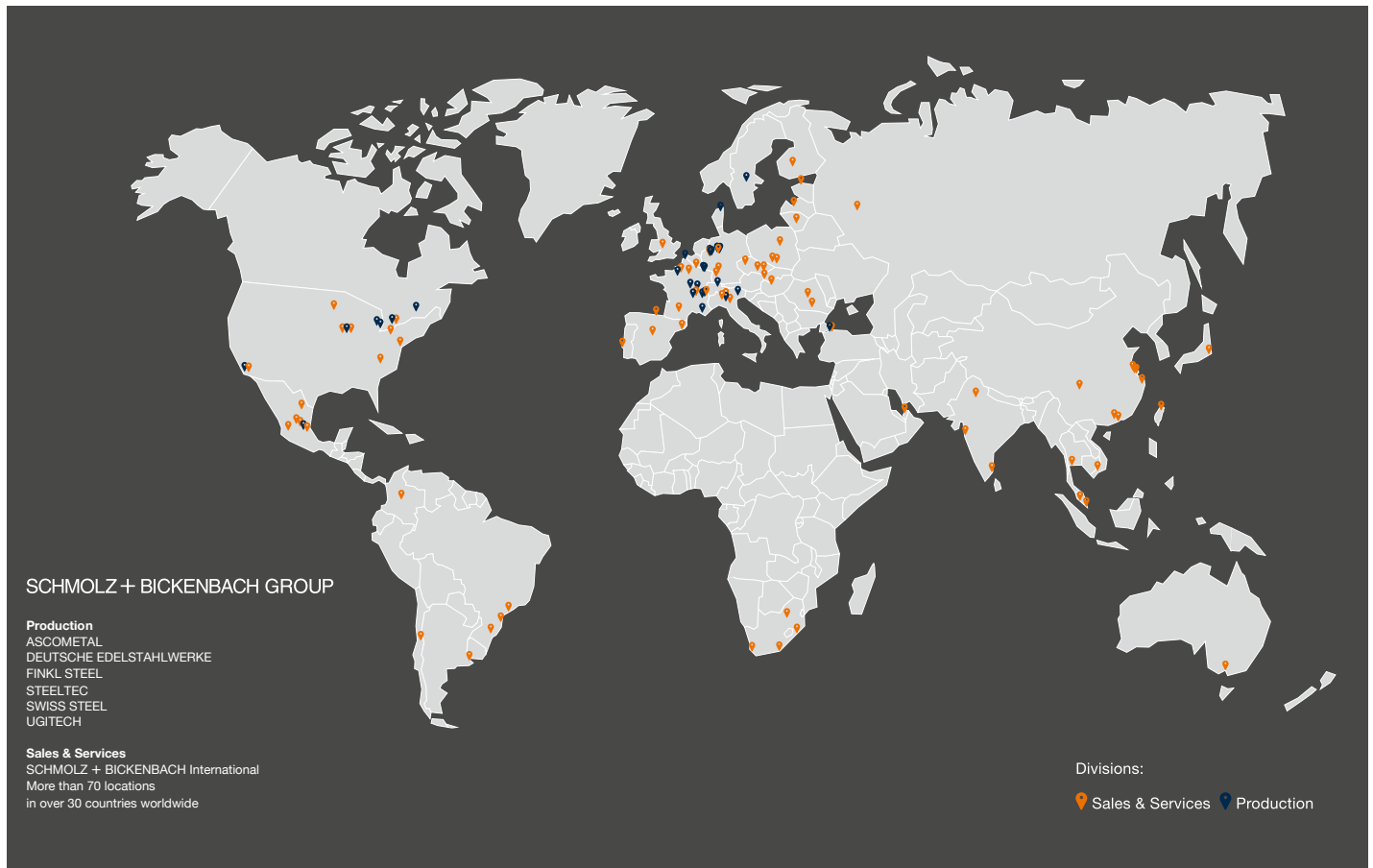
PM = Powder Metallurgical Steel

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Ingots, Continous casting, Semi-finished	Hot rolled bars	Forged products
Ingots: 0,6 - 128 T Continuous casting:  138 mm  150 mm  205 mm  245 mm  475 x 340 mm Semi-finished products:  50 - 320 mm, rising in 1 mm increments	 7 - 250 mm  50 - 160 mm  Width: 80 - 150 mm Thickness: 24 - 160 mm Width/thickness ratio: 10:1 max.	 Open die forgings , rotationally symmetrical forgings forged to shape on request up to 50 t single-piece weight  65 - 1100 mm  50 - 750 mm  Single piece weight up to 72 T
Sheets, plates	Bright steel	Pre-machining
 Width: up to 2 000 mm Thickness: 2 - 205 mm	 0,8 - 130  2 - 60 mm  2 - 18 mm In bars of 2 to 130 mm In coils of 0,8 to 22 mm	 Pre-machined parts, molds, dies and frames, turned parts according to customer specification  Cold rolls: 20 - 750 mm ø  Mandrels, ø up to 365 mm length up to 28 m
Wire rod / drawn wire		
 Wire rod: 5,5 - 30 mm		

We have more than 100 grades in our offering, feel free to contact your local expert for any special requirement. Depending alloy, limitations for maximal dimensions are possible

Your local contact worldwide: 1400 employees -



› SCHMOLZ + BICKENBACH International

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08/2018