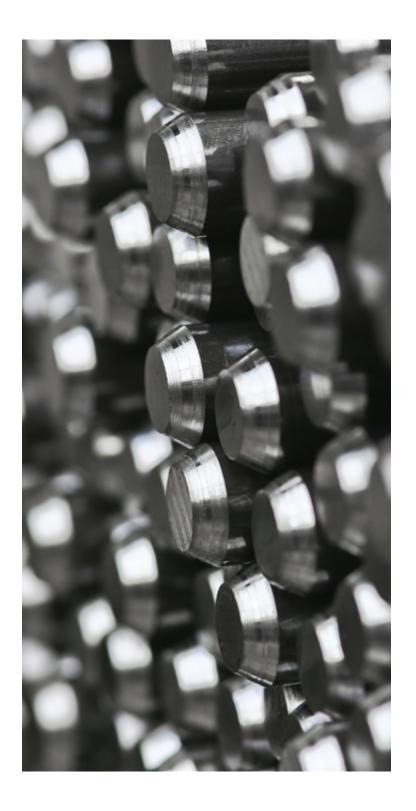
Comprehensive range of engineering steel solutions





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).

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

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 utlimate goal. We propose already on the market some green steel products and develop green services initiatives.

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, 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 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.

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
- Chamfering

# Our star products dedicated to the most stringent markets

With our long-term experience we are supplying our high quality engineering steel to industries such as automotive, bearings, oil & gas, mechanical engineering, energy, hydraulics, aerospace.

### AFP (ferritic-pearlitic steels)

 Our METASCO® 38 and MICRODUR® for hot forging treatment where the ferriticpearlitic structure associated with Vanadium raises yield strength as well as the tensile strength to levels not far below those of QT steels.

#### **Bainitic steels**

 BAINIDUR® 1300, METAS-CO® BAE75 and SWISS-BAIN 7MnB8 with high strength and process reliability for distortion-free and cost effective forging, cold forming or direct machining (eg steering).

#### Bearing steels

 Our DURAPUR® to fulfill the highest requirements regarding purity, fatigue strength and wear resistance and our ASCOMETAL® high cleanliness ingot-cast steel for ball bearing application.

#### Case hardening steels

- CARBODUR®, JOMASCO® / NiCr, NiCrMo, MnCr, CrMoS grades for highly stressed components in the automotive and mechanical engineering industries and ESP 65 with excellent machinability.
- ASCOFLEX® 20.6 flexible and cost effective solution for gears.

#### Chain steels

 CARBODUR® / CrMnNiMo grades for high strength and ductility, wear resistance and weldability.

# Cold forming / Cold heading steels

 FIRMODUR® / Cold Heading Qualities with / without Boron for highly stressed fastening elements.

## Splittable connecting rods steels

 Our SPLITASCO® and MI-CRODUR® grades for the highest fatigue requirements and optimized machinability properties.

#### Easy machinability steels

Our SUPERVITAC®, VITAC®
TS, VITAC® 3000 and OPTICUT® processes adapted
to machining typologies
and allowing efficient machining with comparable or
unchanged mechanicals.





#### Free cutting steels

DUODUR®/S, SMn and SMn
Pb, OPTICUT®, SWISSCUT
SC30(Pb) and SC37(Pb) and
VITAC® grades for outstanding machinability and chip
breaking properties.

## High and higher strength special steels

- ETG® with outstanding machinability for technically complex parts and processes.
- HSX® steels for highly stressed parts, excellent machinability.

#### **Nitriding steels**

 Our NITRASCO® and NITRODUR® grades for a high surface hardness combined with a significant wear resistance and fatigue strength.

## Quenched and tempered steels

FIRMODUR®, ASCOWELL®
 C and HS / Cr, CrMo,
 NiCrMo grades, etc., for the characteristic significant tensile strength as well as a high yield strength and ductility.

#### Reinforcing steels

TOP12 and TOP700 reinforcing steels for highest requirements.

#### Spring steels

 FIRMODUR® and CARBO-DUR® steels with a high yield-to-tensile ratio.

# Structural and Mining steels

 Our ASCOROC® and S235JR/J2, S275JR/J2, S355JR/J2 with high yield strength, tensile strength and high ductile properties for rock breaking application, commercial and industrial building construction.

# Our engineering steel grades

From ingots, blooms, semi-finished, hot rolled and forged products to further processed materials, we offer more than 1000 grades and grade variations dedicated to the most specific applications. We are covering all the engineering steel families: bearing steels, case-hardening steels, chain steels, free cutting steels, Q+T steels, etc.

For highest quality demands we use the electroslag remelting (ESR) as well as the vacuum arc remelting procedure (VAR). 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 and technologies for special steel needs.

EN material number	EN symbolic designation	Brands	EN material number	EN symbolic designation	Brands
AFP STEELS / Bainitic steels			BEARING STEELS		
1.1301	19MnVS6		1.3505	100Cr6	Durapur 3505
	20MnVS6		1.3520	100CrMnSi6-4	Durapur 3520
1.5232 / 1.1302	27MnSiVS6 / 30MnVS6	Microdur 5232	1.3536	100CrMo7-3	Durapur 3536
	38MnS6	<del>-</del>	1.3537	100CrMo7	
1.5231 / 1.1303	38MnSiVS6 / 38MnVS6	Microdur 5231,	1.3538	100CrMo7-4	
		Metasco® 38 / 38MnSiV5	1.3539	100CrMnMoSi8-4-6	_
	4414 = 021/00 /			100MnCrSi4-4	
1.5233 / 1.1304	44MnSiVS6 / 46MnVS6	Microdur 5233		95CrMnSi6-6	
	38MnV5	Metasco® S900		100CrMnMo5-5-2	
	43MnV5	Metasco® S1000	1.1219	C56E2	Durapur 1219
		Bainidur 1300	SPLITTABLE CONRODS STEELS		
1.5171	18MnCrSiMoVB6	Metasco® 1200	1.1249	C70S6	Firmodur 1249,
	25MnCrSiVB6	Metasco® MC		36MnVS4 /	Splitasco® 70
1.5173	28MnCrSiMoVB6	Metasco® MC2		38MnVS4mod.	Splitasco® HC
1.5174	35MnV7	Metasco® BA		36MnVS4 low S	Splitasco® HC1
1.5175	35MnCrV5	Metasco® BAE75		70MnVS4 / 71MnVS4	
1.5176	40SiCrMoB4	Metasco® HCi		30MnCrVB4	Splitasco® XS

EN material number	EN symbolic designation	Brands	EN material number	EN symbolic designation	Brands
CASE HARDENING STEELS		CASE HARDENING STEELS			
1.1140	C15R	Carbodur 1140	1.7149	20MnCrS5	Carbodur 7149
1.1208	C16R		1.7160	16MnCrB5	Carbodur 7160
1.3531	16CrNiMo6		1.7211	23CrMoB4	Carbodur 7211
1.3533	18NiCrMo14-6		1.7242	16CrMo4	-
1.3576	20NiCrMo7		1.7243	18CrMo4	Carbodur 7243
1.5714	16NiCr4		1.7244	18CrMoS4	
1.5715	16NiCrS4		1.7271	23CrMoB3-3	Carbodur 7271
1.5732	14NiCr10	Carbodur 5732	1.7311	20CrMoS2	Carbodur 7311
1.5752	15NiCr13	Carbodur 5752	1.7321	20MoCr4	Carbodur 7321
1.5792	12NiCr3	Carbodur 5792	1.7323	20MoCrS4	Carbodur 7323
1.5805	10NiCr5-4	Carbodur 5805	1.7325	25MoCr4	Carbodur 7325
1.5807	15NiCr6-4	Carbodur 5807	1.7332	17CrMo3-5	Carbodur 7332
1.5810	18NiCr5-4	Carbodur 5810	1.7333	22CrMoS3-5	Carbodur 7333
1.5860	14NiCr18	Carbodur 5860	1.7707	30CrMoV9	-
1.5918	17CrNi6-6	Carbodur 5918	1.7910	32MnCrMo6-4-3	-
1.5919	15CrNi6	Carbodur 5919		17MnCr5	-
1.5920	18CrNi8	Carbodur 5920	·	18MnCrMo5	
1.6523	20NiCrMo2-2	Carbodur 6523		20MnCrMo4-2	
1.6526	20NiCrMoS2			20MnCrNiMo5-3	
1.6543	21NiCrMo2-2	Carbodur 6543		18NiCrMo5	-
1.6566	17NiCrMo6-4	Carbodur 6566		27MnCr5	-
1.6569	17NiCrMoS6-4	<del></del>		27CrMo4	-
1.6571	20NiCrMoS6-4	Carbodur 6571		30NiCrMoV10	
1.6587	18CrNiMo7-6	Carbodur 6587		39NiCrMo3	
1.6657	14NiCrMo13-4	Carbodur 6657		20NiCr4	-
1.6723	15NiCrMo16-5	Carbodur 6723		12CrMnMo9	Jomasco® DB
1.6745	40NiCrMo10	<del></del>	·	14MnCrMo4	Jomasco® 12
1.6757	20NiMoCr6-5	Carbodur 6757		15MnCrMo5	Jomasco® 15
1.6773	36NiCrMo16	<del></del>	-	21MnCrMo5	Jomasco® 20
1.7015	15Cr3	Carbodur 7015		23MnCrMo5	Jomasco® 23
1.7016	17Cr3	Carbodur 7016	-	23MnCrMo5mod	Jomasco® 23moo
1.7121	20CrMnS3-3	Carbodur 7121		C10R+Pb	
1.7131	16MnCr5	Carbodur 7131		C15R+Pb	
1.7139	16MnCrS5 / 16MnCrS5 SVA	Carbodur 7139 / SuperVITAC®		16MnCrS5+Pb	_
1.7147	20MnCr5	Carbodur 7147		17NiCrMoS6-4+Pb	

# Our engineering steel grades

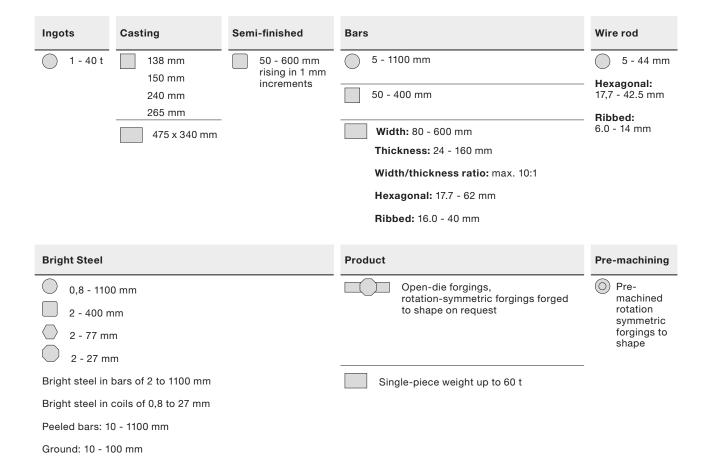
EN material number	EN symbolic designation	Brands	EN material number	EN symbolic designation	Brands
CHAIN STEELS			FREE CUTTING STEELS		
1.0412	27MnSi6		1.0715	11SMn30	Duodur 0715
1.0495	21Mn5		1.0718	11SMnPb30	
1.6522	20NiCrMo2	Carbodur 6522	1.0721	10S20	
1.6527	20NiCrMo3-3	Carbodur 6527	1.0726	35S20	
1.6541	23MnNiCrMo5-2	Carbodur 6541	1.0727	46S20	
1.6758	23MnNiCrMo5-4	Carbodur 6758	1.0736	11SMn37	Duodur 0736
	C22B+Ni		1.0737	11SMnPb37	
	15MnNiCr4-2-2		1.0761	38SMnPb28	
REINFORCING	28MnNiCrB5-2-2		1.0762	44SMn28	VITAC® D830 / VITAC® D950, Duodur 0762
		Top700	- <u> </u>	44SMnPb28	
1.4003	X2CrNi12	Top12	1.0765	36SMnPb14	_
	St 900/1100	Formwork ties	NITRIDING STEELS		
	St 900/1100	Formwork ties weldable	1.8507	34CrAlMo5-10	Nitrodur 8507
COLD FORMING STEELS		Wordanie	1.8509	41CrAlMo7-10	Nitrodur 8509
1.0214	C10C		1.8515	31CrMo12	Nitrodur 8515
1.0303	C4C		1.8519	31CrMoV9	Nitrodur 8519
1.5502	17B2	_	1.8521	15CrMoV5-9	
1.5508	23B2	Firmodur 5508	1.8522	33CrMoV12-9	Nitrodur 8522
1.5519	7MnB8	SwissBain	1.8523	40CrMoV13-9	Nitrodur 8523
1.5520	17MnB4	_	1.8524	8CrMo16	Nitrodur 8524
1.5525	20MnB4	Firmodur 5525	1.8550	34CrAlNi7-10	Nitrodur 8550
1.5526	30MnB4	Firmodur 5526		40CrAlMo6-12Pb	
1.5535	23MnB4	_		30CrMnMoAlV8	Nitrasco®
1.5536	27MnB4	_			
1.5538	37MnB5	_	_		
1.7034	37Cr4	_	_		
1.7076	32CrB4	Firmodur 7076	=		
1.7077	36CrB4	Firmodur 7077	_		
	38B3	_	_		
	C4C+Pb	_	_		

EN material number	EN symbolic designation	Brands	EN material number	EN symbolic designation	Brands
QUENCHED AN	ID TEMPERED STEELS	S	QUENCHED AN	ID TEMPERED STEEL	.s
1.0402	C22		1.7033	34Cr4	Firmodur 7033
1.0501	C35		1.7037	34CrS4 34CrS4SVA	Firmodur 7037, 34Cr4 SuperVITAC®
1.0503	C45		1.7037	34CrS4Bi	34CrS4 VITAC® BC
1.0535	C55		1.7035	41Cr4	Firmodur 7035
1.1149	C22R		1.7038	37CrS4	
1.1172	C35ES	Firmodur 1172	1.7039	41CrS4	Firmodur 7039
1.1173	30Mn5		1.7039	41CrS4Bi	41CrS4 VITAC® BC
1.1178	C30E		1.7182	27MnCrB5-2	
1.1179	C30R		1.7185	33MnCrB5-2	
1.1180	C35R	Firmodur 1180	1.7213	25CrMoS4	Firmodur 7213
1.1181	C35E	Firmodur 1181	1.7218	25CrMo4	Firmodur 7218
1.1191	C45E	Firmodur 1191	1.7220	34CrMo4	Firmodur 7220
1.1201	C45R / C45 SVA	Firmodur 1201, SuperVITAC®	1.7223	41CrMo4	Firmodur 7223
1.1203	C55E		1.7225	42CrMo4	Firmodur 7225
1.1209	C55R		1.7226	34CrMoS4	Firmodur 7226
1.1213	Cf53 C60R	Firmodur 1213	1.7227	42CrMoS4 42CrMo4SVA	Firmodur 7227, 42CrMo4 SuperVITAC®
1.1241	C50R		1.7228	50CrMo4	Firmodur 7228
1.1244	70Mn4			30NiCrMo16	
1.5531	30MnB5		_	40CrMo4	
1.6510	39NiCrMo3			20CrMo12	
1.6513	28NiCrMo4			15CrMoV6	
1.6546	40NiCrMo2				Grade B7
1.6565	40NiCrMo7				Grade L43
1.6745	40NiCrMo10				Grade L7
1.6580	30CrNiMo8	Firmodur 6580			
1.6582	34CrNiMo6	Firmodur 6582	_		

# Our engineering steel grades

EN material number	EN symbolic designation	Brands	EN material number	EN symbolic designation	Brands
SPRING STEELS			OTHER STEELS (CARBON, ALLOYED, FORGED)		American Standard
1.2208	31CrV3		_	EN32B	AISI 1018
1.5023	38Si7		_	EN3A	AISI 1020
1.5024	46Si7	Firmodur 5024	_		AISI 1026
1.5026	56Si7	Firmodur 5026	1.6657	<del></del>	AISI 9310
1.7102	54SiCr6	Carbodur 7102	1.6523	20NiCrMo2-2	SAE 8620
1.7106	56SiCr7	Carbodur 7106	1.6526	20NiCrMoS2-2	SAE 8620
1.7108	61SiCr7	Carbodur 7108	- 1.6511	36CrNiMo4	AISI 4340
1.7117	52SiCrNi5		STEELS FOR O	IL & GAS	Brands
1.7176	55Cr3	Carbodur 7176	1.7216	30CrMo4	Firmodur 7216
1.7701	52CrMoV4	Carbodur 7701	1.7273	24CrMo10	Firmodur 7273
1.8062	46SiCrMo6	Carbodur 8062	1.7275	10CrMoBS5	Firmodur 7275
1.8152	54SiCrV6		1.6562	40NiCrMo8-4	Firmodur 6562
1.8159	51CrV4	Carbodur 8159	1.6595		Firmodur 6595
STRUCTURAL A	ND MINING STEELS	1	1.6591		Firmodur 6591
1.0014	S235J0		1.7380	10CrMo9-10	Firmodur 7380
1.0016	S235J2G3			45CrMoV5	Ascowell® C
1.0037 / 1.0038	S235JR			30NiCrMoV7	Ascowell® HS
1.0117	S235J2				American Standard
1.0044	S275JR				AISI 4130
1.0145	S275J2				AISI 4140H
1.0045	S355JR				AISI 4145
1.0553	S355J0				AISI 4330V mod
1.0570	S355J2G3		_		AISI 4340
1.0577	S355J2				AISI 8620
1.0596	S355K2		1.4006	X10Cr13	AISI 410
1.0050	E295		1.4021	X20Cr13	AISI 420 & 420mod
1.0060	E335		1.7386	X12CrMo9	A182 F9
1.0070	E360		1.7375	12CrMo9-10	A182 F22
			~1.7335	13CrMo4-5	A182 F11

# We provide a range of effective solutions in all dimensions



# Our Group unique products

#### **Steeltec**

- ETG® High strength special steel for complex precision parts
   High strength and high toughness even in the as-delivered
   state which guarantees short-breaking chips, extended tool
   lives and a high degree of uniformity of material properties
   across batches.
- HSX® Higher strength special steels for highly stressed parts Combination of high strength and high toughness even in their as-delivered state to manufacture precision parts for heavy-duty applications with no additional operations such as hardening, straightening, grinding and deburring necessary.
- SWISSCUT® A high-performance free-cutting steel to minimize tool wear and maximize productivity and profitability.
- ESP 65 Case-hardening steel that ensures process reliability and cost benefits.
- TOP12 Reinforcing steel with increased corrosion resistance Top12 presents a reliable and economic solution for improving the corrosion resistance of reinforced concrete significantly and thus extending their lifetime. It is suited for constructional elements exposed to splash water and stationary water and for areas jeopardized by carbonation.
- TOP700 High strength reinforcing steel
   Top700 is a micro-alloyed reinforcing steel exhibiting a yield stress exceeding 700 N/mm² to meet high static requirements and to open up new possibilities in reinforced concrete construction.

#### **Deutsche Edelstahlwerke**

- BAINIDUR® The ideal solution for highly stressed parts and for manufacturing sophisticated forgings even more cost-efficiently (also for large format parts up to 60 mm round). It also permits a large process window with regard to the temperature control during forging and cooling.
  - No additional tempering necessary and no risk of distortion
  - Constant high quality level of manufactured parts
  - Strength of 1200 MPa, can be increased on request
  - Very good machinability and nitridability.
- FIRMODUR® Excellent strength to toughness ratio after quenching and tempering, high fine grain stability and high wear resistance.
- CARBODUR® Case-hardening steel, the high macroscopic and microscopic degree of purity, the homogeneity of the microstructure and the fine-grain stability of CARBODUR® steel set standards.
  - NITRODUR® High surface hardness and fatigue strength and, in addition, higher temperatures are involved. Nitrided surfaces maintain their hardness and strength up to operating temperatures of approx. 500 °C - 550 °C.
  - DURAPUR® We set standards in the production of rolling bearing steels for the highest loads.
  - OPTIDUR® A sustainable material concept with its own hardness properties.

# Our Group unique technologies

#### **Ascometal**

- ASCOFLEX® 20.6: cost effective alternative to Mo-added carburizing steels. Directly fits into usual production lines without any significant changes in either process chain parameters or in-use performances of final components..
- VITAC® BC: improved machinability.
- VITAC® 3000: improved machinability and high cleanliness.
- VITAC® TS: improved machinability for cutting and high cleanliness.
- VITAC® D830/D950: guaranteed characteristics without heat treatment and high machinability.
- JOMASCO® 23 and JOMASCO® 23 mod: adapted to replace steel grades with Nickel, improved Jominy quenching and case-hardening, compatible with low pressure case-hardening/gas quenching.
- JOMASCO® DB: optimized carburizing case-hardening steels with optimized Jominy and enhanced quenchability grade with low nickel content.
- NITRASCO®: nitriding steels, offering even greater abrasion resistance.
- SPLITASCO® HC (36MnVS4): very high mechanical properties: Re > 750 MPa et Rm 1000 - 1150 MPa.
- SPLITASCO® XS: upgraded SPLITASCO® HC bainitic steel meeting very high mechanical properties: Re > 950 MPa and Rm > 1100 MPa.
- ENDURASCO®: bearing grade with very good fatigue strength in polluted environment and high temperature service.
- METASCO® 30/38/44: AFP up to Rm = 1000 MPa.
- METASCO® MC/ MC2/1 200: bainitic up to Rm = 1200 MPa.
- METASCO® BAE75: bainitic steel with optimized Re and Rm for induction heat treatment.
- METASCO® HCI: bainitic for induction heat treatment and improvement of mechanical properties up to Rm = 1150 MPa.
- ASCOWELL® C enhanced 4145Hmod with extended life in corrosive environments.
- ASCOWELL® HS enhanced 4330Vmod with high yield strength with excellent resilience and fatigue resistance.

- XTP® Xtreme performance technology
  - Through its systematic development of the thermochemical processing phase, Steeltec is able to treat almost any conventional standard steel and significantly improve its properties. An ultrafine grain can be imparted to the steel using a carefully controlled combination of heat and mechanical force, producing a steel with properties that could otherwise only be achieved by high alloy concentrations or by complex and costly additional processing stages.
  - Ultrafine grained steel microstructure: Grain sizes ≤ 5 µm
  - Xtreme strength: increased tensile strength of up to 1800 Mpa
  - Xtreme robustness: dynamic strength increased by at least +10%
  - Xtreme toughness: notch impact energy values considerably greater than 27 joules even at temperatures as low as -101 °C.
- ASCOMETAL®, DEUTSCHE EDELSTAHLWERKE® (large diameter bar) High Quality Inspection: the "100% bench" allows to meet the most stringent UT specifications as per Oil & Gas API 7.1 Standards, Wind Power requirements, etc. The fully automatic bench is equipped with Phased Array and Angle Beam technologies checking 100% of the volume and defects up to AVG 1 for bars from 5 to 400 mm in diameter.
- DEW® RC+T (Rapid Cooling + Tempering), the innovative process of DEW for improved material properties in case hardening steels DEW, together with its customers, has developed RC+T as an alternative process to conventional heat treatment resulting in significantly leaner process chains and improved material properties. With the temperature-controlled rolling process and subsequent tempering the steel properties are optimized for increased component quality.

#### - Advantages of RC+T

- Microstructure is fine-grained and resembles a AC-annealed structure
- Uniform hardness over the entire cross-section and better formability
- Smooth and score-free surface in rolled condition
- Lower decarburization tendency compared to FP-annealed material
- Increased output due to reduced scale formation.

# Your local contact worldwide



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>30

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