









SIJ is a vertically integrated holding company, the leading steel manufacturer in Slovenia, and one of the largest stainless and special steel manufacturers in Europe. SIJ Group consists of the two largest steel companies in Slovenia (SIJ Acroni and SIJ Metal Ravne), other manufacturing and processing companies (SIJ Ravne Systems, SIJ Elektrode, SIJ SUZ), specialized service and sales centers across Europe and the USA, and companies for scrap steel collection and sales.

www.sij.si



#### INCREASE YOUR PRODUCT'S LIFE SPAN

The highest steel quality, based on world class production equipment and more than 400 years of experience in steel making

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#### **DECREASE MACHINING COSTS**

Narrow dimensional tolerances, exceeding international standards

#### **OPTIMIZE YOUR MANUFACTURING PROCESSES**

Extensive range of mechanical treatment possibilities to find the best fit for your production process

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#### **EXCEED YOUR CUSTOMERS' EXPECTATIONS**

Strong in-house R&D department and broad applied knowledge helps you get the best solutions for your customers' needs



Based on its vertical integration, SIJ Group has developed into a reliable partner for the tool makers. From own steel scrap collection and steel production, to own steel centers and tool components production – all from one source in a timely manner, according to the most stringent tooling industry requirements and standards.

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#### STEEL PRODUCTION

**SIJ ACRONI** is the largest Slovenian steel manufacturer and one of the leading quarto plate producers in Europe, producing steel by recycling scrap in an electric arc furnace, casting it on a continuous caster and rolling it into high quality flat rolled steel products. With our state of the art plate mill, we produce plates up to 2500 mm in width. Besides tool steels for plastic moulding and hot work tool steels, Acroni also produces stainless and electrical steel.

**SIJ METAL RAVNE,** the second largest Slovenian steel manufacturer and one of the largest tool steel producers in Europe, produces steel by recycling scrap in an electric arc furnace, casting it into ingots and rolling or forging it into quality long steel products. Own forging shop, rolling mill, ESR remelting furnaces and a wide range of heat treatment and machining options allow us to produce a rich pallet of more than 200 steel grades in different dimensional shapes, from carbon and alloyed structural steels.

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#### STEEL SERVICE AND DISTRIBUTION

Based in Slovenia (Ravne Steel Center), Italy (Sidertoce), Germany (MWT Mayer) and USA (Kopo International), SIJ has an network of localized service centers, providing technical support and quick delivery of precut or machined steel for the tooling industry.

Regularly stocking more than 50 different tool steel grades in more than 1.100 dimensional formats, equipped with modern cutting and surface treatment equipment, we provide unrivaled service and material availability to meet the requirements of modern day tooling industry.

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#### ONE STOP SHOP FOR TOOLING INDUSTRY

**SIJ ORO MET** provides standard and customized tool plates, standard tool frames and CNC machined plates weighting up to 10 tons. Being compliant with Konsberg automotive tool material standard and ISO 9001:2008 certified, SIJ ORO MET is a reliable partner for the tool makers all around Europe.

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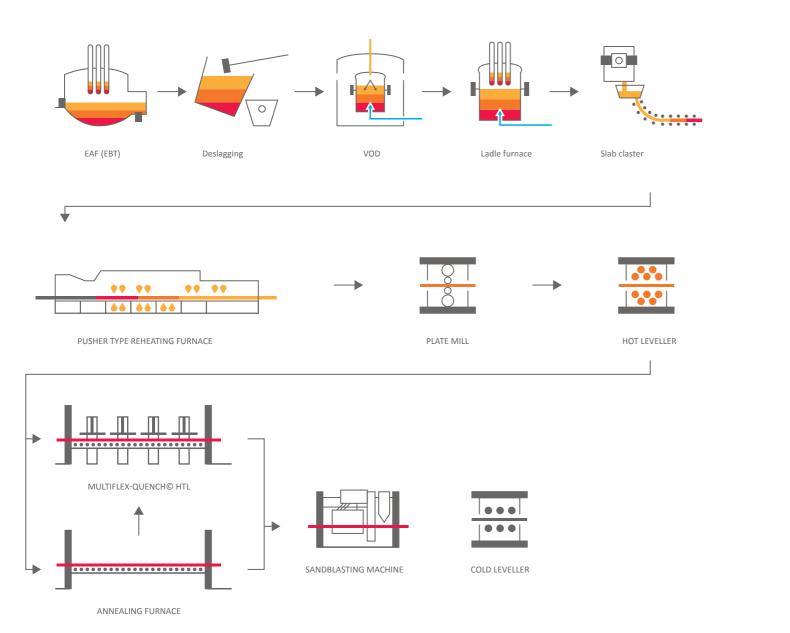
#### **CUSTOM MADE WELDING MATERIALS**

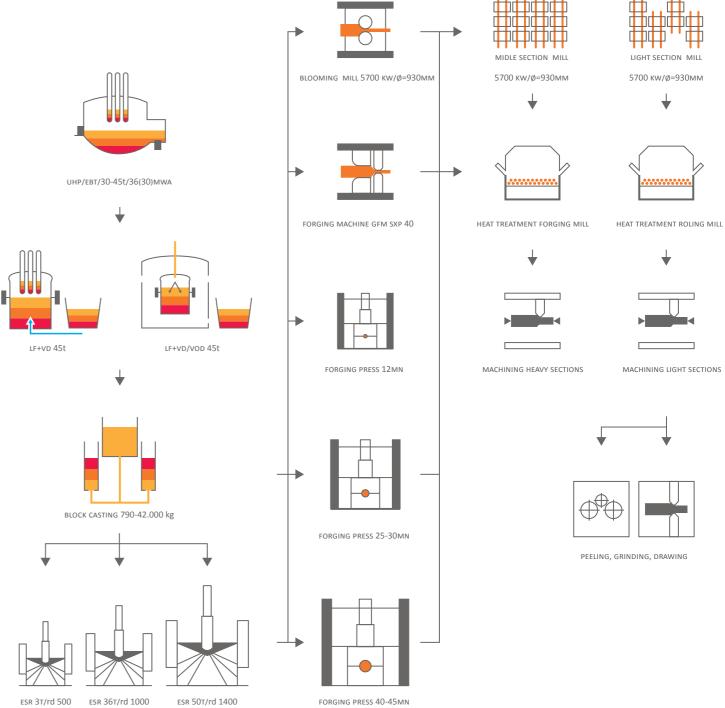
**SIJ ELEKTRODE JESENICE,** is the largest welding material manufacturer in Slovenia, and a prominent one in Europe, with technology development and manufacturing tradition dating back more than 70 years.

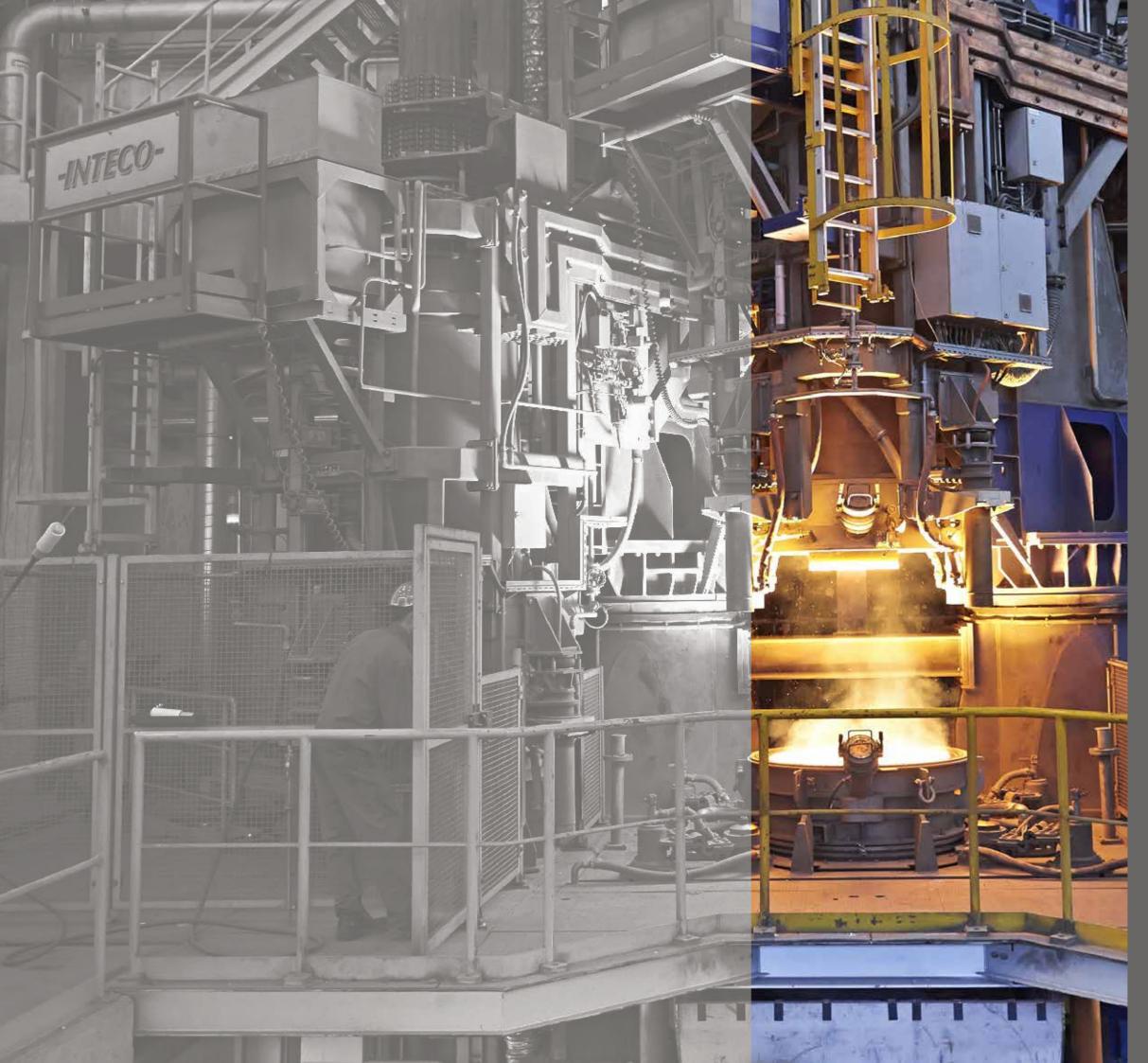
Manufacturing program includes welding materials for manual, semi-automatic and automatic - robotic welding of all steel types including the plastic moulding tool steels.

PRODUCTION PROCESS FLAT PRODUCTS

PRODUCTION PROCESS LONG PRODUCTS







THE ELECTROSLAG REMELTING PLANT features two large 36 and 50 ton ESR furnaces and a smaller one of 3 ton. Via ESR method we can produce extra clean tool steels to ensure the maximium perfomance of the tool. Based on ESR remelting, we are also developing customized tool steel grades to meet requirements for even the most demanding tooling applications.

#### ESR1

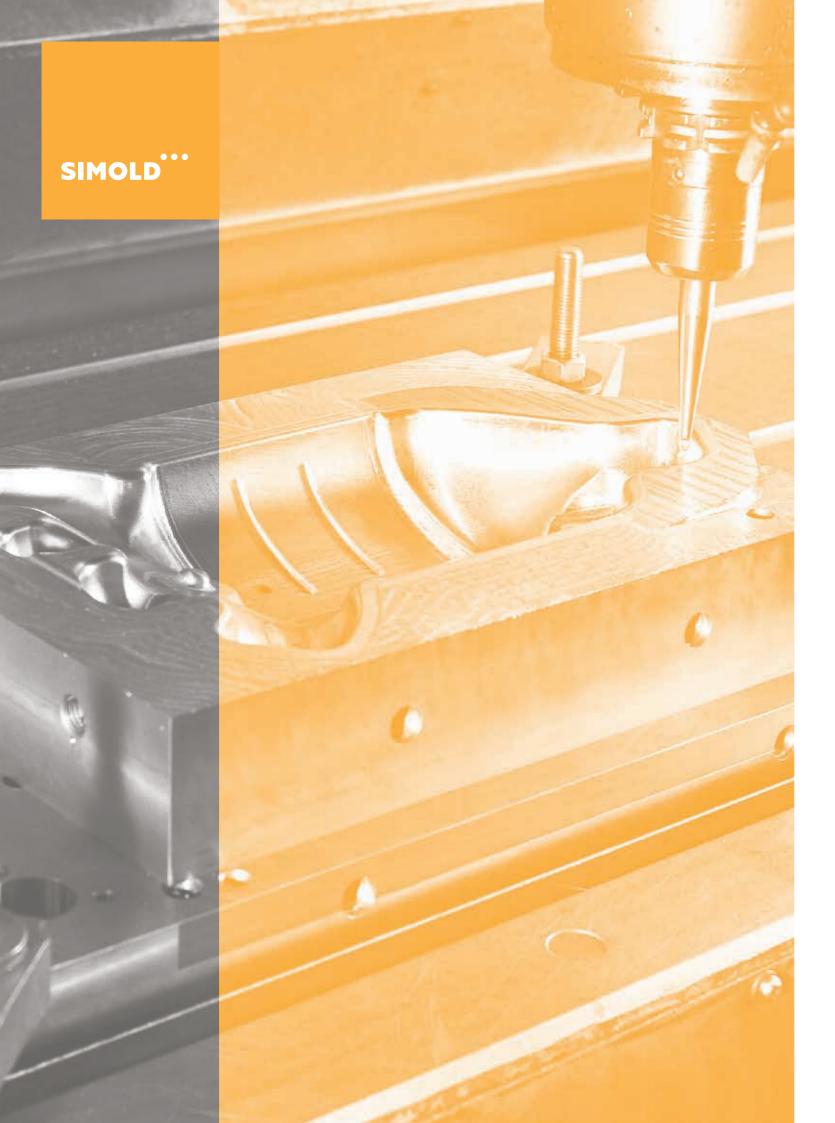
- Ingot formats:
  - ø 430 mm, ø 330 mm and sq. 400 mm
- Max. ingot weight: 2500 kg

#### ESR 2

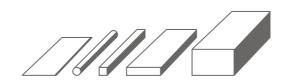
- Ingot formats:
  - sq. 400mm,
  - ø430, ø500, ø630, ø850 and ø1000 mm;
- Max. ingot weight: 30 tons
- Max. ingot lenght: 5500 mm

#### ESR 3

- Remelting under protective atmosphere of nitrogen, argon or a combination of both.
- Ingot format
  - ø850, ø1000 and ø1400 mm format
- Max. ingot weight: 50 tons
- Max. ingot lenght: 4900 mm







**SIMOLD** tool steel is intended for the manufacture of different moulds for plastics, synthetic resins and rubber moulding. Backing parts of plastic injection moulding tools are made of SIMOLD tool steel alloyed with sulphur, added to increase their machinability. SIMOLD brand steel, alloyed with chromium (above 12% Cr), is characterised by its excellent corrosion resistance, thus placing this in the category of so-called corrosion-resistant tool steels. The SIMOLD brand of tool steel is installed in a wide variety of tools within an extremely broad industrial spectrum. During use they are exposed to pressure, wear and even corosion under certain conditions. Extreme (long) durability confirms the excellent quality of our SIMOLD brand steel.

#### **CHEMICAL COMPOSITION**

SIJ GRADE	CHEMICAL COMPOSITION (MAS.%)								ACHIEVED		
	W. NR.	С	Si	Mn	Cr	Мо	Ni	V	W	Others	HARDNESS
SIMOLD 2083	1.2083	0,46	max 1,0	max 1,0	13,5	/	/	/	/	/	55 - 57 HRC
SIMOLD 2085	1.2085	0,35	0,4	0,45	16	/	/	/	/	S 0,070	45 - 51 HRC
SIMOLD 2311	1.2311	0,4	0,3	1,45	1,95	0,2	/	/	/	/	52 HRC
SIMOLD 2312	1.2312	0,4	0,4	1,5	1,9	0,2	/	/	/	S 0,070	51 HRC
SIMOLD 2738	1.2738	0,4	0,3	1,4	1,9	0,2	1	/	/	/	52 HRC

#### PRODUCT RANGE

SIJ GRADE	plate	square	flat	round bars	forgings	welding	electrodes
		sections	sections			wire	
SIMOLD 2083	•	•	•	•	•	•	•
SIMOLD 2085	•	•	•	•	•	•	•
SIMOLD 2311	•	•	•	•	•	•	•
SIMOLD 2312	•	•	•	•	•	•	•
SIMOLD 2738	•	•	•	•	•	•	•

plates	thickness 15 – 100 mm; width 1.000 – 2.500 mm; length 4.000 – 12.000 mm
square sections	up to 1000 mm
flat sections	up to 1500 x 600 mm
round bars	up to Ø 1000 mm



#### SIMOLD S: CUSTOM MADE GRADES FOR PLASTIC MOULDING

## **SIMOLD** S

SIMOLD S are steels specially designed to increase through hardenability and more uniform hardness distribution in larger tool dies.

SIJ GRADE	RADE CHEMICAL COMPOSITION (MAS.%)										
	W. NR.	С	Si	Mn	Cr	Mo	Ni	V	W	CU	Al
SIMOLD S130	/	0,37	0,6	0,9	1,8	0,45	/	/	/	/	/
SIMOLD S131	/	0,28	0,3	1,4	1,45	0,5	1,15	0,2	/	/	/
SIMOLD S150R	/	0,15	0,3	1,5	0,4	0,3	3	/	/	1,1	1

R...remelted

#### THE MAIN FEATURES OF THE SIMOLD S, STEELS FOR PLASTIC MOULDING ARE:

- Microcleanliness high purity steel
- High polishability
- Machinability
- Temperature resistance
- Wear resistance
- Dimensional stability







The **SIHARD** brand steels are adapted for machining and cutting metal, wood and synthetic materials and have the characteristics of dimensional stability, high compressive strength and the required toughness, considering their intended use. The adjusted chemical composition and processing technology provides SIHARD brand steel with the necessary resistance to adhesion, abrasion, cut-edge fragmentation, the possibility of nitration, hard PVD and EDM coatings.

SIHARD brand steels are used for cyclically loaded tools such as: punchers, pressers, die inserts for the compaction of powders, knives/blades, forging, rolling and deep drawing tools.

#### **CHEMICAL COMPOSITION**

SIJ GRADE		CHEMICAL COMPOSITION (MAS.%)								ACHIEVED
	W. NR.	С	Si	Mn	Cr	Mo	Ni	V	W	HARDNESS
SIHARD 2316	1.4122	0,39	max 1,0	max 1,50	17	1,05	max 1,0	/	/	49 HRC
SIHARD 2357	1.2357	0,5	0,3	0,6	3,3	1,5	/	0,2	/	59-61 HRC
SIHARD 2363	1.2363	1	0,3	0,55	5,2	1,05	/	0,2	/	63 HRC
SIHARD 2379	1.2379	1,55	0,25	0,3	11,5	0,7	/	1	/	62-64 HRC
SIHARD 2510	1.2510	0,95	0,25	1,1	0,6	/	/	0,1	0,6	64 HRC
SIHARD 2631	1.2631	0,5	0,9	0,5	8,5	1,2	/	/	1,25	/
SIHARD 2767	1.2767	0,45	0,25	0,3	1,35	0,25	4	/	/	56 RC
SIHARD 2842	1.2842	0,9	0,25	2	0,35	/	/	0,1	/	63-65 HRC

#### PRODUCT RANGE

SIJ GRADE	plate	square	flat	round bars	forgings	welding	electrodes
		sections	sections			wire	
SIHARD 2316	/	•	•	•	•	/	/
SIHARD 2357	/	•	•	•	•	/	•
SIHARD 2363	/	•	•	•	•	•	•
SIHARD 2379	/	•	•	•	•	•	•
SIHARD 2510	/	•	•	•	•	/	/
SIHARD 2631	/	•	•	•	•	•	•
SIHARD 2767	/	•	•	•	•	•	•
SIHARD 2842	/	•	•	•	•	•	•

square sections	up to 400 mm
flat sections	up to 1000 x 400 mm
round bars	up to Ø 600 mm

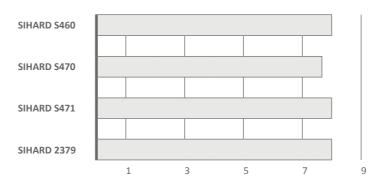


### **SIHARD** S

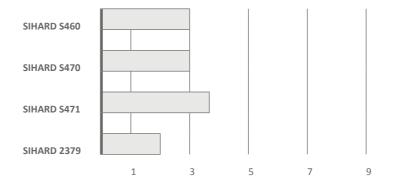
SIHARD S steel grades are developed to achieve higher working hardness in comparison to 12 Cr ledeburitic steels. Improved toughness, great and uniform wear resistance ensures longer knife and tool life. SIHARD S custom made steels are filling the gap between 12 % ledeburitic Cr and high speed steels.

SIJ GRADE		CHEMICA	CHEMICAL COMPOSITION (MAS.%)									
	W. NR.	С	Si	Mn	Cr	Mo	Ni	V	W			
SIHARD S460	/	1	1,1	0,3	8	2,3	/	0,3	/			
SIHARD S470	/	0,9	0,25	0,4	8	1,5	/	2,1	/			
SIHARD S471	/	1,1	1	0,35	7,9	1,5	/	2,1	1,2			

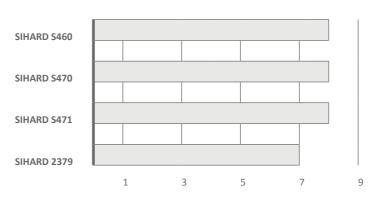
#### **WEAR RESISTANCE**



#### **TOUGHNESS**



#### MAX WORKING HARDNESS





# SITHERM



The **SITHERM** brand encompasses premium-grade high-temperature and hot-work steels. These are used in dynamic loading, and the design and manufacture of ferrous as well as nonferrous metals and steels. SITHERM brand steel is used to manufacture complex tools such as: moulds, die casting tools, high pressure die casting tools, cores, hot cutting and extrusion tools. The tool surface is exposed to cyclic temperature variations and mechanical loadings. In response to this, SITHERM brand steel is characterised by high tempering resistance, great toughness, and ductility by hot in cold conditions.

#### **CHEMICAL COMPOSITION**

SIJ GRADE CHEMICAL COMPOSITION (MAS.%)								ACHIEVED
	W. NR.	С	Si	Mn	Cr	Mo	V	HARDNESS
SITHERM 2343	1.2343	0,38	1	0,4	5,1	1,25	0,4	50 - 56 HRC
SITHERM 2344	1.2344	0,4	1,05	0,4	5,15	1,35	1	52 - 56 HRC
SITHERM 2365	1.2365	0,32	0,25	0,3	2,95	2,8	0,55	44 - 54 HRC
SITHERM 2367	1.2367	0,38	0,4	0,4	5	3	0,6	55 HRC

#### PRODUCT RANGE

SIJ GRADE	plate	square	flat	round bars	forgings	welding	electrodes
		sections	sections			wire	
SITHERM 2343	•	•	•	•	•	•	•
SITHERM 2344	•	•	•	•	•	•	•
SITHERM 2365	/	•	•	•	•	•	•
SITHERM 2367	/	•	•	•	•	•	•

plates	thickness 15 – 100 mm; width 1.000 – 2.500 mm; length 4.000 – 12.000 mm
square sections	up to 600 mm
flat sections	up to 1000 x 500 mm
round bars	up to Ø 1000 mm



# SITHERM S350R

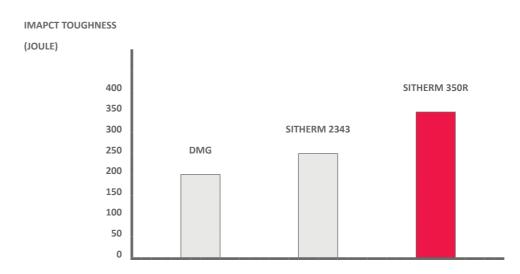
SITHERM S350R, is modified steel grade with high toughness and good termal fatique by the normal range of hardness for hot work applications, like die casting, hot foging.

SIJ GRADE	AISI	W. Nr.	С	Si	Mn
SITHERM S350R	H11 mod	~1.2343	0,36	0,20	0,30

R = remelted

#### **TOUGHNESS**

Un-notched specimens (7 x 10 x 55 mm2) are used to test impact toughness in transverse direction, SEP 1314 (Stahl-Eisen-Prüfblatt SEP 1314-April 1990). Specimens are quenched and tempered to 45+/2 2 HRC, and test is performed at  $20^{\circ}$ C. Average impact toughness of forged quality is higher than 299 Joule for averagae forging size of  $900 \times 400$  mm.



#### QUALITATIVE COMPARISON

SITHERM S350R is premium tool steel of highest toughness produced in SIJ Group. Chart shows its toughness at high temperature compared to SITHERM 2343 and conventional SITHERM 2344 hot-work tool steels. Toll steel with increased toughness at high temperature is critical in applications where there is risk of gross cracking. Properties are measured at 600°C.





### SITHERM S361R

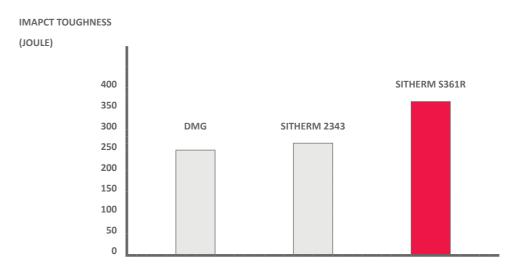
SITHERM S 361R is custom made steel grade with higher impact and fracture toughness at ambient and elevated temperatures; Higher hardness and better wear resistance – reaching higher hardness at equal tempering temperatures or equal hardnesses at elevated tempering temperatures; Higher heat conductivity coefficient; Better through-hardenability.

SIJ GRADE	AISI	W. Nr.	С	Si	Mn	Cr	Mo	V	Ni
SITHERM S361R	/	/	0,37	0,25	0,43	4,90	1,60	0,59	1,6

R = remelted

#### **TOUGHNESS**

Un-notched specimens (7 x 10 x 55 mm) are used to test impact toughness in transverse direction, SEP 1314 (Stahl-Eisen-Püfblatt SEP 1314-April 1990) Specimens are quenched and tempered to 45 + /-2 HRC, and test is performed at  $20^{\circ}$ C. Average impact toughness of forged quality is highter than 299 Joule average forging size of  $900 \times 400$  mm.



#### QUALITATIVE COMPARISON

SITHERM S361R is a premium tool steel of highest toughness produced in SIJ Group. Chart shows its toughness at high temperature compared to SITHERM 2343, conventional SITHERM 2344 hot-work steel and to SITHERM S350R. Tool steel with increased toughness at nigh temperature is critical in applications where there is risk of gross cracking.





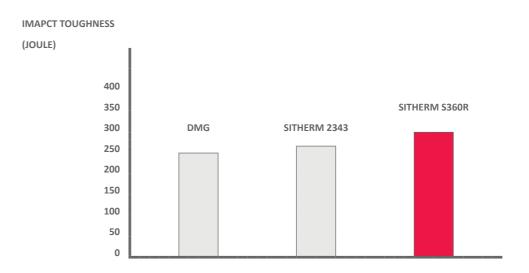
# SITHERM S360R

Due to its enhanced mechanical properties, high hardness, exceptional toughness and wear resistance, SITHERM S360R steel is used in a variety of industrial applications.

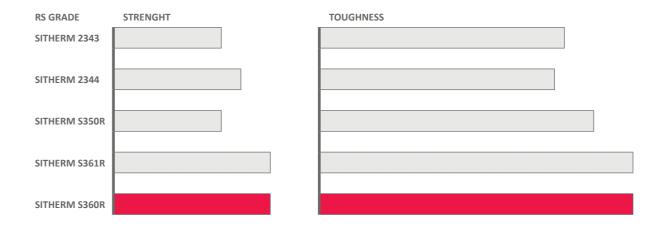
SIJ GRADE	AISI	W. Nr.	С	Si	Mn	Cr	Mo	V	Ni
SITHERM S360R	/	/	0,52	0,25	0,3	4,8	3	0,6	0,6

R...remelted

#### **TOUGHNESS**



#### QUALITATIVE COMPARISON





# SIRAPID



These steels are alloyed with molybdenum and tungsten. **SIRAPID** steels achieve high hardness with both hot and cold rolling, and at the same time provide wear and shock resistance. The SIRAPID high-speed steel is hardened to 62 - 67 HRC, and maintains this hardness well even at the temperatures tool steels are used at. Due to its exceptional properties, SIRAPID steel is used for cutting tools (knives, drill bars, milling cutters, etc., rolls for cold rolling and other cold-work tools.

#### CHEMICAL COMPOSITION

SIJ GRADE		CHEMIC	ACHIEVED					
	W. NR.	С	Cr	Mo	V	W	Co	HARDNESS
SIRAPID 3343	1.3343	0,9	4,1	5	1,9	6,4	/	MIN. 64 HRC
SIRAPID 3355	1.3355	0,75	4,1	/	1,1	18	/	64 - 66 HRC
SIRAPID 3243	1.3243	0,92	4,1	5	1,9	6,4	4,8	64 - 66 HRC
SIRAPID 3247	1.3247	1,1	3,9	9,3	1,2	1,5	8	65 - 68 HRC

#### PRODUCT RANGE

SIJ GRADE	plate	square	flat	round bars	forgings	welding	electrodes
		sections	sections			wire	
SIRAPID 3343	/	•	•	•	/	/	•
SIRAPID 3355	/	•	•	•	/	/	•
SIRAPID 3243	/	•	•	•	/	/	•
SIRAPID 3247	/	•	•	•	/	/	•

square sections	20 to 200 mm
flat sections	40 x 8 to 250 x 80 mm
round bars	Ø 7 to Ø 200 mm

#### TOOL STEEL GRADE RANGE

SIJ	W.Nr.	EN	AISI/ASTM	DIN	METAL RAVNE
DESIGNATION		DESIGNATION	DESIGNATION	DESIGNATION	OLD DESIGNATION
SIMOLD 2083	1.2083	X42Cr13 †		X40Cr14	PK4N
SIMOLD 2085	1.2085				PK4S
SIMOLD 2311	1.2311				UTOPNEX
SIMOLD 2312	1.2312				UTOPN
SIMOLD 2329	1.2329				UTOPNFEX
SIMOLD 2332	1.2332				VCMO145
SIMOLD 2542	1.2542		~S1		OSIKRO2
SIMOLD 2550	1.2550	60WCrV7 †	~S1	60WCrV8	OSIKRO4
SIMOLD 2738	1.2738	40CrMnNiMo8-6-1 †	P20 Mod.	40CrMnNiMo8-6-4	UTOPNIN
SIMOLD S130			P20		UTOPNMO
SIMOLD S150					UTOPNICU
SIHARD 2080	1.2080		D3	X210Cr12	OCR12
SIHARD 2201	1.2201			X165CrV12	OH842
SIHARD 2316	1.2316			X35CrMo17	PK335
SIHARD 2357	1.2357		S7	50CrMoV13-14	OH253
SIHARD 2361	1.2361	X91CrMoV18	440B	X91CrMoV18	OCR6
SIHARD 2360	1.2360			X48CrMoV8-1-1	OH252
SIHARD 2363	1.2363		A2	X100CrMoV5-1	OA2
SIHARD 2369	1.2369			81MoCrV42-16	OH260
SIHARD 2376	1.2376			X96CrMoV12	CRV1
SIHARD 2378	1.2378		D2	X220CrVMo12-2	OCR12V2
SIHARD 2379	1.2379	X160CrMoV 121	D2	X155CrVMo12-1	OCR12VM
SIHARD 2436	1.2436	X210CrW 12 1		X210CrW12	OCR12SP
SIHARD 2601	1.2601	X160CrMoV 12 1		X165CrMoV12	OCR12EX
SIHARD 2631	1.2631			X50CrMoW9-1-1	CRV2
SIHARD 2690	1.2690				CRV3
SIHARD 2721	1.2721			50NiCr13	OH251
SIHARD 2746	1.2746			45NiCrMoV16-6	OH250
SIHARD 2767	1.2767	40NiCrMoV 16		X45NiCrMo4	OH239
SIHARD 2824					OH263
SIHARD S460					OH255
SIHARD S471					OCR8W
SIHARD S670					OCR12VMS
SIHARD K560	1.2360 mod.				OH236
SIHARD K571					OH261
SIHARD K572					OH236NI

SIJ	W.Nr.	EN	AISI/ASTM	DIN	METAL RAVNE
DESIGNATION		DESIGNATION	DESIGNATION	DESIGNATION	OLD DESIGNATION
SITHERM 2343	1.2343	X37CrMoV 51	H11	X38CrMoV5-1	UTOPMO1
SITHERM 2344	1.2344	X40CrMoV 51	H13	X40CrMoV5-1	UTOPMO2
SITHERM 2345	1.2345		Approx. H11	X50CrVMo5-1	UTOPMO4
SITHERM 2362	1.2362		-	X63CrMoV51	OV266
SITHERM 2365	1.2365	30CrMoV 12 11	H10	X32CrMoV33	UTOP33
SITHERM 2367	1.2367		-	X38CrMoV5-3	UТОРМО7
SITHERM 2564	1.2564		-	X30WCrV41	UTOP1
SITHERM 2581	1.2581	X30WCrV 93	H21	X30WCrV9-3	UTOP2
SITHERM 2606	1.2606		H12	X37CrMoW5-1	UTOP3
SITHERM 2662	1.2662			X30WCrCoV9-3	UTOPCO
SITHERM 2747	1.2747			28NiMo17	TMCN1
SITHERM 2885	1.2885		H10A	X32CrMoCoV3-3-3	UTOPCO2
SITHERM 2888	1.2888			X20CoCrWMo10-9	UTOPCO3
SITHERM S150					UTOPEX4
SITHERM S250					UTOPEX3
SITHERM S363			A9		UTOPMONI
SITHERM S570					UTOPMO5
SITHERM R460			A8		UTOPMO6
SIRAPID 3202	1.3202		T15	S12-1-4-5	BRCV
SIRAPID3207	1.3207		T42	S10-4-3-10	BRU
SIRAPID 3243	1.3243	HS6-5-2-5	M35	S6-5-2-5	
SIRAPID 3244	1.3244		M3C1.2+Co		RAVNE30
SIRAPID 3247	1.3247		M42		BRCMO2
SIRAPID 3255	1.3255	HS18-1-1-5	T4	S18-1-2-5	BRC
SIRAPID3265	1.3265	HS18-0-1-10	T5	S18-1-2-10	BRC3
SIRAPID 3302	1.3302		T1,no.Co	S12-1-4	BRW1
SIRAPID 3343	1.3318			S12-1-4	BRW2
SIRAPID3333	1.3333			S3-3-2	BRM
SIRAPID 3343	1.3343	HS6-5-2	M2	S6-5-2	BRM2
SIRAPID 3344	1.3344		M3/2	S6-5-3	BRM3
SIRAPID 3344	1.3344		M3:2	S6-5-3	RAVNE23
SIRAPID 3346	1.3346		M1	S2-9-1	BRM1
SIRAPID 3348	1.3348	HS2-9-2	M7	S2-9-2	BR885
SIRAPID 3351	1.3351		M4		BRM4
SIRAPID 3355	1.3355	HS18-0-1	T1	S18-0-1	BRW



#### RESEARCH AND DEVELOPMENT

SIJ in-house development departments employ a team of highly competent experts, and is constantly being upgraded since our desire to bring the added value to our customers is set on a long-term basis.

#### IN-HOUSE R&D DEPARTMENTS

At SIJ we are constantly striving to find optimal solutions for our clients, according to their needs and application of their products. Therefore we have 3 in-house R&D departments, with more than 90 employees and modern testing equipment including scanning electron microscope with an EDS analyzer, an X-ray diffractometer and a dilatometer along with a mechanical and a chemical laboratory as well as laboratory heat-treatment furnaces.

On yearly basis we carry out more than 100 R&D projects with our clients and win multiple national innovation awards. Newly developed products represent more than 7% of our yearly turnover.

#### COMPETENCE CENTER

Incorporation into a partner development network represents a vital part of our research and development. On one hand, this means a closer cooperation with the top-level knowledge and development institutions, while on the other hand, it brings close cooperation with development departments held by our partners and customers as well as competent consulting.

SIJ is an incorporator and active member of KC IKM competence centre, an organisation where more than 250 engineers and researchers fully equipped with designing, laboratory, prototyping and measurement equipment are actively working in the sphere of new product and solutions development in close cooperation with our customers and end-users of the product.



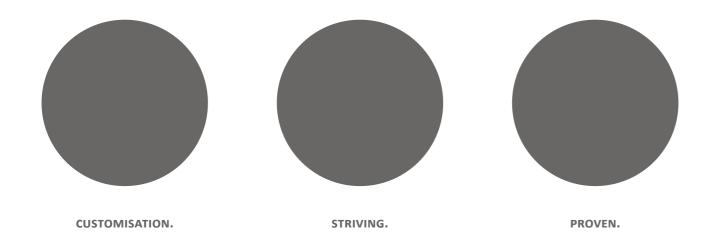
#### QUALITY ASSURANCE

Both of our steel mills are EN ISO 14001:2004, EN ISO 9001:2000 and OHSAS 18001:2007 certified.

SIJ among other departments consists of many well respected accredited and in house laboratories with highly qualified staff, which perform a wide range of calibrations, testing and inspections according to ISO/IEC 17025 and ISO/IEC 17020. Services that laboratories provide are all performed following internal procedures which conform to international standards ISO, EN and ASTM. Main services include:

- Non-destructive testing using RT, MT, PT, UT and VT methods
- Residual stress measuring
- Chemical testing
- Hardness and microhardness testing
- Macroscopic and microscopic metallographic examinations
- Calibration of length gauges and instruments,
   including shape and roughness testing
- Calibration of mechanical quantities: hardness, torque, force, etc.
- Ultrasonic measuring instrument inspection

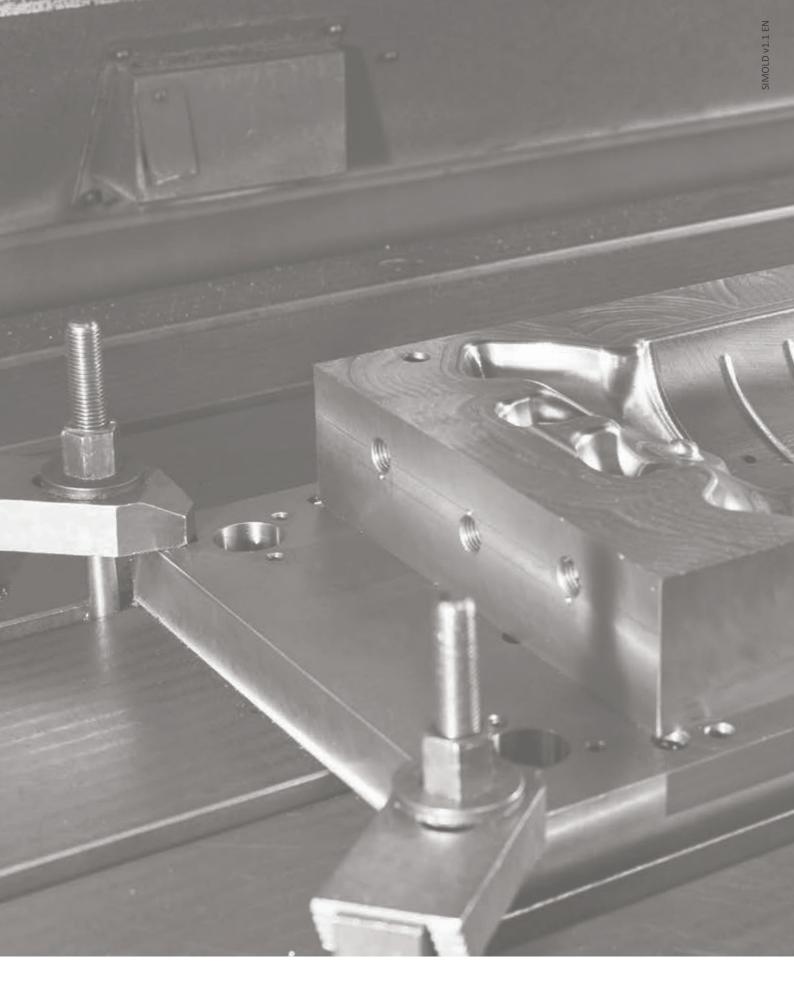
Our work is never truly done; we are a part of an endless process. This is symbolised by the three dots in our corporate logo, and the logos of each SIJ Group product and service brand. Three dots equals three values. Each one stands firmly on its own, and they all stand together, forever. As a sign of trust and quality, they symbolise our three main values, which define who and what we are.







CONTAIN SLOVENIAN STEEL



#### SIJ Group

Gerbičeva 98

1000 Ljubljana www.sij.si