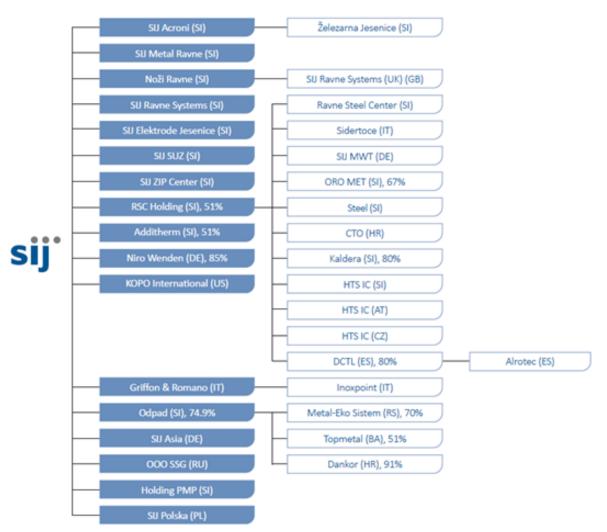




ABOUT SIJ GROUP



KEY FACTS

- SIJ Group is the largest Slovenian steel producer and one of the main producers of special steels in Europe.
- Vertical integration provides full control over the value chain from steel scrap to final product.
- SIJ Group comprises 25 companies.
- SIJ Group head-quarters are located in Ljubljana.

Companies where no percentage of ownership is indicated are under 100-percent ownership of either SIJ d.d. or its subsidiaries.



SIJ METAL RAVNE: TRADITION OF STEELMAKING SINCE 1620

Key facts about SIJ Metal Ravne

sij* metal ravne

SIJ METAL RAVNE MANUFACTURES HIGH-QUALITY TOOL, HIGH-SPEED, STAINLESS, AND SPECIAL STEELS.

- Over 200 different grades
- 400-year tradition in steel making
- Focus on strong own R&D
- 1,000 employees
- 71,000 tonnes of sales products
- Revenues: 155.2 m€
- Niche production
- Worldwide sales network
- Present in more than 50 countries





SIJ METAL RAVNE





WORLDWIDE SALES NETWORK





TRADITION CAN ONLY BE PRESERVED BY DYNAMIC DEVELOPMENT

- Metallurgical researches, development of new steel grades and products,
 implementation and optimization of new technologies.
- Each year a team of 20 developers develops in average from 6 to 10 new steel grades and approx. 100 new products.
- Equipment for testing of end products and development.
- The most important areas of research: VOD steel, VAR steels, super alloys.
- Development supplier for all industrial sectors.
- Engaged in various international projects.
- Winner of numerous awards.





LABORATORIES WITH MODERN RESEARCH EQUIPMENT

OWN LAB FOR:

- Heat treatment
- Mechanical testing
- Optical metallography and electronic microscopy
- X-ray structural analysis
- Dilatometry
- Thermal conductivity at ambient and elevated temperatures
- Testing of tool steels polishability
- Chemical testing





OUR STEELS ARE USED IN NUMEROUS INDUSTRIES













Also: MECHANICAL ENGINEERING, MEDICINE, INDUSTRIAL ROLLS, INDUSTRIAL KNIVES



SIJ METAL RAVNE: THE NAME YOU CAN TRUST

WE ARE TRUSTED BY:









DEVELOPMENT SUPPLIER FOR:

















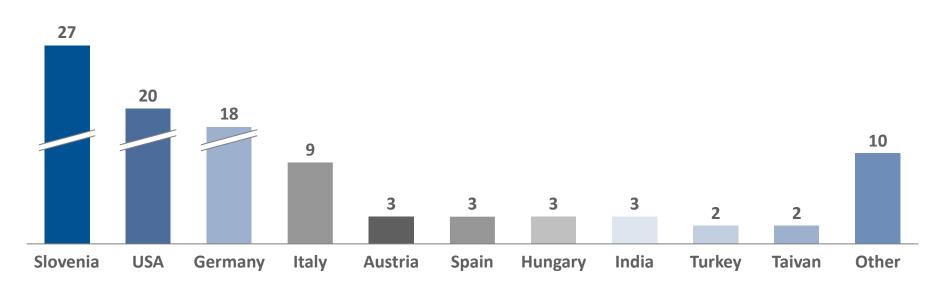






SALES BY MARKETS

In % (for 2020)

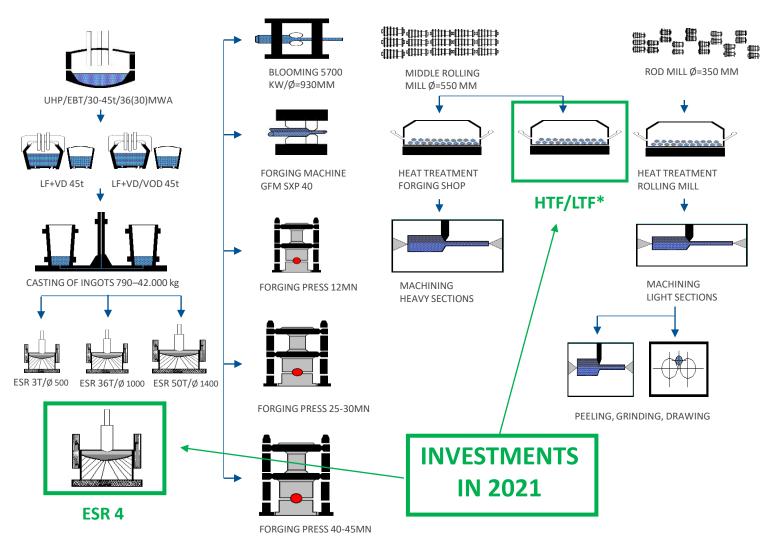








PRODUCTION SCHEME AND 2021 INVESTMENTS



^{*}High Temperature Furnace – Low Temperature Furnace



THE POWER OF OUR BRANDS

SINOXX

STAINLESS AND SPECIAL **STEEL**



HIGH-SPEED STEELS

SIQUAL

ENGINEERING STEEL

- UNALLOYED STRUCTURAL STEEL
- ALLOYED STRUCTURAL STEEL









- ► HOT WORK TOOL STEEL
- COLD WORK TOOL STEEL
- LOW ALLOYED TOOL STEELS







DIMENSIONAL RANGE

ROLLING PROGRAM

BILLETS WITH ROUNDED EDGES

• square: 85-220 mm

• flat: 151-320 mm x 70-130 mm

• length: 2000-5500 mm

WIDE FLAT SECTIONS

• width milled: tolerance +2/-0 mm, thickness rolled: tolerance +4/-0 mm

• width and thickness milled: tolerance +2/-0 mm

• length: 1600–4500 mm

WIDTH x THICKNESS

• 85–150 mm x 70–130 mm

• 151–250 mm x 70–90 mm

• 251-505 mm x 25-90 mm

ROUND SECTIONS

(acc. to EN 10060 standard)

• bars: Ø 15-105 mm

• length: 3000-6000 mm

SQUARE SECTIONS

(acc. to EN 10059 standard)

• square: 25-75 mm

• length: 3000-6000 mm

FLAT SECTIONS

(acc. to EN 10059 and EN 59200 standards)

• width 40-150 mm with thickness 7-65 mm

• width 150-255 mm with thickness 7-50 mm

• length: 3000-6000 mm

PEELED AND PEELED & POLISHED BARS

(acc. to EN 10278 standard)

• bars: Ø 16-80 mm

• length: 2500-6000 mm

GROUND AND GROUND & POLISHED BARS

(acc. to EN 10278 standard)

• bars: Ø 6–80 mm

• length: 2000-4000 mm



DIMENSIONAL RANGE

FORGING PROGRAM

BILLETS

(PRODUCT USED FOR FURTHER HOT FORMING):

round: Ø 90–1000 mm
square: sq. 90–900 mm
length: 2000–10000 mm



FORGED BARS

(acc. to DIN 7527/6 standard):

ROUND FORGED BARS

- Ø 90–950 mm
- length: 2000-10000 mm
- surface finish: unmachined, peeled or turned

FLAT FORGED BARS:

- from 80 x 70 mm to 260 x 120 mm or from 261 x 80 mm to 1600 x 550 mm
- length: 2000-7000 mm
- surface finish: unmachined or milled
- max. width: 1200 mm; max. weight of forging: 10000 kg

SQUARE FORGED BARS:

- •80-850 mm
- length: 2000-7000 mm
- surface finish: unmachined or milled
- max. width: 1200 mm; max. weight of forging: 10000 kg



MACHINED FORGINGS

DIMENSIONS

ROLLS, EXLES, SHAFTS

max. dia.	1000 mm
max. length	10000 mm
max. weight	20000 kg



RINGS, DISCS

max. external dia. 2000 mm max. weight 15000 kg



BUSHES

max. dia. 1400 mm
max. length 2200 mm
max. weight 15000 kg





MECHANICAL ENGINEERING

(rolls, shafts)

HOT-FORMING ROLLS

(for steel, aluminium foil)

MINING INDUSTRY

(shafts, gears)

AUTOMOTIVE

(dies, frames)

SHIPBUILDING INDUSTRY

(shafts, stabilizers)

METALLURGICAL INDUSTRY

(tools, mandrels, extrusion sleeves)

METALWORKING INDUSTRY

(sleeves, rings for cutting dies)

ENERGY INDUSTRY

(turbine shaft housing, sealing rings, shafts)

OIL & GAS INDUSTRY

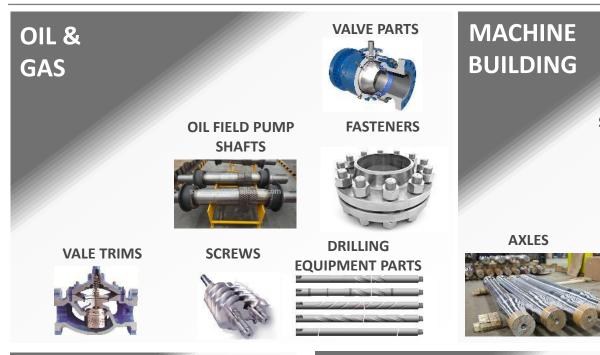
(tubes, connectors)

GRAPHIC INDUSTRY

(rolls for newspaper printing)

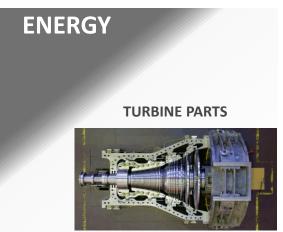


APPLICATION AREAS





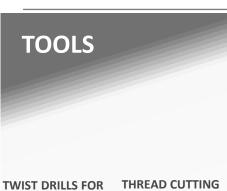








APPLICATION AREAS



STANDARD TOOL **PLATES**



MILLING CUTTERS FOR METAL



TOOLING FOR PLASTIC PROCESSING



DRILLS FOR METAL



METAL

TOOLS







COLD-FORMING ROLLS



ALUMINIUM EXTRUSION DIES

















QUALITY ASSURANCE

CERTIFICATIONS

EN 9100



ISO 14001





OHSAS 18001



ISO/IEC 17025







MEMBER OF ASSOCIATIONS

TÜV SUD

LLOYD'S REGISTER

GET NORSKE VERITAS GERMANISHER LLOYD

NADCA (North American Die Cast Association)

ABS MATERIALS

BUREAU VERITAS – MARINE & OFFSHORE DIVISON

RoHS – RADIOACTIVITY DECLARATION

AEO CERTIFICATION

DNV GL rules for classification—Ships

ASSDA (Australian Stainless Steel Development Association)



VIDEO





