

Short introduction SIJ Metal Ravne d.o.o.

- Integrated steel plant with 400 years history in the production of high value special steels
- 3rd largest producer of tool steels in Europe and Nr. 8 in the world
- High flexibility for special requirements and low minimum production quantities
- Wide range in rolled and forged product sizes
- Very large material grade program as per national and international standards as well as many own developments / special grades for specific demanding applications and/or for extended tool life.

Material grade program:

1) Hot work steels (Brand name **SITHERM**) – all usual standardized grades

Highlights: - **SITHERM S360R and S361R**

Self-developed ESR special grades with excellent hot-strength and -toughness alongwith improved thermal conductivity, specially for use in hot stamping and highly stressed pressure die casting and drop forging tools

2) Cold work steels (Brand name **SIHARD**) – all usual standardized grades

Highlights: - **SIHARD S471**

Tungsten/vanadium alloyed chromium-steel with very high work-hardness and -toughness, much superior to the usual standard grades in regard to wear resistance and cutting strength

- **SIHARD S / K / R series**

Various modifications of the usual standard grades with improved properties

3) Plastic mold steels (Brand name **SIMOLD**) – all usual standardized grades

Highlights - **SIMOLD S131 – 133**

Special grades with increased hardness ranges for improvement of wear resistance and tool life time

- **SIMOLD S150R**

Precipitation hardened steel with high geometric stability at working temperature as well as excellent polishability

4) High speed steels (Brand name **SIRAPID**)

5) Stainless, heat- and acid-resistant steels (Brand name **SINOXX**)

6) Alloyed quality steels (Brand name **SIQUAL**)

ALL GRADES ARE AVAILABLE ALSO IN ESR REMELTED EXECUTION WITH HIGHEST PURITY AND MOST HOMOGENEOUS GRAIN STRUCTURE!

Available sizes:**A) Rolling program**

Round, peeled	15 – 105 mm dia.
Square	25 – 75 mm
Flat	Width 40 – 150 mm x thickness 7 – 65 mm Width 150 – 255 mm x thickness 7 – 50 mm Thickness/Width Relation max. 1:15 für Tool Steel max. 1:18 für Quality Steel
Wide Flat	Width 250 – 505 mm x thickness 26 – 90 mm Edges milled with tolerance + 2 / - 0 mm Thickness tolerance + 4 / - 0 mm

B) Bright Bar program

Round peeled or peeled / polished	16 – 80 mm dia.
Round ground or ground / polished	7 – 80 mm dia.

Tolerances as per EN 10278 h11 – h8 possible

C) Forging program Bars and Blocks

Round, rough turned	90 – 1050 mm dia.
Square	80 – 950 mm
Flat	Width 90 – 2000 mm x thickness 60 – 800 mm
Pieceweight	max. 30.000 kg

D) Open die forgings as per drawing

Largest diameter up to 1050 mm, length up to 10.000 mm, pieceweight up to 27 tons

Discs / Rings up to OD 2500 mm, ID max. 1800 mm

Bushes / Hollow Bars up to OD 1200 mm and ID 200 – 850 mm, length max. 2500 mm