

**PRODUCTS AND SERVICES**



## COMPETENCE CENTRES NOTZ GROUP

About the NOTZ group 

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### **NOTZ METALL AG**

Steel trading 

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Tailor-made precision strip (NOTZINOX®) 

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### **STUDER-BIENNAFORM AG**

Precision flat wire (STUDERINOX®) 

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### **JACQUES ALLEMANN SA**

High precision drawn wire 

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### **VOCO SÀRL**

Flat & drawn wire 

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Laboratory 

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Edge engineering 

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**NOTZINOX®**  
**STUDERINOX®**



## THE NOTZ GROUP TODAY

**Steel trading / Warehousing / Distribution**

**Steel Service Center**

**Steel strip and precision flat wire**

**High precision wire**

- family owned company
- founded 1875
- companies in Switzerland and France
- ISO 9001 and ISO/TS 16949
- 150 employees
- 4500 tons inventory
- 36000 items
- 62000 sqm premise area
- 3000 active customers
- 20000 tons
- CHF 90 mio. turnover
- 2000000 km/year

## STEEL TRADING

### FULL ASSORTMENT IN STAINLESS STEEL

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- sheets & plates
- bars & profiles
- tubes & pipes
- flanges & fittings
- wires

### BARS FOR TURNING PARTS

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- stainless steel
- free cutting carbon steel
- brass
- copperberyllium
- Sandvik 20AP / 4C27A / Finemac
- aluminium
- silver steel
- high-strength ETG88 / ETG100

### TAILOR-MADE PROCESSING

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- PVC-coating
- precision pre-cuts
- deburring
- bar sawing
- centerless grinding
- pointing / chamfering / pin turning

## **TAILOR MADE PRECISION STRIP NOTZINOX®**

### **SLITTING**

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width: 2 – 500 mm

thickness: 0.05 – 3 mm

### **CUT TO LENGTH**

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width: 5– 300 mm

thickness: 0.05 – 3 mm

### **PRECISION ROLLING**

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width: 2 – 100 mm

thickness: 0.05 – 3 mm

### **LEVELLING**

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width: 2 – 300 mm

thickness: 0.05 – 3 mm

### **SIDE AND FLAT STRAIGHTENING**

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width: 2 – 30 mm

thickness: 0.05 – 3 mm

### **EDGE EXECUTION**

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for design see page 19

### **PACKAGING**

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in coils of 1 kg – 50 kg – up to 200 kg or more

### **STEEL GRADE**

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stainless steel, spring steel, carbon steel and alloys

## PRECISION FLAT WIRE STUDERINOX®

### THICKNESS

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0.050 – 2.50 mm

min. tol. +/- 0.001 mm

### WIDTH

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0.20 – 10 mm

min. tol. +/- 0.005mm

### ROLLING RATIO

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up to 1:70 (thickness/width)

### TENSILE STRENGTH

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700 MPa up to 2400 MPa

### EDGE EXECUTION

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for design see page 19

### PACKAGING

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trancanated wound spools  
spools 1 kg – 5kg – 50 kg – up to 400 kg  
straightened bars up to 4 meters length

### STEEL GRADE

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stainless steels and alloys



## HIGH PRECISION DRAWN WIRE

### ROUND WIRE

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Ø 0.005 – 4 mm

min. tol. +/- 0.0005 mm

### MICRO FLAT WIRE

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thickness: 0.002 – 2mm

width: 0.05 – 3 mm

### PINS / AXLES

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Ø 0.05 – 4mm

length: 5 – 1000 mm

### STRAIGHTENED BARS / PROFILES

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Ø 0.15 – 4mm

length: 1000 – 4000 mm

### SPECIAL PROFILES

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$A_{min}$ : 0.50 mm<sup>2</sup>

length: 1000 – 4000 mm

$A_{max}$ : 6.00 mm<sup>2</sup>

### PACKAGING

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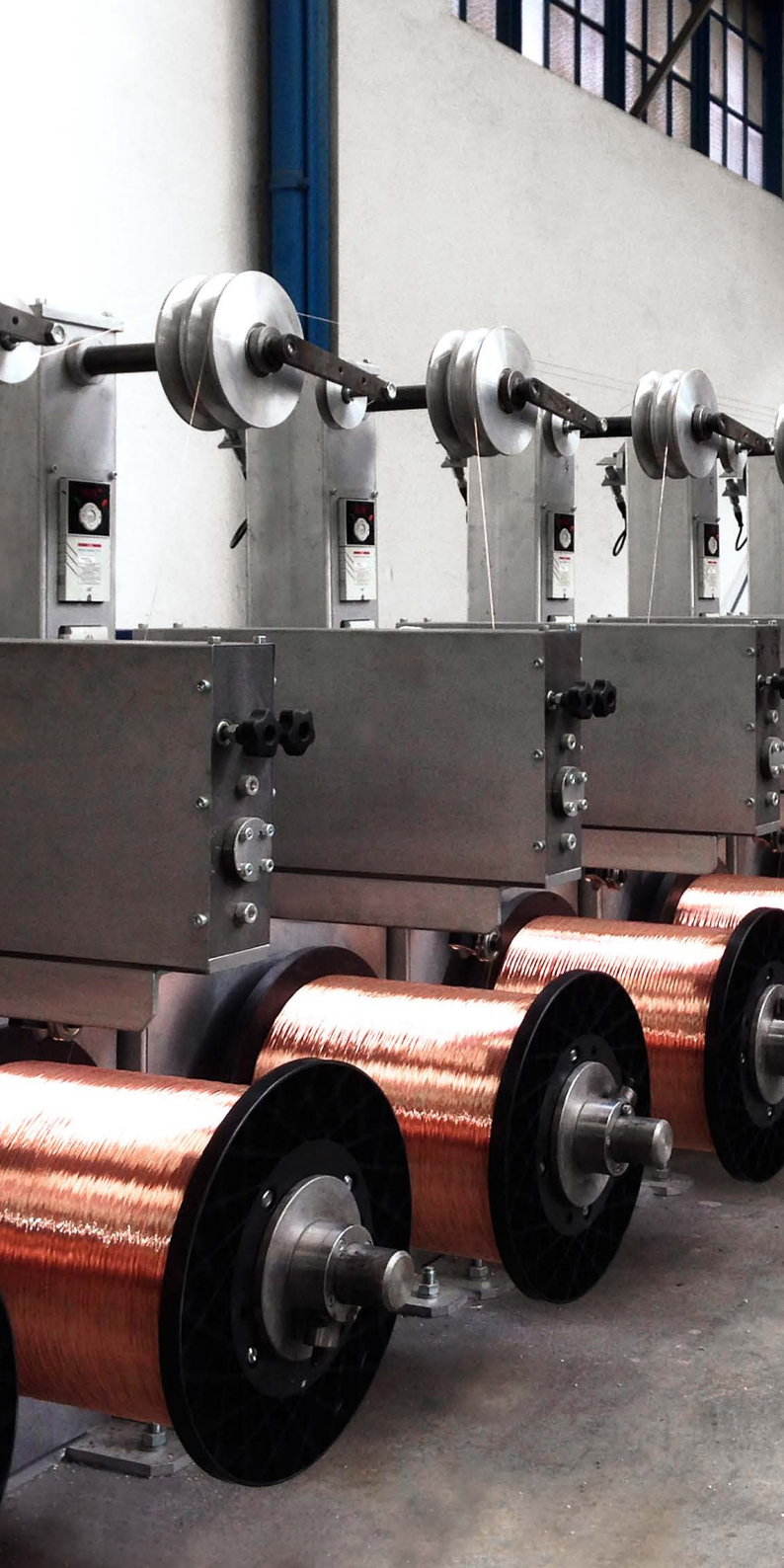
trancanated wound spools or coils

5 gr – 20 gr – 100 gr – up to 50 kg or more

### STEEL GRADE

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stainless steel, carbon steel, non-ferrous metals,  
titanium, tungsten, precious metals and special alloys



## PRECISION ROLLED WIRE & DRAWN WIRE

### COPPER COATED WIRE

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Ø 1.20 – 3.20 mm      Layer thickness 1 – 250 µm  
round and flat wire including annealing

### DRAWN ROUND WIRE

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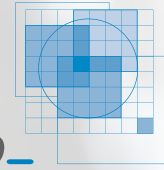
Ø 0.10 – 1 mm      min. tol. +/- 0.001 mm  
tensile strength      500 MPa up to 2500 MPa  
packaging      oscillated wound spools  
2 kg – 10 kg – 50 kg – up to  
400 kg or more  
steel grade:      carbon steel, spring steel,  
stainless steel, mild steel,  
coppered, brass and alloys

### ROLLED FLAT WIRE

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thickness 0.20 – 4 mm      min. tol. +/- 0.01 mm  
width 0.50 – 12 mm      min. tol. +/- 0.05 mm  
rolling ratio      up to 1:15 (thickness/width)  
tensile strength      500 MPa up to 2200 MPa  
edge execution      for design see page 19  
steel grades      carbon and stainless steel  
coatings      galvanized, coppered,  
phosphated





**NOTZ** group  
advanced solutions in metal

## LABORATORY SERVICES

### TENSILE TESTING

with load cells of 500N, 5kN or 10kN (acc. to EN 10002-1)

$$R_{p0.2} / R_{p1.0} / R_m$$

### HARDENING TESTING

Brinell HB (EN 6506-1), Vickers HV (EN 6507-1)

Rockwell HRC (EN 6508-1), micro hardness and hardness curves, EHT

### ROUGHNESS MEASUREMENT

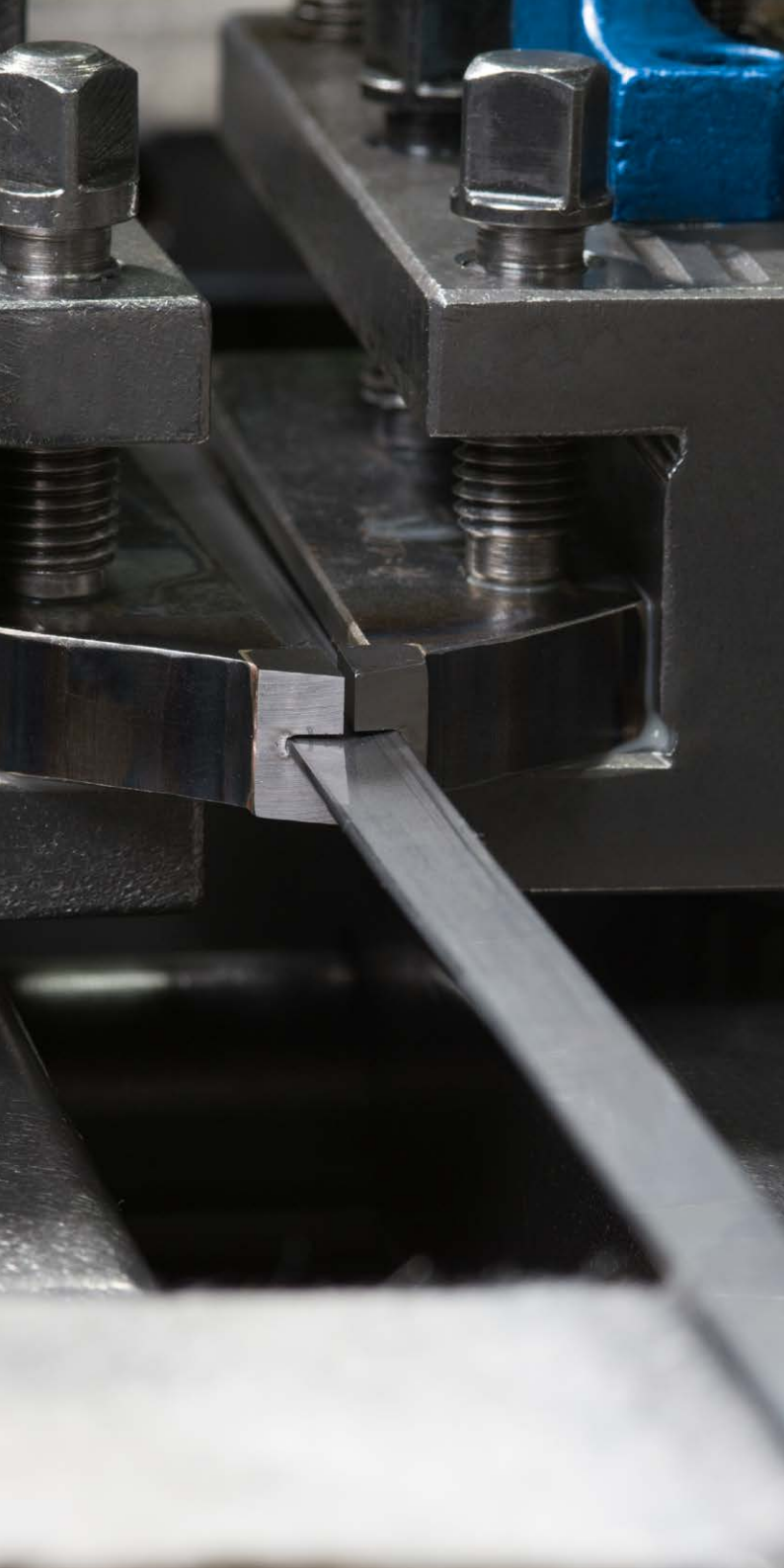
$$R_a / R_z / R_{max}$$

### METALLOGRAPHIC ANALYSE

- Qualitative assessment of structures
- Particle size determination
- Determination of non-metal inclusions
- Inspections of welding seams

### CHEMICAL ANALYSE

- Testing for intercrystalline corrosion acc. to EN3651-2
- Copper sulphate-sulphuric acid process (Strauss test) with sample processing and various forms of heat treatment
- C (carbon), S (sulphur) and ferrite content determination
- Complete spectrometric analyses of materials
- Dye penetrant testing



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## EDGE ENGINEERING

### PRECISION FLAT WIRE & NARROW STRIP

EDGE EXECUTION	FLAT WIRE	STRIP	
	<b>STUDERINOX®</b>	<b>NOTZINOX®</b>	
natural rolled edge [NK]	+/- 0.03 mm	n.a.	<input type="checkbox"/> NK
side rolled edge [TK]	+/- 0.02 mm	n.a.	<input type="checkbox"/> TK
slit edge [GK]	n.a.	+/- 0.10 mm	<input type="checkbox"/> GK
deburred edge [EK]	n.a.	+/- 0.05 mm	<input type="checkbox"/> EK
cut round edge [AK]	+/- 0.005 mm	+/- 0.03 mm	<input type="checkbox"/> AK
special edge [SK]	+/- 0.005 mm	+/- 0.03 mm	<input type="checkbox"/> SK



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