

**PRODUCTS AND SERVICES**

## COMPETENCE CENTERS NOTZ GROUP

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#### NOTZ METALL AG

Steel trading 5

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### INDUSTRY DIVISION

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**NOTZINOX®**

**STUDERINOX®**



## FACTS & FIGURES

### Manufacturing / Steel trading / Stockholding / Distribution

- Production of
  - precision strip and foil,
  - fine drawn and cold-rolled wire
  - bars and profiles
- family owned company
- founded 1898
- locations in Switzerland and France
- ISO 9001:2015
- over 200 employees
- 4'500 tons inventory
- 62'000 sqm premise area
- 3'500 active customers
- over 20'000 tons delivered p.a
- CHF 110 m annual turnover



## STEEL TRADING

### FULL ASSORTMENT IN STAINLESS STEEL

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

### BARS FOR TURNED PARTS

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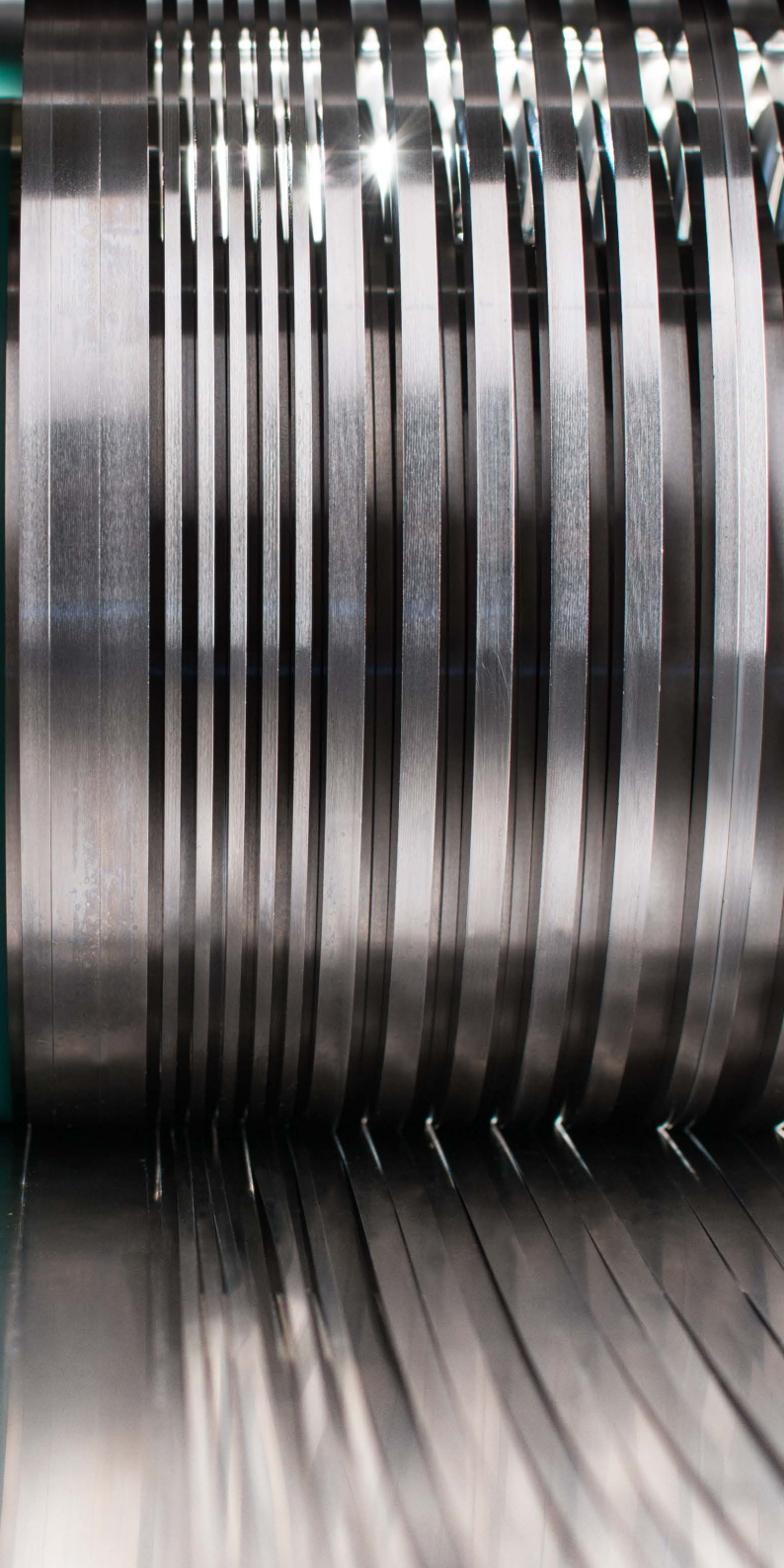
- stainless steel
- free cutting carbon steel
- brass
- copper beryllium
- Sandvik 20AP / 4C27A / Finemac
- aluminium
- silver steel
- high-strength ETG88 / ETG100

### TAILOR-MADE PROCESSING

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





## STRIP SERVICE CENTER 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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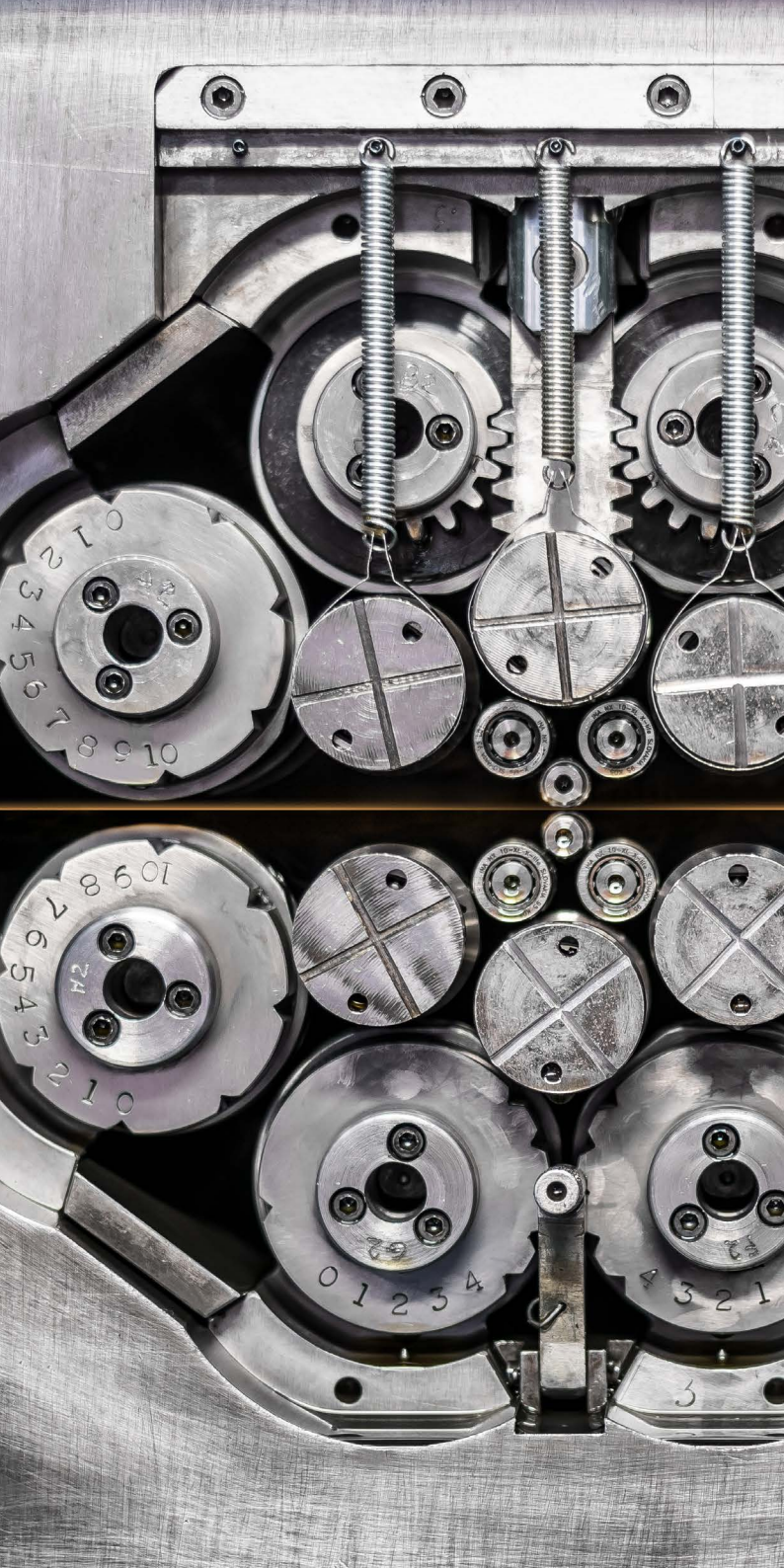
in coils of 1 kg - 50 kg - up to 200 kg or more

### GRADES

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stainless steel, spring steel, carbon steel and other alloys





*Lamineries*  
**MATTHEY**

## HIGH PRECISION COLD ROLLED STRIPS & FOILS

### DIMENSIONS

width: 1 – 230 mm

thickness: 0.005 – 2.5 mm

### CORE COMPETENCES

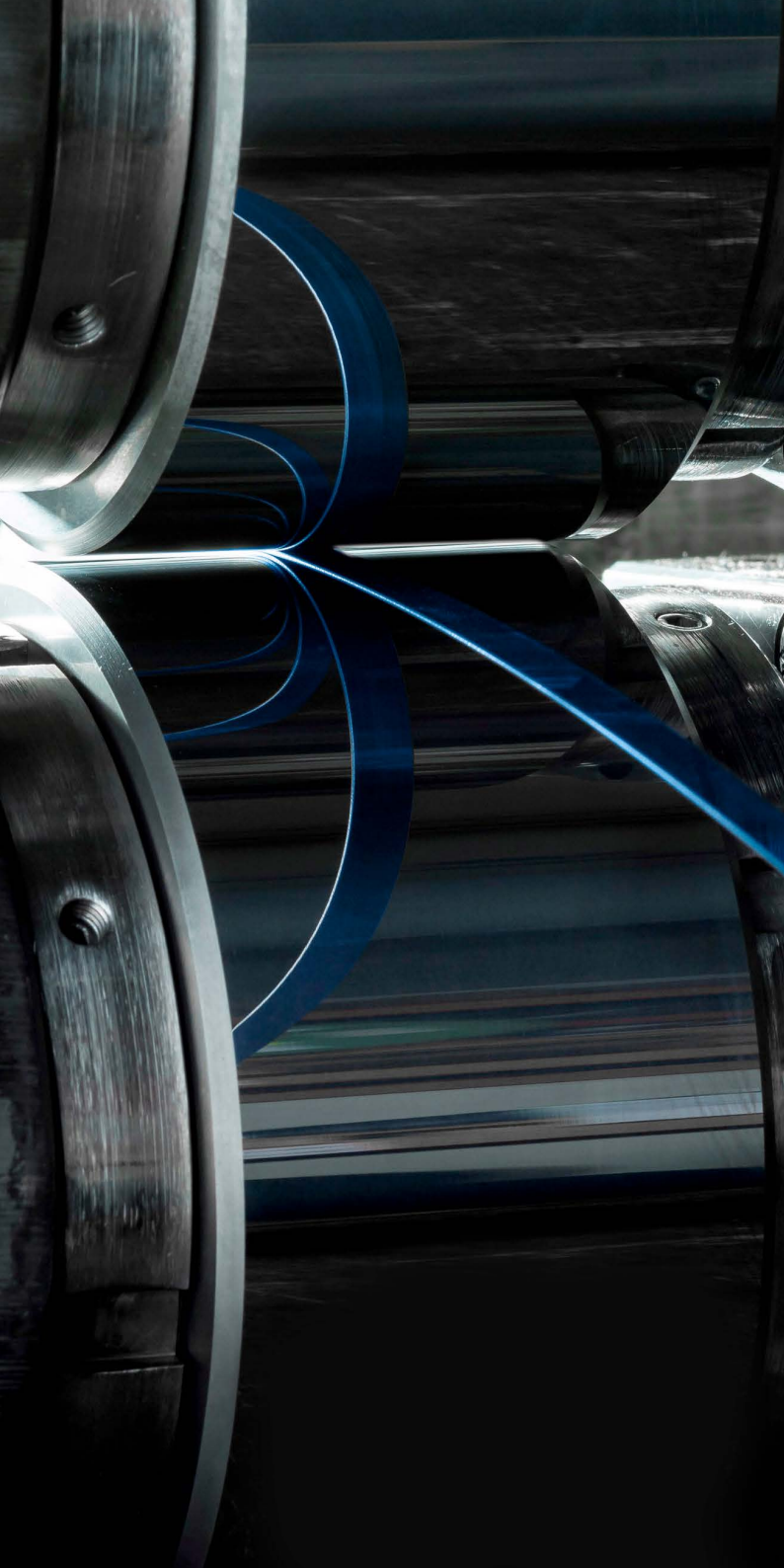
custom-made speciality products  
cold rolling • levelling • stretch bend-levelling  
brushing & polishing • heat treatment

- ultra-tight tolerances  
flatness, evenness, straightness, width, thickness
- special surface finishes, controlled surface roughness
- dedicated mechanical properties, narrow tolerances
- small MOQ for precise custom products

### GRADES

broad range of alloys and metals, with emphasis on specialties from prime producers:

- copper beryllium, Brushform 158®
- maraging steels: Durnico® - Phyttime®, Titanium
- cobalt alloys: Phynox® - Duratherm® - MP35N®
- magnetic alloys: Mumetal - Supermimphy® - Supra50®
- titanium, nickel & stainless steel, etc.



## 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 1:50 (thickness/width)

### TENSILE STRENGTH

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700 MPa up to 2'400 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

### GRADES

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stainless steel and alloys





## HIGH PRECISION DRAWN WIRE

### ROUND WIRE

Ø 0.005 - 4 mm

min. tol. +/- 0.0005 mm

### MICRO FLAT WIRE

thickness: 0.002 - 2mm

width: 0.05 - 3 mm

### PINS / AXLES

Ø 0.05 - 4mm

length: 5 - 1'000 mm

### STRAIGHTENED BARS / PROFILES

Ø 0.15 - 4mm

length: 1'000 - 4'000 mm

### SPECIAL PROFILES

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

length: 1'000 - 4'000 mm

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

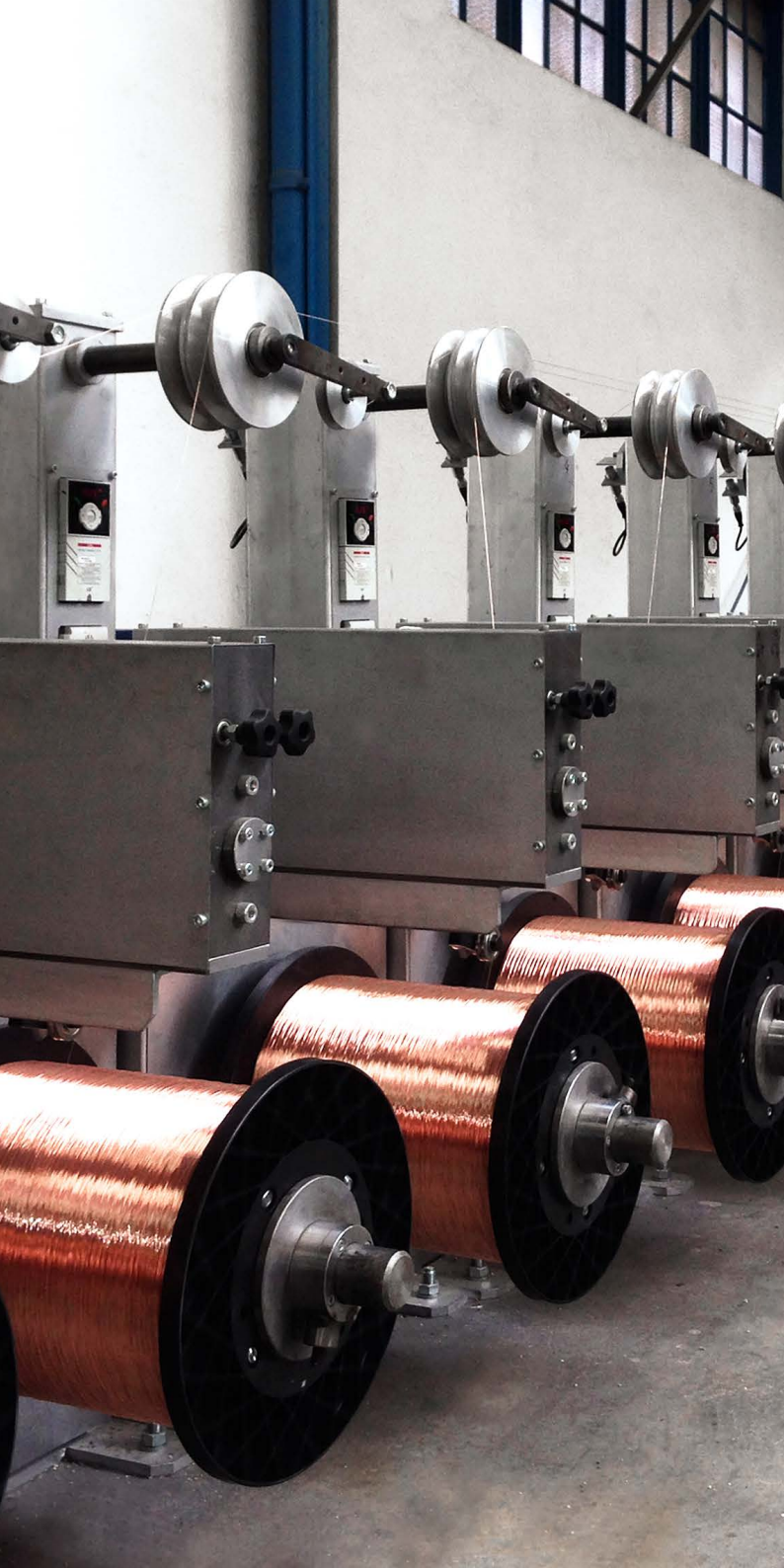
### PACKAGING

trancanated wound spools or coils

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

### GRADES

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 2'500 MPa  
packaging      oscillated wound spools  
2 kg - 10 kg - 50 kg - up to  
400 kg or more  
steel grades:      carbon steel, spring steel,  
stainless steel, mild steel,  
coppered, brassed 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 2'200 MPa  
edge execution      for design see page 19  
steel grades      carbon and stainless steel  
coatings      galvanized, coppered,  
phosphated





## LABORATORY SERVICES

### TENSILE TESTING

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

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

### HARDNESS TESTING

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

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

### ROUGHNESS MEASUREMENT

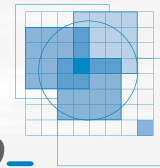
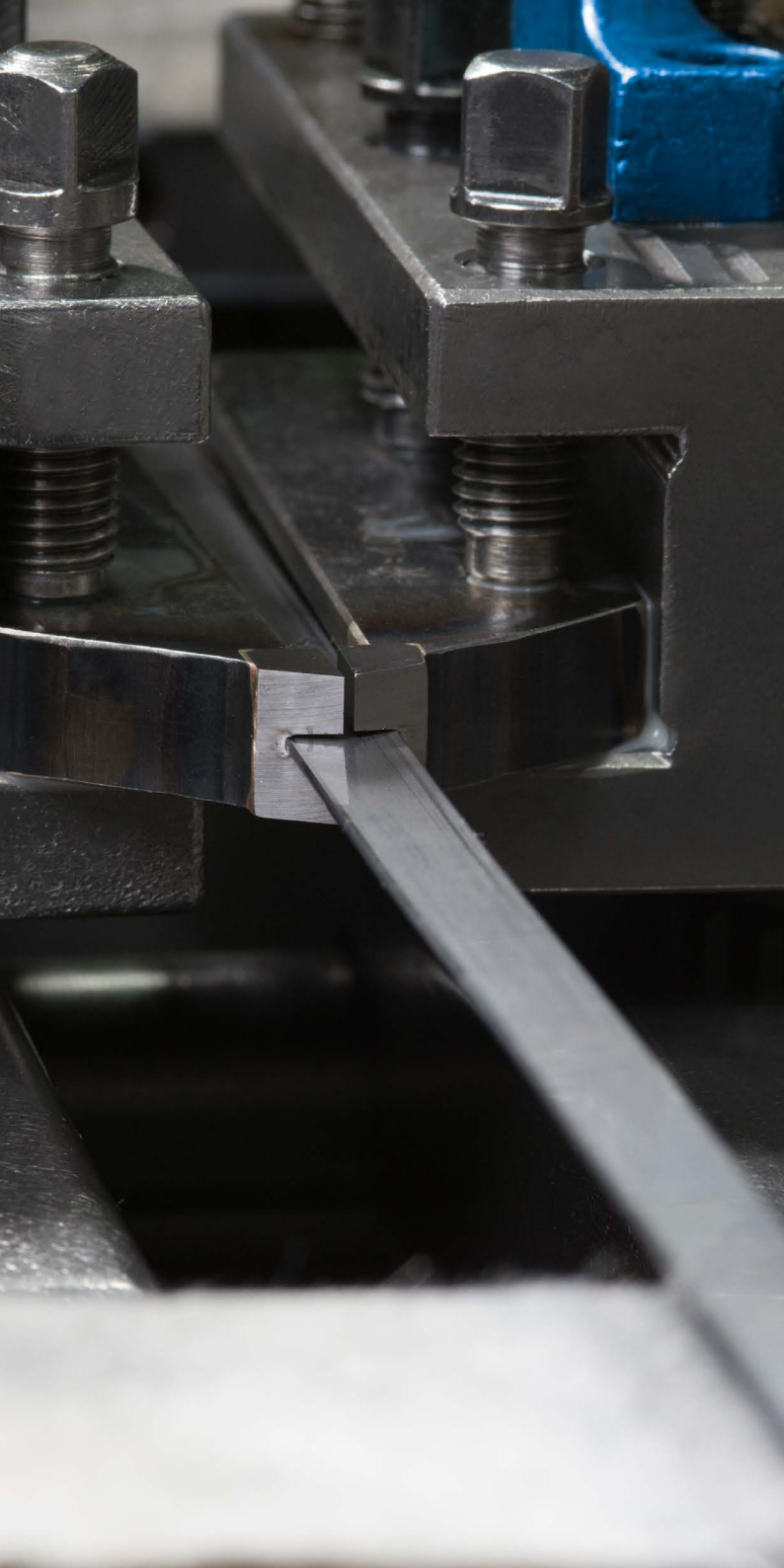
$$R_a / R_z / R_{max}$$

### METALLOGRAPHIC ANALYSIS

- qualitative assessment of structures
- particle size determination
- determination of non-metal inclusions
- inspections of welding seams

### CHEMICAL ANALYSIS

- 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 analysis of materials
- dye penetrant testing



**NOTZ** group\_   
 advanced solutions in metal

## EDGE ENGINEERING

### PRECISION FLAT WIRE & NARROW STRIP

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EDGE EXECUTION	FLAT WIRE	STRIP	
natural rolled edge [NK]	+/- 0.050 mm	n.a.	<input type="checkbox"/> NK
side rolled edge [TK]	+/- 0.030 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]	+/- 0.020 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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