

# PRODUCTS & SERVICES



**NOTZ**  
group

*advanced metal solutions*

# FACTS & FIGURES

Trading, warehousing, production, distribution



Founded in  
**1898**



**CHF 135 million**  
Turnover



**4-6**  
apprentices  
annually



Family-owned  
company, in its  
4th generation



**>3,500**  
active customers



**>25% export ratio**  
average  
at Group level



HQ in **Brügg**, and 3 other  
sites in Switzerland, 2 in  
France



**8,200 tonnes of**  
inventory



**290**  
employees



**Over 20,000**  
deliveries  
per year



**ISO**  
9001:2015

# BUSINESS DIVISIONS

## TRADING DIVISION

Trading • Warehousing • Distribution

### NOTZ METAL INC.

Sheets & plates, bars & metal profiles, tubes & fittings

5

### DUBOURGEAL SAS

Rods, profiles & lubricants

7

## INDUSTRY DIVISION

Manufacturer of customer- and project-specific solutions

### STEEL SERVICE CENTER

Service Center for high-precision strips & plates

9

### LAMINERIES MATTHEY

Cold-rolled high-precision strips & foils

11

### WEBER + CALIBRA SA

High-precision strips & stamped parts from non-ferrous metals

13

### STUDER-BIENNAFORM

Cold-rolled high-precision flat wires

15

### JACQUES ALLEMANN

High-precision wires, axes, rods & profiles

17

### VOCO SARL

Carbon steel wires copper-plated, drawn, rolled

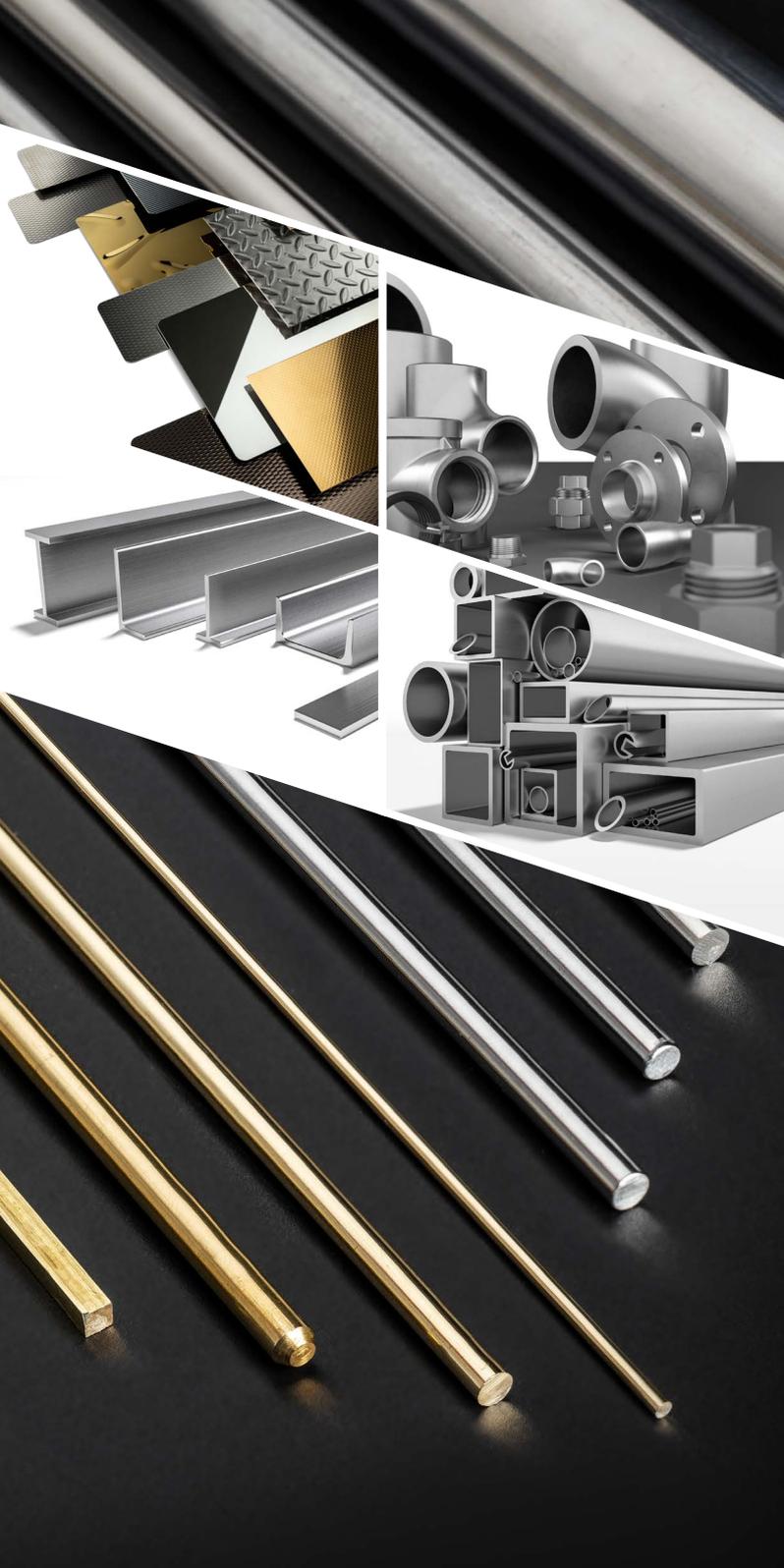
19

Edge engineering

21

Laboratory services

23



## TRADING

### OUR PRIMARY MARKETS

---

- Watchmaking, electrical and automotive industries
- MedTech and Aerospace
- Food and pharmaceutical industry
- Equipment and machinery industry
- Mechanical workshops and sheet metal work
- Building, infrastructure and architecture (design)

### FULL RANGE OF STAINLESS STEEL PRODUCTS

---

- Sheets & plates
- Rods & profiles
- Tubes & fittings (incl. food and pharmaceutical industry)

### ALLOYS

---

- Stainless steel (low-CO2 alloys)
- Free cutting steel
- High-strength steel ETG88 / ETG100
- Silver steel
- 20AP / 4C27A / Finemac
- Copper alloys (brass, bronze, nickel silver) in rods and barrels  
– lead-free alloys
- Aluminium
- Titan
- Special materials for medical, aerospace and aeronautical applications

### SERVICES

---

- Consulting
- Raw material procurement, stocking and supply chain services
- Processing
  - ◆ PVC film coating
  - ◆ Precision pre-cuts
  - ◆ Centerless cylindrical grinding
  - ◆ Pointing, chamfering, pin turning, deburring

## RODS, PROFILES & LUBRICANTS

### OUR PRIMARY MARKETS

---

- Subcontracting to bar turners and the machining industry in general
- Automotive and electrical industry
- Appliances and consumer goods
- Sanitary and civil armament

### PRODUCT RANGE

---

- Rods, profiles & wires
- Lubricants for machining processes

### LARGE SELECTION OF NON-FERROUS METALS

---

- Brass
- Bronze
- Copper
- Aluminium
- Notz Metal Inc. products

### PROCESSING

---

- Deburring
- Pointing, chamfering

### DISTRIBUTOR

---

- Fuchs
- Mobil
- MotulTech



## SERVICE CENTER FOR HIGH-PRECISION STRIPS & PLATES

### **LENGTHWISE SLITTING - DIMENSION RANGE**

---

Width: 2 - 500 mm

Thickness: 0.05 - 3 mm

### **CROSS AND LENGTHWISE CUTTING**

---

Width: 5 - 300 mm

Thickness: 0.05 - 3 mm

In straightened strips from 100 - 6 000 mm, other lengths available on request

### **HIGH-PRECISION ROLLING**

---

Width: 2 - 50 mm

Thickness: 0.10 - 3 mm

### **FLATTENING AND STRAIGHTENING**

---

Width: 2 - 30 mm

Thickness: 0.05 - 3 mm

### **EDGE FINISHING**

---

For design details, see page 21

### **PACKAGING**

---

In coils of 1 kg - 50 kg - other packaging available on request

### **PLATES (STAINLESS & CARBON STEEL)**

---

Width: 2 - 300 mm / 600 mm / 650 mm

Length: 2 000 mm

Thickness 0.05 - 1.5 mm

Further dimensions on request

### **ALLOYS**

---

Stainless steel, spring steel, Notz 70 blue, Notz 70 annealed - other alloys available on request

## HIGH-PRECISION STRIPS & FOILS

### DIMENSIONS

---

Width: < 1 - 230 mm

Thickness: 0.0038 - 2.5 mm

### CORE COMPETENCIES

---

Custom-made specialised products:

Cold rolling • Stretch levelling • Stretch bend levelling • Brushing  
Heat treatment • Slitting

- Ultra-tight tolerances:  
Flatness, evenness, straightness, width, thickness
- Special surface finishes, controlled surface roughness
- Defined mechanical properties with narrow tolerances
- Small minimum quantities for high-precision specialised products

### ALLOYS

---

Wide range of alloys and metals with an emphasis on specialised products from premium suppliers:

- Copper and Nickel beryllium, Brushform 158<sup>®</sup>
- Maraging steel: Durnico<sup>®</sup>, Durinox<sup>®</sup> and Phytyme<sup>®</sup>
- Cobalt alloys: Phynox<sup>®</sup>, Duratherm<sup>®</sup>, MP35N<sup>®</sup>, L-605<sup>®</sup>
- Magnetic alloys: Mumetal, Supermimphy<sup>®</sup>, Supra50<sup>®</sup>, Permenorm<sup>®</sup>
- Non-ferrous metals: copper, brass, nickel, nickel silver, ARCAP<sup>®</sup> and bronze
- Stainless steel
- Titanium, Alloy 718, Alloy C276, Durnomag<sup>®</sup>, Alloy C22

## HIGH-PRECISION STRIPS & STAMPED PARTS MADE FROM NON-FERROUS METALS

### DIMENSIONS

Width: 5 - 143 mm  
Hardness: 250 HV max.

Thickness: 0.10 - 3.50 mm  
Straightness: up to 1 mm/m

### STAMPED PARTS

Barquettes

Dimensions:

50 x 50 mm  
46 x 46 mm

Thickness:

0.90 - 3.50 (4.5) mm

Flatness:

± 0.02 mm

Geometry:

With/without positioning holes

Discs

Dimensions:

Ø 14 - 63 mm

Thickness:

0.15 - 2.00 mm

Geometry:

Round

Other dimensions and geometries available on request

### ALLOYS

Wide selection of materials with an emphasis on non-ferrous metals:

- Lead-free and standard brass (with lead)
- Nickel silver with or without lead, ARCAP®
- Copper, Tombac (CuZn15)
- Bronze, Chrysocale (CuSn3Zn9)
- Aluminium, Peraluman
- Soft magnetic iron (RFe80)

## COLD-ROLLED HIGH-PRECISION FLAT WIRES

### WIDTH

---

0.20 - 9.00 mm

min. tol. +/- 0.008 mm

### THICKNESS

---

0.050 - 2.50 mm

min. tol. +/- 0.001 mm

### ROLLING RATIO

---

Up to 1:50 (thickness/width)

### TENSILE STRENGTH

---

200 MPa up to 2 200 MPa - depending on alloy

### EDGE FINISHING

---

For design details, see page 21

### PACKAGING

---

Winded oscillated on spools

Spools 1 kg - 5 kg - 50 kg - up to 400 kg

Spools made from wood, metal and plastics

### ALLOYS

---

Processing of 50 different alloys, e.g. stainless steel, Phynox, non-ferrous metals, special alloys

Other dimensions or tighter tolerances in consultation

# HIGH-PRECISION WIRES, AXES, RODS & PROFILES

## ROUND WIRE

Ø 0.025 - 4 mm      min. tol. +/- 0.5 microns (µm)  
(Ø < 0.025 mm on request)

## MICRO FLAT WIRE

Width: 0.05 - 5 mm      Thickness: 0.010 - 2 mm  
min. tol. +/- 0.001 mm

## RODS

Ø 0.10 - 4 mm      Length: 1 000 - 6 000 mm  
min. tol. +/- 0.2 mm

## EDGE FINISHING

For design details, see page 21

## AXES

Ø 0.05 - 10 mm      Length: 3 - 1 000 mm  
min. tol. +/- 0.001 mm      min. tol. +/- 0.10 mm

## SPECIAL PROFILES

$A_{min}$  : 0.50 mm<sup>2</sup>      Wires, rods or axes  
 $A_{max}$  : 6.00 mm<sup>2</sup>

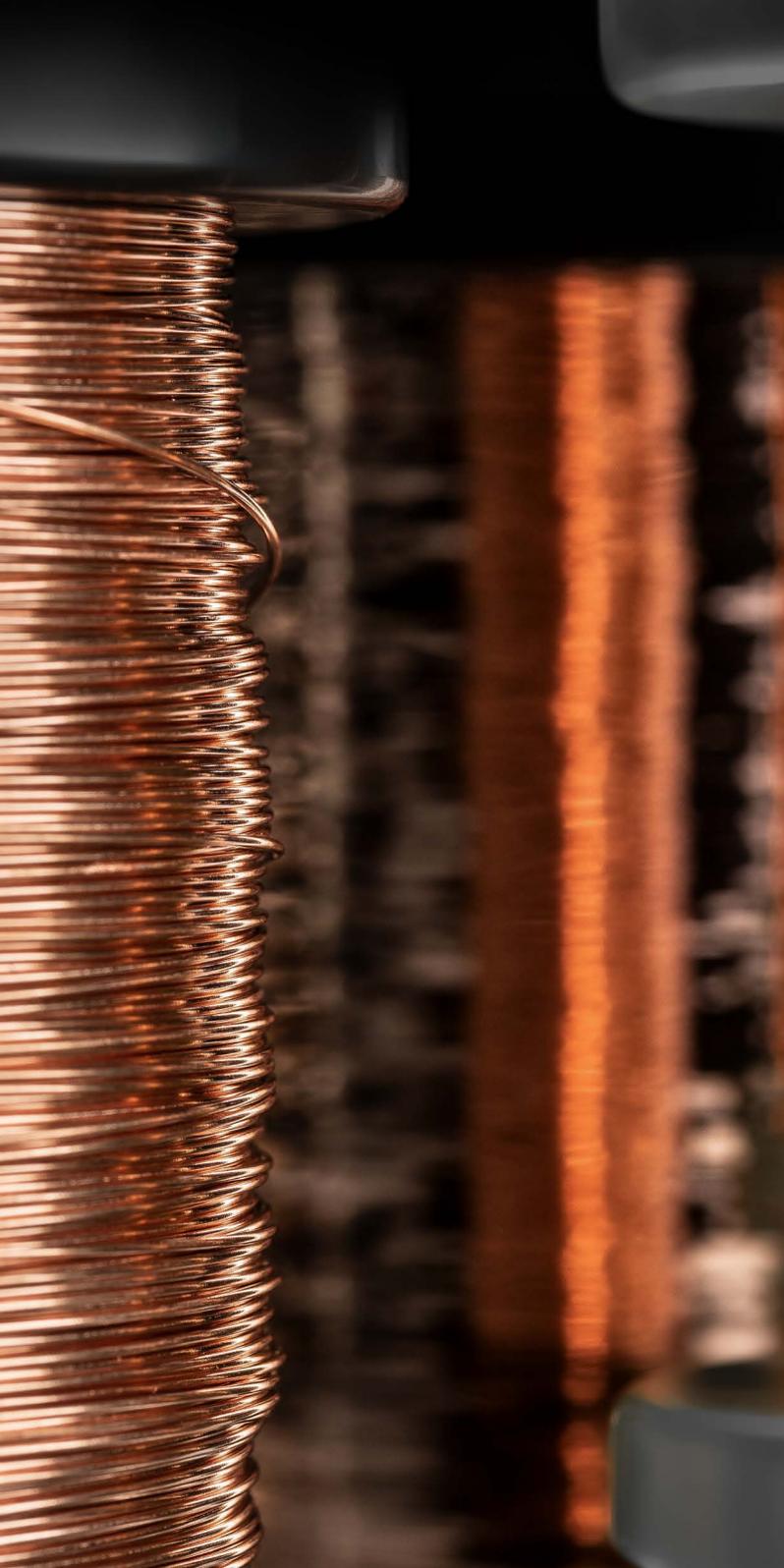
## PACKAGING

Spools, rings, tubes and boxes

## ALLOYS

More than 250 alloys processed, e.g. stainless steel, non-ferrous metals, hafnium, titanium, cobalt alloys, Phynox®, Nivaflex®, tungsten, precious metals and all cold-workable alloys (e.g. 1.4452), lead-free variants





## CARBON STEEL WIRE COPPER-PLATED, DRAWN, ROLLED

### COPPER-PLATED CARBON STEEL WIRE

---

Ø 0.15 - 1.80 mm	
Layer thickness	0.30 - 12 µm
Tensile strength	350 - 2 500 Mpa
Elongation	3 - 40%
Electrical resistance	0.250 - 0.900 Ω/m
Packaging	50 kg - 100 kg - 400 kg

### DRAWN ROUND WIRE

---

Ø 0.10 - 1.4 mm	min. tol. +/- 0.001 mm
Tensile strength	500 MPa up to 2 500 MPa
Elongation	3 - 40%
Packaging	2 kg - 10 kg - 50 kg or more
Alloys	Carbon steel, spring steel, copper-plated steel, stainless steel, special alloys

### ROLLED FLAT WIRE

---

Width	max. 12 mm, min. tol. ± 0.05 mm
Thickness	min. 0.20 mm, min. tol. ± 0.01 mm
Tensile strength	500 up to 2'200 MPa
Edge engineering	Natural rolled edge (NK)
Alloys	Carbon steel, stainless steel, spring steel
Coatings	Copper-plated, electrolytic, phosphated
As well as	Knitted flat wire mesh

## EDGE ENGINEERING

### STRIP STEEL – STEEL SERVICE CENTER

EDGE FINISHING	TOLERANCE	FORM
Cut edges [GK]	+/- 0.10 mm	
Deburred edges [EK]	+/- 0.05 mm	
Rounded edges [AK]	+/- 0.05 mm	

The information provided represents the optimal tolerances. These are not standard tolerances.

Tolerances must be confirmed in advance in each case.

### HIGH PRECISION FLAT WIRE – STUDER-BIENNAFORM

EDGE FINISHING	TOLERANCE	FORM
Natural rolled edges [NK]	+/- 0.050 mm	
Rolled edges [TK]	+/- 0.020 mm	
Rounded edges [AK]	+/- 0.008 mm	
Special edges [SK]	+/- 0.008 mm	

### MICRO-FLAT WIRE – JACQUES ALLEMANN

EDGE FINISHING	TOLERANCE	FORM
Natural rolled edges [NK]	+/- 0.001 mm	
Rolled edges [TK]	+/- 0.001 mm	
Rounded edges [AK]	+/- 0.001 mm	

## LABORATORY SERVICES

### TENSILE STRENGTH TESTING

---

With load cells of 500N, 5kN or 10kN (EN 10002-1)

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

### HARDNESS TESTING

---

Vickers HV (EN 6507-1), micro hardness and hardness curves, EHT

### ROUGHNESS MEASUREMENT

---

$R_a / R_z / R_{max}$

### METALLOGRAPHIC ANALYSIS

---

- Qualitative assessment of structures
- Particle size specification
- Measurement of non-metallic inclusions
- Inspection of welding seams

### CHEMICAL ANALYSIS

---

- Testing for intercrystalline corrosion (EN 3651-2)
- Copper sulphate-sulphuric acid process (Strauss test) with sample preparation and heat treatment
- Complete spectrometric analysis of materials
- Dye penetration testing
- Measurement of C (carbon) and S (sulphur) content with help of carrier gas hot extraction analysis
- Measurement of ferrite content with help of the FERITSCOPE



## **NOTZ METAL**

STAINLESS STEEL & ALLOYS

Bahnstrasse 18b  
CH-8603 Schwerzenbach  
T + 41 44 908 32 00  
[www.notzmetall.ch](http://www.notzmetall.ch)

## **NOTZ METAL**

STAINLESS STEEL & ALLOYS

Bernstrasse 24  
CH-2555 Brugg  
T + 41 32 366 75 55  
[www.notzmetall.ch](http://www.notzmetall.ch)

## **DUBOURGEAL**

METAUX & LUBRIFIANTS

523 route de la Plaine  
F-74300 Thyez  
T + 33 4 50 98 25 93  
[www.dubourgeal.fr](http://www.dubourgeal.fr)

## **NOTZ SERVICE CENTER**

PRECISION STEEL STRIP

Bernstrasse 24  
CH-2555 Brugg  
T + 41 32 366 73 77  
[www.notzmetall.ch](http://www.notzmetall.ch)

## **LAMINERIES MATTHEY**

ROLLED STRIP & FOIL

Rue Montagu 38  
CH-2520 La Neuveville  
T + 41 32 752 32 32  
[www.matthey.ch](http://www.matthey.ch)

## **WEBER CALIBRA**

ROLLED STRIP & STAMPING

Sur le Brassiège 5A  
CH-2650 Sonceboz  
T + 41 32 489 23 79  
[www.webercalibra.ch](http://www.webercalibra.ch)

## **STUDER BIENNAFORM**

PRECISION FLAT WIRE

Bernstrasse 24  
CH-2555 Brugg  
T + 41 32 344 70 00  
[www.studersa.com](http://www.studersa.com)

## **JACQUES ALLEMANN**

PRECISION DRAWN WIRE

Bernstrasse 24  
CH-2555 Brugg  
T + 41 32 485 15 66  
[www.jacques-allemann.ch](http://www.jacques-allemann.ch)

## **VOCO**

FLAT & COPPERED WIRE

Rue des Tilleuls - BP 48  
F-68210 Dannemarie  
T + 33 3 89 08 07 20  
[www.voco.ch](http://www.voco.ch)



[WWW.NOTZGROUP.COM](http://WWW.NOTZGROUP.COM)