

ZAPP

24/7

GLOBAL PRECISION STRIP

2 Mills 4 Service Centers / 7 Days a week





precise.

consistent.

reliable.

YOUR WISH IS OUR MISSION.

0203

PRECISION STRIP GLOBAL

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THE GLOBAL ZAPP GROUP

>300

YEARS

---

15

LOCATIONS

---

1,300

EMPLOYEES

---

500

M USD SALES

---



SOLUTIONS



FROM PAST  
GENERATIONS  
FOR FUTURE  
GENERATIONS





Sandviken

Sheffield

Unna

Ratingen

Schwerte

Pforzheim

Pune

Hong Kong

Taicang

We are here

**Unna / 228 Employees**

**Strip**, Service Center Europe and Tooling Alloys

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**Dartmouth / 51 Employees**

**Strip**

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**Service Center Stratford / 21 Employees**

**Strip**

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**Service Center Santa Fe Springs / 14 Employees**

**Strip**

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**Service Center Taicang / 27 Employees**

**Strip**, Wire, Bar, Profile,  
Specialty Materials, Tooling Alloys

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**Sales Office Pune / 2 Employees**

**Strip**, Wire, Bar, Profile, Tooling Alloys,  
Specialty Materials

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**Summerville / 65 Employees**

Wire, Bar, Profile, Sales Tooling Alloys

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**Schwerte / 520 Employees**

Wire, Bar, Profile, Service Center Specialty Materials

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**Ratingen / 70 Employees**

Sales Specialty Materials, Tooling Alloys

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**Pforzheim / 80 Employees**

Profiles, Components

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**Service Center Sheffield / 8 Employees**

Wire, Bar, Profile

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**Service Center Gurnee / 9 Employees**

Tooling Alloys

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**Service Center Pearland / 12 Employees**

Wire, Profile

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**Sales Office Hong Kong / 5 Employees**

Profile

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**Sandviken / 145 Employees**

Wire, Bar, Profile

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### Over 300 years of Zapp

In **1701** in the village of Runderoth, Germany, Hermann Zapp founded our company, which quickly became a specialist for **high-grade**, and **high performance** steels. Today, thanks to our global network of production, service centers and distribution sites we deliver our precision products **quickly** and **reliably** to our customers wherever they are in the world.

With our **experience** and expertise, we can help turn your ideas into reality. As a loyal partner, we can **support** you with both existing business as well as new projects.

The wider Zapp Group can supply you with the right product form for your specific needs: **strip**, wire, bar, profile, tube, CAD-CAM discs, and more from stainless steel, titanium materials, nickel, and CoCr based alloys or metal powders.

For over 300 years, we have continually **invested** in our people, technology and product portfolio. This progress has helped us to build a future for many more generations to come.



Zapp locations

# GERMAN ROLLING MILL UNNA, NRW

Stainless steel (ferritic, austenitic and martensitic) and nickel alloys.

A combination of world class rolling and finishing operations helps Zapp Precision Strip GmbH produce products with the tightest tolerances in respect of dimensional, shape and mechanical properties.

### Specialties

- \_ Ultra thin foils, down to a thickness of 0.0008"/0.020 mm
- \_ Special heat treated products (tension annealed, super stress relieved)
- \_ Ultra high strength strip (> 2,000 MPa/290,000 Psi)
- \_ Hardened and tempered martensitic strip
- \_ Special surface conditions

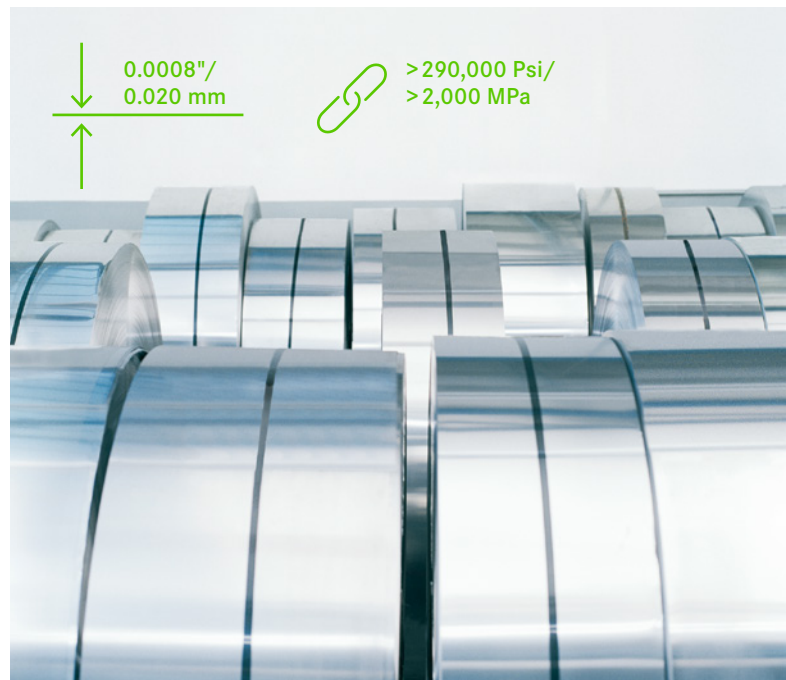
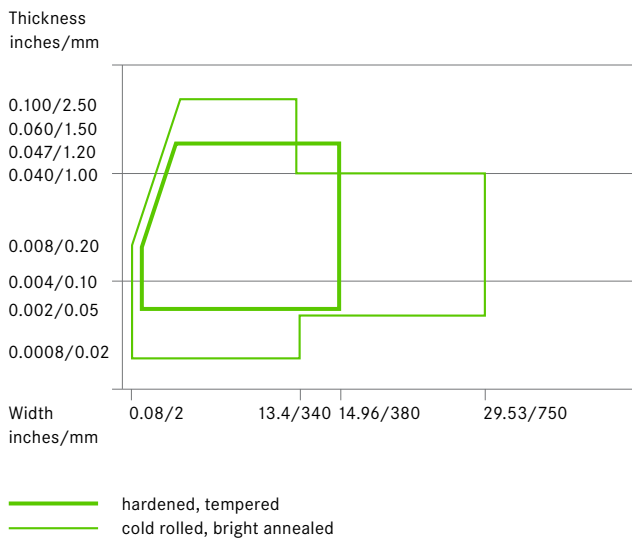


Founded: 1991 (new mill 2013)  
Employees: 228  
Floor space: 979,516 sq/ft (91,000 m<sup>2</sup>)

### Made in Germany

#### Size range for Unna products

Mill edge condition, thickness-/tensile ratio on request



Zapp Precision Strip, Inc.

# U.S.A. ROLLING MILL DARTMOUTH, MASSACHUSETTS

A wide range of stainless steel, nickel alloy and titanium strip.

As a thin strip specialist, Zapp Precision Strip Inc. provides its customers with comprehensive solutions for difficult to source thin metal precision strip.

### Specialties

- \_ Strip products in both thin thicknesses and wide widths
- \_ Aerospace accredited products endorsed by industry and customer certifications
- \_ Soft annealed to full hard (high yield) conditions
- \_ Experienced and technically competent staff available for customer support
- \_ Reliable logistics and program management service solutions
- \_ Premium offerings of nickel and titanium grades

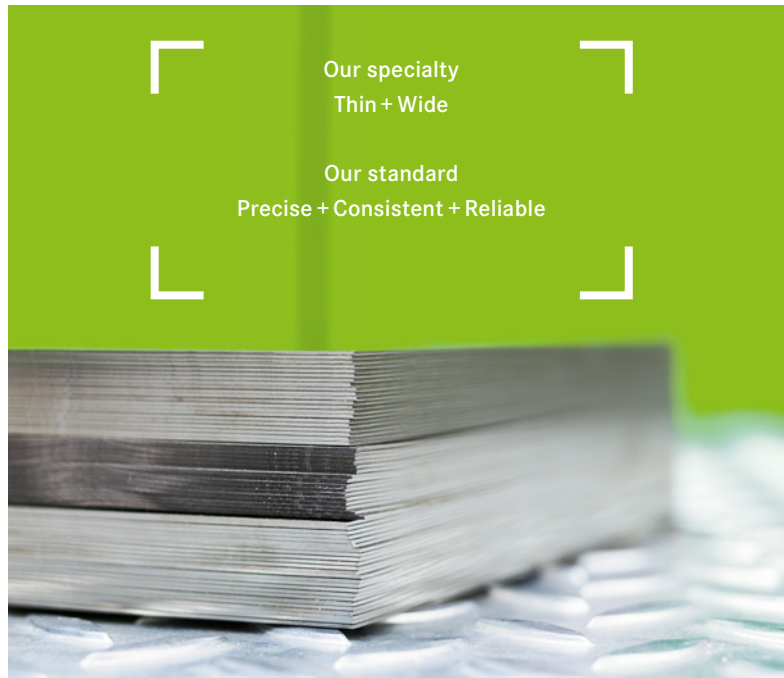
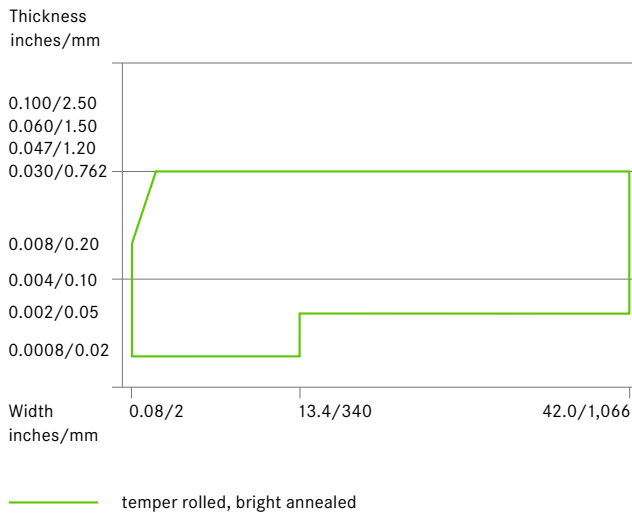


Founded: 1999  
Employees: 51  
Floor space: 50,000 sq/ft (~ 4,650 m<sup>2</sup>)

### Made in U.S.A.

#### Size range for Dartmouth products

Mill edge condition, thickness-/tensile ratio on request



Zapp Precision Strip, Inc.

## STRATFORD, CONNECTICUT, U.S.A. EAST COAST SERVICE CENTER

### Specialties

- \_ Slitting
- \_ Traverse winding (reel sizes from 10 lbs to 1,000 lbs/  
~ 450 kg) using high-quality in-line laser welding.
- \_ Edge profiling/deburring
- \_ Quick delivery turn-around
- \_ Inventory, service solutions, logistics
- \_ Able to process small quantity orders
- \_ Customized packaging solutions available
- \_ Toll services available



Founded: 2007  
Employees: 21  
Floor space: 30,000 sq/ft (~2,800 m<sup>2</sup>)

Zapp Precision Strip, Inc.

## SANTA FE SPRINGS, CALIFORNIA, U.S.A. WEST COAST SERVICE CENTER

### Specialties

- \_ Slitting
- \_ Winding
- \_ Cut-to-length
- \_ Inventory, service solutions, logistics
- \_ Rapid response to customer inquiries/requests
- \_ Quick delivery turn-around
- \_ Able to process small quantity orders
- \_ Supply of wide widths up to 41.50"/1,054 mm and  
as thin as 0.002"/0.050 mm in thickness



Founded: 1999  
Employees: 14  
Floor space: 25,000 sq/ft (~2,350 m<sup>2</sup>)

Zapp Precision Metals GmbH

## UNNA, GERMANY SERVICE CENTER

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### Specialties

- \_ Slitting
  - \_ Winding (various coil IDs)
  - \_ Cut-to-length
  - \_ Wide range of inventory (focus on thin/wide)
  - \_ Able to process small quantity orders
  - \_ Service solutions, customer specific logistics, express shipment
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Founded: 2005

Employees: 8

Floor space: 16,150 sq/ft (~1,500 m<sup>2</sup>)

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Zapp Precision Metals (Taicang) Co.,Ltd.

## TAICANG, CHINA SERVICE CENTER

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### Specialties

- \_ Slitting
  - \_ Leveling
  - \_ Winding
  - \_ Edge profiling
  - \_ Cut-to-length
  - \_ Sawing
  - \_ Laser and water jet cutting
  - \_ Inventory, service solutions, logistics
- 



Founded: 2007 (expansion 2020)

Employees: 27

Floor space: 64,585 sq/ft (~ 6,000 m<sup>2</sup>)





## Our vision

Only those moving forward remain at the top. Whether it is automotive, electronics, aerospace or medical technology – together we ensure that our lives and those of the next generations become easier, better and safer.



Far beyond standard.

# ZAPP PRECISION STRIP LINECARD

Choice of materials	DIN-Steel name	AISI/SAE	UNS
<b>Austenitic grades</b>			
1.4301	X5CrNi18-10	304	S30400
1.4303	X4CrNi18-12	305	S30500
1.4306	X2CrNi19-11	304L	S30403
1.4310	X10CrNi18-8	301 302	S30100 S30200
1.4372	X12CrMnNi17-7-5	201	S20100
1.4401	X5CrNiMo17-12-2	316	S31600
1.4404	X2CrNiMo17-12-2	316L	S31603
1.4435	X2CrNiMo18-14-3	316L	S31603
1.4439	X2CrNiMoN17-13-5	317LMN	S31726
1.4441	X2CrNiMo18-15-3	~316LVM F138/F139	S31673
1.4539	X1NiCrMoCuN25-20-5	904L	N08904
1.4541	X6CrNiTi18-10	321	S32100
1.4550	X6CrNiNb18-10	347	S34700
1.4571	X6CrNiMoTi17-12-2	316Ti	S31635
1.4828	X15CrNiSi20-12	309	S30900
1.4833	X12CrNi23-13	309S	S30908
1.4841	X15CrNiSi25-21	314	S31400
1.4845	X8CrNi25-21	310S	S31008
1.4876	X10NiCrAlTi32-21	B163, Alloy 800	N08800
<b>Ferritic grades</b>			
1.4016	X6Cr17	430	S43000
1.4521	X2CrMoTi18-2	444	S44400
<b>Martensitic grades</b>			
1.4006	X12Cr13	410	S41000
1.4021	X20Cr13	420	S42000
1.4028	X30Cr13	420F	S42020
1.4028Mo	X30Cr13	420	S42000
1.4034	X46Cr13	420	S42000
1.4122	X39CrMo17-1	–	–
1.4037	X65Cr13	–	–

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The microstructure, grain size and cleanness of our strips is assessed by the detailed inspection of metallographical sections.



Choice of materials	DIN-Steel name	AISI/SAE	UNS
<b>Precipitation hardening steels</b>			
1.4457	8CrNiMo17-5-3	633	S35000
1.4542/1.4548	X5CrNiCuNb16-4	630	S17400 (17-4PH)
1.4568	X7CrNiAl17-7	631	S17700 (17-7PH)
1.4980	X5NiCrTi26-15	660	S66286 (Alloy 286)
<b>Iron-nickel alloys</b>			
1.3912	Ni36	F1684	K93603
<b>Nickel/nickel based alloys</b>			
2.4068	LC-Ni99	Alloy 201	N02201
2.4360	NiCu30Fe	Alloy 400	N04400
2.4602	NiCr21Mo14W	Alloy C-22	N06022
2.4816	NiCr15Fe	Alloy 600	N06600
2.4851	NiCr23Fe	Alloy 601	N06601
2.4856	NiCr22Mo9Nb	Alloy 625	N06625
2.4668	NiCr19Fe19Nb5Mo	Alloy 718	N07718
2.4669	NiCr15Fe7TiAl	Alloy 688, Alloy X-750	N07750
2.4819	NiMo16Cr15W	Alloy C-276	N10276
2.4665	NiCr22Fe18Mo	Alloy X	N06002
–	–	Alloy 864	N35135
<b>Titanium/titanium alloys</b>			
3.7025	Ti Grade 1	Ti Grade 1	R50250
3.7035	Ti Grade 2	Ti Grade 2	R50400
3.7065	Ti Grade 4	Ti Grade 4	R50700
Grade 9	Ti Grade 9	Ti Grade 9	R56320
<b>High carbon, only hardened and tempered</b>			
1.1274	Ck101	1095	G10950
1.2067	100Cr6	L1/L3	T61203



# ZAPP CERTIFICATES AND ACCREDITATIONS

**97/23/EG &  
AD2000-W 0**

Pressure container  
Precision Strip  
Germany and U.S.A.

**ISO 50001**

For the Zapp Group  
Germany

## **AS 9100**

For aeronautical  
applications  
Precision Strip, Inc. U.S.A.

## **ISO 9001**

For the Zapp Group

## **IATF 16949**

For automotive applications  
Precision Strip Germany  
(Schwerte and Unna)  
Precision Wire, U.S.A.  
(Summerville)

# GERMAN & U.S.A. QUALITY

Titanium grades

Nickel alloys

Stainless steels



## Testing and R&D Services

- \_ Quality inspection
- \_ Metallurgical laboratories
- \_ Material testing
- \_ Performance testing
- \_ Chemical analysis and corrosion testing

## Logistics

Individually agreed logistics concepts such as consignment, safety stock and call-off schedules, allow for short, reliable lead times wherever you are in the world.







## CONTACT

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### 7 Days a week

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