

wieland Overview

2022

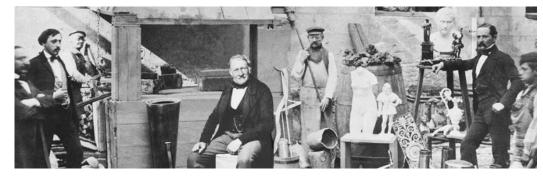


From art and bell foundry to premium copper alloy products and innovative solutions

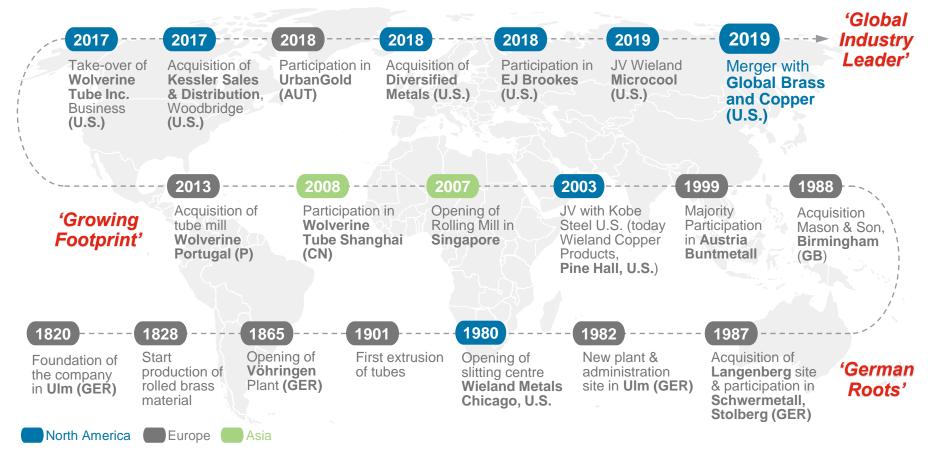
The Wieland Group has been offering its customers products made of copper and copper materials for over 200 years now. With a high level of customer centricity, its global presence and broad product portfolio, Wieland is "the" reliable partner in the B2B business. Copper is an essential material for many industries and a number of megatrends due to its excellent conductivity, formability and recyclability.



"Ever since, Wieland has been a family-owned business with a long-term orientation of its shareholders."

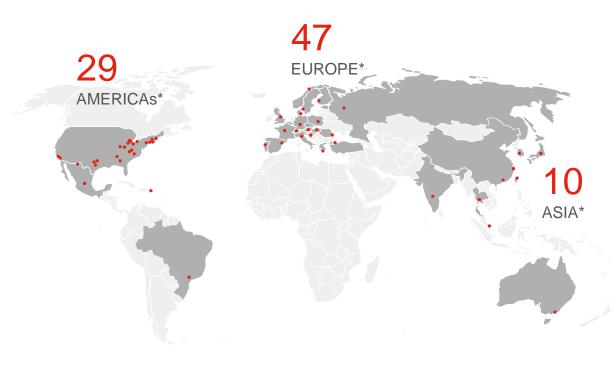


A 200-year history of growth



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A Global Industry Leader



* Locations of production and service companies including sales offices and sales partners

EUROPE

AUSTRIA Amstetten - Enzesfeld - Wien BELGIUM Brussels CROATIA Zagreb CZECHIA Prague DENMARK Hvidovre ESTONIA/FINLAND Turku FRANCE Jarnac - Marne-la-Vallée - Scionzier - Yzengremer GERMANY Bremen -Düsseldorf - Hagen - Kaufbeuren - Kornwestheim - Langenberg -Neu-Ulm - Stolberg - Trossingen - Ulm - Villingen - Vöhringen -Wendelstein GREECE Metamorfossi Attiki - Thessaloniki HUNGARY Budapest ITALY Treviglio NORWAY Dolmoy -Hvidovre POLAND Bielsko-Biała - Warsaw PORTUGAL Esposende - Vila Nova de Gaia ROMANIA Deva RUSSIA Moskow SPAIN Sta. Perpètua de Mogoda SWEDEN Kungsbacka SWITZERLAND Bellach TURKEY Istanbul UNITED KINGDOM Birmingham - Northampton

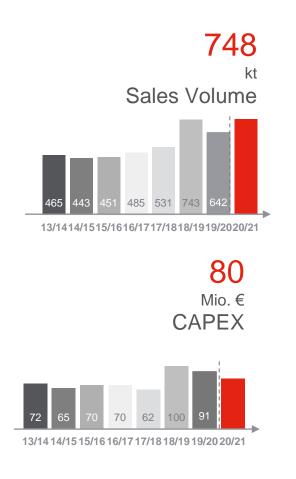
AMERICAS

USA • Alabama Decatur California • Los Angeles • Ontario Connecticut Waterbury Ohio Alliance • Montpelier Georgia Atlanta Illinois Carol Stream • East Alton • Schaumburg • Wheeling • Montgomery • Tinley Park Kentucky Louisville • Shelbyville Massachusetts Monson Missouri Cuba New Jersey Parsippany New York Hauppauge North Carolina Pine Hall Puerto Rico Caguas Rhode Island Warwick Texas Dallas• Coppell • Irving MEXICO Querétaro • Juarez BRAZIL Santo Andre

ASIA, AUSTRALIA

CHINA Shanghai - Shenzhen - Guangzhou INDIA Bangalore JAPAN Kanagawa-ken SINGAPORE Singapore SOUTH KOREA Anyang Gyeonggi-Do TAIWAN Taipei City THAILAND Bangkok AUSTRALIA Victoria

Performance Overview







FY 20/21

Wieland product portfolio

Strip and sheets

- We offer strip of copper and copper alloys such as brass, bronze, and highperformance alloys manufactured in a range of grades from standard to special, depending on the customer requirements. Surface refining, e.g., tinning and form milled strip, further rounds out our portfolio. In addition, we offer strip aluminum in mill finish, painted and anodized conditions.
- We supply customers in the electronic, automotive, architectural and emerging sectors.
- Production sites are located in Asia, the USA, and Europe



Rolled Products Rolled Products North America Wieland Metal Services

Rods, wire and tubes

- We offer a diversified portfolio of customized extruded products for various customer applications (e.g., copper wires, tubes, bars, sections)
- We serve a wide range of focus industries including automotive, construction, electrical engineering, or trade
- Production sites are located in the USA and Europe

Finned tubes and heat exchangers

- We develop and produce heat transfer solutions
- We offer an extensive range of highperformance tubes and heat exchangers based on various materials (e.g., copper, copper alloys, aluminum, titanium)
- We serve various applications such as air conditioning, refrigeration, heating, process as well as machinery and plant technology
- Production sites in Asia, the USA, and Europe



Thermal Solutions

Slide bearings and components

- We develop and produce rolled and turned slide bearings, precision turned parts, and roller bearing cages
- Targets customers in the automotive, machine construction, as well as the agricultural & construction machine industry
- We develop components for modern electric automotive drives and innovative battery systems
- Production sites in Europe



Engineered Products



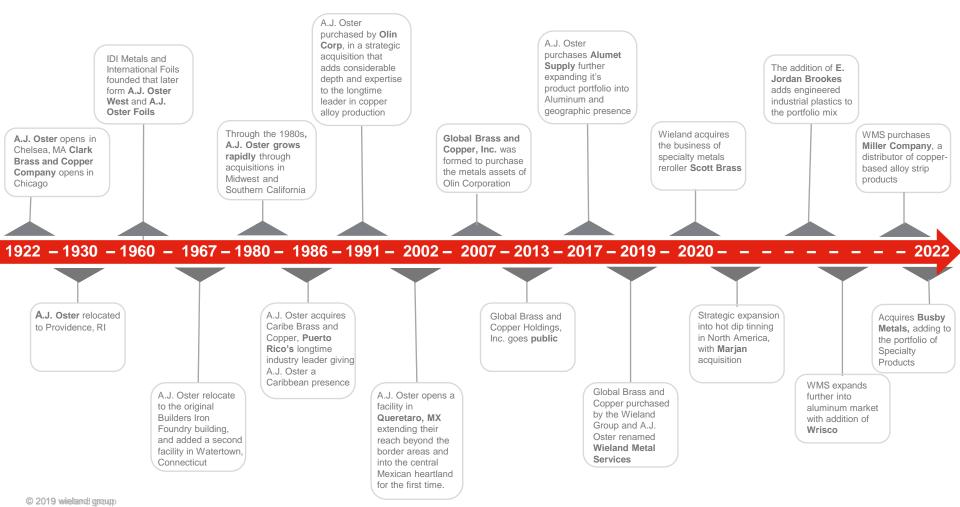
Chase Brass Extruded Products Rolled Products North America Wieland Metal Services



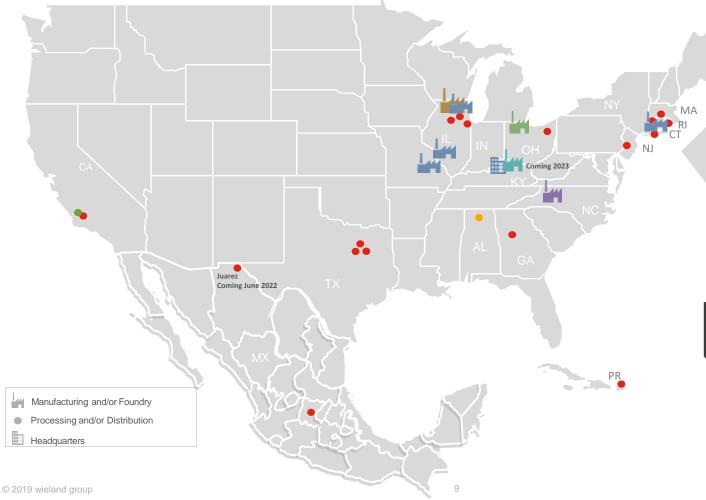
Wieland Metal Services

wieland

History Wieland Metal Services



Wieland US Locations



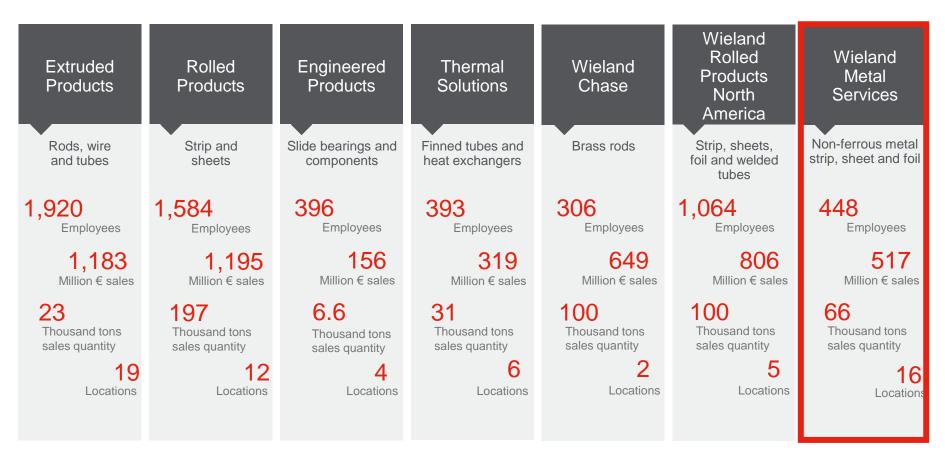
Comprehensive production, distribution & service network providing Wieland service & quality for customers in North America and worldwide at 25 locations in North America.

Wieland Rolled Products North America Manufacturer and re-roller of copper

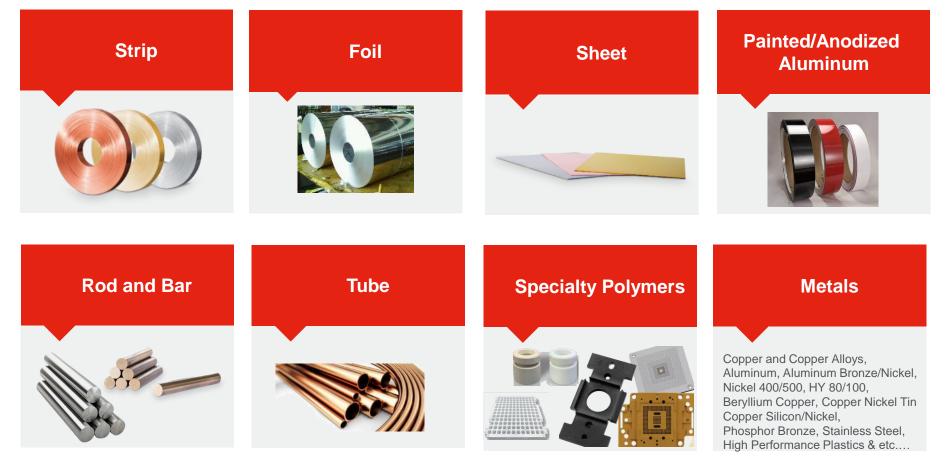
and copper-alloys strip and sheets

- Wieland Chase Leading manufacturer of brass rod in North America
- Wieland Metal Services Processor and distributor of nonferrous metal sheet, strip, and foil
- Wieland Recycling Greenfield alloy recycling and refining facility
- Extruded Products (Pine Hall) Producer and distributor of copper tubes, part of BU Extruded Products
- Thermal Solutions/Microcool High-performance tubes production located in Wheeling

Overview of Wieland Business Units



Common Products



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Capabilities

Slitting	Tension Leveling	Traverse Winding	Coating/Painting	Bar Cutting
Cleaning	Tinning	Cut-to-Length	Blanking	CNC Machining
Toll Processing	Supply Chain Management	Metallurgical Support	Scrap Buy Back Programs	

General Capabilities

Processing	Gauge	Width
Slitting/Coil	.00035"156"	.090"- 60"
Coating	.0007"020"	Up to 42"
Cleaning	.002"020"	Up to 36"
Traverse Winding	.005"062"	.2"- 2.5"
Cut-to-Length	.006"125"	.3"- 60"
HALT Tinning	.005"072"	.875"-10"

Bar Cutting (Cu, Ni, Steel, Al-Bronze)	.25" – 24" diameter	
High Performance Plastic Cutting	1.25"-2" diameter	

HALT- Hot Air Level Tinning

- Commercial Coat 40-80 Micro Inches
- Medium Coat 100-250 Micro Inches
- Heavy Coat 200-300 Micro Inches

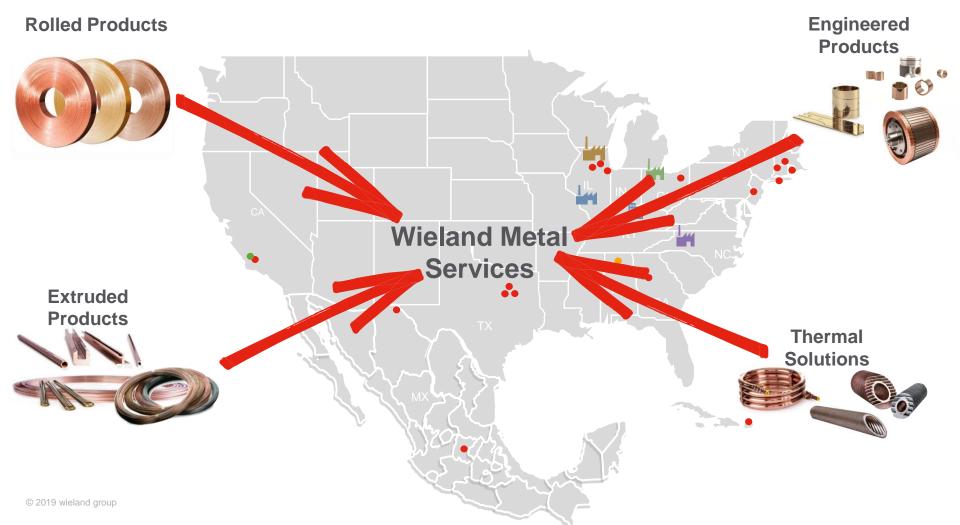
Traverse Winding

- Single head & multi-heads
- 500 to 2,000 pounds spool

Common Alloys

Copper	Aluminum	Stainless	Specialty
Copper C1XX Series	1000 Series	300 Series	High Performance Plastics
Brass C2XX Series	3000 Series - bare, painted or anodized	400 Series	Metal Rod/Bar/Wire/Profiles
Leaded Brass C3XX Series	5000 Series - bare, painted or anodized	17-7 PH 41X (Martensitic)	Nickel 400
Tin Brass C4XX Series	6000 Series		Nickel 500
Phosphor Bronze C5XX Series	7000 Series		HY80
Cupro Nickel/Nickel Silver C7XX Series	8000 Series		HY100 bar
High Performance	Clad - 3003/4047, 4004/3003/4004, & 4005/3003/4005		Beryllium Copper - Strip, Rod, Bar
			ToughMet [®] Spinodal (Copper Nickel Tin)
			Copper Silicon Copper Nickel Silicon
			Brass/Naval Brass
			Aluminum Nickel Bronze Aluminum Silicon Bronze

Global Business Units utilize Wieland Metal Service as North American conduit...



Empowering Success.

