

Shaped Wire

Ulbrich Shaped Wire specializes in the manufacture of custom made shapes and flats for a wide variety of industries. Depending on the complexity of the profile, shapes may be either net or near net suitable for stamping, coining, forming, or machining. All tooling is custom manufactured in-house by our state-of-the-art tooling center. We also offer metallurgical and engineering support for all customers. Ulbrich Shaped Wire supplies a wide range of alloys including Nitinol which can be provided as a flat, coiled wire product that is not readily available in the marketplace.

Alloys	Shaped Wire	Gauge Range
Stainless Steels	Rectangle	.005 to .335 inch
Titanium Alloys	Hexagonal	(0.127mm to 8.509mm)
Nickel Alloys	Octagonal	Width Range
Cobalt Alloys	Triangle	
Nitinol Alloys	Half-Round	.020 to 1.50 inches (0.508 mm to 38.1 mm)
& Many Others	Many Custom Profiles on Request	



Our controlled atmosphere strand annealing capabilities ensure consistent mechanical properties and a quality surface finish.



Custom wire shapes offer an all around reduction in cost and process steps by bringing customers closer to a finished part.



Our shaping mills are tooled with highly engineered precision tooling provided by our engineers and on site tooling center.



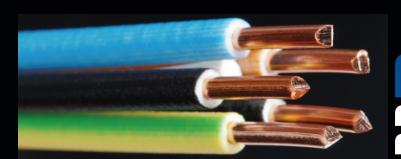
Filling a void in Nitinol product form availability, this "strip" produced at continuous coil length in our wire mill offers your engineers a unique solution to current processing limitations.

Precision Wire Products

PRECISION FLAT & FINE WIRE

Our Precision Wire facilities are capable of producing round, flat, and fine wire for many demanding applications serving a variety of industries. Our "Focus Factory" approach dedicates managers and engineers along with state-of-the-art equipment to produce and manage industry-specific requirements.

Our production equipment uses the latest in "on-line" gauging and data acquisition technology that generates full statistical summaries with each production run, enabling us to control our process and offer tolerances as tight as +/- .0025mm (.0001") on our lightest gauges. Precision spooling of fine wires onto a variety of spools or bobbins using CNC winders enables trouble-free performance in the most demanding applications. We offer a wide range of finishes for photovoltaic applications, saw blades, and certain medical applications.



Telecommunications products.



Plated products for a variety of industries.



Engineered music wire products.

Width Range

002 to 150 inches

Alloys	Gauge Range	(.0508 to 38.1 mm)
Stainless Steels	.0002 to .210 inch (.00508 mm to 5.334 mm)	Surface
Aluminum Alloys		Finishes
Copper & Brass Alloys	Rounds	Tin and Lead Coated
Nickel Alloys		Heat Treated and Tempered
Carbon Steel	.00075 to .400 inch (.019 mm to 10.16 mm)	
Nitinol		Bright Polish

Applications

Tinned copper and aluminum tabs for capacitors

Aluminum and nickel tabs for batteries

Gold plated products for a variety of applications in the electronics, medical and aerospace markets

Silver-plated copper flat shielded wires for telecom cables

Silver-plated copper wires for applications in music strings and medical devices

Medical braidwire and mandrel applications

Specialty music string and wire products

Precision Wire Products

PRECISION FLAT & FINE WIRE

Ulbrich is the perfect source for your ultra-fine wire requirements. Precision-plated or bare in various geometries including rounds, squares, and flats — all to extremely close tolerances.

We process a vast amount of materials for various markets that include: medical, electronics, telecommunications, and energy materials.

Ulbrich supplies material in a wide variety of customer packaging options: precision layer wound spools, pancake coils, and cut to length. Various traverse lengths, flange, barrel, and bore sizes are available to satisfy all of your requirements.

Alloys	Specialty Alloys	
Copper	Copper Clad	Tungsten
Phosphorus Bronze	Copper Aluminum Clad	Titanium Alloys
Beryllium Copper	Aluminum Clad	MP35
Brass	Aluminum	300 Series VM
Monel400	Nickel Plated Steel	430
Copper Nickel Alloys	Molybdenum	FeChrome
Kovar	Tantalum	Nickel Alloys
Dumet	Plating Gold type I, II, III per MIL-G-45204 Solder per MIL-P-81728*	
Pure Nickel 200/205		
Invar		
Alloy 52	Silver per QQ-S-365 and ASTM B-298 Military Standard -1276*	
Other Resistant Alloys		
	Nickel per QQ-N-290* Tin per MIL-T-10727 Type 2 Solder-ability per MIL-STD-202	





Our exclusive Nitinol rolling process produces a wide spectrum of coiled flat wire sizes, oxides, and mechanical properties of choice.



Close-up of multiple bobbins wound on Steeger machine.





We Deliver Precision®

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