

Lamineries
MATTHEY SA

PROVIDER OF PRECISION
METAL SOLUTIONS

Thin – precise – custom

LAMINERIES MATTHEY

As a re-roller of a very broad range of alloys and metals, Lamineries MATTHEY maintains privileged relationships with the best mills in each product category and sources specialty materials from around the world. In essence we purchase and stock cold rolled coils and add value by rolling them thinner, tightening tolerances and achieving mechanical properties otherwise not feasible on the larger equipment of our suppliers. We are equipped to roll thinner and slit narrower than almost any other cold roller in the world and are one of only a few mills offering a product line spanning all

the main alloys and metals with a particular emphasis on specialties, such as beryllium copper, maraging steels, nickel alloys or titanium. Our two plants in La Neuveville have been continuously expanded, improved and upgraded. An example is our new, state-of-the-art, office building and automated stock room scheduled for completion in 2011. Nestled amongst the vineyards overlooking Lake Bienné, we take great pride in protecting our environment and respecting our picture postcard neighbourhood.

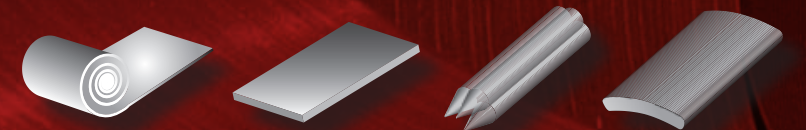
FLEXIBILITY, RAPID SERVICE AND NICHE PRODUCTS IS OUR FORMULA FOR SUCCESS

With a little over 60 employees, Lamineries MATTHEY is small but nimble. We do business all over the world, speak a dozen languages and continuously adapt to market needs. In addition to producing flat rolled products, we also stock and market rod and wire in alloys destined for watches and medical devices, such as beryllium copper, titanium, cobalt alloys and specialty stainless steels. In addition, we can offer products and services including centerless grinding, re-drawing, flat-rolled wire and drawn or rolled profiles through an extensive network of regional sub-contractors. Lamineries MATTHEY is your one-stop shop for metal solutions.

Ask us to jump and we will ask "how high?"



Product forms



PRECISION STRIP

PLATE AND SHEET

ROD AND WIRE

PROFILES

Hundreds of years of experience ...



Lamineries MATTHEY is the logical result of the entrepreneurial efforts of a long line of MATTHEYs, all cold rollers par excellence. The first MATTHEY known to have established a cold rolling mill was Auguste MATTHEY in 1830. Emigrating from his native France almost 200 years ago, he was attracted to the growing requirement for precision strip used in the Jura region for the manufacture of Swiss watches. Many generations and several factories later, the company remains independent and privately owned by the MATTHEY family. Incorporated in 1901 in La Neuveville, at the linguistic border

between German and French speaking Switzerland, Lamineries MATTHEY SA not only continues to supply the watch industry worldwide but has also diversified into many new precision metal solutions for electronics, aerospace, telecommunications, medical and other markets with challenging requirements.



BEYOND THE LIMITS OF OTHERS

Custom and Specialty products

PRODUCED TO YOUR SPECIFICATIONS

All rolled products at Lamineries MATTHEY are made to order. We not only respect the various standards from around the world, but go well beyond their limits in terms of tolerances and dimensional limits. Our production equipment is tailor-made to offer us the highest flexibility and broadest capabilities... far beyond the average. Lamineries MATTHEY is one of the very few mills in the world capable of rolling tough materials such as stainless steel or titanium to thicknesses below 0.004 mm. (0.00015")

As the leading supplier of strip for Swiss watch components, it is easy to understand Lamineries MATTHEY's passion and reputation for precision. We purchase cold rolled material from the best mills in the world and we then make it better, thinner and more precise.

Most cold rolling mills will specialize in only one category of metals or alloys. With Lamineries MATTHEY, you have access to one of the broadest ranges of alloys and metals available anywhere. It is our aim

to provide you with all your needs in precision strip. If your request is not amongst the over 80 alloys we currently stock, we can always discuss adding it to our product line.

TOLERANCES

Thickness (mm)		Best tolerance
>=	<	+/-
	0.025	0.001
0.025	0.050	0.0015
0.050	0.065	0.002
0.065	0.100	0.003
0.100	0.125	0.003
0.125	0.150	0.004
0.150	0.250	0.004
0.250	0.300	0.005
0.300	0.400	0.005
0.400	0.500	0.006

Our capability is alloy dependent but will always exceed the standards

People, machines and raw materials we can trust.

Such a uniquely broad range of alloys and thicknesses requires a flexible machine park and highly trained operators. 8 rolling mills, from 2-highs to 20-roll Sendzimirs, 9 slitters, 5 strand annealers and various other machines are required to handle our many custom applications. Key machines are built to our specifications so as to obtain the best performance for our needs. The average seniority of our operators is high and frequently their par-

ents, and even grandparents, were already our employees. We will not use the cheapest material but only the best, so as to keep wastage low, productivity high and thereby optimize our cost. Our customers also benefit, as they can be certain their parts will be made from materials giving optimal performance and sourced from only the finest suppliers

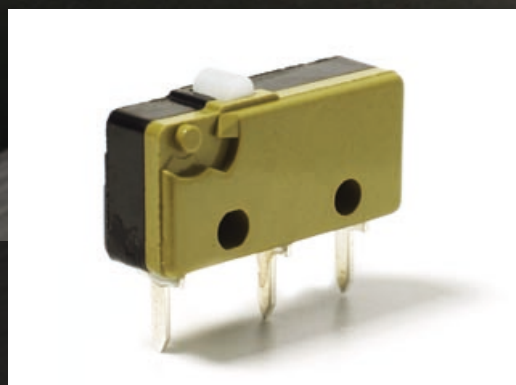


- COPPER & COPPER ALLOYS
- BERYLLIUM COPPER
- SUPER ALLOYS
- MARAGING STEEL
- TITANIUM
- STAINLESS STEEL
- NICKEL & NICKEL ALLOYS
- SOFT MAGNETIC ALLOYS

APPLICATIONS

Over the years, customers have come to us with their problems from all over the world and from many different industries.

Together we have found solutions through diligence and hard work. The huge variety of applications from electronics, telecommunications, medical devices to watch components, safety devices and general engineering helps us continually expand our know-how so that we can maintain those customers loyal to our products and keep on finding new challenges.



Special alloys for Relays and Switches

Commonly used products, such as relays and switches, in the automotive, safety device or robotics industry require materials and properties similar to those employed in the manufacture of connectors. In fact, alloys for these applications require good electrical conductivity and high mechanical strength. Improved relaxation and fatigue resistance at elevated

temperatures are also important elements of performance. Besides conventional alloys such as brass, bronze and stainless steel, Lamineries MATTHEY also supplies premium products in the form of precision strips in copper and nickel beryllium alloys : CuBe2, CuNi2Be, NiBe2.

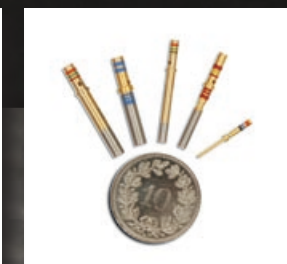
Strip, Rod and Wire Alloys for Connectors

The connector industry has to master new challenges of higher current being pushed through ever-smaller components leading to elevated temperatures and highly complex shapes. Non-magnetic behaviour and superior fatigue and stress-relaxation resistance are also important for meeting the stringent life-cycle requirements.

Frequently, these demanding requirements cannot be met by conventional phosphor bronze or brass which is why Lamineries MATTHEY also offers a broad range of high performance products such as copper beryllium alloys, copper nickels and other high-end copper alloys. These materials have

excellent electrical conductivity combined with high strength and other relevant properties. Add in the tight dimensional tolerances and custom tempers we can offer, and you have the perfect tool kit to make the connector of your choice.

Besides our customized strip production, we also maintain an extensive stock of rods and wires in many dozens of diameters for screw machining of connector parts. Lamineries MATTHEY is able to respond swiftly to the diverse requests of our customers.



APPLICATIONS

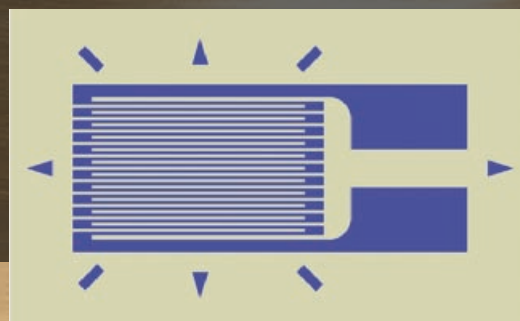
Thousands of customers
hundreds of applications
from the most diverse markets

Strip and Foil for Chemical Etching

Chemical etching or milling can produce very thin or highly complex parts with fine detail. With its many years of experience in the production of thin and ultra-thin strip and foil, Lamineries MATTHEY is continually developing new technologies to fulfill the most sophisticated requirements of the chemical etching industry.

For example, most strain gauges are only a few microns thick and are made of special alloys showing the

best overall combination of high strain sensitivity and temperature compensation. To meet these demands, Lamineries MATTHEY produces Constantan and Evanohm thin strips with thicknesses as low as 10 microns and in extreme cases even below 4 μm .



Alloys for Watch making

It was almost 200 years ago that the first MATTHEY is known to have supplied strip for making watches and clocks. After all that time, we are still the leading supplier for watch and clock movement components. That unmatched experience allows Lamineries MATTHEY to offer just the right solution for the complex demands of today's innovative and prestigious watch and clock manufacturers.

Our products are found in almost every mechanical watch movement made by all the well-known brands as well as in all high-volume Swiss quartz movements.

Watches require a multitude of alloys and we provide just about all of them including special bronzes and our own branded maraging steels, well known in the industry under the names of Durnico and Durinox.



Membranes

Our precision strips used for pressure sensors and a myriad of other membrane applications have perfect dimensional uniformity and a blemish-free surface. In addition, they are highly formable and absolutely impermeable. For these applications Lamineries MATTHEY provides all the key membrane alloys including Nickel, NiBe₂, Hastelloy / Inconel C-276 and 718, Duratherm 600, Titanium and Stainless Steel.



CUSTOMER SATISFACTION

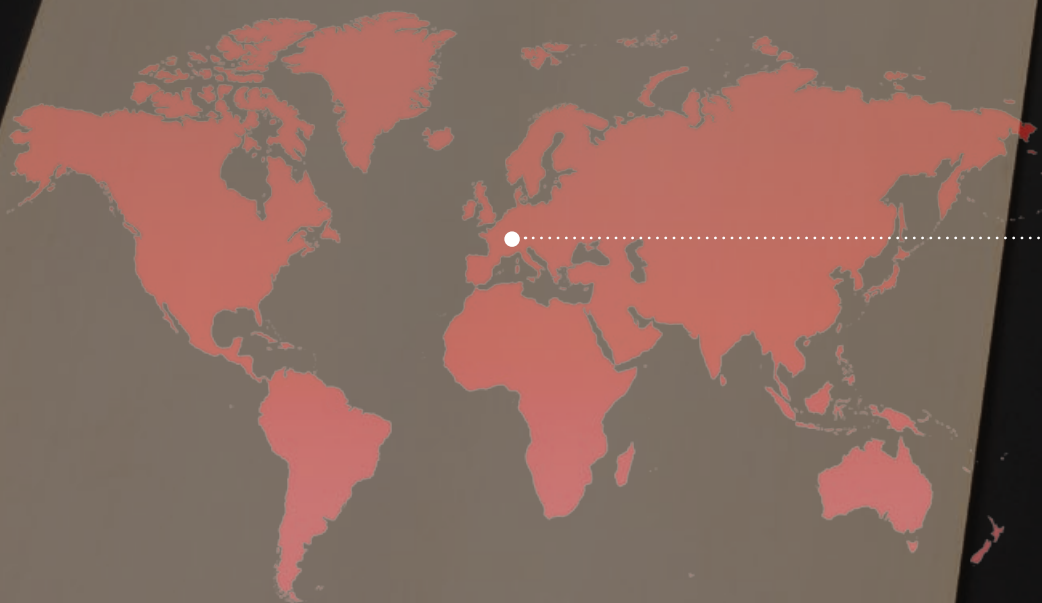
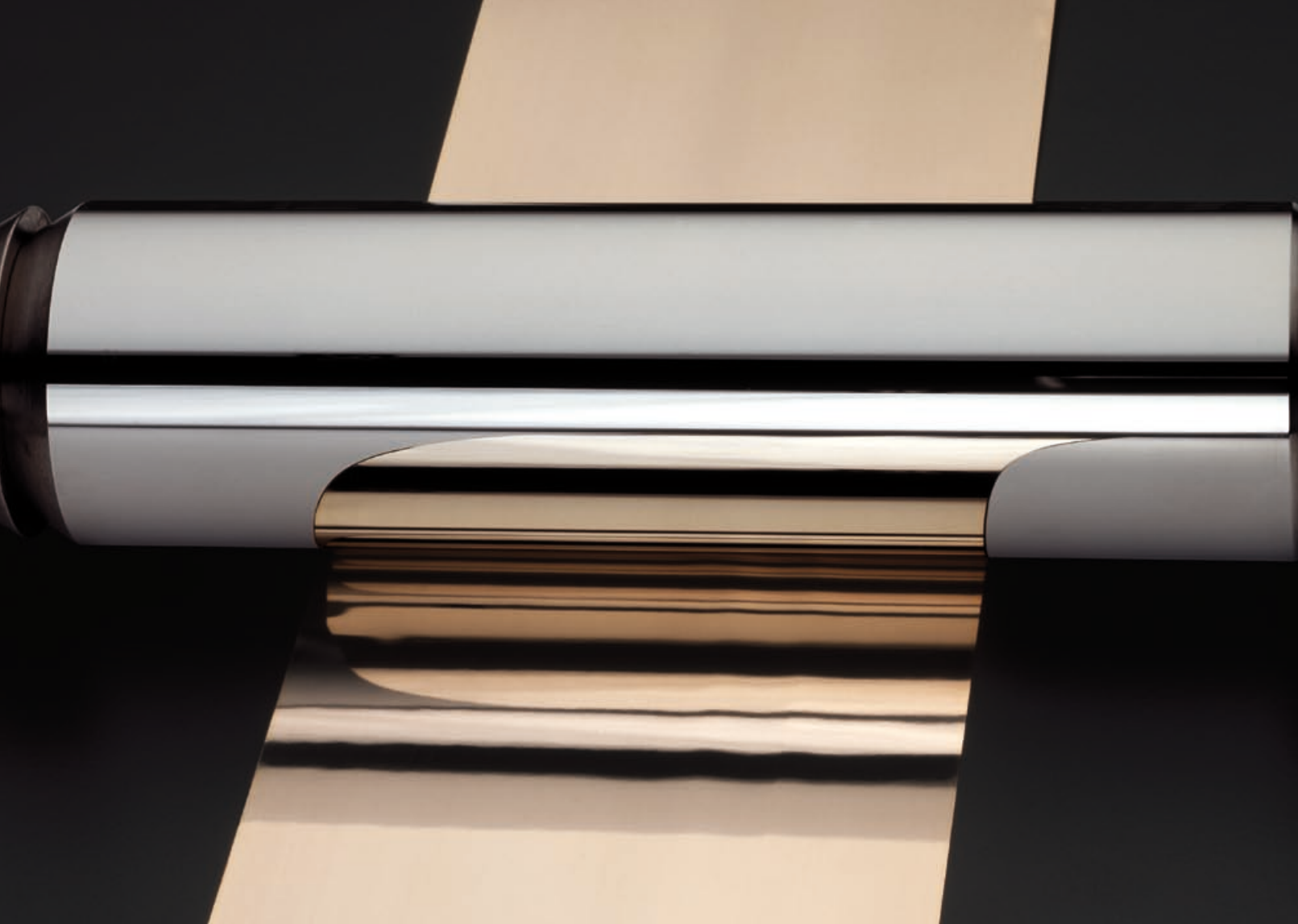
Our policy is to be first in quality.

We are privileged to be the supplier of choice for many companies recognized as leaders in their industry. Their requirements are stringent and ever more demanding.

Lamineries MATTHEY is certified ISO 9001-2000 and has been for many years. However, certification forms but the foundation of our efforts in quality assurance. We frequently improve our processes to reduce the impact our business may have on the environment, we educate our employees on a regular basis to keep up with the evolving standards in the aerospace and oil & gas markets, and we offer full material traceability as required by the medical industry.

We also realize that there is always room to improve all aspects of quality and are therefore constantly looking to learn from our customers, suppliers and peers. We believe that through the continuous improvement of our processes and machines and by constantly raising the competence of our employees, we will assure the continued growth of Lamineries MATTHEY for the next one hundred years.





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