



# HAMILTON PRECISION METALS

Specialty re-roller of metal strip, foil and ultra-thin foil for precision applications

- Hamilton Precision Metals roll metal strip, foil and ultra-thin foil in nearly any alloy and specialty metal.
- Tightest tolerances and thinnest gauges in the industry from 1.5 mm (.060") to 1.5 microns (.000060") in thickness.
- Specified for applications wherever quality, precision and consistency are critical to performance.
- Delivery of any combination of specific mechanical, physical, electrical and magnetic properties – and with any surface finish.
- Complete service at every phase – from experimental and short-run lots for R&D prototypes to verification and testing of final product parameters before order placement.
- Global network of sales and technical staff.

**WE OFFER ONE OF THE BROADEST RANGE OF METALS AND ALLOYS**

- Stainless and heat-resisting steels
- Nickel and high-nickel alloys
- Nickel-base superalloys
- Cobalt-base superalloys
- Custom alloys
- Precision resistance and strain-gage alloys
- Copper and copper alloys
- Titanium
- Controlled-expansion alloys

**THICKNESS CAPABILITY AND TOLERANCE CHARTS**

Hamilton Precision Metals rolls metal strip and foil in nearly any alloy and specialty metal to the tightest tolerances and thinnest gauges in the industry – from 1.5mm (.060”) down to 1.5 microns (.000060”) in thickness.

THICKNESS (INCHES)	4" WIDE	8" WIDE	12" WIDE
.00006 to .00045"	±5%	-	-
.00045 to .001"	±5%	±.000040"	±.000050"
.001 to .004"	±.000050"	±.000060"	±.000075"
.004 to .010"	±.00010"	±.00010"	±.00012"
.010 to .020"	±.00015"	±.00020"	±.00025"
.020 to .040"	±.00020"	±.00035"	±.00050"
.040 to .075"	±.00035"	±.00060"	±.0010"

Tolerances in percent or inches. Tolerances may vary depending on alloy being rolled.

THICKNESS (MILLIMETERS)	100 mm WIDE	200 mm WIDE	300 mm WIDE
0.0015 to 0.012	±5%	-	-
0.012 to 0.025	±5%	±0.0010	±0.0013
0.025 to 0.10	±0.0013	±0.0015	±0.0019
0.10 to 0.25	±0.0025	±0.0025	±0.0030
0.25 to 0.50	±0.0038	±0.0051	±0.0064
0.50 to 1.0	±0.0051	±0.0089	±0.0127
1.0 to 1.9	±0.0089	±0.0152	±0.0254

Tolerances in percent or mm. Tolerances may vary depending on alloy being rolled.

The tables above outline typical thickness tolerances available from HPM, which are tighter than industry standards.

Contact us to discuss our unique engineering capabilities and manufacturing flexibility can consistently meet your most critical application requirements.



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