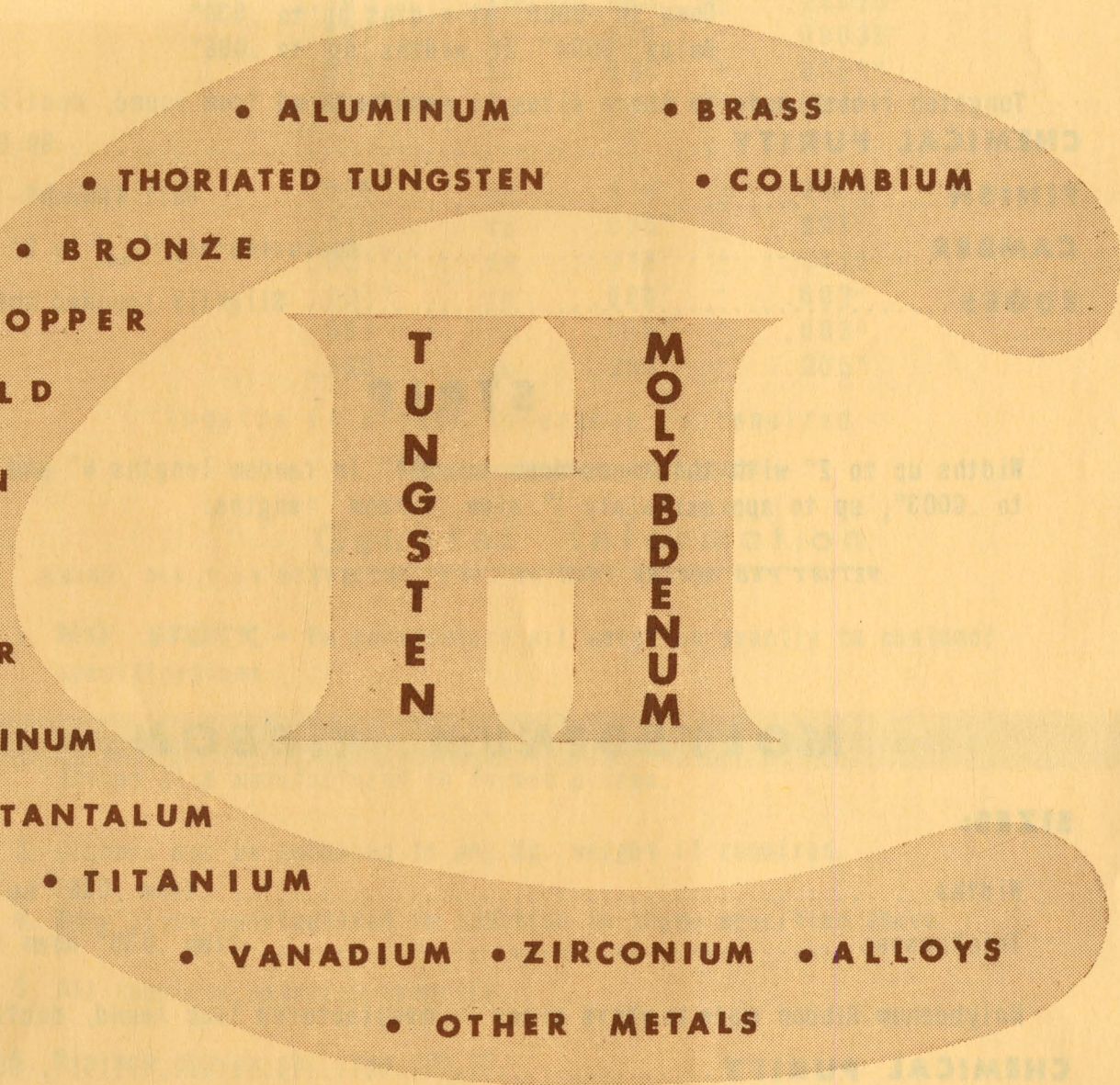


METAL for ELECTRONIC APPLICATION

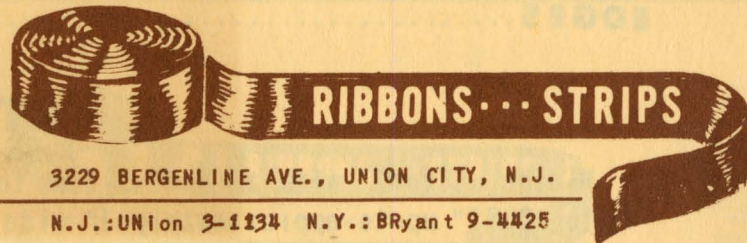
rolled *ultra thin* by our special rolling technique



• ALUMINUM • BRASS
• THORIATED TUNGSTEN • COLUMBIUM
• BRONZE
• COPPER
• GOLD
• IRON
• NICKEL
• SILVER
• PLATINUM
• TANTALUM
• TITANIUM
• VANADIUM • ZIRCONIUM • ALLOYS
• OTHER METALS

DEVELOPED AND MANUFACTURED BY

H. Cross Company



RIBBONS... STRIPS

3229 BERGENLINE AVE., UNION CITY, N.J.

N.J.: UNION 3-1134 N.Y.: BRYANT 9-4425

TUNGSTEN or THORIATED TUNGSTEN RIBBON

SIZES:

Widths from .004" up to .125"

Thicknesses from .040" down to .001"

Down to .0008" at widths up to .060"

Down to .0005" at widths up to .030"

Below .0004" at widths up to .006"

Tungsten ribbon made to above sizes is manufactured from round, ductile wire.

CHEMICAL PURITY 99.9% pure.

FINISH Roll finish - cleaned

CAMBER Approximately $\frac{1}{16}$ " in 2' lengths

EDGES Slightly rounded and smooth

STRIP

Widths up to 2" with thickness down to .001" in random lengths 6" and up. Also to .0003", up to approximately 1" wide, random lengths.

WEIGHT PER SQUARE INCH AT .001" THICKNESS IS 0.316 GRAMS.

MOLYBDENUM RIBBON

SIZES:

Widths from .006" up to .250"

Thicknesses from .030" down to .0006"

Molybdenum Ribbon made to above sizes is manufactured from round, ductile wire.

CHEMICAL PURITY 99.9% pure

FINISH Roll finish - cleaned

CAMBER Approximately $\frac{1}{16}$ " in 2' lengths

EDGES Slightly rounded and smooth

STRIP

Widths up to 2" with thickness down to .0005" in random lengths 6" and up. Also to .0003" up to approximately 1" wide, random lengths.

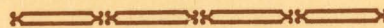
WEIGHT PER SQUARE INCH AT .001" THICKNESS IS 0.167 GRAMS

STANDARD RIBBON TOLERANCES

Thicknesses:	.0005"	to	.001"	±	.00005"
	.002"	to	.0029"	±	.0001"
	.003"	to	.0039"	±	.00015"
	.004"	to	.0049"	±	.0002"
	.005"	to	.006"	±	.00025"
	.007"	to	.010"	±	.00035"
	.011"	to	.030"	±	.0005"
	.031"	to	.040"	±	.001"

Widths:	.006"	to	.010"	±	.0005"
	.011"	to	.020"	±	.001"
	.021"	to	.030"	±	.0015"
	.031"	to	.060"	±	.002"
	.061"	to	.099"	±	.003"
	.100"	to	.250"	±	.005"

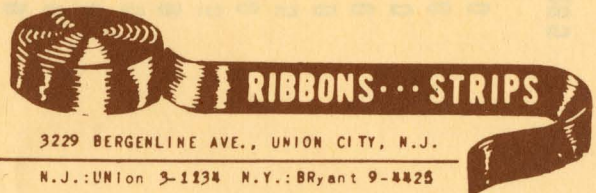
Inquire if closer tolerance is required



General Information

1. **NO STOCK** - We manufacture all material exactly to customer specifications.
2. Tungsten, Thoriated Tungsten, Molybdenum and Standard Ribbons or Strips also manufactured in formed pieces.
3. Ribbons may be supplied to any Mg. weight if required.
4. Many sizes manufactured in addition to those specified above.
5. All inquiries answered promptly.
6. Minimum charge per item \$25.00.
7. All products manufactured in U.S.A.

A. Cross Company



3229 BERGENLINE AVE., UNION CITY, N.J.

N.J.: Union 9-1134 N.Y.: Bryant 9-4425

THEORETICAL WEIGHT MG/200 MM — TUNGSTEN RIBBON

THICKNESS

Width	.001"	.002"	.003"	.004"	.005"	.006"	.007"	.008"	.009"	.010"
.002"	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0
.003"	7.5	15.0	22.5	30.0	37.5	45.0	52.5	60.0	67.5	75.0
.004"	10.0	20.0	30.0	40.0	50.0	60.0	70.0	79.5	89.5	99.5
.005"	12.5	25.0	37.5	50.0	62.5	75.0	87.0	99.5	112.0	124.5
.006"	15.0	30.0	45.0	60.0	74.5	90.0	104.5	119.0	134.0	149.0
.007"	17.5	35.0	52.5	70.0	87.0	105.0	122.0	139.0	156.5	174.0
.008"	20.0	40.0	60.0	80.0	99.5	120.0	139.5	159.0	179.0	199.0
.009"	22.5	45.0	67.5	90.0	112.0	135.0	157.0	179.0	201.5	224.0
.010"	25.0	50.0	75.0	100.0	124.5	150.0	174.5	199.0	224.0	249.0
.015"	37.5	75.0	112.0	150.0	186.5	224.0	261.0	298.0	335.0	373.0
.020"	50.0	100.0	150.0	200.0	249.0	299.0	349.0	397.5	447.5	497.5
.025"	62.0	124.0	186.0	248.0	311.0	372.0	435.0	498.0	560.0	622.0
.030"	74.5	149.0	223.5	298.0	373.0	447.0	522.0	597.5	672.0	746.5
.040"	99.5	199.0	298.0	398.0	497.5	596.0	696.0	796.0	895.5	995.0
.045"	112.0	224.0	336.0	448.0	560.0	672.0	784.0	895.5	1007.5	1119.5
.050"	124.5	249.0	373.5	498.0	622.0	747.0	871.0	995.0	1119.5	1244.0
.060"	149.5	299.0	448.5	598.0	746.5	897.0	1045.5	1194.0	1343.5	1493.0
.075"	186.5	373.0	559.5	746.0	933.0	1119.0	1306.0	1493.0	1679.0	1866.0
.100"	249.0	498.0	747.0	996.0	1244.0	1494.0	1742.0	1990.0	2239.0	2488.0
.125"	311.0	622.0	933.0	1244.0	1555.0	1866.0	2177.0	2488.0	2799.0	3110.0

For Mg. Wgts. of thickness of .0001"-.0009" For Mg./200 mm Molybdenum ribbon-- Multiply above figures X.5285
 Multiply above figures X.1 Multiply above figures X.1