



**NU-TECH**  
Precision Metals



Please contact us to discuss your seamless pipe, tube, fittings and extruded shape needs. We manufacture pipe and tubing products from 1 1/2" OD to 14" OD to ASTM, ASME and PED codes. We are an AS9100D/ISO9001:2015 Certified company and can extrude shapes that fit inside a 12" circle.



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460 McCartney Street, Arnprior, Ontario Canada K7S 3H2  
Telephone: 613-623-6544 ~ Facsimile: 613-623-8183

[www.nutechpm.com](http://www.nutechpm.com)

**Sputtering Tubes and Backing Tubes**



# Sputtering Tubes and Backing Tubes

Raw Material Stock List		
	Commercially Pure	Alloys
Titanium	Grades 1, 2 3, 7 & 12	Grade 5 - 6 Al - 4 V Grade 23 - 6 Al - 4 V - ELI Grade 9 - 3 Al - 2.5 V 6-6-2 6-2-4-6
Niobium	99.0 % & 99.9 %	
Aluminum	99.9 %, 99.99 % & 99.999 %	6061
Zirconium	99.9 %, 99.99 %	Zr 2 Zr 4 Zr 2.5 Nb Zr 702
Copper	C102, C110, RRR	Be - Cu Monel - 400 90 - 10 70 - 30
Steel		SA 106 Grade B Alloy and Stainless Steels by request

## Tube Finishing

As a result of our long established roots in the Canadian nuclear industry, Nu-Tech is able to finish tube to meet our customer's most exacting requirements.

Capabilities include:

- Tube Drawing
- O.D. Grinding
- Contour Machining & Threading
- I.D. Honing
- Helium leak check, NDT inspection for plug ends etc.
- Fabrication using MIG, TIG or electron beam welding on flanges, plug ends, and attachments



## Our Company

Since 1955, Nu-Tech Precision Metals has developed a worldwide reputation as a trusted manufacturer of custom metal extrusions, seamless pipe, tube, shapes and welded assemblies using a wide variety of specialty metals and unique alloys.

Our manufacturing facilities are capable of producing small prototype and development orders in addition to large production runs for a broad range of industries and markets. Our quality assurance program together with our in-house Non-Destructive Testing (NDT) methods exceeds strict nuclear and aerospace standards which form the core of our business.

Tubular rotatable targets used in glass coating are one of the unique products we manufacture. Using a wide variety of metals including all grades of Titanium, Zirconium, Hafnium, Niobium, Copper, High Purity Aluminum, Nickel Vanadium and many others, we are able to offer customers sputtering tubes and backing tubes to meet your exacting requirements.

Custom tubes are manufactured in lengths up to 160” long (4064 mm) to your specific OD and wall thicknesses.

Specified tolerances for OD and ID dimensions and surface finish are achieved in-house through centerless grinding, boring, honing or machining.

Various tube end details are available including machined ends manufactured to your supplied drawings. Plug and flange ends can be attached in-house via electron beam welding then Helium Leak checked to your specifications.

Our 500 Ton draw bench can be used to improve OD, ID and wall thickness tolerances in addition to strengthening certain grades of materials through cold-working.

Our tubes are professionally and securely packed for shipment anywhere in the world using EU conforming lumber in our crates.

All manufacturing and testing processes are performed in our Arnprior plant located just outside of Ottawa, Ontario, Canada.

