



Electron Beam Tolling Service

Materion's Newton facility, a world leader in Tantalum and Niobium manufacturing, now has an additional Electron Beam furnace with available capacity for remelting and refining Tantalum & Niobium.

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Electron Beam Furnace Specifications

- 2 electron beam guns, 800 kW each
- 1600 kW EB power
- 100,000 l/sec pumping capacity
- Vacuum pressure 5×10^{-4} mbar

Maximum Design Ingot Dimensions

Mold Diameter	Maximum 12 in Standard Sizes 8 & 10 in	305 mm 203 & 254 mm
Ingot Diameter	Approximate Max 11 3/4 in Standard Sizes 7 3/4 & 9 3/4 in	300 mm 197 & 248 mm
Length	Maximum 90 in	2,300 mm
Max. Weight		
For Niobium:	3,026 lbs	1,393 kg
For Tantalum:	5,945 lbs	2,697 kg

Input Bar Dimensions

Width	Maximum 3 1/2 in	90 mm
Height	Maximum 3 1/2 in	90 mm
Length	Typical 18 in	460 mm
	Maximum 54 in	1,380 mm
	Minimum 10 in	250 mm
Weight of Typical Compact (Ta):	Approximately 55 lbs	25 kg

Benefits

- 45 years of electron beam melting experience
- Industry leader in Ta, Nb and their alloys
- Superior refining capabilities
- US-based process and manufacturer/facility
- RMI-compliant facility
- World-leading Ta and Nb chemistry analysis
 - GDMS, LECO, etc.

Connect with Sales

- For more information, connect with your sales contact today or:

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