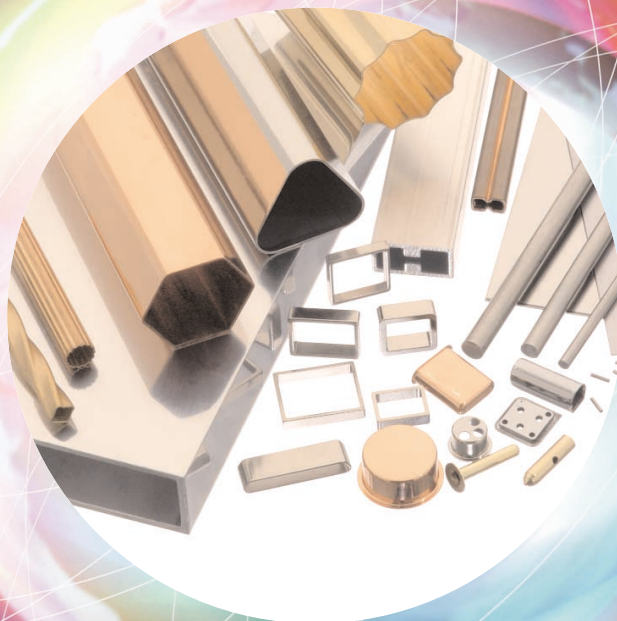


CAPABILITIES OVERVIEW



A.T. WALL COMPANY

Where imagination and design take shape.



CAPABILITIES OVERVIEW

	WAVEGUIDE TUBING	SIDEWALL FRAMES	PRECIOUS METAL TUBING	SPECIAL TUBING	TANTALUM	METAL COMPONENTS
PROCESS	Cold Drawn Seamless Tubing	Sidewall Frames, cut & finished from tubing	Cold-Drawn Seamless Tubing	Cold-Drawn Seamless Tubing	Tube Drawing, Cutting, Stamping, Coining, Machining Complete Testing to ASTM B521 upon request	Stamped & Drawn Parts Tube Fabrications
MATERIALS	Aluminum Copper & Bronze Invar Stainless & Carbon Steel Monel® Silver	KOVAR® (29/17, ASTMF-15) Copper 42, 44, 46, 52 alloy Stainless & Carbon Steel	Fine Gold Karat Gold Gold-Filled Electronic Gold Alloys Fine Silver Sterling Silver Coin Silver Platinum Palladium	KOVAR (29/17, ASTMF-15) Invar 36 Monel® (400, 404) Mu Metal Tantalum Nickel Alloys Copper, Brass, Bronze Aluminum Stainless & Carbon Steel	Tantalum and Tantalum Alloy: Tubes to ASTM B521; Plate, Sheet and Strip to ASTM B708; Rod and Wire to ASTM B365. Niobium and Niobium Alloy: Tubes to ASTM B394; Bar, Billet, Rod and Wire to ASTM B392; Plate, Sheet and Strip to ASTM B393.	KOVAR (29/17, ASTMF-15) Stainless & Carbon Steel Nickel Silver Copper, Brass Aluminum Sterling Silver Gold-Filled Nickel Alloys Tantalum
TUBE SHAPES	Rectangular Round Square Custom Shapes	Rectangular Square Custom Shapes	Rectangular Round Square Custom Shapes	Rectangular Round Square Custom Shapes	NA	Tube Fabrications: All shapes Stamped Parts: See below
SIZE RANGE	Standard: WR 3 to WR 650 Specials: Thin Wall Heavy Wall Reduced Height	O.D.: from .062 x .032 to 4.000 x 2.000 Wall: from .010 to .250	O.D.: .020 to 6.000 Wall: .003 to .500 Coin Silver Slip Rings: O.D.: .030 to 10,000 Wall: .003 to .375	O.D.: .020 to 6.000 Wall: .003 to .500	Overall ODs: .040" to 4" Thin Wall IDs: .003" to .375"	Strip size: up to .062 thick up to 6.000 wide Press: up to 100 tons Transfer Press: up to 12 stations Draw depths: up to 3.000
LENGTHS	Standard is 12 feet. Specials available on request.	Frame heights from .025 to 2.000	Cuts to .025 min. Mill lengths to 20 feet Arbor wound coils	Cuts to .025 min. Mill lengths to 20 feet. Specials up to 40 feet.	Annealing: up to 18'	NA
OTHER	Immediate stocks available in all sizes. Ask for W/G selection guide listing sizes and tolerances.	Additional operations: Pierced or Drilled holes Lapping, Grinding, Spot Welding & Brazing on application	Slip rings may be cut from seamless tubing or machined from plate. Special machining operations include knurling (or splining) of the I.D. as requested.	Specials processing includes O.D. centerless grinding and I.D. honing. Cutting processes include saw, abrasive and ECM (no burr) cutting. A special Tantalum seamless tube stocking program includes popular sizes under .500 O.D.	Quick tube re-draw to size from stock In-house engineering	Immediate stocks available in covers & eyelets for the frequency control industry. Tube fabrication includes slotting, dimpling, lancing, notching, flaring, beading, grooving, bending, etc. Other processing includes bead blasting, ultrasonic cleaning & plating.

NOTE: All dimensions in inches unless otherwise stated. KOVAR® is a registered trademark of Carpenter Technology. Monel® is a registered trademark of the International Nickel Company

Since 1886 the defense, telecommunications, automotive, aerospace and countless other industries have depended upon A.T. Wall for its skills in waveguide, precision metal stamping, precious metals and glass to metal seal products.

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