

EASTON
MEDICAL TUBING



PRECISION MEDICAL TUBING



WORLD CLASS ARCHERY

EXTREME MOUNTAINEERING

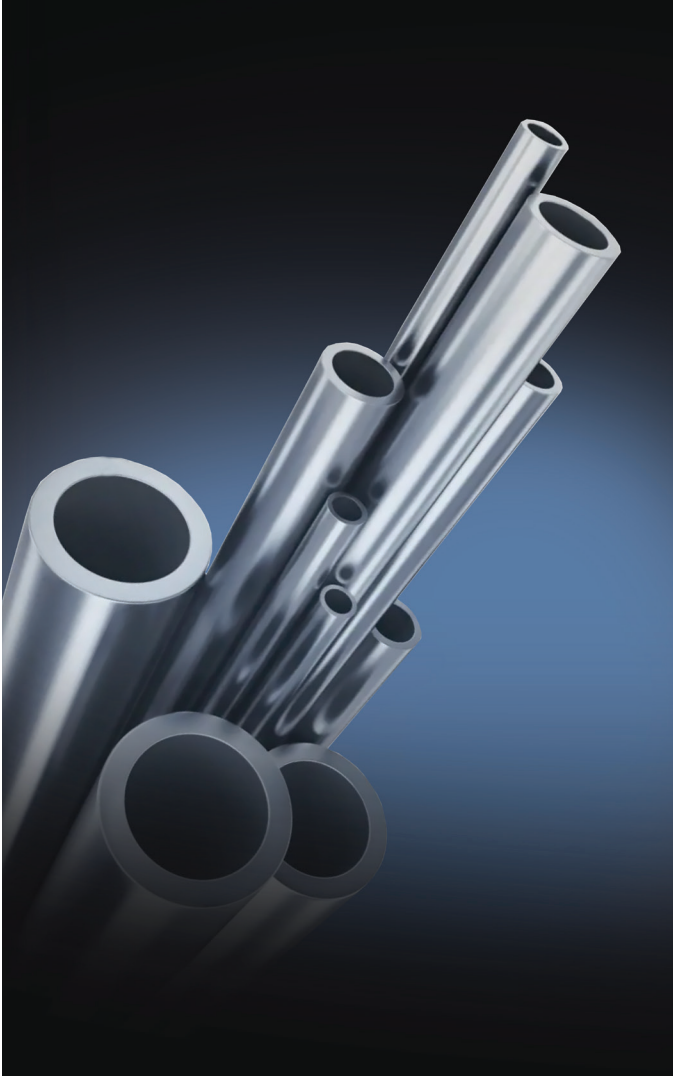
EASTON MEDICAL TUBES

- ISO 13485 Certified
- Made in USA
- Tailored solutions – glass fiber carbon fiber, aluminum/hybrids, stainless steel
- Custom sizes
- CNC machining, centerless grinding, cosmetics, anodize
- Very high stiffness-to-weight and strength-to-weight ratios (carbon fiber)
- Electrically insulating (glass fiber)
- Withstands autoclave sterilization
- Biocompatible
- Radiolucent (composites)



EXAMPLE PROPERTIES OF SELECTED MEDICAL TUBES

Class	Fabrication Process	OD in (mm)	ID in (mm)	Wall in (mm)	Density oz/in ³ (g/cm ³)	Weight oz/in (g/cm)	Bulk Modulus MSI (GPa)	Other
Glass fiber/epoxy	Pul-wound pultrusion	.365 (9.27)	.306 (7.77)	.030 (.75)	1.1 (1.8)	.033 (.37)	5.8 (40.0)	Radiolucent Electrically Insulating
Glass fiber/epoxy	Pul-wound pultrusion	.329 (8.36)	.236 (5.99)	.047 (1.18)	1.2 (2.1)	.050 (.56)	6.3 (43.4)	Radiolucent Electrically Insulating
Carbon fiber/epoxy	Pul-wound pultrusion	.285 (7.24)	.231 (5.87)	.027 (.69)	0.9 (1.6)	.020 (.22)	14.5 (100)	Radiolucent Electrically Conductive
Carbon fiber/epoxy	Unidirectional pultrusion	.251 (6.38)	.205 (5.19)	.023 (.59)	0.9 (1.6)	.015 (.17)	27.9 (191)	Radiolucent Electrically Conductive
Carbon fiber/epoxy	Mandrel wrap prepreg	.281 (7.14)	.231 (5.87)	.025 (.64)	0.9 (1.6)	.018 (.20)	16.2 (111)	Radiolucent Electrically Conductive
7075 Aluminum	Drawn and heat treated	.372 (9.45)	.346 (8.79)	.013 (.33)	1.6 (2.8)	.024 (.27)	10.4 (71.3)	Radiopaque Electrically Conductive
7075 Aluminum	Drawn and heat treated	.355 (9.02)	.305 (7.75)	.025 (.64)	1.6 (2.8)	.042 (.47)	10.4 (71.3)	Radiopaque Electrically Conductive



PRODUCT RANGE

We develop and manufacture tubes using multiple materials and processes. We use pultrusion (unidirectional and circumferentially wound) for glass fiber, carbon fiber, stainless steel or combination designs. All our pultruded parts employ high-strength engineered epoxy resins for maximum strength, durability and abrasion resistance. Additionally, we offer mandrel wrapped tubes made from carbon fiber/epoxy prepregs.

We have a vertically integrated aluminum facility, and offer hard alloy tubes in annealed or fully hardened tempers. Our in-house heat treat and anodize capability give us full control of quality and ensure on time delivery.

We offer precision CNC machining through our fully qualified network of local teammates. We can decorate or mark your tube with a broad selection of secondary cosmetic options.

HYBRID TUBES

Easton also offers hybrid tubes, with an aluminum core or jacket mated to a composite. These offer unique benefits for customization of properties, cosmetic treatments, and straightness.

STAINLESS STEEL

Easton Technical Products takes pride in its stainless steel tubing capabilities. With precision at the forefront, we excel in drawing tubes down to specific dimensions and maintaining exceptionally tight tolerances. Our tubing ranges from 0.140 to 0.750 inches in outer diameter, with a minimum wall thickness of 0.006 inches and an interior diameter starting at 0.128 inches. We offer a versatile tensile range from 75 Ksi to 185 Ksi (515 MPa to 1275 MPa) in annealed, ¼ hard, ½ hard, ¾ hard, and full hard conditions, ensuring the right material for your needs. Our materials include high-quality 304 and 316 grades, and our meticulous craftsmanship is reflected in tolerances of +/- 0.001 inches for both OD and ID. Additionally, our tubing exhibits outstanding straightness with a runout of only 0.004 inches over a 28-inch span. When precision matters, trust Easton for stainless steel tubing that meets the most demanding specifications.

STAINLESS STEEL SPECIFICATIONS

OD: 0.140 – 0.750

Wall Thickness: 0.006 MIN

ID: MIN 0.128

TOLERANCE

OD +/- 0.001

ID +/- 0.001

ANNEALED

¼ Hard

½ Hard

¾ Hard

Full Hard

TENSILE RANGE

UTS 75 Ksi – 185 Ksi (515 MPa – 1275 MPa)

MATERIAL GRADES

304

316

STRAIGHTNESS RUNOUT

0.004 @ 28 inch Span



Founded in 1922, Easton has been synonymous with precision tubing for demanding use in a staggering variety of applications. Our tubes are used in archery, winning all Olympic medals since 1972, tent poles, protecting life on Mount Everest, and even on the moon, with Easton tubes supporting the Apollo missions. We debuted medical tubing over a decade ago, and have grown to become a major supplier of composite tubing for minimally invasive surgery.



5040 Harold Gatty Drive, Salt Lake City, Utah, 84116 USA

(801).539.1400 Tubeinfo@Eastontp.com