Fiber Laser Cutter

About	Fiber laser cutters are very useful for cutting and engraving flat sheet metals and metal tubing. Light from laser diodes is sent into a fiber-optic cable where a specific wavelength is generated and amplified, the resulting laser beam is guided into the material. Laser beam kerf is approximately 0.005 in (0.127 mm), but varies based on material, thickness, cut geometry, and environmental factors.
Category	2D Fabrication
Location	Back Room
Brand /Model	FabLight FL4500
Status	AVAILABLE
Materials	• Steel, 0.25 in. (6 mm) max thickness • Stainless Steel, 0.188 in (4.8 mm) max thickness • Aluminum, 0.188 in (4.8 mm) max thickness • Copper and alloys, 0.065 in (1.65 mm) max thickness • Titanium, unknown max thickness • Molybdenum, unknown max thickness • Graphite, unknown max thickness

Standard Operating Procedure

Google Apps Sign-in Required

You must login to your uAlberta Google apps account to access these files.

Sheet Cutting

Tube Cutting

Training

Sign up for training here: Training Registration Calendar

Training	Type	Time Estimate	Prerequisites	Checklist/Document
FLC - Training 1- Sheet Training	ON-MACHINE	50 min	None	

Documentation

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Safety Data Sheets	None
Hazard Assessments	
Application Resources	Fab Light Knowledgebase Fab Light Youtube Channel
Manufacturer's Manuals	