



419.478.3695

**Fax
419.478.3696**

**Toll Free
1.888.7TENCOM**

**E-Mail
mail@tencom.com**

**PO Box 12035
5261 Tractor Rd
Toledo, OH 43612**

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Tencom Ltd. is a manufacture of fiberglass reinforced composite materials. The manufacturing process called pultrusion produces composite products in a variety of standard structural shapes and custom profiles.

Located in Toledo, Ohio - Tencom is dedicated to providing its customers consistently high quality products at the very best prices. This is to be accomplished without the slightest compromise in customer service.

Tencom can service almost any need in pultruded composite materials. If you use or are considering using composite materials contact us for a competitive quote.

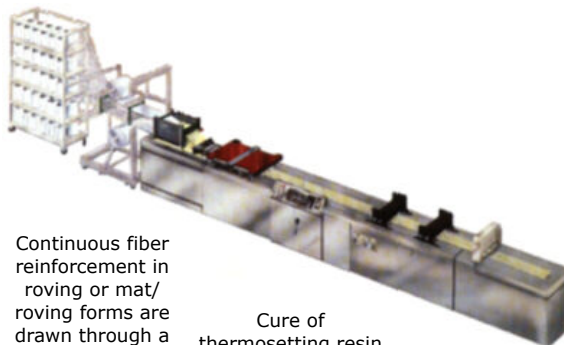
Tencom also offers a variety of secondary operations including punching, drilling, centerless grinding and even tapered grinding of fiberglass rods.



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The Pultrusion Process



Continuous fiber reinforcement in roving or mat/roving forms are drawn through a resin bath to coat each fiber with a specially formulated resin mixture. The coated fibers are then drawn through a heated die.

Cure of thermosetting resin is initiated by heat in the die and catalyst in the resin mix. The rate of reaction is controlled by heating and cooling zones in the die.

The resulting high strength profile is cut to length, ready to use as it leaves the pultrusion machine.

Properties of pultruded structural shapes

- Lightweight - less density - 20% of steel; 70% of aluminum
- High Strength - stronger than structural steel pound for pound
- Superior dimensional stability - wide temperature range uses and thermal expansion values better than 50% of mild steel, 35% of stainless steel and 25% of aluminum
- Electrical insulation - better design advantages through excellent dielectric properties
- Thermal insulation - high strength and insulating values
- Corrosion resistance - harsh elements and environments
- Electromagnetic transparency - greater frequency freedom of movement for radiowaves and microwaves
- Consistent cross section
- Inherent color
- Part consolidation
- Ease of fabrication & installation

Resin systems available include standard polyester as well as vinylester, epoxy, and phenolic.