



Fused Deposition Modeling (FDM)

Fused Deposition Modeling (FDM) is a solid-based rapid prototyping method that extrudes material, layer-by-layer, to build a model. The system consists of a build platform, extrusion nozzle and control system.

The build material, production quality thermoplastic, is melted and then extruded through a specially designed head onto a platform to create a two-dimensional cross section of the model. The cross section quickly solidifies, and the platform descends where the next layer is extruded upon the previous layer. This continues until the model is complete; it is then removed from the build chamber and cleaned for shipping.

Generating an instant FDM quote at Quickparts is a simple 4-step process:

1. Login to your Quickparts account.
(If you are not already registered, registration is free and easy at Quickparts.com)
2. Upload 3D CAD files.
3. Select the units, materials, finish and quantity for your custom part.
4. Click the "Create Quote" button. QuickQuote will calculate and instantly present a custom binding quote for the manufacture of your part.



AC Motor Control

The entire process of quoting and buying your part can take as little as 2 minutes! It's that easy.

Quickparts Advantage

- Latest Stratasys Machines: FORTUS 400mc and FORTUS 900mc.
- Faster Time-to-market: Standard lead time for FDM parts is 3-5 days.
- Overnight delivery: Shipments are via FedEx Priority Overnight, unless otherwise specified.

Highlights

- Ideal for conceptual models, engineering models and functional testing prototypes.
- Maximum dimensions for instant quotes: 20"x20"x20".
- Dimensional tolerances are +/-0.005" for the first inch, and +/-0.002" for each additional inch. In the z height (vertical), standard tolerances are +/-0.01" for the first inch, +/-0.002" on every inch thereafter.
- Material choices include production quality ABS (various colors), ABSi (various colors), Polycarbonate (white), ABS-PC (black), ULTEM, PPSF
- Wall thickness: Standard: 0.020" High Resolution: 0.010"
- Layer Thickness: Standard Resolution: 0.010"; Minimum wall thickness is 0.020".

Contact Information

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