

# *Additive Inc* - **RAPID PROTOTYPING**

## Professional 3D Printing - FDM



**Call: (800) 479-4330 /**  
**[www.additiveinc.com](http://www.additiveinc.com)**

The information presented are typical values intended for reference and comparison purposes only. They should not be used for design specifications or quality control purposes. Actual values will vary with build conditions.



**Additive, Inc**  
1278 North 750 West, Suite 300  
Springville, UT 84663  
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## About Us

Additive, Inc is among leading rapid prototyping companies specializing in high quality FDM ( Fused Deposition Modeling ) and PolyJet rapid prototyping services. The FDM process is ideal for conceptual modeling, functional prototyping, manufacturing tools, and end-use-parts. While the PolyJet process will produce high quality and fine detailed prototypes. Whatever your rapid prototyper needs, Additive, Inc will be able to quickly produce your parts.

Get your parts FAST! We own and operate all of our FDM and PolyJet rapid prototyping services machines. This means we don't have to send your parts to a secondary service bureau and mark-up the price, making the process faster and more affordable for you.

Additive, Inc (among leading rapid prototyping companies) provides you or your company the tools for a fast, easy and affordable rapid prototyper.

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# FDM

## The ultimate 3D production system



The Fortus 900mc is the most powerful FDM system available, delivering remarkable agility, sharp accuracy and high return on investment. With 12 real thermoplastic options and a massive build envelope, its only real competition is the old way of doing things.

## Overview

### Think Big

The Fortus 900mc 3D Production System builds durable, accurate, repeatable parts as large as 914 x 610 x 914 mm (36 x 24 x 36 in.) with two material bays for maximum unattended build time.

Three layer thickness options let you strike just the right balance between fine feature detail and FDM's fastest build. For demanding functional prototypes, production parts, jigs, fixtures and factory tooling, the 900mc works with 12 real thermoplastics that meet a range of material performance requirements.

## Specifications

### Fortus 900mc Product Specs

#### Build size:

914 x 610 x 914 mm (36 x 24 x 36 in.)

#### Material delivery:

Two bays each for material and support canisters

For maximum material capacity and up to 400 hours of unattended run time, the optional Fortus Plus upgrade enables Xtend 500 Fortus Plus material use.

#### Fortus Plus Upgrade option:

A half-day customer support visit aligns material capabilities with Fortus Plus Systems, so you can access a growing list of FDM thermoplastics and share inventory across the complete range of Fortus 3D Production Systems.

#### Layer thicknesses:

- 0.330 mm (0.013 in.)
- 0.254 mm (0.010 in.)
- 0.178 mm (0.007 in.)

#### Support structure:

Soluble for most materials; break-away for PC-ISO, ULTEM and PPSF; soluble or break-away for PC



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**System size/weight:**

2772 x 1683 x 2027 mm (109.1 x 66.3 x 79.8 in.)/with crate: 3287 kg (7247 lbs.), without crate: 2869 kg (6325 lbs.)

**Achievable accuracy:**

Parts are produced within an accuracy of  $\pm .09$  mm ( $\pm .0035$  in.) or  $\pm .0015$  mm/mm ( $\pm .0015$  in/in), whichever is greater. (Accuracy is geometry dependent. Achievable accuracy specification derived from statistical data at 95% dimensional yield.)

**Workstation compatibility:**

Windows 2003 through Windows 8

**Network communication:**

10/100 base T connection; Ethernet protocol

**Power requirements:**

230VAC nominal three-phase service with 5% regulation; 230VAC as measured phase-to-phase; 50Hz or 60Hz;  
40 Amp circuit

**Regulatory compliance:**

CE

**Special facility requirements:**

None

## Software

### Insight Software

Insight software prepares your CAD program's STL output to be manufactured on a Fortus system by automatically slicing and generating support structures and material extrusion paths. For maximum control, users can manually edit parameters that determine the look, strength and precision of parts as well as the speed and material use of the FDM process.

#### With Insight, you can:

- Optimize build orientation for maximum strength and smoothest surface finish
- Customize supports for fast, easy removal and best use of materials
- Program pauses into the build for any reason, such as to embed hardware or circuitry
- Manipulate tool paths for advanced control over part properties

Included with Insight is Control Center. This sophisticated software application communicates with user workstations and Fortus systems to manage jobs and monitor production status. Design, engineering and manufacturing teams can network and share 3D manufacturing capacity to maximize efficiency and throughput.