mapleMaker Mini V2 3D Printer

By: (MiniMadRyan)

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Located at: http://www.youmagine.com/designs/maplemaker-mini-v2-3d-printer

Short description:

3D Printed RepRap 3D Printer. New and improved design featuring large 8x6x6 build volume!

Description:

     Update Revised the License too GPLv3, added a revised Build Guide, as well as cleaned up the extruder mounts to included Hexagon and E3D mounts as well!
 New Updated release to include a revised extruder design (original is still there too!) a 2 piece printable bed, updated build guide, and the first draft of a getting started guide. Enjoy! Introducing the mapleMaker Mini V2 3D Printer The mapleMaker Mini introduces you to the world of additive manufacturing and 3D printing. With your own 3D printer, your concepts and design ideas can be translated from computer drawings to physical objects in short period of time. The aim of this kit was to reduce costs and create an accessible, hackable, upgradeable, and ultimately, user customizable 3D Printer. We believe that a 3D printer should evolve with it’s users needs and knowledge, and become a platform for any number of future upgrades and additions without the need for costly re-works or additional components. Check out www.maplemakermedia.com for more information on the printer, the build guide, information and to pre-order printed parts kits!
 The mapleMaker Mini V2 features: - A large 8"x6"x6" build volume - All metal hot end (e3d Lite6) - Completely 3D Printed frame and all major components - Simplified frame construction - Simplified printed parts components, all printable in 36 hours or less - LCD control panel and electronics enclosures Ultimately though, we want to empower the next generation of designers, developers, and engineers by giving them the platform and tools to suite their needs for today, tomorrow, and well into the future.   We are Open Source. Collaboration fuels Innovation. Create, Innovate, and Share. Notes:
 Included in this initial release are the original CAD drawings, STLs, configuration.h for Marlin firmware and a fully illustrated build guide. The build guide includes a complete bill of materials, reseller information, and every step required to build your printer. Video tutorials and guides on firmware configuration and set up will be posted online at www.maplemakermedia.com The guide will also be available online within the next few days at www.maplemakermedia.com. Electronics Notes: Electronics wise, the printer uses a standard RAMPS 1.4 install with Eric Zalms Marlin firmware: https://github.com/ErikZalm/Marlin/ Parts list: NEMA 17 48oz Stepper Motor - Quantity: 3 NEMA 17 34oz Stepper Motor - Quantity: 2 Flexible Coupling – 5mm to 5mm - Quantity: 2 20 Tooth GT2 Pulley - Quantity: 2 Open Ended 6mm GT2 Belt (2 meters) - Quantity: 1 LMS8UU (Short) 8mm Linear Bearing - Quantity: 12 623ZZ Ball Bearing - Quantity: 4 Poloululu 4988 Stepper Drivers - Quantity: 4 Endstop - Quantity: 3 RAMPS 1.4 Controller - Quantity: 1 Arduino Mega 2560 - Quantity: 1 RAMPS LCD Display - Quantity: 1 30mm Cooling Fan - Quantity: 4 12V 5A Power Supply - Quantity: 1 Thermistor Cable (1m) - Quantity: 1 Endstop Cables (1m) - Quantity: 3 e3D Lite6 All Metal Hot End - Quantity: 1 MK8 Extruder Drive Gear - Quantity: 1 Compression Spring (for Extruder & bed) - Quantity: 5 762mm length Linear Rods (Pack of 6) - Quantity: 1 Allen Key Set - Quantity: 1 Nylon Cable Ties (100 pack) - Quantity: 1 Ceramic Screwdriver - Quantity: 1 4GB SD Card - Quantity: 1 Fasteners & Threaded Rod: You will also require the following fasteners and threaded rod to complete the build. These items can be purchased from your local hardware retailer or online. M3X10mm Socket Cap Screw x135 M3X20mm Socket Cap Screw x8 M3X16mm Socket Cap Screw x8 M4X10mm Socket Cap Screw x1 M4X16mm Socket Cap Screw x2 M5X12mm Socket Cap Screw x60 M4X40mm Socket Cap Screw x1 4mm – 0.7 Stainless Steel Threaded rod 4mm – 0.7 Flat nut x3

If you can, please use the online documentation found at http://www.youmagine.com/designs/maplemaker-mini-v2-3d-printer because those may have been been updated. Also, there you can interact and provide praise and/or feedback.