

# MICRO SLICE

V2.5



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## Parts List

## Hardware.

- ☐ 6 x 8mm M3 Screws.
- ☐ 14 x 10mm M2 Screws.
- ☐ 6 x 8mm M2 Screws.
- ☐ 14 x 6mm M2 Screws.
- ☐ 4 x 60mm M3 Standoffs.
- ☐ 4 x Rubber Feet.
- ☐ 12 x 3mm x 2mm Neodymium Magnets.
- ☐ 5 x M3 3mm Nylon Spacers.
- ☐ 4 x M3 Nylon Washers.
- ☐ 5 x M3 8mm Nylon Screws.
- ☐ 4 x M3 6mm Nylon Screws.

## Wiring & Connectors.

- ☐ 1 Metre x 20-Way Ribbon Cable.
- ☐ 1 x 10 Pin DuPont Housing.
- ☐ 2 x 8 Pin DuPont Housings.
- ☐ 1 x 6 Pin DuPont Housing.
- ☐ 5 x 4 Pin DuPont Housings.
- ☐ 5 x 3 Pin DuPont Housings.
- ☐ 5 x 2 Pin DuPont Housings.
- ☐ 5 x 1 Pin DuPont Housings.
- ☐ 30 x Female DuPont Pins.
- ☐ 30 x Male DuPont Pins.
- ☐ 20cm x Heat shrink (1.6mm).
- ☐ 20cm x Heat shrink (2.4mm).
- ☐ 20cm x Heat shrink (4.8mm).
- ☐ 20cm x Heat shrink (6.5mm).

## X-Axis Return Pulley Kit.

- ☐ 2 x MR83ZZ 3x8x3.
- ☐ 1 x 15-Teeth GT2 Roller Pulley.
- ☐ 1 x 3mm Rod (20mm).

## Y-Axis Return Pulley Kit.

- ☐ 2 x MR83ZZ 3x8x3.
- ☐ 1 x 15-Teeth GT2 Roller Pulley.
- ☐ 1 x 3mm Rod (16mm).

## Microbarbs Brass Inserts.

- ☐ 32 x M2 Microbarbs.
- ☐ 15 x M3 Microbarbs.

## Electronics.

- ☐ 2 x EasyDrivers.
- ☐ 2 x 1/30 Stepper Motors.
- ☐ 1 x Arduino UNO R3.
- ☐ 3 x 7mm Push-To-Make Switches.
- ☐ 4 x End-Stop Switches.
- ☐ 1 x SPDT Slide Switch.

## Mechanicals.

- ☐ 2 x 4mm Rod (250mm).
- ☐ 2 x 3mm Rod (184mm).
- ☐ 2 x 15-Tooth GT2 Pulleys (grub-screw).
- ☐ 1 x Metre Length of 3mm Belt.
- ☐ 4 x 3mm ID Linear Bearings.
- ☐ 4 x 4mm ID Linear Bearings.

## 200mW Laser Module.

- ☐ 1 x 200mW 405nm Diode.
- ☐ 1 x 3-Element Glass Lens.
- ☐ 1 x 12mm x 30mm Case.

## Analogue Laser Driver Module.

- ☐ 1 x Analogue Laser Driver module.
- ☐ 1 x NTC Thermistor
- ☐ 1 x TO-220 Heat-Sink.
- ☐ 1 x Thermal Pad.
- ☐ 1 x M3 Screw.
- ☐ 1 x Plastic Screw Insulator.
- ☐ 2 x 2.54mm JST-PH Socket.
- ☐ 2 x 2.54mm JST-PH Plug.
- ☐ 4 x 2.54mm JST-PH Female Pins.
- ☐ 3 x 2mm JST-PH Socket.
- ☐ 3 x 2mm JST-PH Plug.
- ☐ 6 x 2mm JST-PH Female Pins

## Laser-Cut Parts.

- ☐ 125 x Laser-Cut Parts.

## 500mW Laser Module.

- ☐ 1 x 500mW 405nm Blue Diode.
- ☐ 1 x 3-Element Glass Lens.
- ☐ 1 x 16mm x 40mm Case.
- ☐ 1 x Tube of Thermal Potting Compound.

## Safety.

- ☐ 1 x Laser Safety Glasses & Case.

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