

OPTIMUS C1 Specifications

3D printer. CNC. Laser

Dimensions:
55 x 52 x 57 cm

Weight:
Approx. 45kj

Frame:
fully enclosed all metal body

Connection:
Supplied SD card, USB Memory supported

Power Supply:
110v/220v MINGWEI with output of 24V/16A

Interface:
3.5inch touch screen

Motors:
NEMA 17 1.2A, 1.8 step angle for XYZ, NEMA17 0.6A for Extruder; TMC 2208 Quiet Stepper Drivers.

Electronics:
MKS GEN V1.4 with Custom Marlin Firmware



3D printer

FDM:
Fused Deposition Modeling Printing technology

Print bed:
Print bed - Anodised aluminium with heated bed upto 110 °C

Bed Leveling:
Fully auto bed leveling with inductive sensor on 9 point mesh

Print Volume: 280 x 280 x 280 mm

Layer Resolution:
0.05 mm to 0.60mm (dependent on nozzle size)

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CNC

Spindle: DC Spindle

Shaft Diameter : 80 mm

Head Weight : 2kg

RPM : upto 12000

Spindle Power : Spindle Power - 100VDC 600 Watts

CNC bed: Aluminium Tslot bed

Working Volume: 280 x 230 x 80 mm

Collet : Collet - ER-11

Materials:
Materials - WOOD, PVC, ACRYLIC, FOAM, ALUMINUM, PCB AND MANY MORE

Laser

Laser Type: Diode laser

Spectrum : Spectrum - 450 nm

Head Weight: 0.5kg

Focus leng: 25mm

Power : 2W; 7W (Optional)

Working Volume: 280 x 280 x 40 mm

Materials:
Materials - WOOD, Leather, Anodlized Alumium and many more