

OLSK Small 3D printer v2 - BOM

Quantity Name

Hardware

- 5 Setscrew din914 m3 6mm
- 2 Bolt din912 m2 6mm
- 10 Bolt din912 m3 8mm
- 13 Bolt din912 m3 10mm
- 2 Bolt din912 m3 12mm
- 2 Bolt din912 m3 16mm
- 4 Bolt din912 m3 35mm
- 2 Bolt din912 m4 6mm
- 3 Bolt din912 m4 8mm
- 10 Bolt din912 m4 16mm
- 4 Bolt din912 m4 25mm
- 2 Bolt din912 m4 40mm
- 2 Bolt din912 m5 8mm
- 4 Bolt din912 m5 16mm
- 17 Bolt din912 m6 12mm
- 55 Bolt iso7380 m3 6mm
- 2 Bolt iso7380 m3 8mm
- 8 Bolt iso7380 m3 10mm
- 4 Bolt iso7380 m3 12mm
- 7 Bolt iso7380 m3 14mm
- 4 Bolt iso7380 m3 16mm
- 10 Bolt iso7380 m3 20mm
- 14 Bolt iso7380 m3 25mm
- 12 Bolt iso7380 m3 30mm
- 4 Bolt iso7380 m4 6mm
- 4 Bolt iso7380 m4 8mm
- 4 Bolt iso7380 m4 10mm
- 4 Bolt iso7380 m5 10mm
- 8 Bolt iso7380 m5 12mm
- 4 Bolt iso7380 m5 16mm
- 16 Bolt iso7380 m6 12mm
- 6 Bolt din7991 m3 6mm
- 2 Bolt din7991 m3 12mm
- 12 Bolt nylon M3 6mm
- 14 Nut din985 m3
- 4 Nut din934 m3
- 4 Nut din934 m4
- 4 Nut din439 m8
- 2 Washer M4
- 10 T nut 6 m3
- 10 Spacer hex nylon M3 x 6mm
- 2 Bolt nylon M3 12mm
- 10 Nylon Nut M3

Frame

- 1 Top frame (3mm aluminium plate - cnc milled or laser cutted)
- 1 Front frame (3mm aluminium plate - cnc milled or laser cutted)
- 1 Back frame (3mm aluminium plate - cnc milled or laser cutted)
- 2 Side frame (3mm aluminium plate - cnc milled or laser cutted)
- 1 Floor frame (3mm aluminium plate - cnc milled or laser cutted)
- 1 Bottom frame (3mm aluminium plate - cnc milled or laser cutted)
- 1 Bottom cap (3mm aluminium plate - cnc milled or laser cutted)
- 1 Top front door stopper (3mm aluminium plate - cnc milled or laser cutted)
- 2 Top side window stopper (3mm aluminium plate - cnc milled or laser cutted)
- 2 Bottom side window stopper (3mm aluminium plate - cnc milled or laser cutted)
- 3 Bottom bracket (3mm aluminium plate - cnc milled or laser cutted)
- 1 Bottom bracket psu (3mm aluminium plate - cnc milled or laser cutted)
- 4 Window (3mm acrylic - laser cutted)
- 2 Door (3mm acrylic - laser cutted)
- 1 Screen holder (3D printed)
- 4 Hinge part A (3D printed)

- 4 Hinge part B (3D printed)
- 4 Wire bracket (3D printed)
- 1 Camera holder (3D printed)
- 1 Spool stopper (3D printed)
- 1 Top Frame Wire Holder (3D printed)
- 4 R2020 nut 6 Alu extrusion 400mm
- 2 L Alu profile 40x15mm 300mm
- 4 Uniblock nut 6
- 2 Aluminium Handle (hole spacing 192 mm)
- 1 Spool holder (furniture leg or 3D print)
- 1 Rubber grommet 10mm
- 2 Neodymium magnet round 8x3mm
- 1 PTFE 4mm M10 Tube Pneumatic Fitting (comes with the PTFE tube)
- 4 Rubber feet (air compresor style)
- 1 Silicone Air Tube
- 1 Filament Tube (PTFE - capricorn)

Electronics

- 1 Mainboard Octopus Pro
- 2 Stepper driver tmc5160 pro
- 3 Stepper driver tmc2130
- 1 Power Supply 600w - LRS-600 48v
- 1 CPU
- 1 Buck converter 24 to 19v 5A - XL4015
- 1 480W DC-DC CONVERTER 48V IN 24V 20A OUT
- 1 3D touch sensor
- 1 Accelerometer adxl345
- 1 Filament Sensor 1.75mm
- 1 Neopixel strip 18 modules
- 1 Fan cover (3D printed)
- 1 Fan Adapter (3D printed)
- 4 O-ring
- 1 FAN 9733 12v
- 1 FAN 3006 5v
- 2 FAN 4020 12v
- 1 Hdmi screen 7"
- 1 Power Entry AC 10A 250V
- 1 Camera module OV5640 - USB
- 1 USB Type A - panel mount
- 1 USB hub type A - 4 slots
- 1 USB wifi adapter
- 1 HDMI to DP adapter
- 1 Fuse 250v 10A

Z axis

- 1 bed (3mm aluminum plate - cnc milled or laser cutted)
- 1 Bed frame (8mm aluminium plate - cnc milled)
- 2 Stepper mottor with 300mm integrated LeadScrew
- 4 Linear shaft 12mmx400mm
- 4 LMH12LUU linear bearing
- 8 SK12 shaft holder
- 4 Silicon shock absorber 16x18mm
- 4 Knurled thumb screw m5 x30mm
- 1 flexible sheet bed 250x250mm
- 1 magnetic bed 250x250mm
- 1 Silicon pad 300W 24V
- 4 M8 to M5 Insert
- 2 T8 POM leadscrew nut
- 2 Oldham Coupler for T8 nut

Extruder

- 1 Extruder top plate (3mm aluminium plate - cnc milled)
- 1 Extruder botom plate (3mm aluminium plate - cnc milled or laser cutted)
- 1 Extruder heat sink (12mm aluminium - cnc milled)
- 1 Cooling duct (3D printed)
- 1 3D touch spacer (3D printed)
- 1 Extruder wires holder (3D printed)
- 1 Sherpa mini extruder (metal)
- 1 Heating block V6 style

- 1 Nozzle high flow 0.4 mm
- 1 Heat break bi-metal titanium-copper
- 1 Thermistor 104NT
- 1 Heating cartridge 50w 24v

Core XY

- 1 Gantry bridge (8mm aluminium plate - cnc milled)
- 1 Sub top frame bracket (3mm aluminium plate - cnc milled or laser cutted)
- 1 Gantry bracket R (3mm aluminium plate - cnc milled)
- 1 Gantry bracket L (3mm aluminium plate - cnc milled)
- 1 Spacer bracket R (3mm aluminium plate - cnc milled)
- 1 Spacer bracket L (3mm aluminium plate - cnc milled)
- 1 Tensioner bracket (3mm aluminium plate - cnc milled)
- 2 Tensioner bearings holder (15mm aluminium - cnc milled)
- 2 Tensioner frame (15mm aluminium - cnc milled)
- 4 Belt clip gt2 6mm (3D printed)
- 1 MGN9C rail with carriage 300mm
- 2 Linear bearing SCV12UU
- 2 Linear shaft 12mmx400mm
- 24 Flange Bearing F623ZZ
- 2 Pulley gt2 20T
- 2 Belt gt2 6mm 1800mm
- 2 stepper motor LDO-42STH48-2804AH
- 4 M3 spacer 8 mm
- 8 M3 Spacer 10mm
- 2 M3 spacer 18mm
- 10 M3 spacer 20mm
- 16 M3 nylon washer

Wiring

- 1 HDMI cable Flat
- 1 USB type C to A cable (provided with main board)
- 1 USB micro to A cable (provided with hdmi screen)
- 1 USB A female to male extencion (for the camera)
- 1 DC 48v power Cable (self made)
- 1 DC 24v power Cable (self made)
- 1 DC 24v jumper power Cable (self made)
- 1 DC 19V power cable (with 5.5mm x 2.1mm barrel jack conector - self made)
- 1 Led strip cable (self made)
- 1 AC 220v power cable (self made)
- 1 AC 220v neutral jumper cable (self made)
- 1 AC 220v live jumper cable (self made)
- 1 Earth cable (self made)
- 2 Mesh wire sleeve
- 1 Wire bracket small
- 1 Zip ties pack
- 1 Heat shrinking tube kit
- 3 Velcro Cable Tie