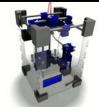




The Portable Open Source 3D Printer

Bill of Materials



Home Gallery

> FAQ Store

B.O.M.

Build guide

Tutorials

Calculator

Downloads

Links Support D 1. (37

Bolts / Nuts

(All versions)

∘ 16 - 10-32 x 3/4" Socket head cap screws

 \circ 4 - 8-32 x 1-1/2" Socket head cap screws

• 8 - 8-32 x 1" Socket head cap screws

• 9 - 8-32 x 3/4" Socket head cap screws

• 1 - 6-32 x 2" Socket head cap screws

∘ 5 - 6-32 x 1-3/4" Socket head cap screws

 \circ 10 - 4-40 x 3/4" Socket head cap screws

 $\circ~15~$ - M3 x 10mm Socket head cap screws

• 8 - 8-32 x 3/8" grub screws

∘ 2 - 4-40 x 1/4" grub screws

• 16 - 10-32 Hex nuts

• 37 - 8-32 Hex nuts

。 8 - 6-32 Hex nuts

• 16 - 4-40 Hex nuts

• 4 - 1/4"-20 Hex nuts

• 2 - 5/16"-18 Hex nuts

• 19 - M3 Flat washers

• 38 - #8 SAE Flat washers

• 3 - 1/4"-20 Flat washers (or 5/16" needs to hae 8mm hole)

(Additional for Printed version)

 \circ 10 - #10-32 x 3/4" Socket head cap screws

 \circ 22 - #10-32 x 1/4" Socket head cap screws

• 8 - #8-32 x 1" Socket head cap screws

∘ 32 - #10-32 Hex nuts

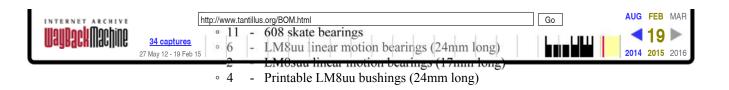
∘ 8 - #8-32 Hex nuts

∘ 16 - #8 x Flat washers

 \uparrow TOP \uparrow

Bearings

(All versions)



Rods

(Laser cut version)

- 2 8mm x 230mm Drill rods
- 2 8mm x 170mm Drill rods
- 2 5/16" x 230mm Drill rods
- \circ 2 5/16" x 210mm Drill rods
- ∘ 1 5/16" x 22mm Drill rod
- ∘ 1 1/4"-20 x 170mm Threaded rod

(Printed version)

- o 2 8mm x 230mm Drill rods
- 2 8mm x 170mm Drill rods
- ∘ 2 5/16" x 220mm Drill rods
- 2 5/16" x 197mm Drill rods
- 1 5/16" x 22mm Drill rod
- 1 1/4" x 170mm Threaded rod

Miscellaneous

(All versions)

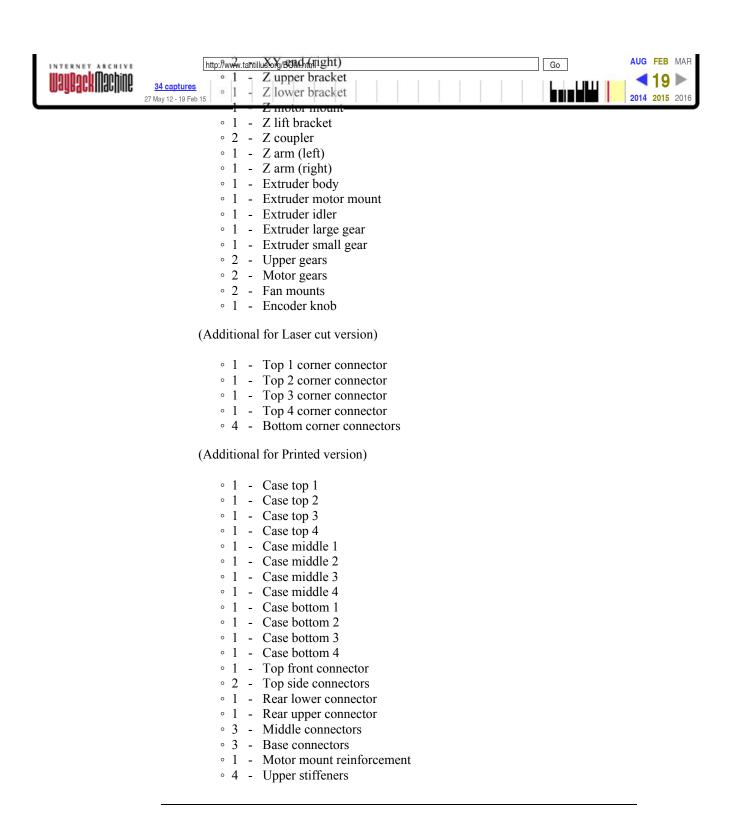
- 1 6.5mm i.d. x 20mm Spring (stronger is better)
- \circ 4 4mm i.d. x 20mm Springs (Or 4 short pieces of aquarium tubing [10mm approximately])
- 1 5/16"-18 x 4-1/4" (or 4") Hobbed bolt (metric 8mm x 105mm)
- 800mm 1/4" o.d. x 1/8" i.d. (6mm o.d. x 3mm i.d.) PTFE tubing (Zeus is one of the largest brands)
- 8m 65lb test braided fishing line (Spectra braided line) (or stainless leader)
- 18 150mm x 4mm Zip ties (6")
- 50mm 6mm silicone tubing x (aquarium tubing)

Printed Parts

(All versions)

↑TOP↑

- 1 Carriage top
- 1 Carriage bottom
- 1 Bowden clamp
- o 2 XY end (left)



Electronics

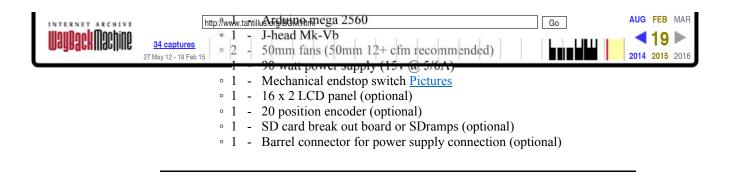
Recommended electronics

<u>↑TOP↑</u>

• 4 - Nema 17 stepper motors (max length of 40mm recommended)

4 - Stepstick or Pololu stepper drivers

• 1 - RAMPS shield



Subject to change without notice.

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↑TOP↑