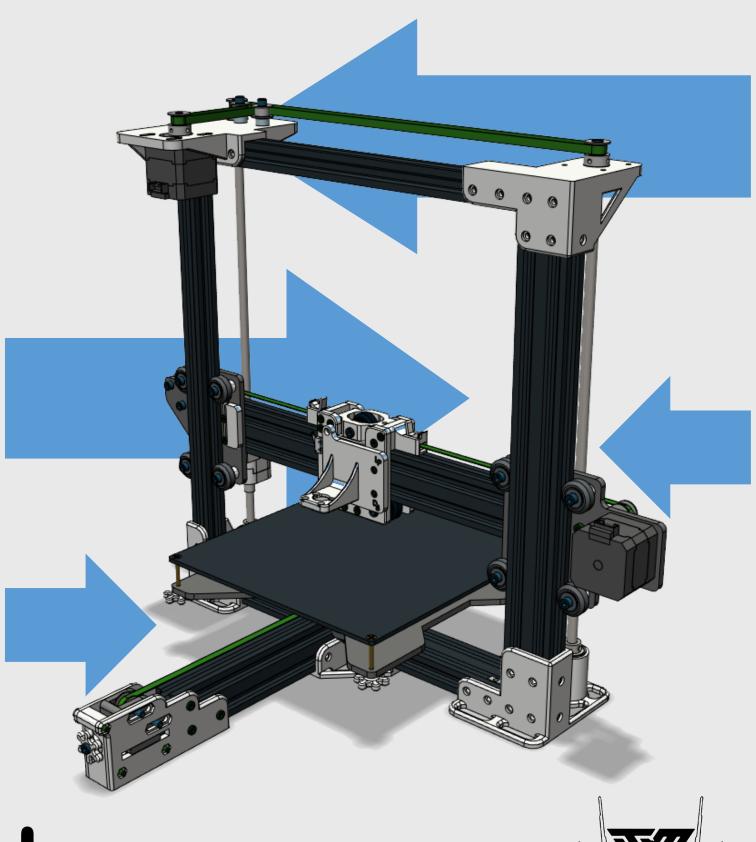
Dual-Z + Vertical Carriage





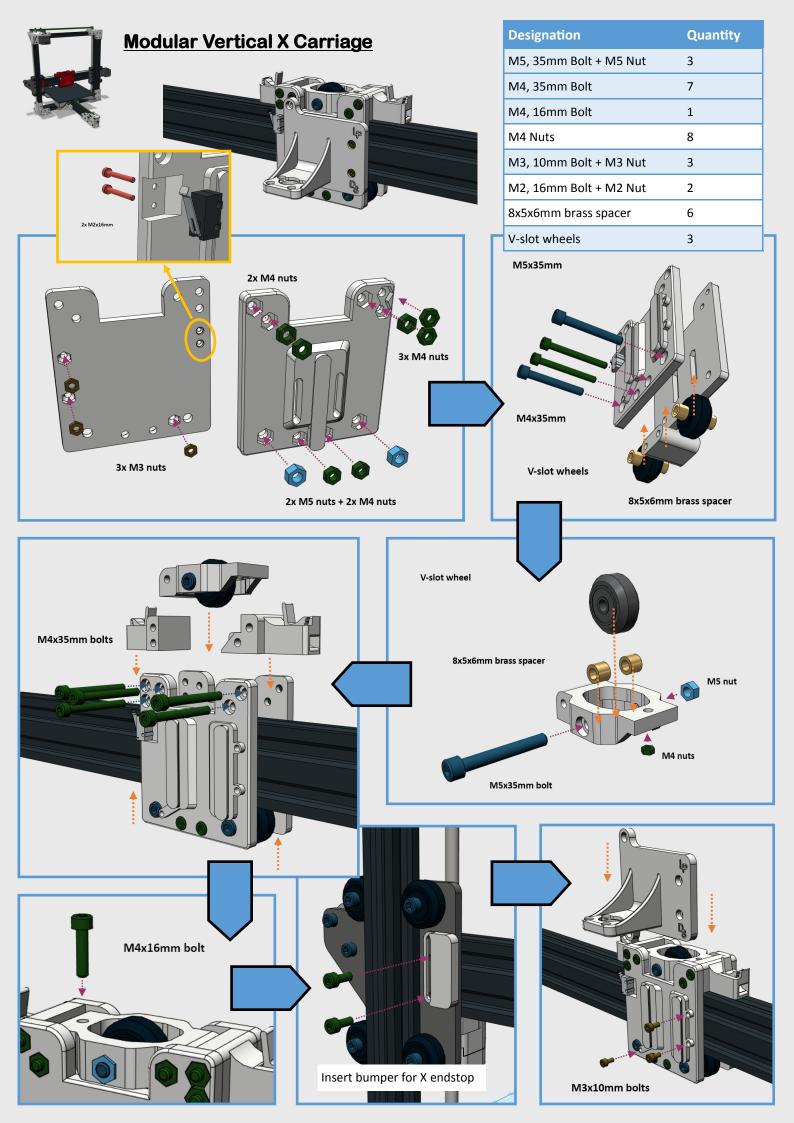


Glossary

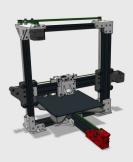


Required hardware

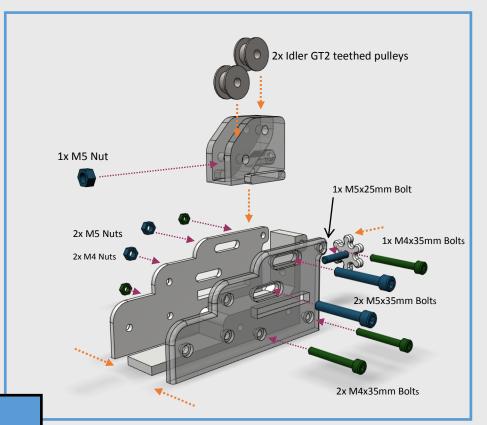
Designation	Quantity
608ZZ ball-Bearing (22x8x7mm)	4
8x5x6mm brass spacer	6
GT2 closed loop Belt, 900m (450 teeth)	2
GT2 Idler pulley, 5mm Bore, 20 teeth	2
GT2 idler smooth pulley	2
GT2 timing Pulley, 5mm bore, 20 teeth	2
GT2 timing Pulley, 8mm bore, 20 teeth	2
Leadscrew, T8x8 lead, 400mm	2
Lock Collars, 8mm bore (14x8x7mm)	4
M2, 16mm Bolt + M2 Nut	2
M3, 10mm Bolt + M3 Nut	3
M3, 12mm Bolt	4
M3, 30mm Bolt	3
M3, 8mm Bolt	5
M4 Nut	3
M4 Nuts	8
M4 T-Nut (10x6)	46
M4, >35mm Bolt	3
M4, 10mm Bolt	46
M4, 16mm Bolt	1
M4, 35mm Bolt	7
M5 Nut	4
M5, >35mm Bolt	2
M5, 25mm Bolt	1
M5, 30mm bolt	1
M5, 30mm bolt + M5 nut	2
M5, 35mm Bolt + M5 Nut	3
Nylon Spacer (11x5x5)	2
OD10xID5x6mm aluminium spacer	2
OD8xID5x1mm brass shim	2
V-slot wheels	3

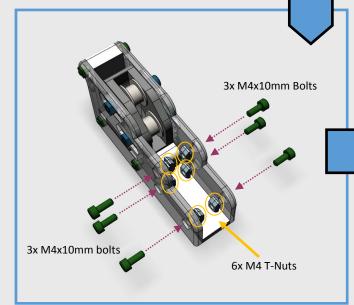


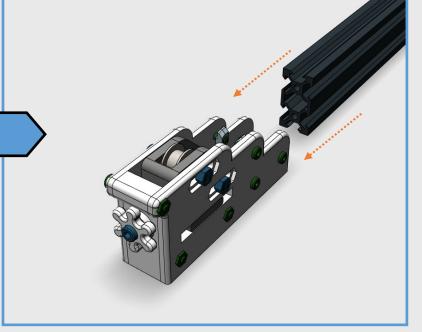
Y Bracket with belt tensioner



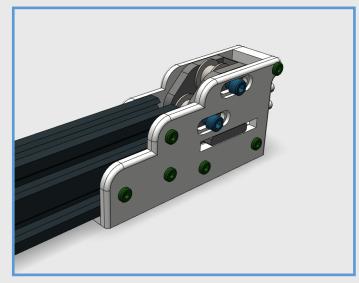
Designation	Quantity
M4 T-Nut (10x6)	6
M4, 10mm Bolt	6
M4, >35mm Bolt	3
M4 Nut	3
M5, >35mm Bolt	2
M5, 25mm Bolt	1
M5 Nut	3
GT2 Idler pulley, 5mm Bore, 20 teeth	2

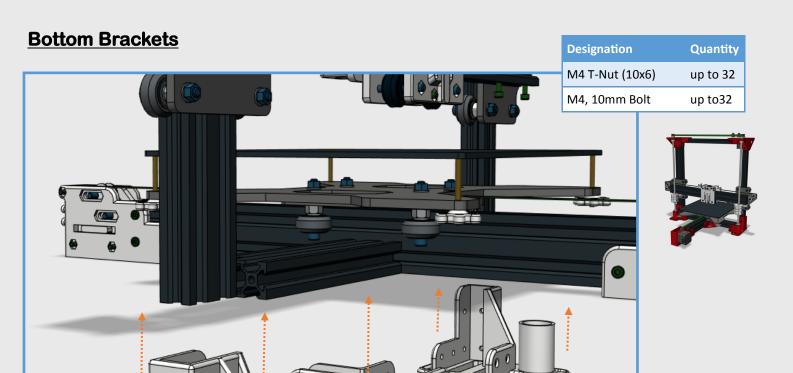


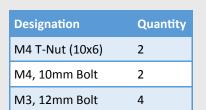












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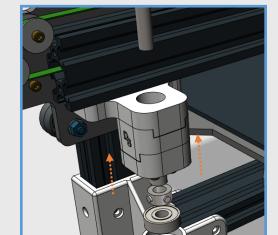
11x M4x10mm Bolts

+ 11 T-Nuts

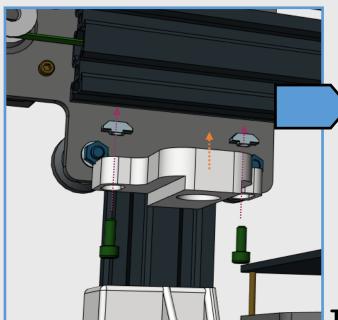


12x M4x10mm Bolts

+ 12 T-Nuts



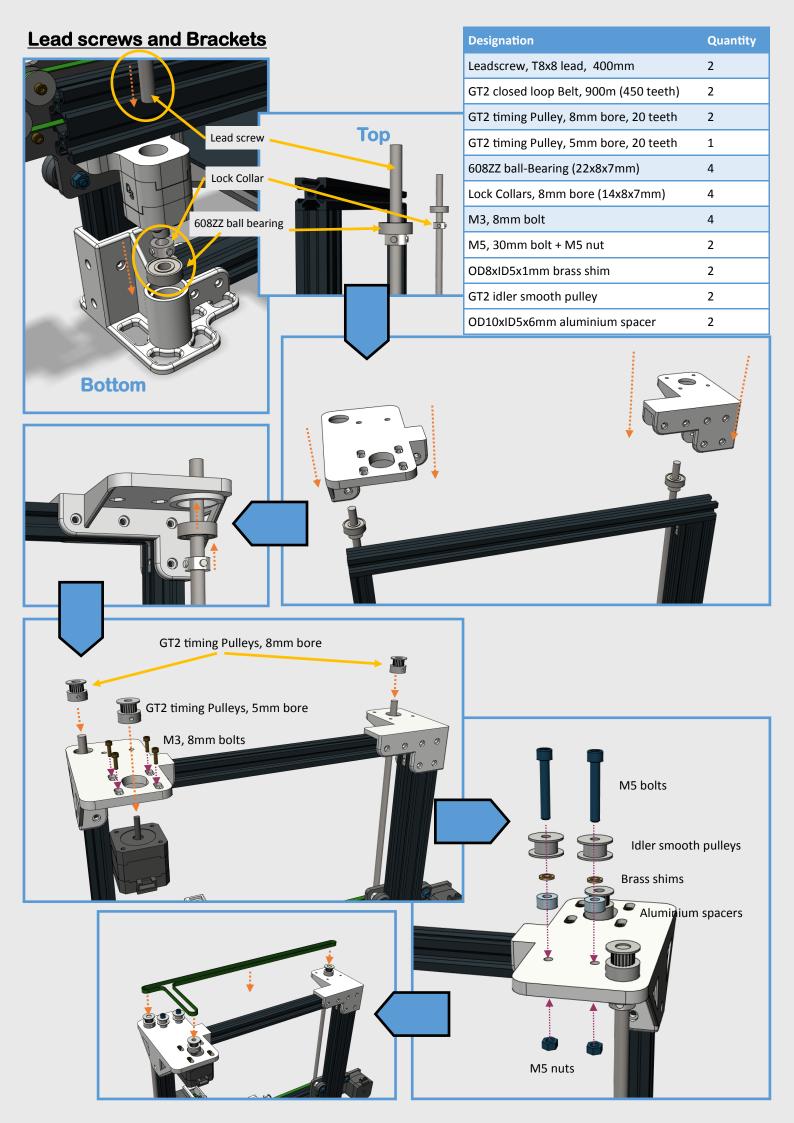
Oldham Coupler



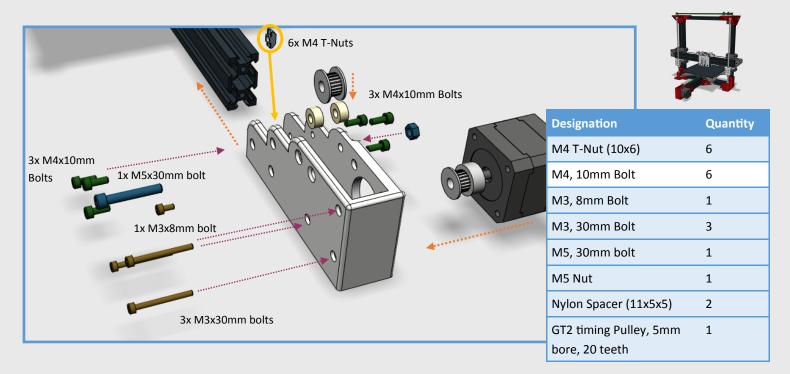


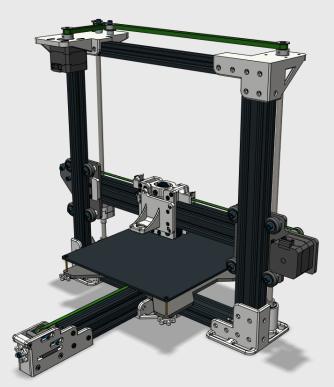
9 x M4x10mm Bolts

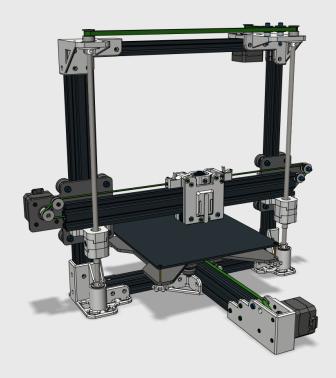
+9T-Nuts



Y Bracket for stepper motor







Special thanks to

Rob Cad (Thingirob): Original brackets

Sergiy Matsak (*MSA*) : Original vertical X-carriage Bruce Walker (bdwalker1) : Original Y-belt tensioner

Doron Shalev: Original Oldham Coupler

