



























































BOM for Unrotated Transmission, V-Rollers, No extra bearing. Use description in "Parts Sorted" (next page) to see how many more/less parts are needed. (e.g. Rotated Version: +2 M5X8 LP-SHCS --> 17 in total)							
Category	Component	Quantity	Reuse from Printer?	Notes	My Source	Alternative Source	Price(shipping + My source)
Motion	20T 8mm Pulley	3	no	One for each side on the Rod, one for the printed 80T Gear.	Aliexpress	Aliexpress	2,40 €
	16T 5mm Pulles	1	no	Motorshaft	Aliexpress	Aliexpress	0,85 €
	Gt2 Belt	2 Meter	no	Don't buy the cheapest. You should go for one with glassfiber	Amazon Germany	Aliexpress	6,00 €
	188mm Looped Belt	1	no		Aliexpress	Aliexpress_Affiliate Link Voron Guys	1,96 €
	F623ZZ 3*10*4 bearing	4	no	2 Pieces for one side	Aliexpress		5,20 €
	608ZZ Bearing	4	no	Do you have an old skateboard? You can steal the bearings from the wheels;)	Aliexpress	Aliexpress	2,04 €
	8mm Rod	330 mm	yes/no	Theres no link, just go to your local hardware store and take a cheap 8mm (aluminium) rod.			3,00 €
				Mine costs around 3€. You don't have to buy a hardened steel one. (to expensive and hard to cut)			
Fasteners	M5x8mm	15	no	Any type of M5x8mm screw can be used. I really like the openbuilds one	Aliexpress		2,58 €
	M5x40mm	6	yes (3 x)	Screwhead have to fit under the extrusion from the X-Axis. (Inside with the exentric nut on the plates.)	Aliexpress	Aliexpress (cheaper)	2,56 €
	M5x30mm	4	yes/no	Optional. for the top of the frame; the stock will work as well but only have a few millimeter to grip	Aliexpress		[2,27€]
	M5 T-nuts	15	no		Aliexpress		2,00 €
	M3x30mm	2	no				
	M3x25mm	2	no				
	M3x16mm	10	no				
	M3x12mm	8	no	If you have no screws, you should buy a kit. Especially for the tensioner a longer screw can be good.	Aliexpress		5,86 €
	M3x10mm	2	no				
	M3x6mm	5	no				
	M3 nuts	10	no				
Electronics	Motor extension cable	1	no	The original Cable is obviously too short^^ Check if the middle cables are crossed!!!	Aliexpress		3,11 €
Printed Parts	RightV3.3	1	/	Thingiverse			
	LeftV3.3	1	/	Thingiverse			
	RightTop	1	/	Thingiverse			
	LeftTop	1	/	Thingiverse			
	RightBottom	1	/	Thingiverse			
	LeftBottom	1	/	Thingiverse			
	Spacer	3	/	Thingiverse			
	Tensioner Block	2	/	Thingiverse			
	TensionerClamp	2	/	Thingiverse			
	Transmission	1	/	Github			
	MotorMountTensionerArm	1	/	Github			
	ZDriveTensioningRing	1	/	Github			
	80TRingGear	1	/	Github			
Filament	PETG or ABS	??kg	no	Yes you can use PLA, but you shouldn't ;)			
							Total costs: 39,83€

Component	Sub-Component	Parts		Qty.	Description
Unrated Transmission					Unrotated Transmission. Adds 109 mm to the height.
	Unrotated without bearing				
		M5X8 LP-SHCS		5	
		M5 T-Nut		5	
	Unrotated with bearing				
		M5X8 LP-SHCS		5	
		M5 T-Nut		5	
		Bearing 608-2RS		1	
	NEMA17 Black - Z Drive Setup				
		Motor Mount Tensioner Arm		1	
		GT2 16T 6mm		1	
		M3X8 SHCS		4	
		M3X10 SHCS with Washer		2	
		M3 Hexnut		2	
		Z Drive Tensioning Ring		1	
	Mobius Z Drive Core				
		80T Hubbed Gear		1	
		GT2 20T 8mm - Deflanged		1	
		M3X6 SHCS		5	
	188mm GT2 Looped Belt 6mm width			1	
	Belts			2 meters	
	8mm Rod			1	
	GT2_20T			2	
Rotated Transmission					Rotated Transmission. Adds 52 mm to the height.
	Rotated without bearing	Frame B			
		M5X8 LP-SHCS		7	+ 2
		M5 T-Nut		7	+ 2
	Rotated with bearing	Frame B (Bearing)			
		M5X8 LP-SHCS		7	+ 2
		M5 T-Nut		7	+ 2
		Bearing 608-2RS		1	+ 1

Top/Bottom Parts					Top/Bottom Parts for all versions.
	Tops				
		Top Parts		2	
		Bearing 608-2RS		4	
		M5x30 LP-SHCS		4	
		M5X8 LP-SHCS		8	
		M5 T-Nut		12	
	Bottoms				
		Bottom Parts		2	
		F623ZZ Bearings		4	
		M3X30 SHCS		2	
		M3 Hexnut		2	
		M5X8		8	
		M5 T-Nut		8	
Z Plates					Z-Plates for all versions.
	Z-Plates-DirectDrive V3				
		RightV3.3		1	
		LeftV3.3		1	
	Z-Plates-Bowden V3				
		RightV3.3Bowden			
		LeftV3.3Bowden			
	Rollers Assembly				
		M5X40 Button Head Screw		3	
		Spacers for rollers		3	
		M5 Self-locking nut		3	
	Fasteners Z Plates				
		M3X25 SHCS (Roller)		2	
		M3X12 SHCS (Roller)		4	
		M3 Hexnut (Roller)		6	

MGN brackets (optinal).					MGN brackets (optinal).
		Right V3.3 (MGN)		1	+ 1
		Left V3.3 (MGN)		1	+ 1
		Spacer Block		2	+ 2
		MGN12 Linear Rail 300 mm		2	+ 2
	Fasteners (Rail)				
		M3X8 SHCS		24	+ 24
		M3 T-Nut		24	+ 24
	Fasteners Z-Plates				
		M5X40 Button Head Screw		1	- 2
		M5 Self-locking nut		1	- 2
		M3X20 SHCS		4	+ 4
		M3 Hexut		10	+ 10
		M3X10 SHCS		8	+ 8
		M3X25 SHCS		2	+ 2
		M3X12 SHCS		4	+ 4