

ROSTOCK MAX Bill of Materials & PACKING LIST

ALL hardware is stainless steel unless otherwise noted
 UPSA/EDU #18 21

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Qty.	SeeMe P/N#	P/N#	Description	Notes
	WOOD	ACRYLIC		
	68398	68399	COMPLETE KIT:	68398 is the melmin wood kit, 68399 is the acrylic wood kit
1	68393		Flat Packed Kit (4 flat panels of all laser cut parts)	68390 is 272" thick wood and 68391 is .24 or .25 thick acrylic flat packs
3	68310		1" T-Slot extrusion cut 32" long	
4	26501		NEMA 17 42BYG811 Stepper Motors	
1	26710		RAMBo Electronics w/USB Cable	
1			Onyx PCB Heated Bed Sub-Pack	Includes ONYX, melamine insulator, LED, Resistor, Thermistor, 6 acetal spacers, 6 4-40x1/2" phillips and 6 4-40 blind t nuts
1	26702		ATX PC Power Supply	450W Votek
1	68326		Cover for Bed	White PVC Wrap for around the base of the machine
225	36910		Timing Belt GT2 series 2mm pitch Neoprene SOLD BY INCH	This SeeMeCNC part number is for SOLD BY THE INCH
3	36600		15 Tooth GT2 X 5mm bore timing pulleys	super nice machined aluminum pulleys
12	68306		CNC Machined U-joints	u-joints for each end of the parallel arms
18	68340		608 Cheap skate Idler Bearing Spacer	used on the idlers and keep the belt centered in the bearing
12	68315		608 Cheap skate Eccentric Camless Tensioner Spacer	used to take out backlash in the bearings
18	68326		608 Cheap skate Carriage Bearing Spacer	used to align the bearings
3	30660		2-36 X 5/8" bolts	for mounting the limit switches
6	30642		2-56 Nylon nuts	for mounting the limit switches
114	30164		6-32 Nylon locknuts	this hardware count includes four extra
78	30152		6-32 X 1" flat head screws	this hardware count includes four extra
6	30000		6-32 X 5/8" SHCS	
21	30007		6-32 X 2" Phillip Pan Head Screw	
9	30034		6-32 X 1 3/4" Phillip Head	
26	30005		1/4-20 T-Slot Nuts	for attaching the cheap skate upper/lower pallets that hold the idlers and motors
25	30418		1/4-20 X 1/2" Button Head Cap Screws	for attaching the cheap skate upper/lower pallets that hold the idlers and motors
6	29988		10-32 X 5/8" Pan Head Nylon Screws	for mounting feet
6	30170		10-32 Nylon Finish Nuts	for mounting feet
6	17565		Black Leg for 44010 Foot	used w/creem foot
6	44010		Creem Feet	press in from back side of anywhere 4-40 hardware is used
26	30445		#4 SAE Washers	3 hold top plate and one for extruder mount
12	30251		#4 X 1/4" SAE	
12	30260		#4 X 3/8" SAE	
27	30222		4-40 Blind T Nuts	press in from back side of anywhere 4-40 hardware is used
4	30236		4-40 X 1 1/4" Pan Head Machine Screw	
12	30205		4-40 X 3/4" Phillip Head	
12	30232		4-40 X 1/2" SHCS	
16	30318		M3-0.5 X 10mm Pan Head Phillip screws	for mounting stepper motors (use #4 washers under the heads)
6	30317		M3-0.5 X 6mm Pan Head Phillip screws	for attaching the motor pulleys
4	30121		6-32 X 1/2" Nylon Pan Head screw	for mounting PSU
60	30450		#6 SAE Flat Washer	
24	30505		608ZZ Ball Bearing	For the cheap skate slides
30	68308		Acetal 608 bearing sleeves	CNC machined shells, press-on over the bearings, two on each bearing
6	68326		1/8" X 3 1/8" Stainless Axle for u-joints	these go thru the u-joints, and are caged in the platform and screws hold them in the carriage mounts
3	68304		Hot End Platform Spacer (3/8" X 1" X 6/64 thru hole)	aluminum bushings to space the hot-end plate up
2	58706		Teflon Tubing 1 foot length x 2mm ID x 4mm O.D for 1.75mm filament	24" length of 2mm ID x 4mm O.D. Teflon Tubing
2	38830		4mm OD PTFE fitting for bowden tube	to attach the bowden teflon tube
1	68304		Rostock MAX Hot-end fit (Bowden Hotend)	includes laser, peek, upper, bowden adapter and nozzle/teflon liner
1	68390		Rostock MAX Steve's Extruder Drive Kit (no motor)	Our part number is a sub-assembly of the Steve's Extruder for bowden
6	68303		Parallel Delta Arms	Black glass-filled-nylon arms
6	71622		Fold-Over Bolt-On Belt Clamps	even though these are for 2004 belt, they also work great on GT2
3	68332		Carriage U-Joint Mounts	These also have the hole for a 6-32 screw to "push" the limit switches at the top of the carriages
2	68304		Platform Holes	two pieces fit together and screw together to make the platform, and cage the 1/8" axles

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20	71606		White Acetal Spacers	small spacers to stand the heated bed off of the table and to stand off the RAMBo
1	26159		small Toggle Switch	You can use this between the green and a black wire on the ATX PS to turn the power on/off
6	68761		Binder Clips for holding Build Plate onto heated bed	
12	26164		small red/black	for tidying up the wiring
4	30171		10-32 x 1/2 knurled Nylon Thumb Screws	Holds the decorative wrap to the bottom of the machine
10			1ga. 4 conductor wire	For wiring the hotend and heated bed
4			22ga. 4 conductor wire	For extending the stepper motor connections
			Assembly Instructions are being documented at:	
			http://reprap.org/wiki/Rostockmax	
			Arduino v0023 IDE software for modifying/uploading new firmwares:	Tested with 1.0(+) but not with LCD mods
			http://arduino.cc/en/Main/Software	
			Firmware is downloadable from:	
			https://github.com/johnny99Harkin-for-rostockmax-rambo	
			Instructions to update Arduino 0023 and firmwares for LCD option	Uses Arduino IDE version 0023, have heard people have used with 1.0.1 successfully too
			http://reprap.org/wiki/RamboLCD	