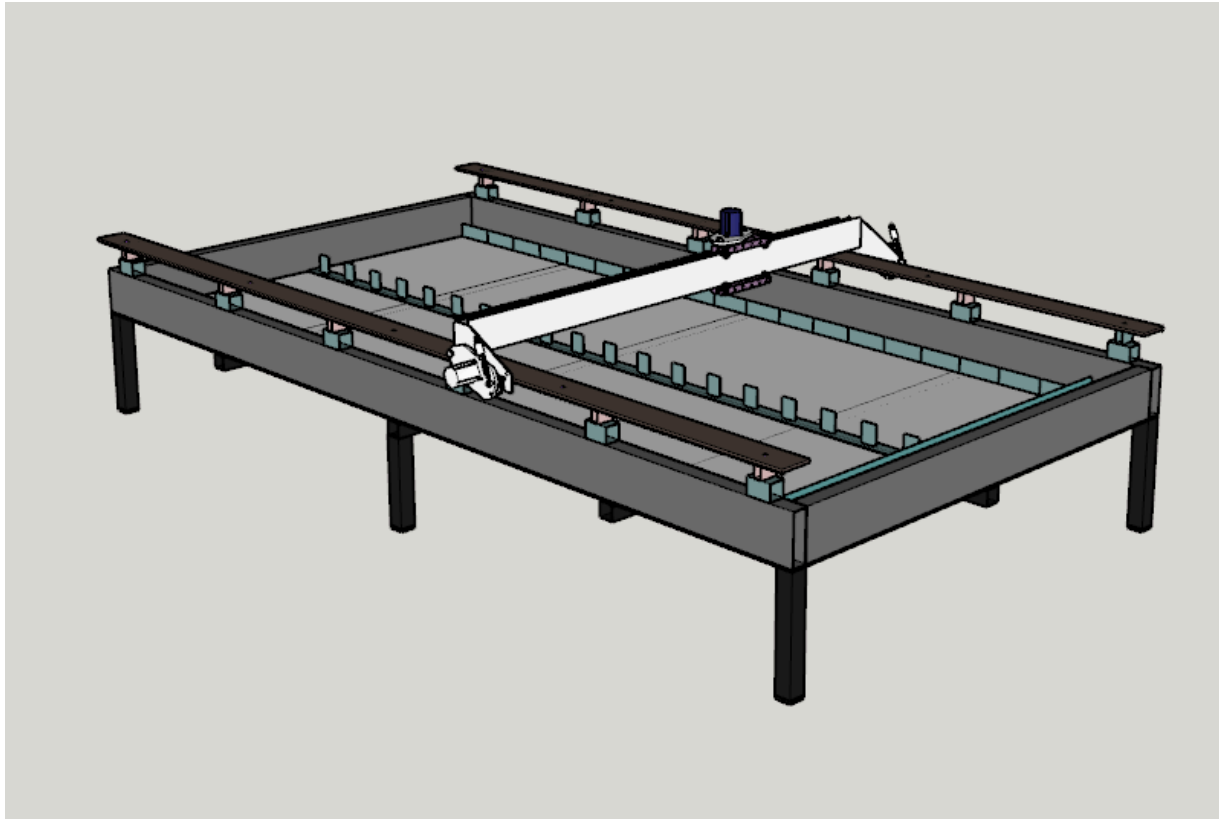


BF CNC Cuts List,
Bill Of Materials,
Tentative Schedule,
Table Views,
Outstanding Design Requirements



Raw Materials

Type	Material	Length	Description	Notes
2"x2" Tube .125 Wall	Mild Steel	44'	Legs, Underframe, Gantry, Rail Mount	
1"x2" Tube .125 Wall	Mild Steel	3'	Rail Mount	
2"x6" Tube .125 Wall	Mild Steel	31'	Frame	
2" Flat .250 Thick	Mild Steel	16'	Slat Spacers, Feet	
3" Flat .125 Thick	Mild Steel	108'	Slats	3/32" is alternative
.250 Plate 124"x64"	Mild Steel		Bottom	11ga alternative. Is it better to buy 6x12 sheet?
.250 Plate 13" x 20"	Mild Steel		Gantry Plates	
4" Flat .375 Thick	Cold Rolled	21'	Rails	.250 is a possibility
4" Flat .250 Thick	Cold Rolled	6'	Gantry Rail	
2" Angle .250 Thick		20'	Slat Mounts	

Cuts List

Type	Length (inches)	Count	Total Length	Description	Total of Type
2"x2" Tube .125 Wall	3	12	36	Rail Spacers	523.75
	66.25	1	66.25	Gantry Support	
	124	1	124	Long Underframe Member	
	31	6	186	Short Underframe Member	
	13.5	4	54	Corner Feet	
	11.5	5	57.5	Inner Feet	
1"x2" Tube .125 Wall	2	12	24	Rail Spacers	24
2"x6" Tube .125 Wall	124	2	248	Frame Lengths	368
	60	2	120	Frame Widths	
CR 4" Flat .375 Thick	124	2	248	Rails	248
CR 4" Flat .250 Thick	66.25	1	66.25	Gantry Rail	66.25
2" Flat .250 Thick	2.5	20	50	Slat Spacers	188
	120	1	120	Slat Spacers Mount	
	2	9	18	feet	
3" Flat .125 Thick	64	20	1280	Slats	1280
2" Angle .250 Thick	60	2	120	Slat Mounts	120

BOM

Category	Name	Description	Quantity	Unit Price	Total Price	Notes	link
Electrical	Mesa 5125	fpga buffer	1	89	89		link
	Mesa 7175	5i20 breakout for thcad	1	49	49		link
	Mesa THC-10	ADC for THC	1	69	69		link
	PC	for linuxcnc	1	160	160		link
	Endstops	limit switches	5	2.5	12.5		link
	CNC Router Parts Electronics Kit	Motors, Driver, MotorCables, Power Supply	1	685	685	cncrp	link
Cables	Parallel Port Cable	PC -> g540	1	12	12	cncrp	link
	Cable Tracks	guides	6	13.4	180.4	alibaba supplier	link
	cable track bracket	for mounting	5	1.6	8	alibaba supplier	
	2 strand shielded	endstops	1	10	10	home depot	
Software	LinuxCNC	free	1	0	0		link
	CAM	Sheetcam	1	0	0		link
Mechanical	Rack	for rack & pinion drive	5	30	150	for 5 6' pieces	link
	Motor Mounts	motor->pinion	3	90	270		link
	Table	steel and welding	1	1000	1000	no idea	link
	Z Axis	Linear Actuator	1	208	208	makecnc	link
	Bearings	abec 7	8	1.22	9.76		link
	Z Carriage Mount	Bearing Block	2	35	70	cncrp	link
Plasma Source	Automation Kit	for cutmaster 52	1	175	175	ebay	link
	Machine Torch	cutmaster 52	1	575	575	ebay	link
	Air Dryer		1	400	400	harbor freight	link
				motors, electronic	1064.5		
				total	4132.66		

Outstanding Sourcing

- E-Stop Button
- Consumables
- 3/4" Bolts and Nuts
- 5/16" Hex Bolts and Nuts
- Misc Fasteners
- Ohmic Clip

Outstanding Design

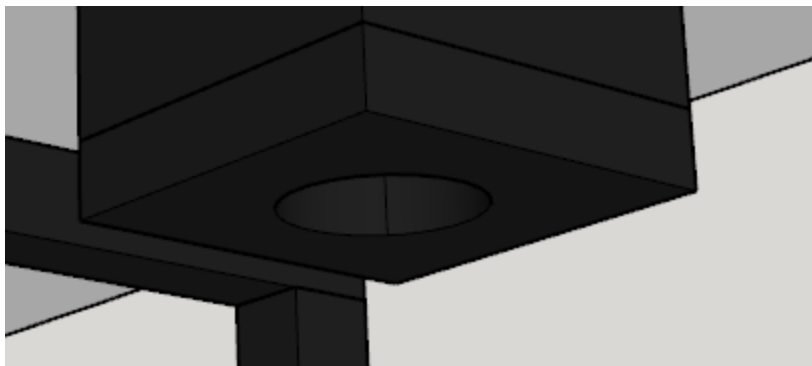
- Z-axis -> X Axis Interface
- Torch Mount
- X-axis gear rack mount
- Cable Track mount
- Electronics enclosure
- Ground Stake

Table Views

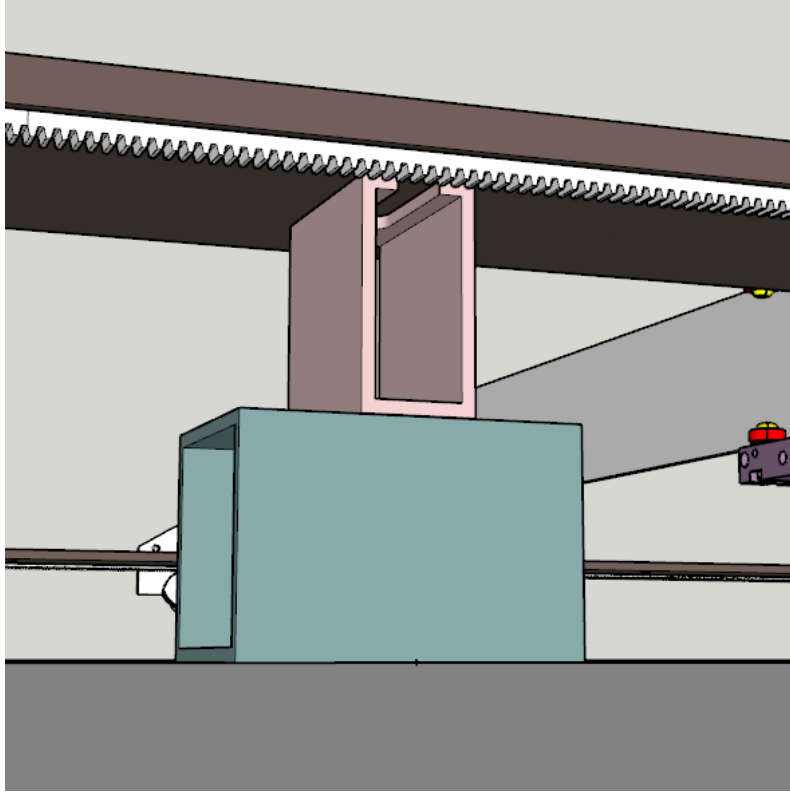
Underframe



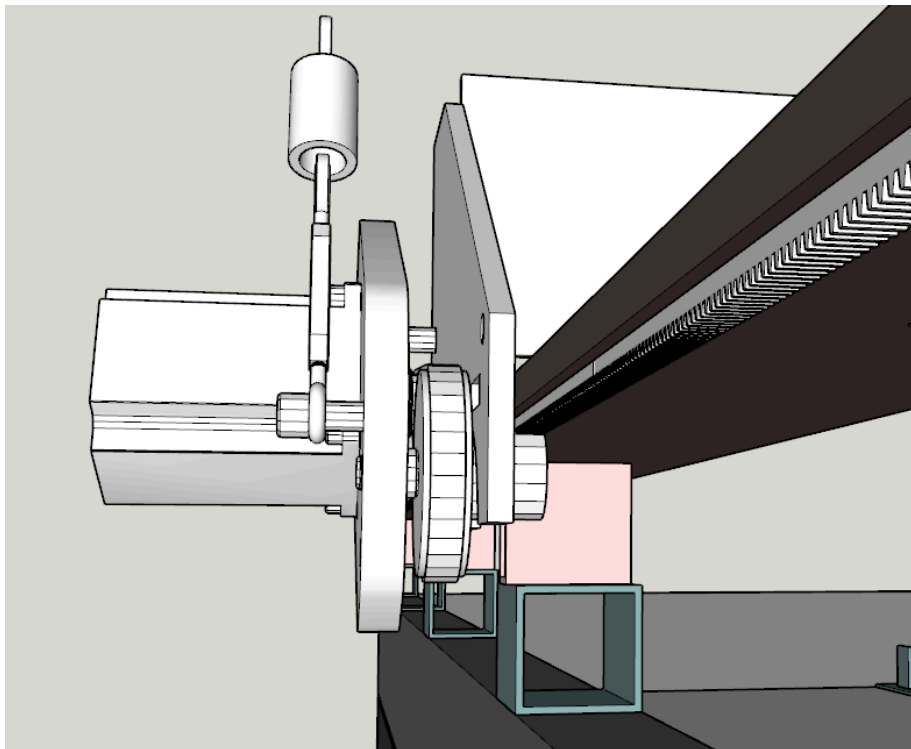
Feet

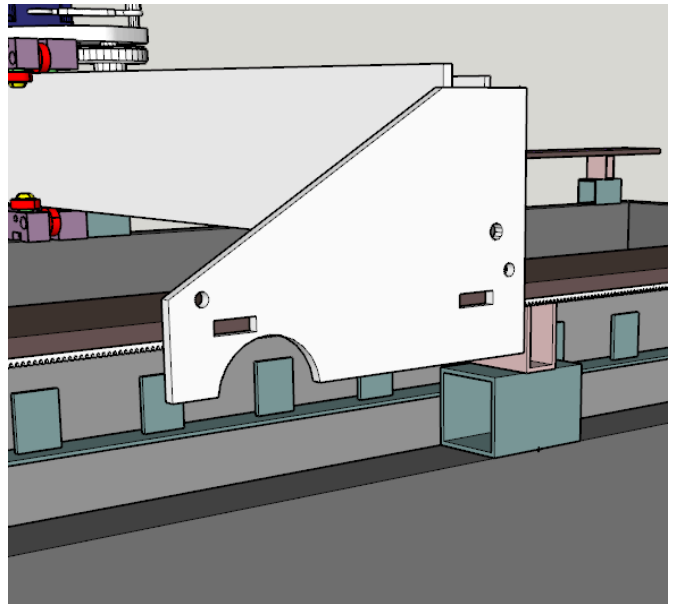
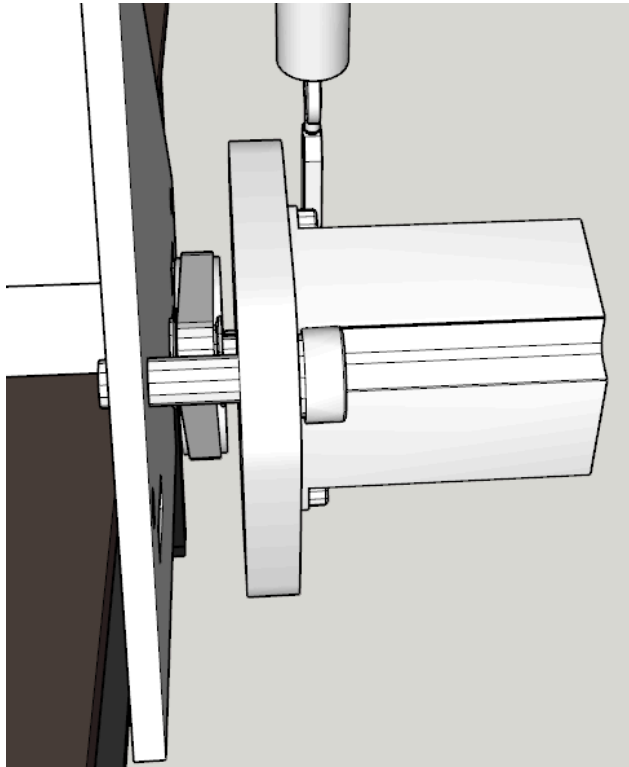


Rail Mounting

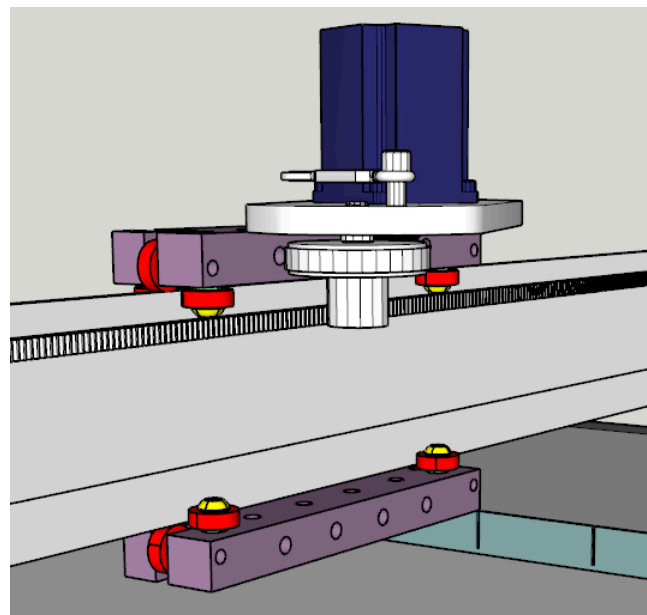
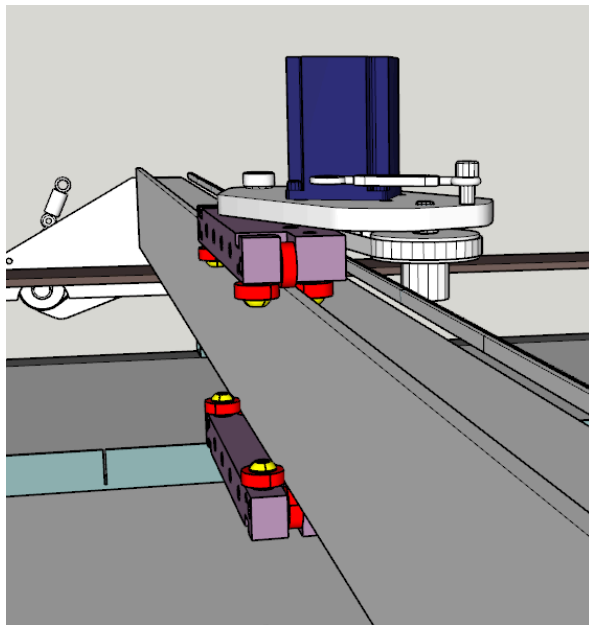


Gantry Drive and Side Plates

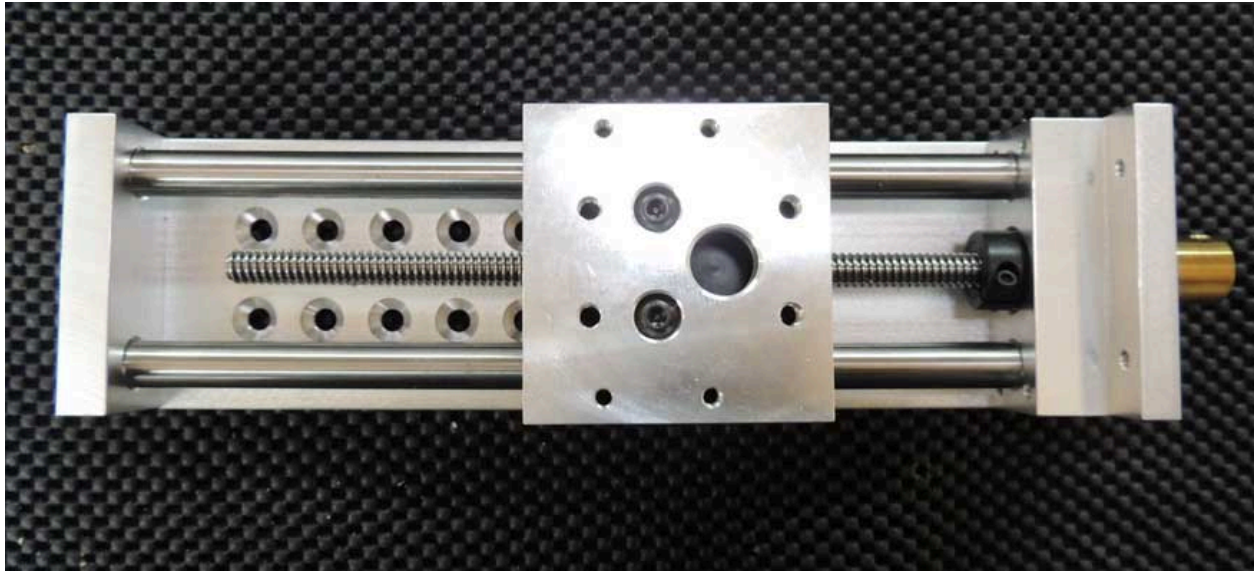




Y Axis Drive and Slide



Z Axis



Cable Chain Carrier

