

 Kinetics_Spreadsheet.csv	7/15/2026 3:17 PM	Microsoft Excel Co...	1 KB
 Kinetics_Spreadsheet_147_watt_output_14rows_v4.csv	7/15/2026 3:58 PM	Microsoft Excel Co...	7 KB
 Kinetics_Spreadsheet_500_watt_output_14rows_v3.csv	7/15/2026 3:56 PM	Microsoft Excel Co...	9 KB
 Kinetics_Spreadsheet_500_watts_output_v2.csv	7/15/2026 3:28 PM	Microsoft Excel Co...	2 KB

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A	B	C	D	E	F	G	H	I	
	TIME INTERVAL	DISTANCE TRAVELED FROM TDC	SOUTH COMBUSTION FORCE	NORTH HYDRAULIC FORCE	NET KINETIC FORCE	FREEPISTON VELOCITY	PISTON ACCELERATION STATE	ASSEMBLY FIXED WEIGHT	
	0.00s	0.000 in	1350.0 lbs	1150.0 lbs	+200.0 lbs Pushing South	0.00 ft/sec	+1514 ft/s ² Accelerating	4.25 lbs Mass / 15 lbs Friction	
	0.04s	0.020 in	1300.0 lbs	1150.0 lbs	+135.0 lbs Pushing South	1.45 ft/sec	+1022 ft/s ² Accelerating	4.25 lbs Mass / 15 lbs Friction	
	0.08s	0.070 in	1200.0 lbs	1150.0 lbs	+35.0 lbs Pushing South	2.78 ft/sec	+264 ft/s ² Accelerating	4.25 lbs Mass / 15 lbs Friction	
	0.12s	0.170 in	1050.0 lbs	1150.0 lbs	-115.0 lbs Braking North	3.82 ft/sec	-870 ft/s ² Decelerating	4.25 lbs Mass / 15 lbs Friction	
	0.16s	0.310 in	900.0 lbs	1150.0 lbs	-265.0 lbs Braking North	4.55 ft/sec	-2006 ft/s ² Decelerating	4.25 lbs Mass / 15 lbs Friction	
	0.20s	0.500 in	750.0 lbs	1150.0 lbs	-415.0 lbs Braking North	4.96 ft/sec (Peak)	-3141 ft/s ² Decelerating	4.25 lbs Mass / 15 lbs Friction	
	0.24s	0.730 in	600.0 lbs	1150.0 lbs	-565.0 lbs Braking North	5.05 ft/sec	-4277 ft/s ² Decelerating	4.25 lbs Mass / 15 lbs Friction	
	0.28s	1.010 in	500.0 lbs	1150.0 lbs	-665.0 lbs Braking North	4.82 ft/sec	-5034 ft/s ² Decelerating	4.25 lbs Mass / 15 lbs Friction	
	0.32s	1.320 in	400.0 lbs	1150.0 lbs	-765.0 lbs Braking North	4.31 ft/sec	-5791 ft/s ² Decelerating	4.25 lbs Mass / 15 lbs Friction	
	0.36s	1.650 in	300.0 lbs	1150.0 lbs	-865.0 lbs Braking North	3.54 ft/sec	-6548 ft/s ² Decelerating	4.25 lbs Mass / 15 lbs Friction	
	0.40s	1.970 in	225.0 lbs	1150.0 lbs	-940.0 lbs Braking North	2.58 ft/sec	-7115 ft/s ² Decelerating	4.25 lbs Mass / 15 lbs Friction	
	0.44s	2.260 in	150.0 lbs	1150.0 lbs	-1015.0 lbs Braking North	1.52 ft/sec	-7683 ft/s ² Decelerating	4.25 lbs Mass / 15 lbs Friction	
	0.48s	2.490 in	100.0 lbs	1150.0 lbs	-1065.0 lbs Braking North	0.52 ft/sec	-8061 ft/s ² Decelerating	4.25 lbs Mass / 15 lbs Friction	
	0.52s	2.600 in	75.0 lbs	1150.0 lbs	-1090.0 lbs Braking North	0.00 ft/sec	-8250 ft/s ² Decelerating	4.25 lbs Mass / 15 lbs Friction	

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Comments

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		TIME INTERVAL	DISTANCE TRAVELED FROM TDC	SOUTH COMBUSTION FORCE	NORTH HYDRAULIC FORCE	NET KINETIC FORCE	FREEPISTON VELOCITY	PISTON ACCELERATION STATE	ASSEMBLY FIXED WEIGHT
	0.00s	0.000 in	3200.0 lbs	1560.6 lbs	+1614.4 lbs Pushing South	0.00 ft/sec	+12217 ft/s ² Accelerating	4.25 lbs Mass / 25 lbs Friction	
	0.03s	0.080 in	2800.0 lbs	1560.6 lbs	+1214.4 lbs Pushing South	6.72 ft/sec	+9185 ft/s ² Accelerating	4.25 lbs Mass / 25 lbs Friction	
	0.06s	0.300 in	2100.0 lbs	1560.6 lbs	+514.4 lbs Pushing South	11.45 ft/sec	+3893 ft/s ² Accelerating	4.25 lbs Mass / 25 lbs Friction	
	0.09s	0.610 in	1400.0 lbs	1560.6 lbs	-185.6 lbs Braking North	13.80 ft/sec	-1405 ft/s ² Decelerating	4.25 lbs Mass / 25 lbs Friction	
	0.12s	0.970 in	1000.0 lbs	1560.6 lbs	-585.6 lbs Braking North	14.25 ft/sec (Peak)	-4432 ft/s ² Decelerating	4.25 lbs Mass / 25 lbs Friction	
	0.15s	1.340 in	800.0 lbs	1560.6 lbs	-785.6 lbs Braking North	13.20 ft/sec	-5945 ft/s ² Decelerating	4.25 lbs Mass / 25 lbs Friction	
	0.18s	1.690 in	650.0 lbs	1560.6 lbs	-935.6 lbs Braking North	11.35 ft/sec	-7081 ft/s ² Decelerating	4.25 lbs Mass / 25 lbs Friction	
	0.21s	1.990 in	550.0 lbs	1560.6 lbs	-1035.6 lbs Braking North	9.15 ft/sec	-7837 ft/s ² Decelerating	4.25 lbs Mass / 25 lbs Friction	
	0.24s	2.230 in	450.0 lbs	1560.6 lbs	-1135.6 lbs Braking North	6.80 ft/sec	-8594 ft/s ² Decelerating	4.25 lbs Mass / 25 lbs Friction	
	0.27s	2.410 in	375.0 lbs	1560.6 lbs	-1210.6 lbs Braking North	4.55 ft/sec	-9161 ft/s ² Decelerating	4.25 lbs Mass / 25 lbs Friction	
	0.30s	2.520 in	300.0 lbs	1560.6 lbs	-1285.6 lbs Braking North	2.62 ft/sec	-9729 ft/s ² Decelerating	4.25 lbs Mass / 25 lbs Friction	
	0.33s	2.580 in	225.0 lbs	1560.6 lbs	-1360.6 lbs Braking North	1.15 ft/sec	-10296 ft/s ² Decelerating	4.25 lbs Mass / 25 lbs Friction	
	0.36s	2.600 in	150.0 lbs	1560.6 lbs	-1435.6 lbs Braking North	0.22 ft/sec	-10864 ft/s ² Decelerating	4.25 lbs Mass / 25 lbs Friction	
	0.39s	2.600 in	100.0 lbs	1560.6 lbs	-1485.6 lbs Braking North	0.00 ft/sec	-11242 ft/s ² Decelerating	4.25 lbs Mass / 25 lbs Friction	Click and drag to select a new capture area

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	TIME INTERVAL	DISTANCE TRAVELED FROM TDC	SOUTH COMBUSTION FORCE	NORTH HYDRAULIC FORCE	NET KINETIC FORCE	FREEPISTON VELOCITY	PISTON ACCELERATION STATE	ASSEMBLY FIXED WEIGHT	
	0.00s	0.000 in	3200.0 lbs	1560.6 lbs	+1614.4 lbs Pushing South	0.00 ft/sec	+12217 ft/sÂ² Accelerating	4.25 lbs Mass / 25 lbs Friction	
	0.03s	0.080 in	2800.0 lbs	1560.6 lbs	+1214.4 lbs Pushing South	6.72 ft/sec	+9185 ft/sÂ² Accelerating	4.25 lbs Mass / 25 lbs Friction	
	0.06s	0.300 in	2100.0 lbs	1560.6 lbs	+514.4 lbs Pushing South	11.45 ft/sec	+3893 ft/sÂ² Accelerating	4.25 lbs Mass / 25 lbs Friction	
	0.09s	0.610 in	1400.0 lbs	1560.6 lbs	-185.6 lbs Braking North	13.80 ft/sec	-1405 ft/sÂ² Decelerating	4.25 lbs Mass / 25 lbs Friction	
	0.12s	0.970 in	1000.0 lbs	1560.6 lbs	-585.6 lbs Braking North	14.25 ft/sec (Peak)	-4432 ft/sÂ² Decelerating	4.25 lbs Mass / 25 lbs Friction	
	0.15s	1.340 in	800.0 lbs	1560.6 lbs	-785.6 lbs Braking North	13.20 ft/sec	-5945 ft/sÂ² Decelerating	4.25 lbs Mass / 25 lbs Friction	
	0.18s	1.690 in	650.0 lbs	1560.6 lbs	-935.6 lbs Braking North	11.35 ft/sec	-7081 ft/sÂ² Decelerating	4.25 lbs Mass / 25 lbs Friction	
	0.21s	1.990 in	550.0 lbs	1560.6 lbs	-1035.6 lbs Braking North	9.15 ft/sec	-7837 ft/sÂ² Decelerating	4.25 lbs Mass / 25 lbs Friction	
	0.24s	2.230 in	450.0 lbs	1560.6 lbs	-1135.6 lbs Braking North	6.80 ft/sec	-8594 ft/sÂ² Decelerating	4.25 lbs Mass / 25 lbs Friction	
	0.27s	2.410 in	375.0 lbs	1560.6 lbs	-1210.6 lbs Braking North	4.55 ft/sec	-9161 ft/sÂ² Decelerating	4.25 lbs Mass / 25 lbs Friction	
	0.30s	2.520 in	300.0 lbs	1560.6 lbs	-1285.6 lbs Braking North	2.62 ft/sec	-9729 ft/sÂ² Decelerating	4.25 lbs Mass / 25 lbs Friction	
	0.33s	2.580 in	225.0 lbs	1560.6 lbs	-1360.6 lbs Braking North	1.15 ft/sec	-10296 ft/sÂ² Decelerating	4.25 lbs Mass / 25 lbs Friction	
	0.36s	2.600 in	150.0 lbs	1560.6 lbs	-1435.6 lbs Braking North	0.22 ft/sec	-10864 ft/sÂ² Decelerating	4.25 lbs Mass / 25 lbs Friction	
	0.39s	2.600 in	100.0 lbs	1560.6 lbs	-1485.6 lbs Braking North	0.00 ft/sec	-11242 ft/sÂ² Decelerating	4.25 lbs Mass / 25 lbs Friction	

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Create PDF and Share via Outlook

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DISTANCE OF PCFIRE TOP FACE FROM INNER WALL	GAS PRESSURE ABOVE PCFIRE	GAS TEMPERATURE ABOVE PCFIRE	PERCENT OF FRESH AIR REMAINING	GRAMS OF GASES IN CHAMBER	TOTAL MOLES IN CHAMBER	HYDRAULIC FLUID OUTFLOW	MECHANICAL ENERGY OUTPUT WATTS	CHEMICAL ENERGY INPUT WATTS
0.000 in	332.6 PSI	380.0 deg F	100.0 percent	12.45 grams	0.435 moles	0 cc/sec	0 Watts	1350 Watts
0.080 in	291.1 PSI	372.0 deg F	91.0 percent	12.63 grams	0.435 moles	989 cc/sec	118 Watts	
0.300 in	218.3 PSI	345.0 deg F	68.0 percent	12.63 grams	0.435 moles	1685 cc/sec	314 Watts	
0.610 in	145.5 PSI	312.0 deg F	40.0 percent	12.63 grams	0.435 moles	2031 cc/sec	412 Watts	
0.970 in	103.9 PSI	280.0 deg F	12.0 percent	12.63 grams	0.435 moles	2097 cc/sec	492 Watts	
1.340 in	83.1 PSI	250.0 deg F	0.0 percent	12.63 grams	0.452 moles	1943 cc/sec	543 Watts	
1.690 in	67.6 PSI	222.0 deg F	0.0 percent	12.63 grams	0.452 moles	1671 cc/sec	510 Watts	
1.990 in	57.2 PSI	195.0 deg F	0.0 percent	12.63 grams	0.452 moles	1347 cc/sec	431 Watts	
2.230 in	46.7 PSI	168.0 deg F	0.0 percent	12.63 grams	0.452 moles	1001 cc/sec	331 Watts	
2.410 in	39.0 PSI	142.0 deg F	0.0 percent	12.63 grams	0.452 moles	670 cc/sec	226 Watts	
2.520 in	31.2 PSI	118.0 deg F	0.0 percent	12.63 grams	0.452 moles	386 cc/sec	130 Watts	
2.580 in	23.4 PSI	98.0 deg F	0.0 percent	12.63 grams	0.452 moles	169 cc/sec	56 Watts	
2.600 in	15.6 PSI	82.0 deg F	0.0 percent	12.63 grams	0.452 moles	32 cc/sec	11 Watts	
2.600 in	10.4 PSI	70.0 deg F	0.0 percent	12.63 grams	0.452 moles	0 cc/sec	0 Watts	

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DISTANCE OF PCFIRE TOP FACE FROM INNER WALL	GAS PRESSURE ABOVE PCFIRE	GAS TEMPERATURE ABOVE PCFIRE	PERCENT OF FRESH AIR REMAINING	GRAMS OF GASES IN CHAMBER	TOTAL MOLES IN CHAMBER	HYDRAULIC FLUID OUTFLOW	MECHANICAL ENERGY OUTPUT WATTS	CHEMICAL ENERGY INPUT WATTS
0.000 in	332.6 PSI	380.0 deg F	100.0 percent	12.45 grams	0.435 moles	0 cc/sec	0 Watts	1350 Watts
0.080 in	291.1 PSI	372.0 deg F	91.0 percent	12.63 grams	0.435 moles	989 cc/sec	118 Watts	
0.300 in	218.3 PSI	345.0 deg F	68.0 percent	12.63 grams	0.435 moles	1685 cc/sec	314 Watts	
0.610 in	145.5 PSI	312.0 deg F	40.0 percent	12.63 grams	0.435 moles	2031 cc/sec	412 Watts	
0.970 in	103.9 PSI	280.0 deg F	12.0 percent	12.63 grams	0.435 moles	2097 cc/sec	492 Watts	
1.340 in	83.1 PSI	250.0 deg F	0.0 percent	12.63 grams	0.452 moles	1943 cc/sec	543 Watts	
1.690 in	67.6 PSI	222.0 deg F	0.0 percent	12.63 grams	0.452 moles	1671 cc/sec	510 Watts	
1.990 in	57.2 PSI	195.0 deg F	0.0 percent	12.63 grams	0.452 moles	1347 cc/sec	431 Watts	
2.230 in	46.7 PSI	168.0 deg F	0.0 percent	12.63 grams	0.452 moles	1001 cc/sec	331 Watts	
2.410 in	39.0 PSI	142.0 deg F	0.0 percent	12.63 grams	0.452 moles	670 cc/sec	226 Watts	
2.520 in	31.2 PSI	118.0 deg F	0.0 percent	12.63 grams	0.452 moles	386 cc/sec	130 Watts	
2.580 in	23.4 PSI	98.0 deg F	0.0 percent	12.63 grams	0.452 moles	169 cc/sec	56 Watts	
2.600 in	15.6 PSI	82.0 deg F	0.0 percent	12.63 grams	0.452 moles	32 cc/sec	11 Watts	
2.600 in	10.4 PSI	70.0 deg F	0.0 percent	12.63 grams	0.452 moles	0 cc/sec	0 Watts	

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Heat_Power_Spreadsheet_147_watt_output_14rows_v3.xlsx	7/17/2026 10:32 AM	Microsoft Excel Worksheet	12 KB	

Name	Date modified	Type	Size
 do not use Heat_Power_Spreadsheet_147_watt_output_14rows_v3.csv	7/15/2026 4:01 PM	Microsoft Excel Comma Separated Values File	3 KB
 do not use Heat_Power_Spreadsheet_500_watt_output_14rows_v2.csv	7/15/2026 4:00 PM	Microsoft Excel Comma Separated Values File	4 KB
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 do not use Heat_Power_Spreadsheet_500_watt_output_v1.csv	7/15/2026 3:39 PM	Microsoft Excel Comma
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 Heat Power Values 500 watts CORRECTED.csv	7/17/2026 12:11 PM	Microsoft Excel Comma

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MECHANICAL ENERGY OUTPUT WATTS	CUMULATIVE FUEL ENERGY INPUT
0 Watts	0
118 Watts	
314 Watts	
412 Watts	
492 Watts	
543 Watts	
510 Watts	
431 Watts	
331 Watts	
226 Watts	
130 Watts	
56 Watts	
11 Watts	
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MECHANICAL ENERGY OUTPUT WATTS	CUMULATIVE FUEL ENERGY INPUT	
0 Watts	0	
118 Watts	270	
314 Watts	540	
412 Watts	810	
492 Watts	1080	
543 Watts	1350 Fuel Input Rate set to zero	
510 Watts	no further fuel energy added	
431 Watts	no further fuel energy added	
331 Watts	no further fuel energy added	
226 Watts	no further fuel energy added	
130 Watts	no further fuel energy added	
56 Watts	no further fuel energy added	
11 Watts	no further fuel energy added	
0 Watts	no further fuel energy added	

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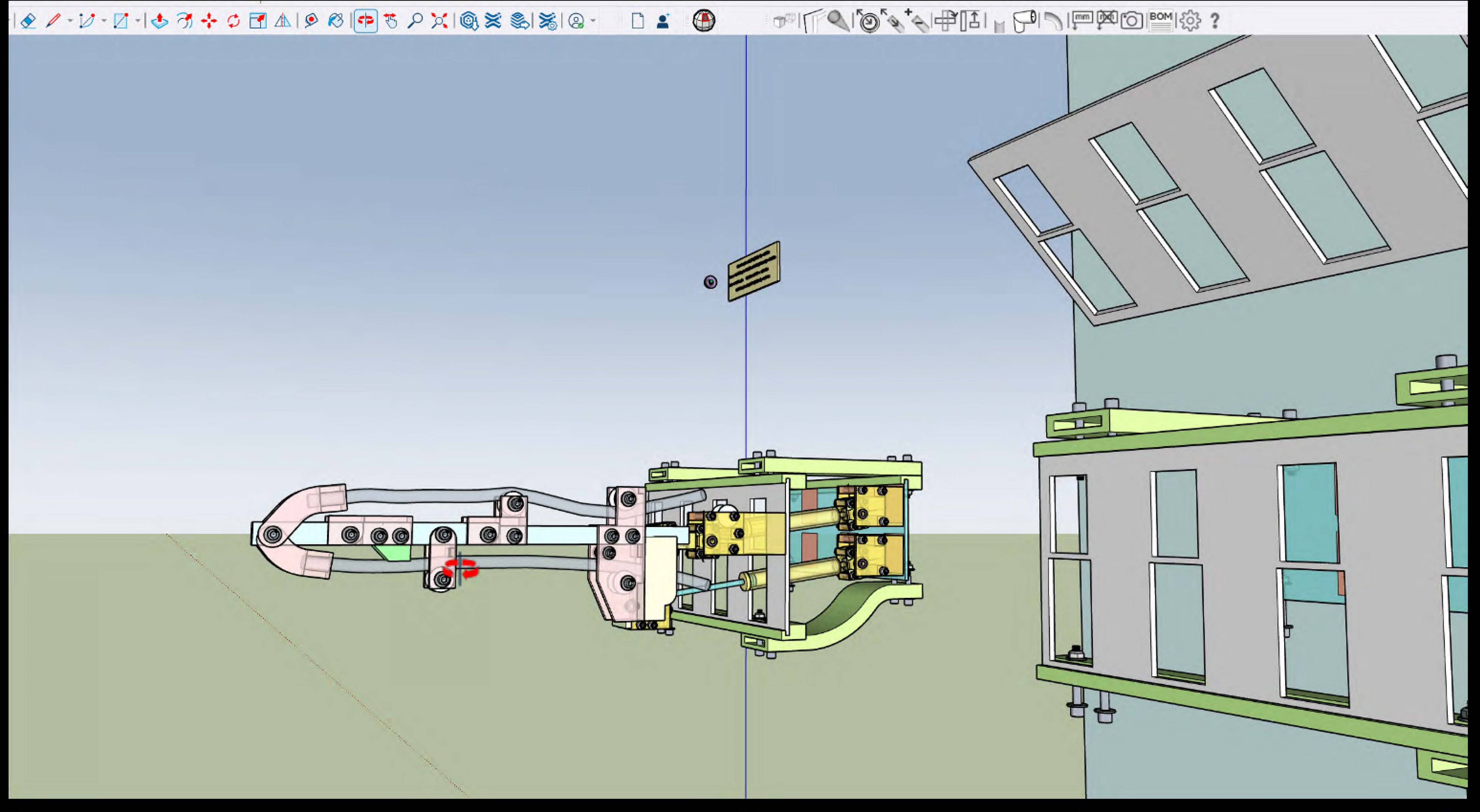
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HYDRAULIC FLUID OUTFLOW	MECHANICAL ENERGY OUTPUT WATTS	CUMULATIVE FUEL ENERGY INPUT							
0 cc/sec	0 Watts	0							
213 cc/sec	13 Watts	79							
409 cc/sec	29 Watts	159							
562 cc/sec	54 Watts	238							
670 cc/sec	81 Watts	318							
730 cc/sec	110 Watts	397 Fuel Input rate set to zero							
743 cc/sec	133 Watts	no further fuel energy added							
709 cc/sec	147 Watts	no further fuel energy added							
634 cc/sec	153 Watts	no further fuel energy added							
521 cc/sec	142 Watts	no further fuel energy added							
380 cc/sec	116 Watts	no further fuel energy added							
224 cc/sec	75 Watts	no further fuel energy added							
76 cc/sec	27 Watts	no further fuel energy added							
0 cc/sec	0 Watts	no further fuel energy added							

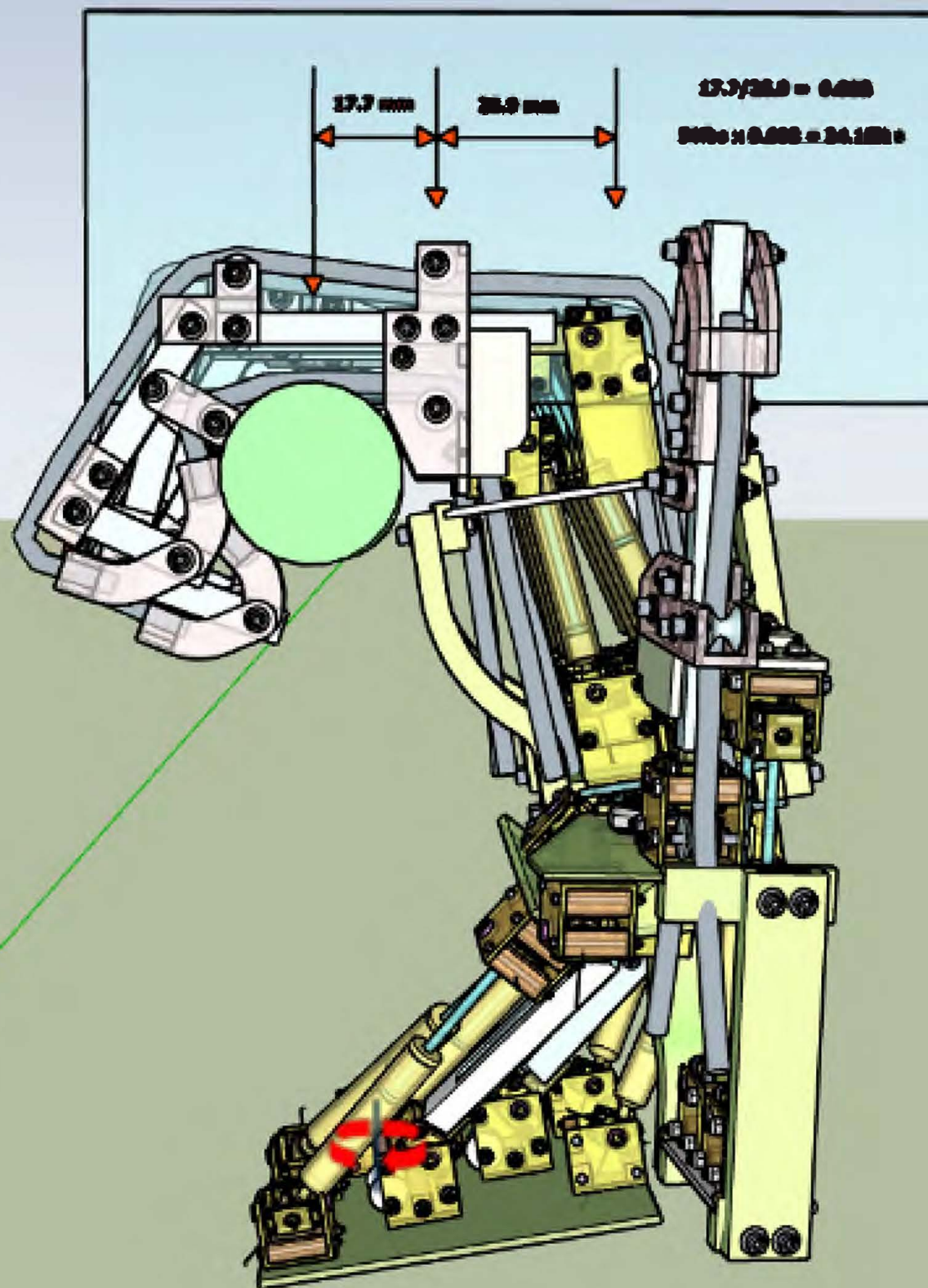
SOUTH COMBUSTION FORCE										
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			Kinetics 147 Watt Output Spreadsheet							
	TIME INTERVAL	DISTANCE TRAVELED FROM TDC	SOUTH COMBUSTION FORCE	NORTH HYDRAULIC FORCE	NET KINETIC FORCE	FREEPISTON VELOCITY	PISTON ACCELERATION STATE	ASSEMBLY FIXED WEIGHT		
	0.00s	0.000 in	1350.0 lbs	1150.0 lbs	+200.0 lbs Pushing South	0.00 ft/sec	+1514 ft/sÂ² Accelerating	4.25 lbs Mass / 15 lbs Friction		
	0.04s	0.020 in	1300.0 lbs	1150.0 lbs	+135.0 lbs Pushing South	1.45 ft/sec	+1022 ft/sÂ² Accelerating	4.25 lbs Mass / 15 lbs Friction		
	0.08s	0.070 in	1200.0 lbs	1150.0 lbs	+35.0 lbs Pushing South	2.78 ft/sec	+264 ft/sÂ² Accelerating	4.25 lbs Mass / 15 lbs Friction		
	0.12s	0.170 in	1050.0 lbs	1150.0 lbs	-115.0 lbs Braking North	3.82 ft/sec	-870 ft/sÂ² Decelerating	4.25 lbs Mass / 15 lbs Friction		
	0.16s	0.310 in	900.0 lbs	1150.0 lbs	-265.0 lbs Braking North	4.55 ft/sec	-2006 ft/sÂ² Decelerating	4.25 lbs Mass / 15 lbs Friction		
	0.20s	0.500 in	750.0 lbs	1150.0 lbs	-415.0 lbs Braking North	4.96 ft/sec (Peak)	-3141 ft/sÂ² Decelerating	4.25 lbs Mass / 15 lbs Friction		
	0.24s	0.730 in	600.0 lbs	1150.0 lbs	-565.0 lbs Braking North	5.05 ft/sec	-4277 ft/sÂ² Decelerating	4.25 lbs Mass / 15 lbs Friction		
	0.28s	1.010 in	500.0 lbs	1150.0 lbs	-665.0 lbs Braking North	4.82 ft/sec	-5034 ft/sÂ² Decelerating	4.25 lbs Mass / 15 lbs Friction		
	0.32s	1.320 in	400.0 lbs	1150.0 lbs	-765.0 lbs Braking North	4.31 ft/sec	-5791 ft/sÂ² Decelerating	4.25 lbs Mass / 15 lbs Friction		
	0.36s	1.650 in	300.0 lbs	1150.0 lbs	-865.0 lbs Braking North	3.54 ft/sec	-6548 ft/sÂ² Decelerating	4.25 lbs Mass / 15 lbs Friction		
	0.40s	1.970 in	225.0 lbs	1150.0 lbs	-940.0 lbs Braking North	2.58 ft/sec	-7115 ft/sÂ² Decelerating	4.25 lbs Mass / 15 lbs Friction		
	0.44s	2.260 in	150.0 lbs	1150.0 lbs	-1015.0 lbs Braking North	1.52 ft/sec	-7683 ft/sÂ² Decelerating	4.25 lbs Mass / 15 lbs Friction		
	0.48s	2.490 in	100.0 lbs	1150.0 lbs	-1065.0 lbs Braking North	0.52 ft/sec	-8061 ft/sÂ² Decelerating	4.25 lbs Mass / 15 lbs Friction		
	0.52s	2.600 in	75.0 lbs	1150.0 lbs	-1090.0 lbs Braking North	0.00 ft/sec	-8250 ft/sÂ² Decelerating	4.25 lbs Mass / 15 lbs Friction		

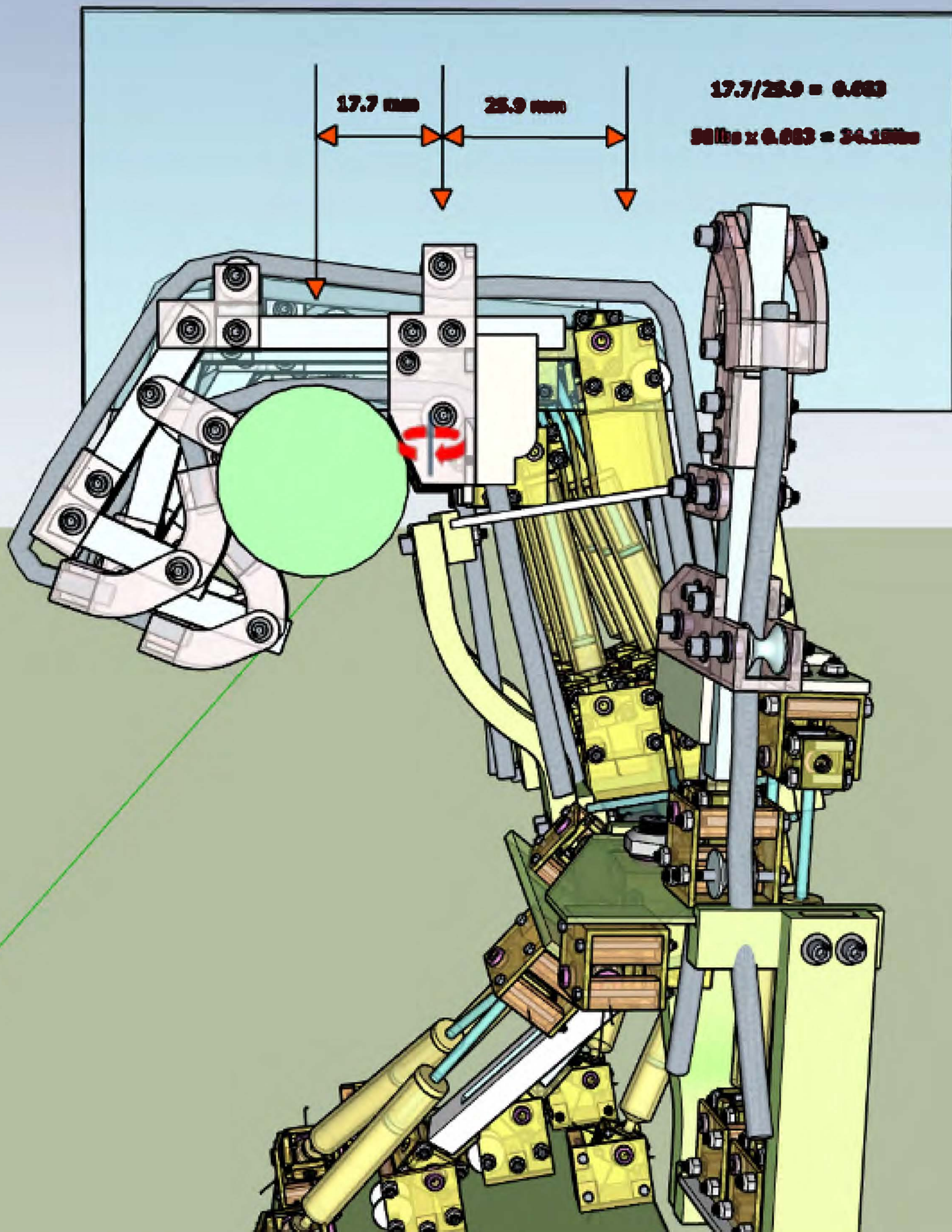
4.25 lbs Mass / 25 lbs Friction							
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		Kinetics 500 Watt Output Spreadsheet					
TIME INTERVAL	DISTANCE TRAVELED FROM TDC	SOUTH COMBUSTION FORCE	NORTH HYDRAULIC FORCE	NET KINETIC FORCE	FREEPISTON VELOCITY	PISTON ACCELERATION STATE	ASSEMBLY FIXED WEIGHT/ FRICTION FORCE
0.00s	0.000 in	3200.0 lbs	1560.6 lbs	+1614.4 lbs Pushing South	0.00 ft/sec	+12217 ft/sÂ² Accelerating	4.25 lbs Mass / 25 lbs Friction
0.03s	0.080 in	2800.0 lbs	1560.6 lbs	+1214.4 lbs Pushing South	6.72 ft/sec	+9185 ft/sÂ² Accelerating	4.25 lbs Mass / 25 lbs Friction
0.06s	0.300 in	2100.0 lbs	1560.6 lbs	+514.4 lbs Pushing South	11.45 ft/sec	+3893 ft/sÂ² Accelerating	4.25 lbs Mass / 25 lbs Friction
0.09s	0.610 in	1400.0 lbs	1560.6 lbs	-185.6 lbs Braking North	13.80 ft/sec	-1405 ft/sÂ² Decelerating	4.25 lbs Mass / 25 lbs Friction
0.12s	0.970 in	1000.0 lbs	1560.6 lbs	-585.6 lbs Braking North	14.25 ft/sec (Peak)	-4432 ft/sÂ² Decelerating	4.25 lbs Mass / 25 lbs Friction
0.15s	1.340 in	800.0 lbs	1560.6 lbs	-785.6 lbs Braking North	13.20 ft/sec	-5945 ft/sÂ² Decelerating	4.25 lbs Mass / 25 lbs Friction
0.18s	1.690 in	650.0 lbs	1560.6 lbs	-935.6 lbs Braking North	11.35 ft/sec	-7081 ft/sÂ² Decelerating	4.25 lbs Mass / 25 lbs Friction
0.21s	1.990 in	550.0 lbs	1560.6 lbs	-1035.6 lbs Braking North	9.15 ft/sec	-7837 ft/sÂ² Decelerating	4.25 lbs Mass / 25 lbs Friction
0.24s	2.230 in	450.0 lbs	1560.6 lbs	-1135.6 lbs Braking North	6.80 ft/sec	-8594 ft/sÂ² Decelerating	4.25 lbs Mass / 25 lbs Friction
0.27s	2.410 in	375.0 lbs	1560.6 lbs	-1210.6 lbs Braking North	4.55 ft/sec	-9161 ft/sÂ² Decelerating	4.25 lbs Mass / 25 lbs Friction
0.30s	2.520 in	300.0 lbs	1560.6 lbs	-1285.6 lbs Braking North	2.62 ft/sec	-9729 ft/sÂ² Decelerating	4.25 lbs Mass / 25 lbs Friction
0.33s	2.580 in	225.0 lbs	1560.6 lbs	-1360.6 lbs Braking North	1.15 ft/sec	-10296 ft/sÂ² Decelerating	4.25 lbs Mass / 25 lbs Friction
0.36s	2.600 in	150.0 lbs	1560.6 lbs	-1435.6 lbs Braking North	0.22 ft/sec	-10864 ft/sÂ² Decelerating	4.25 lbs Mass / 25 lbs Friction
0.39s	2.600 in	100.0 lbs	1560.6 lbs	-1485.6 lbs Braking North	0.00 ft/sec	-11242 ft/sÂ² Decelerating	4.25 lbs Mass / 25 lbs Friction

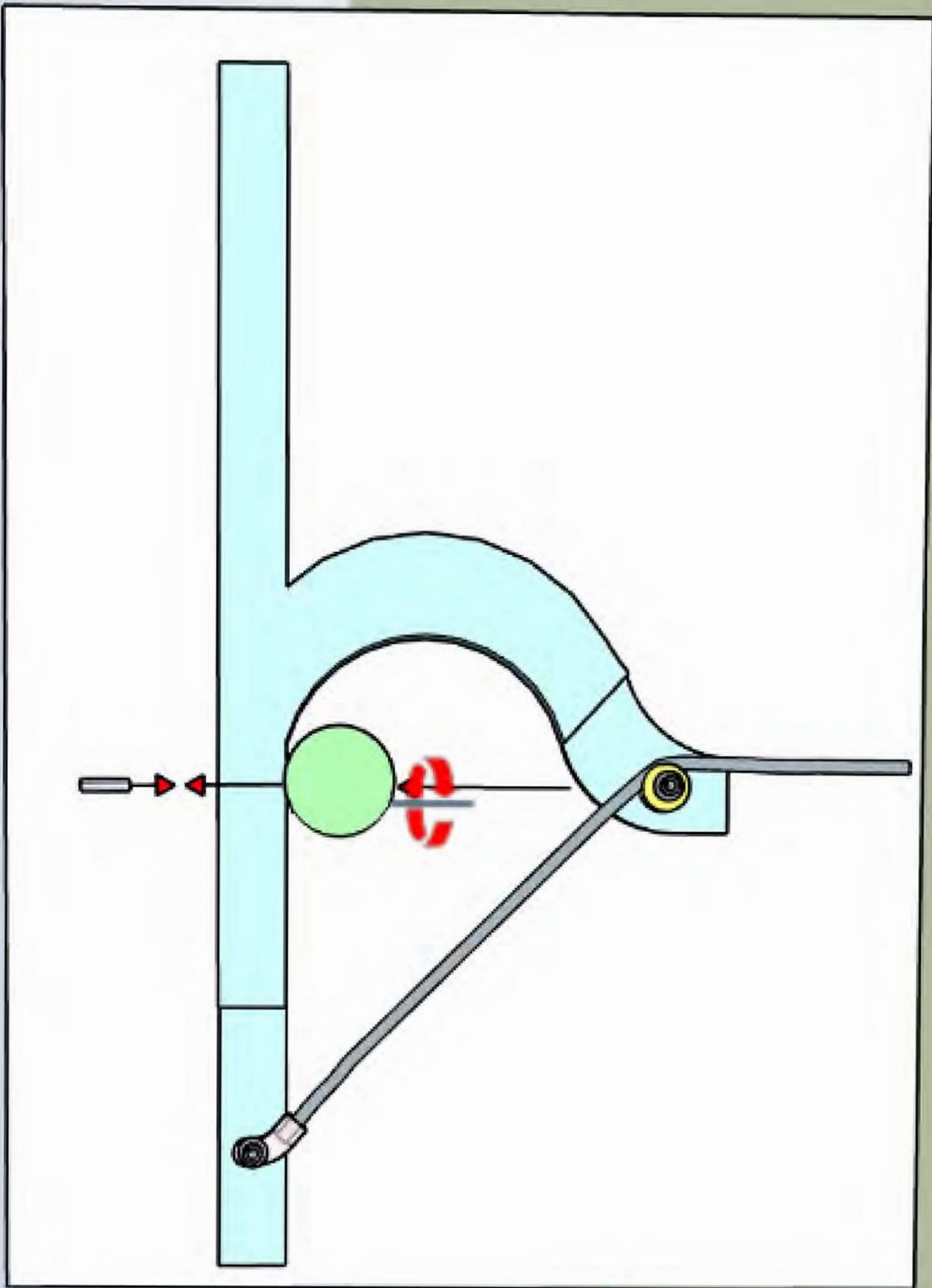
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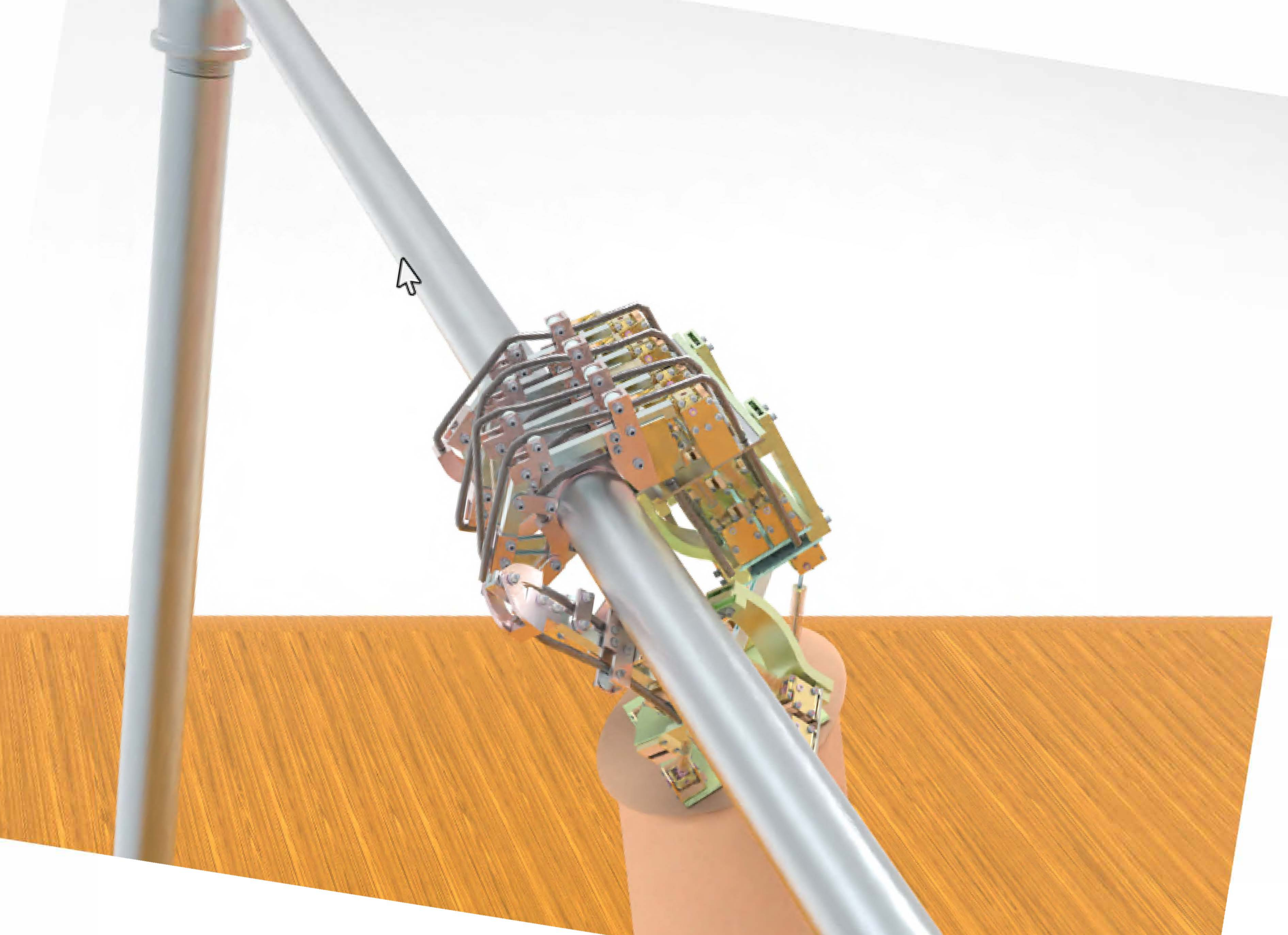
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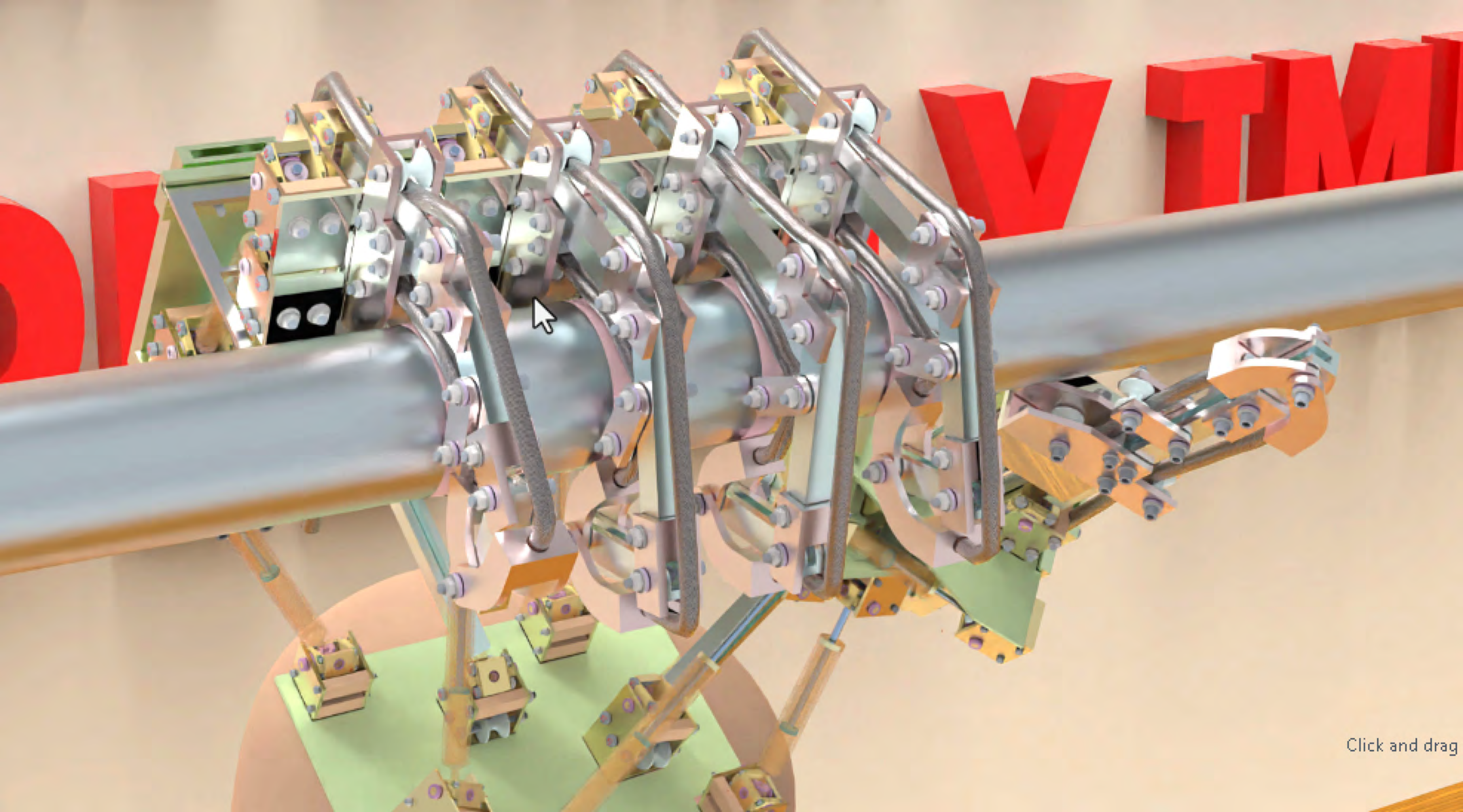












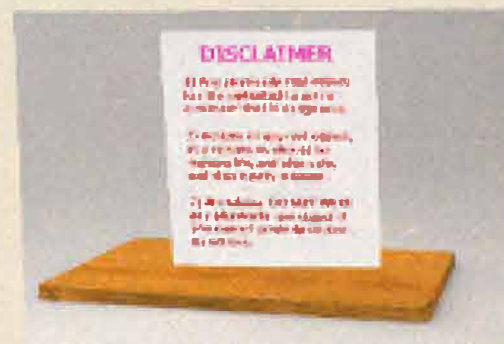
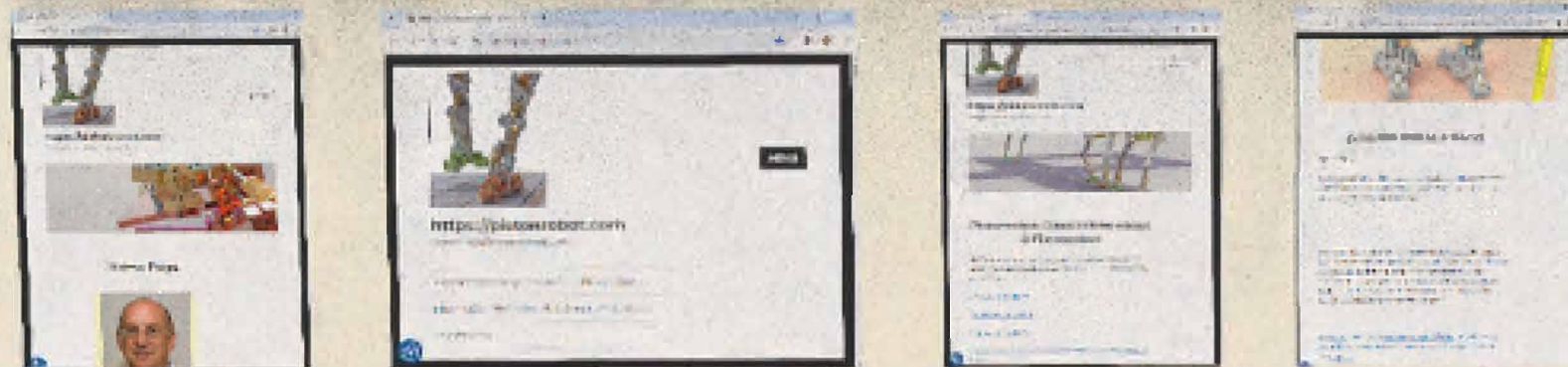
Click and drag

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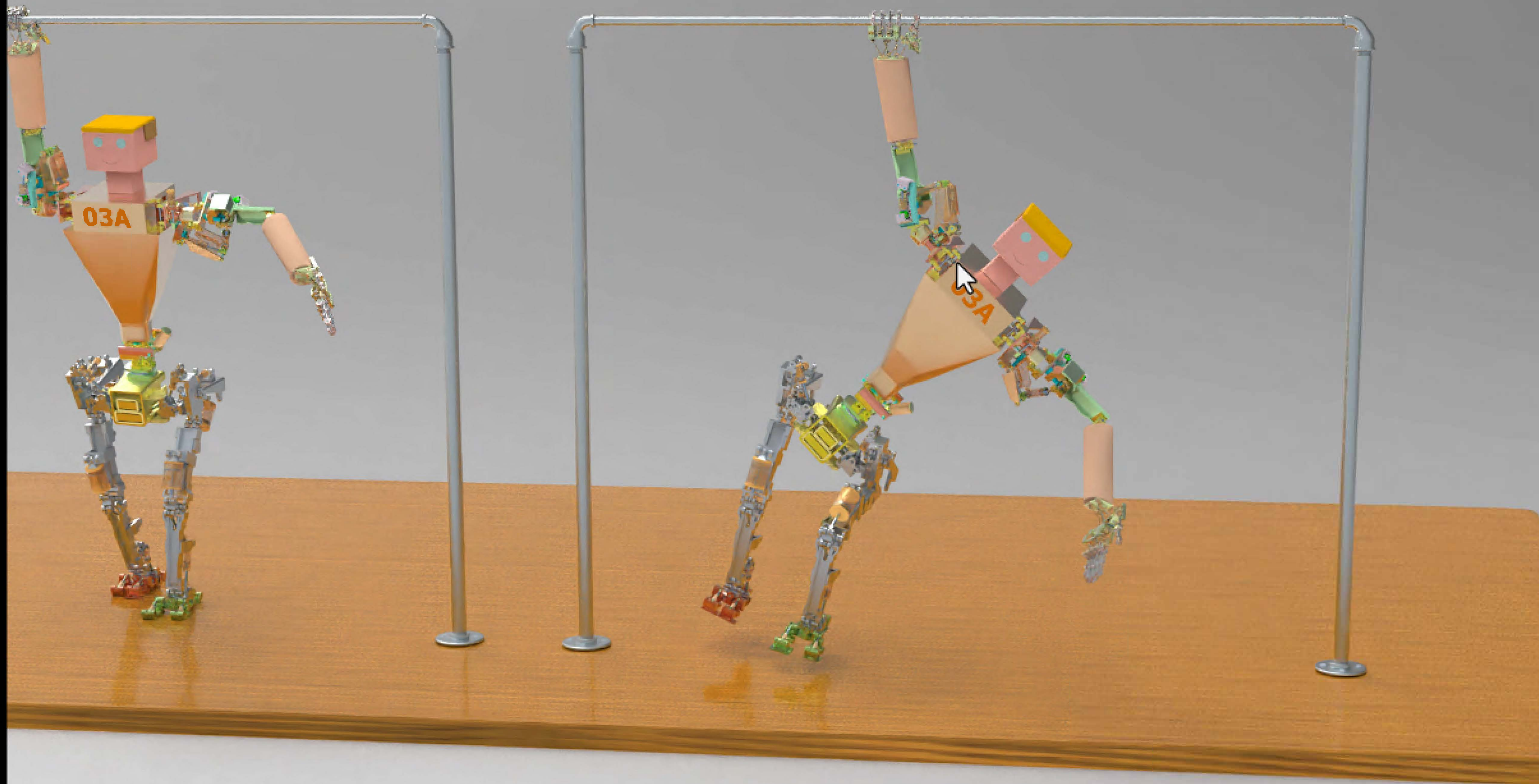


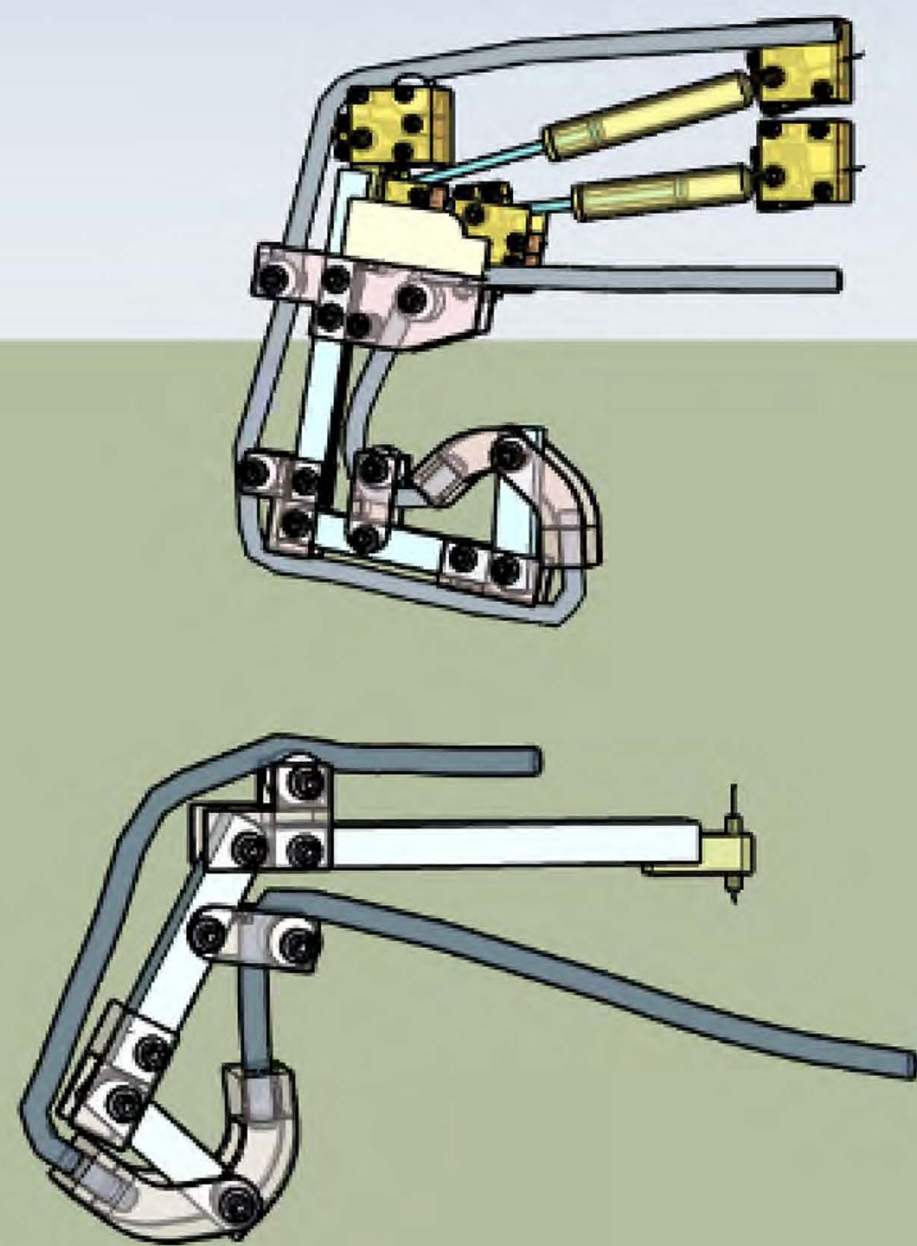
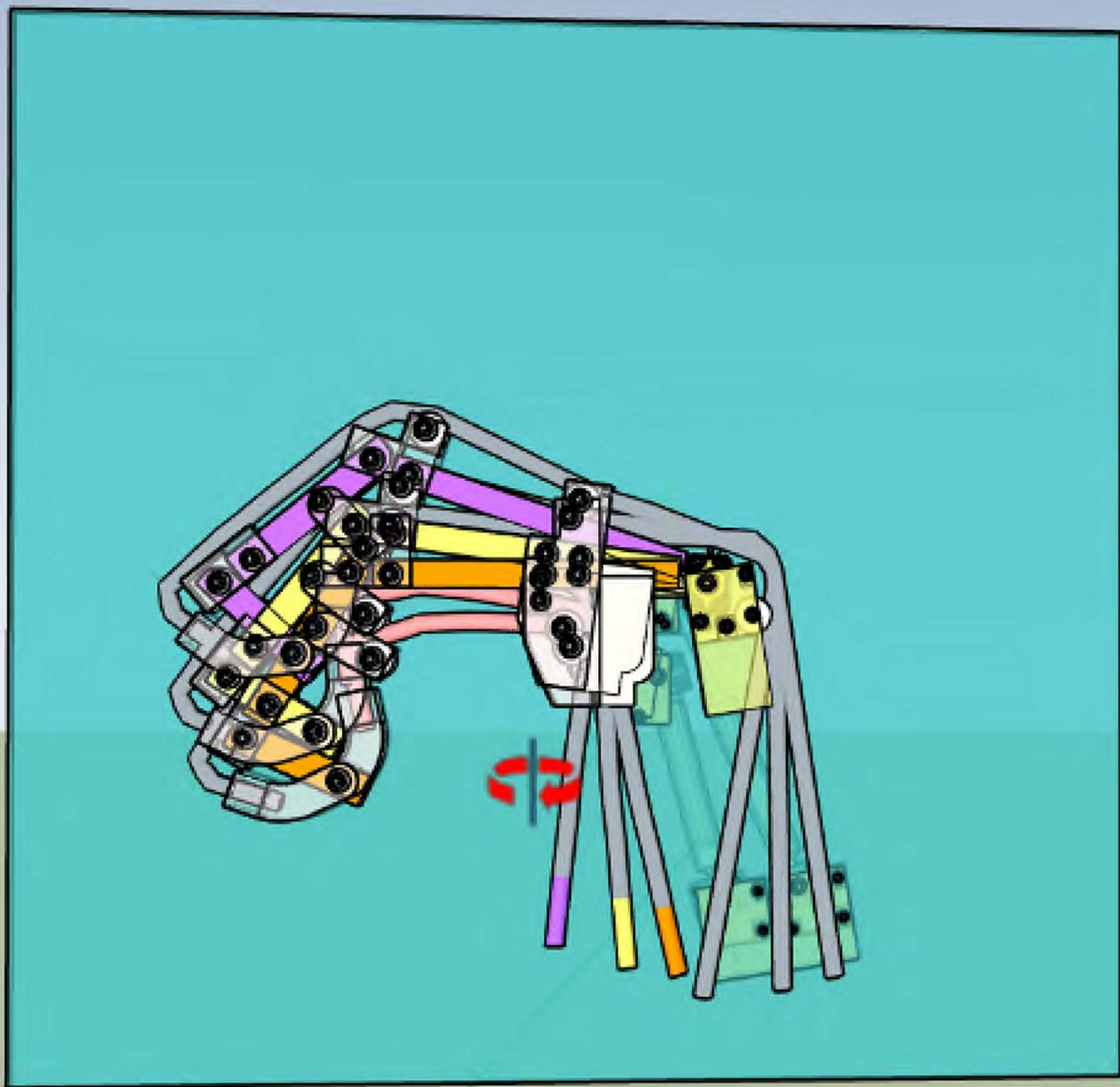
A Robot Hand Mimicking a Human Hand
The robot hand should have (at a minimum)

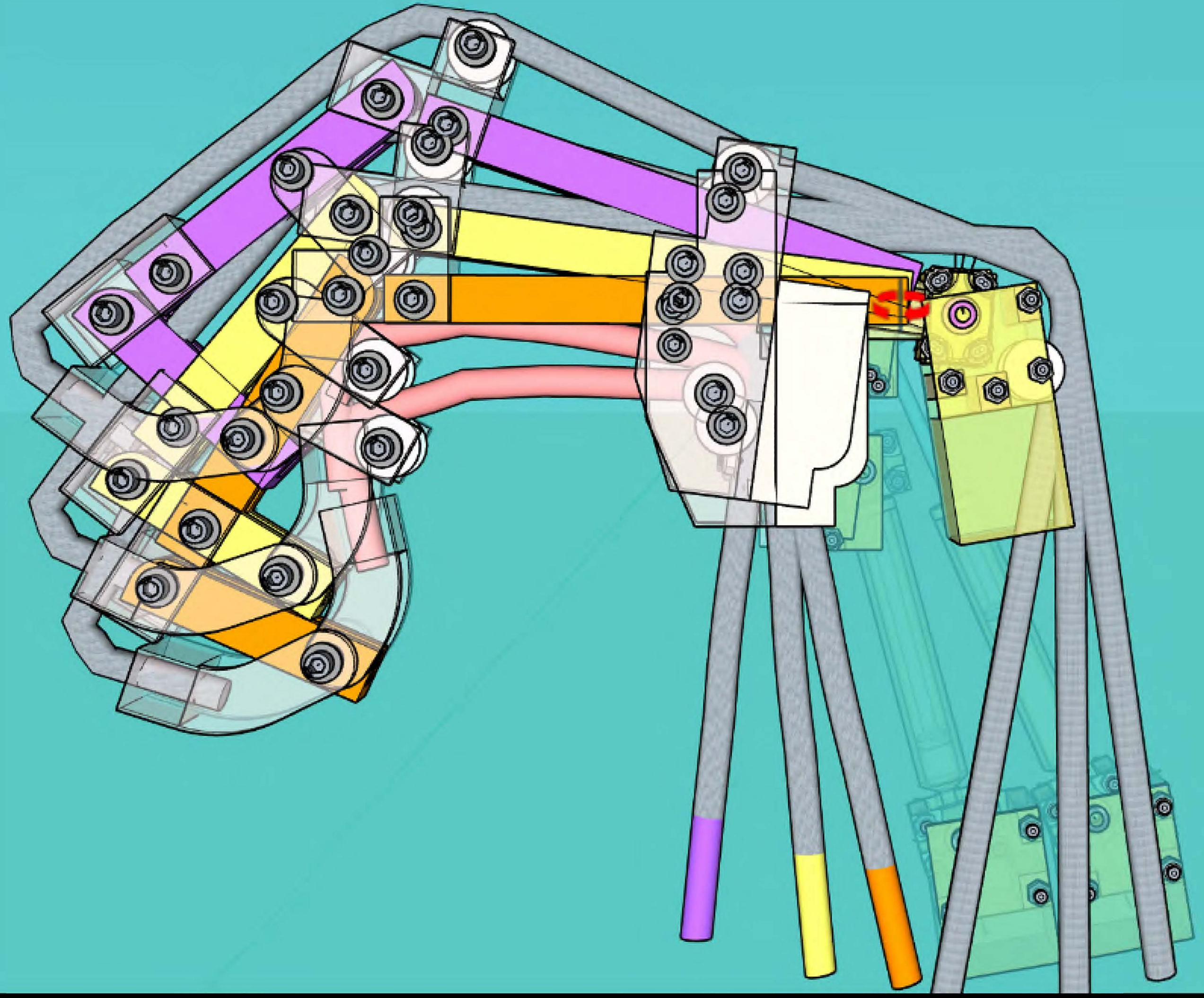
The following 4 Specifications:

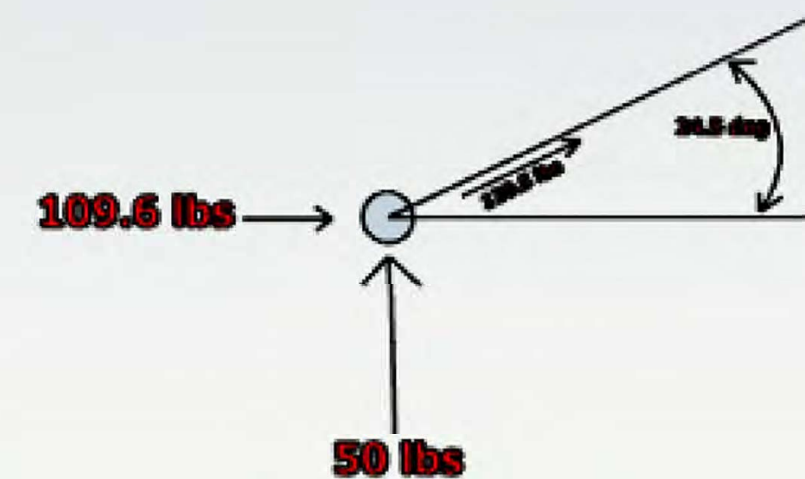
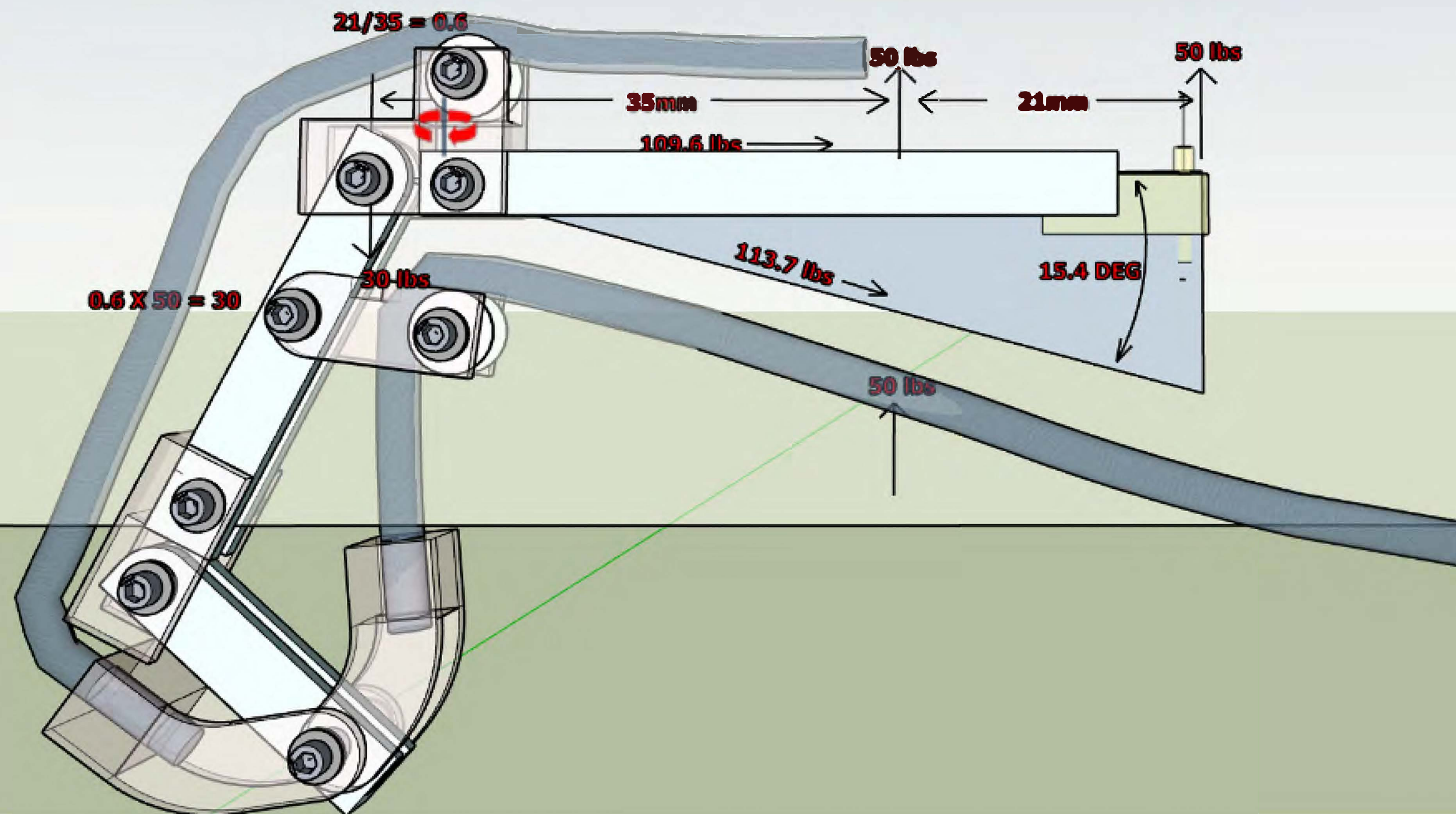
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Examples: put on mascara, write with a pencil, pick up a toothpick, type on a keyboard, use normal human hand tools, etc.
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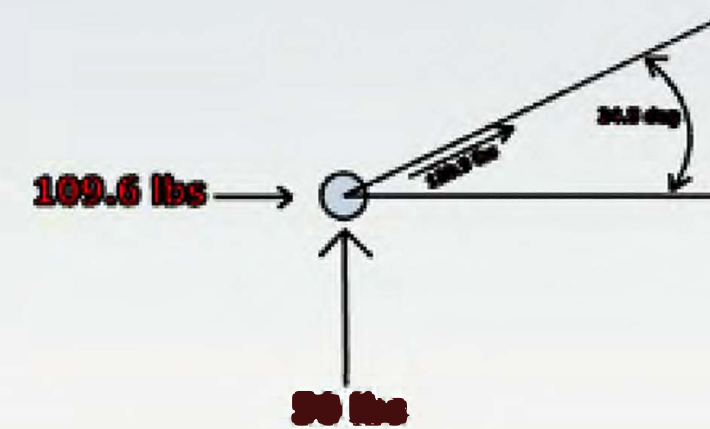
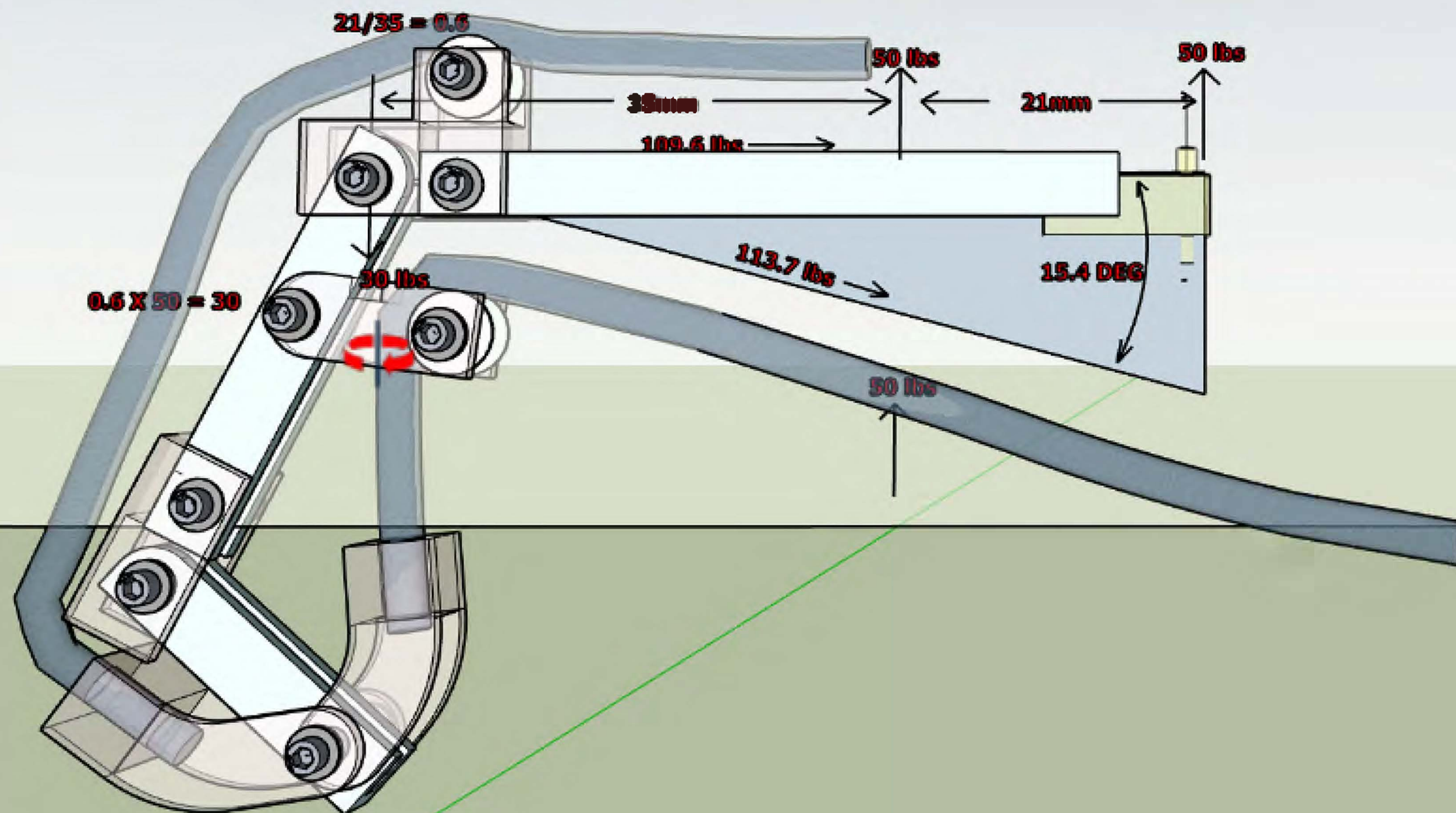
I am worried people will say: "Your Robot Hand Design is a good idea, but... for your Robot Hand Design to meet your four specifications."

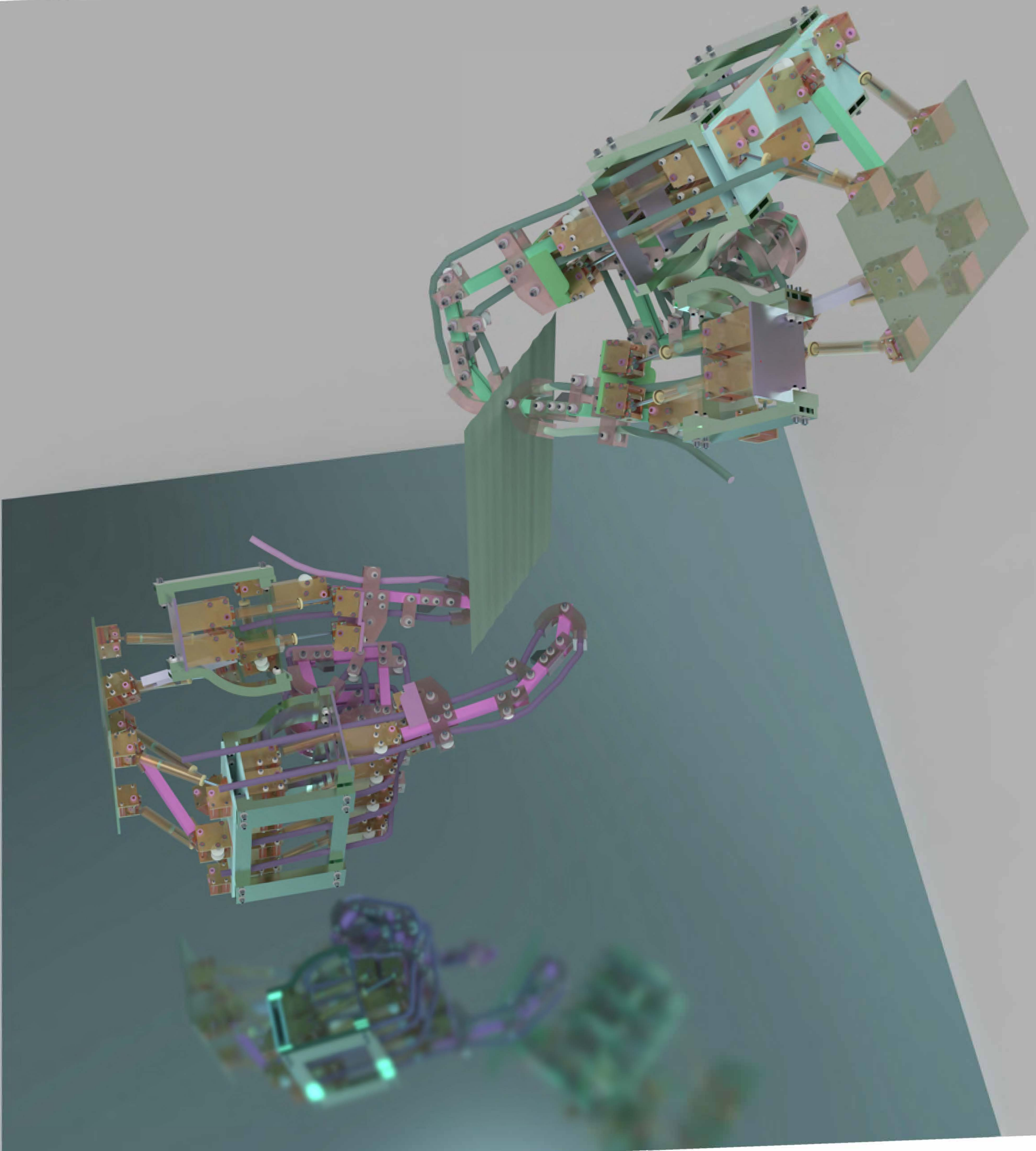


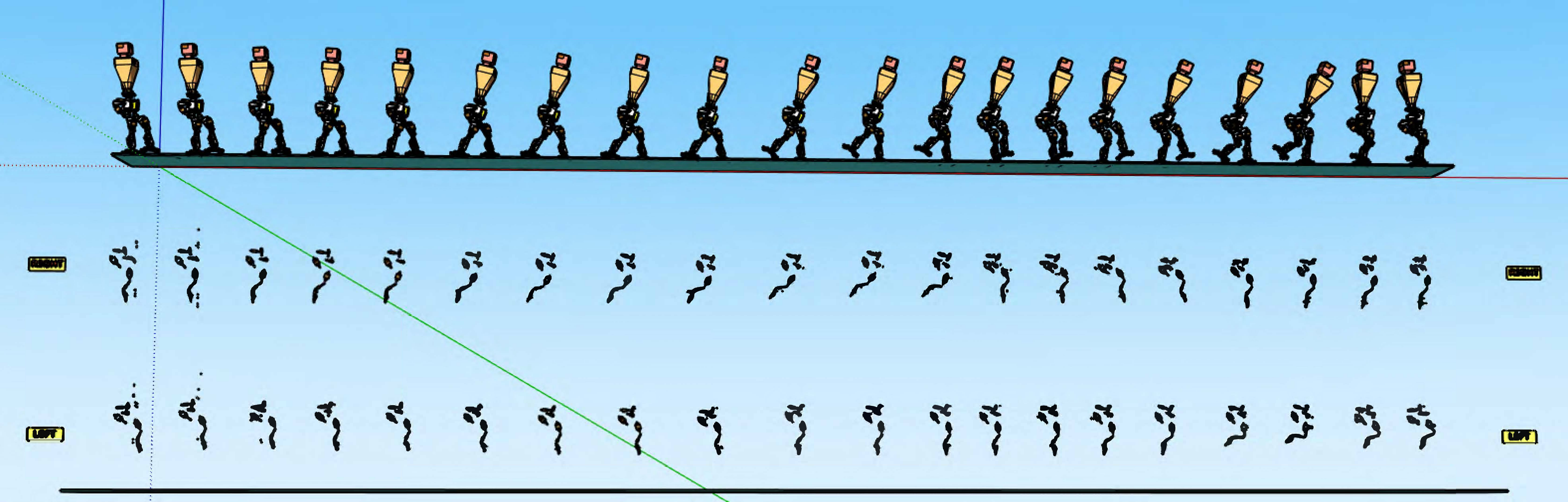


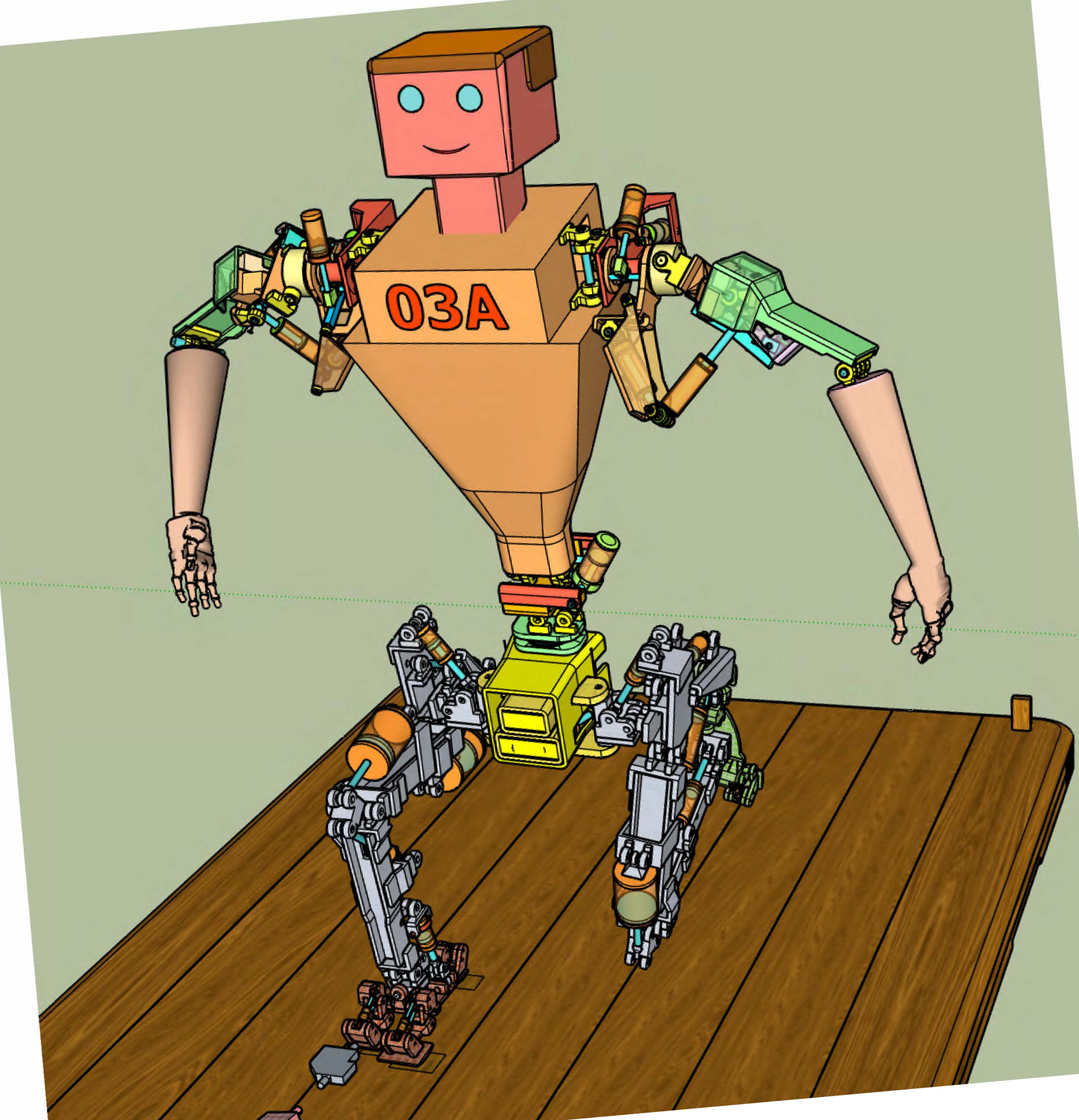


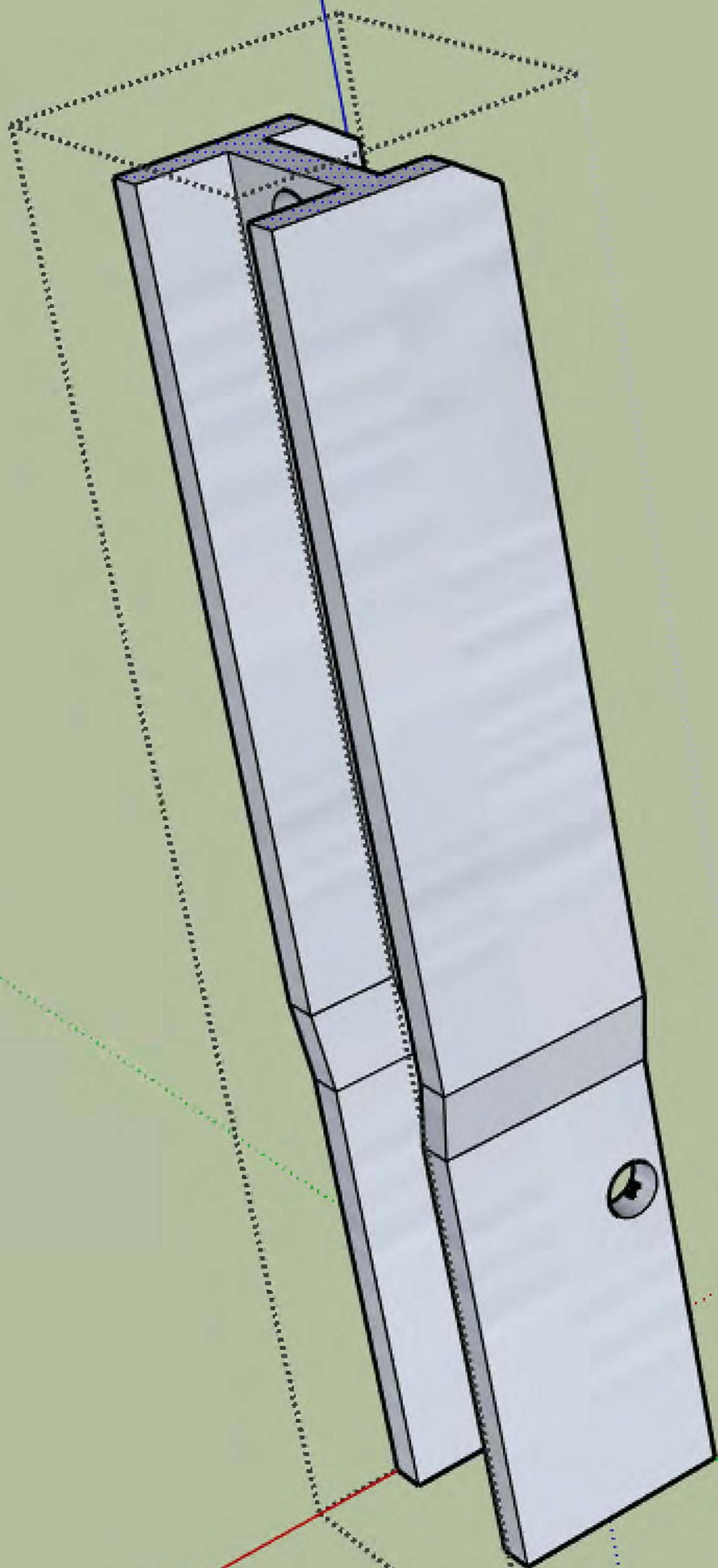












PG Tray

Entity Info

Face



Tag: Untagged



Area: 0.9179 in²



Toggles:    

Soften Edges

Angle between normals:
20.0 degrees



☒ Smooth normals

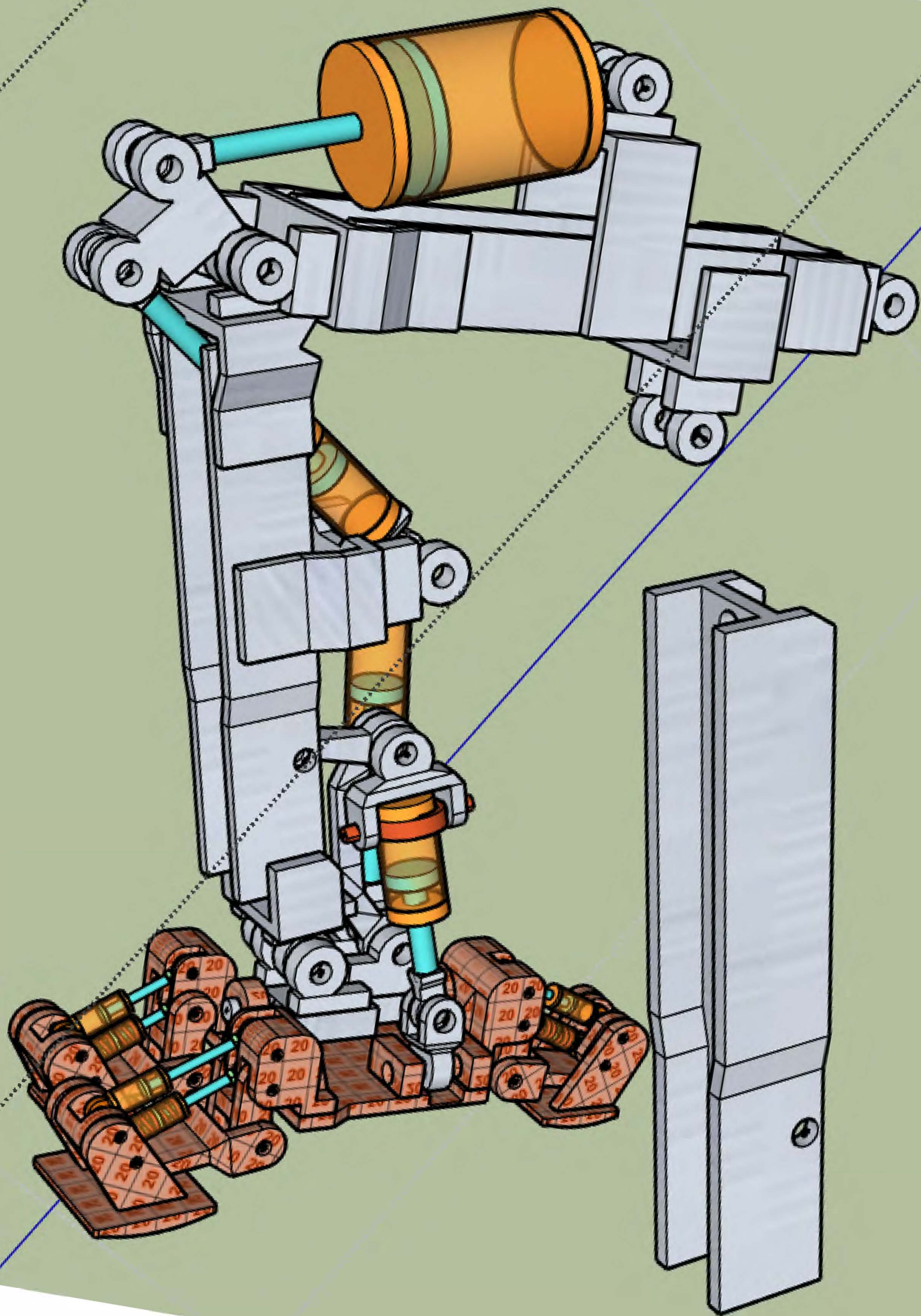
☐ Soften coplanar

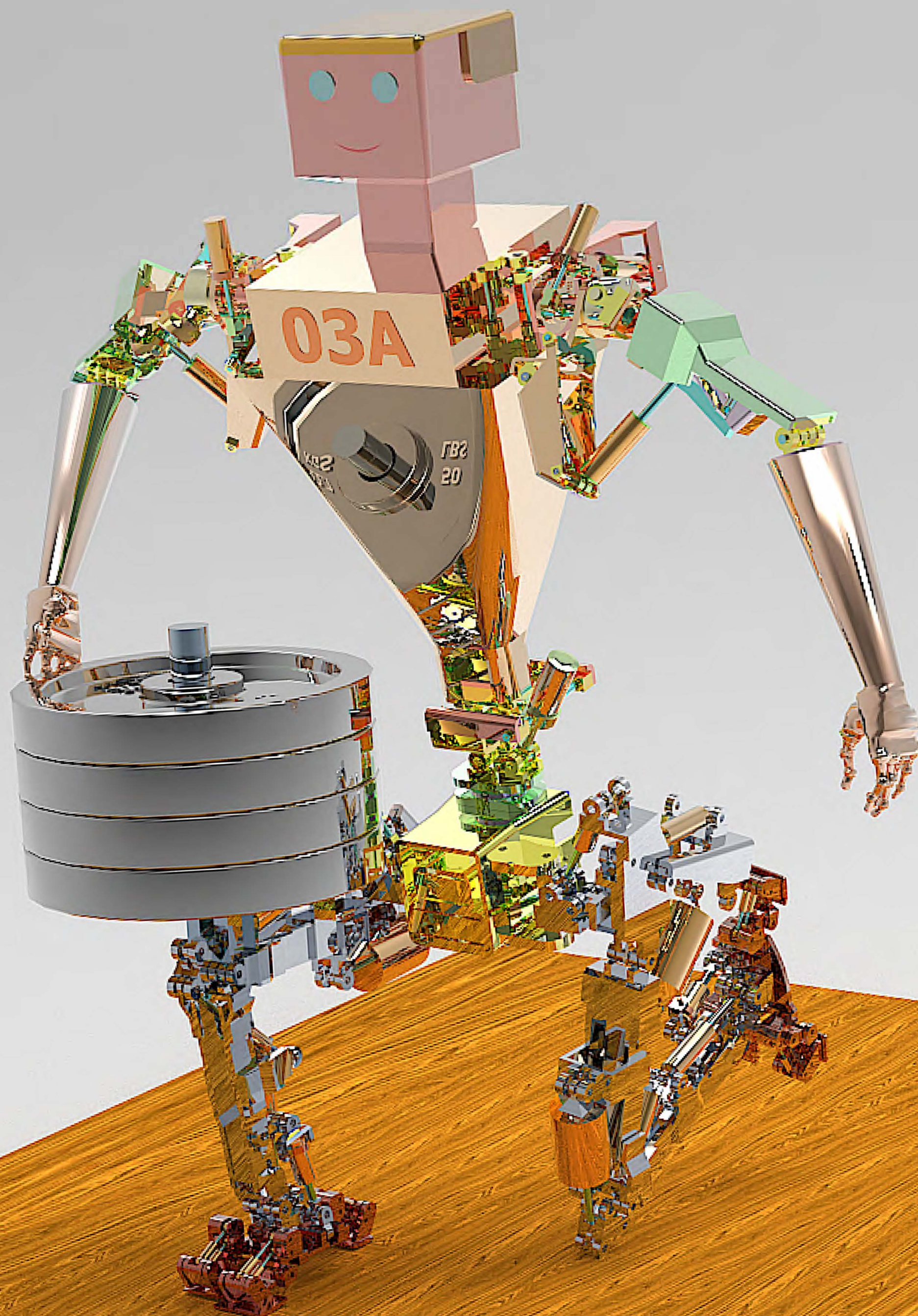
Outliner

Filter:

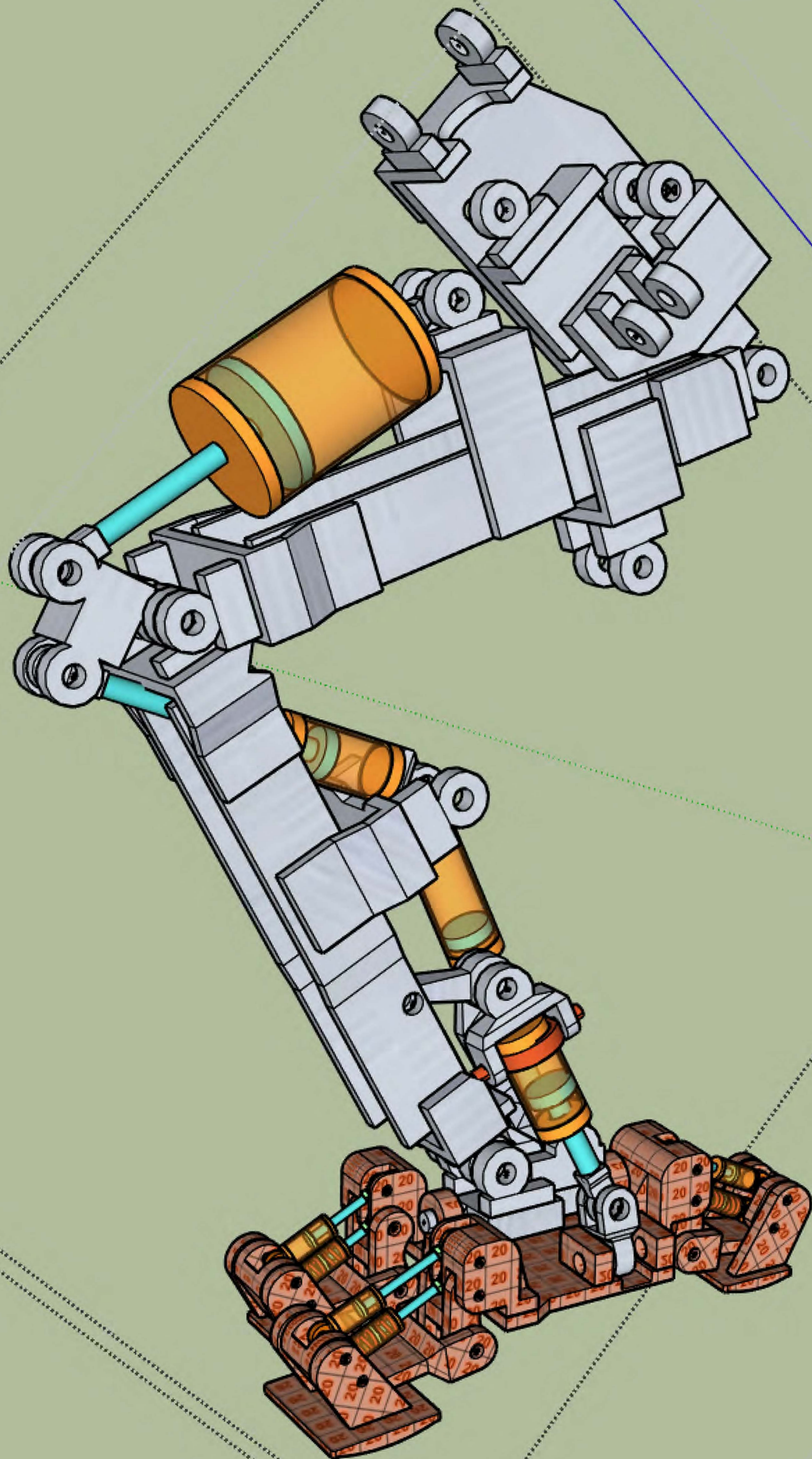
  ☒ Right Leg all parts 

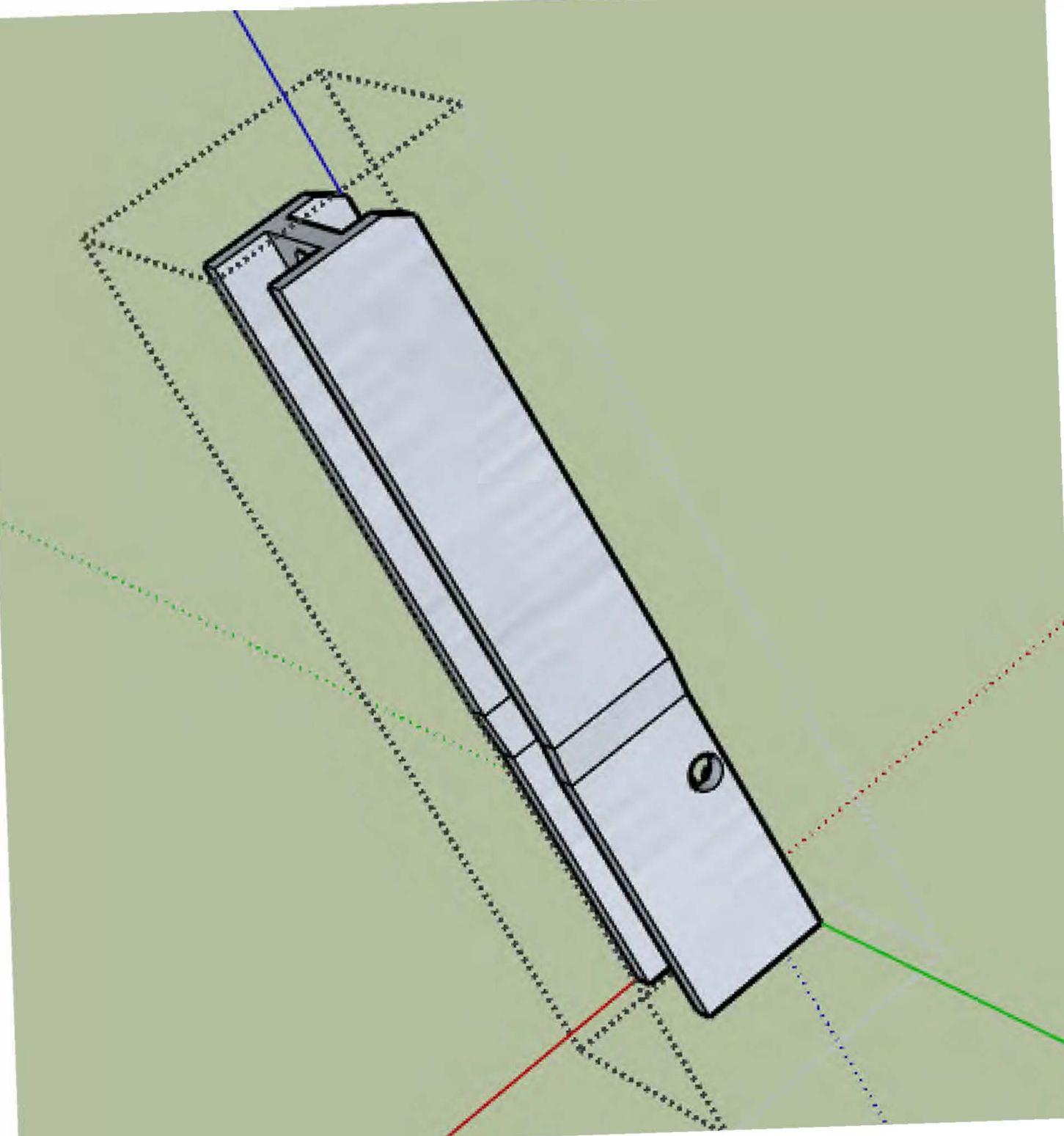
Click and drag to select a new capture area

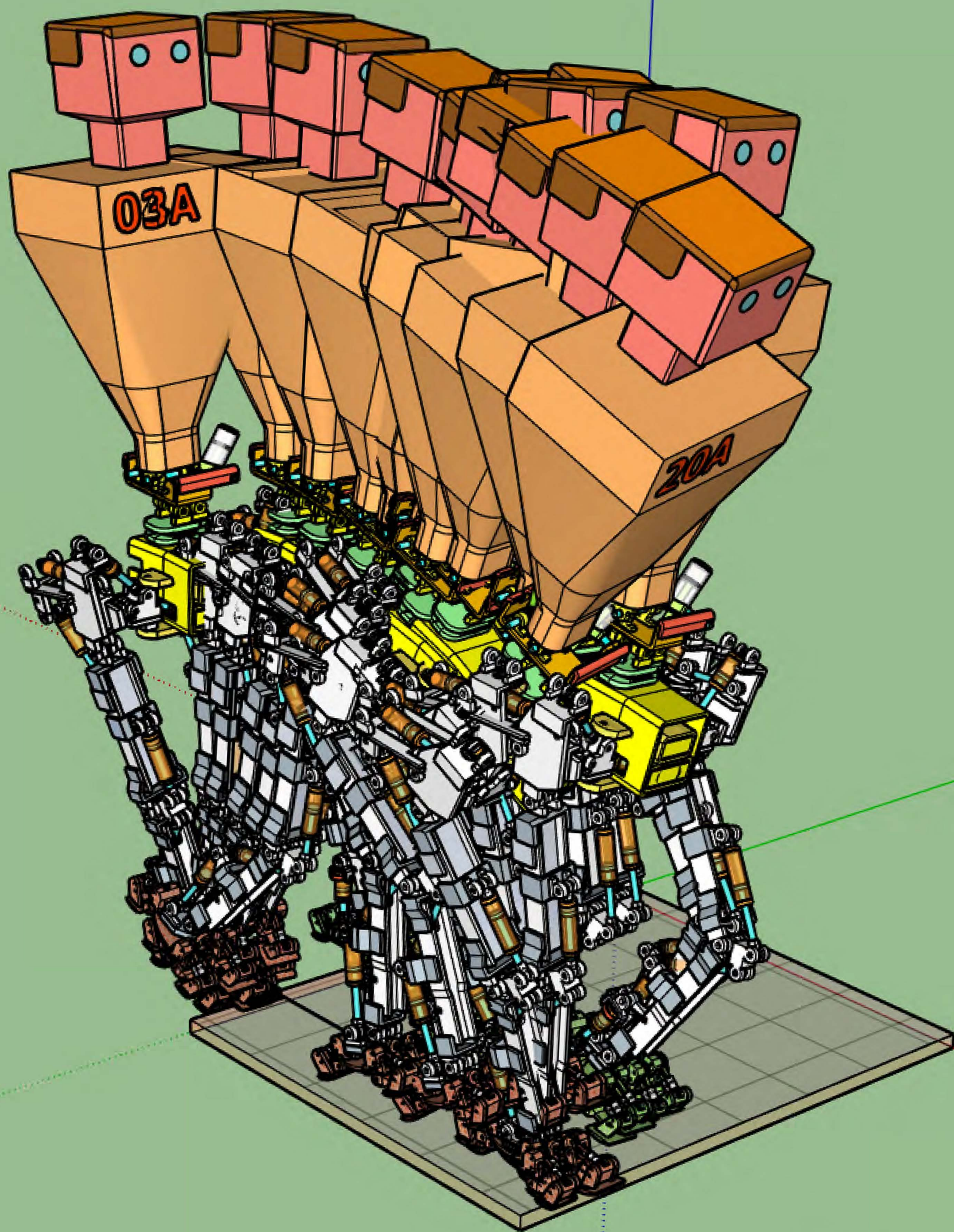




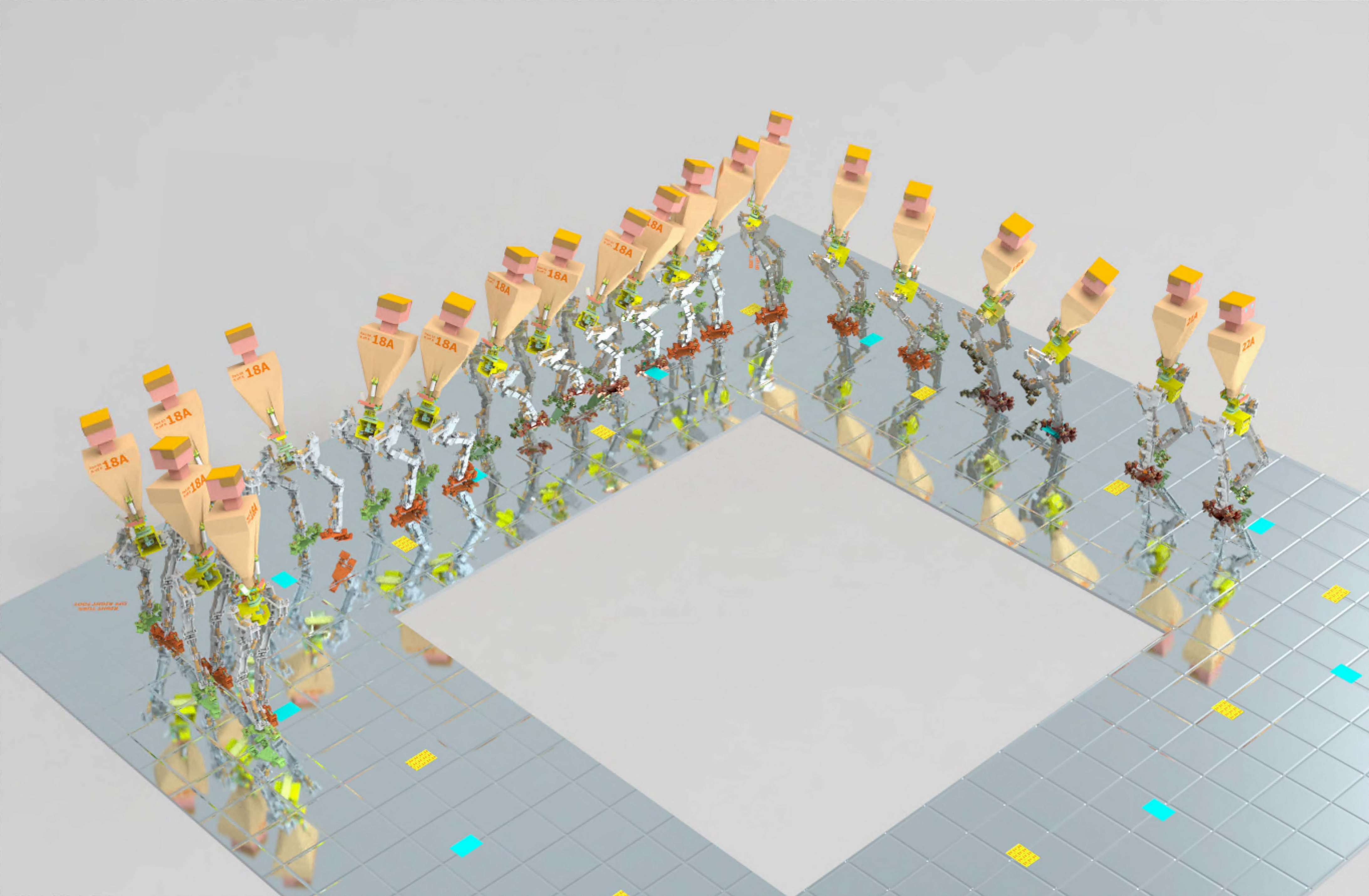
Click and drag to select a new capture area







Click and drag to select a new capture ar

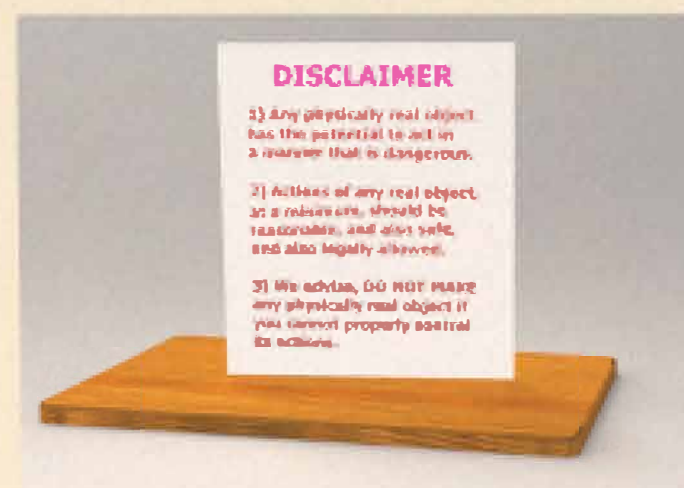
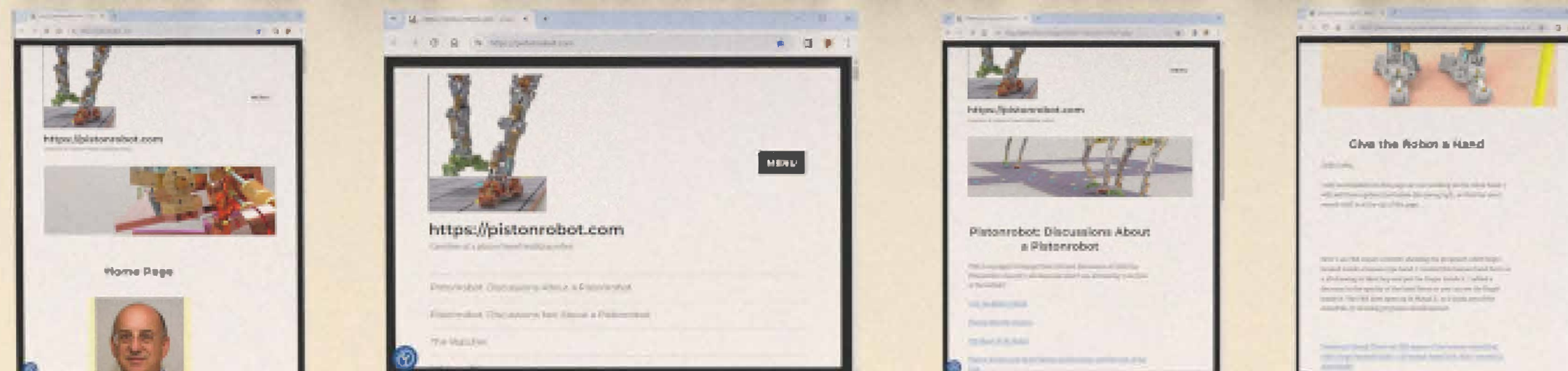


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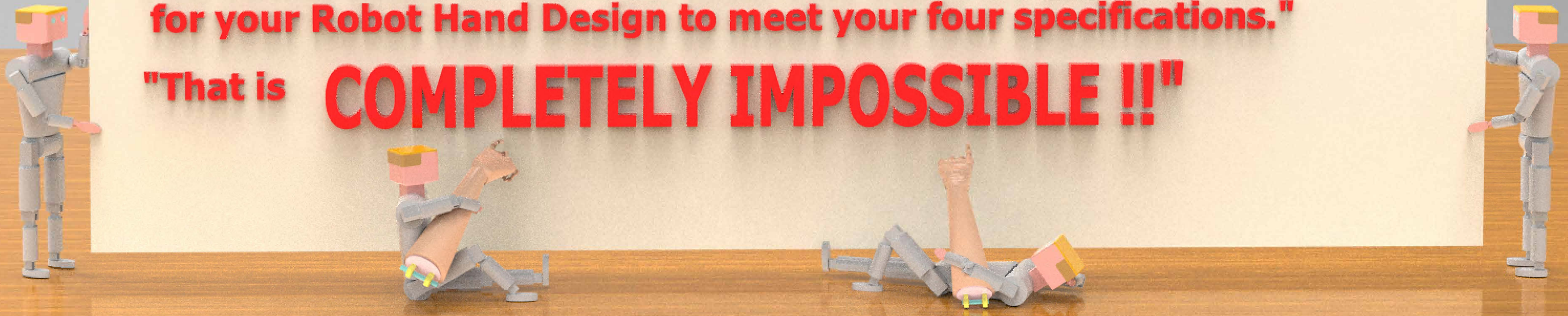
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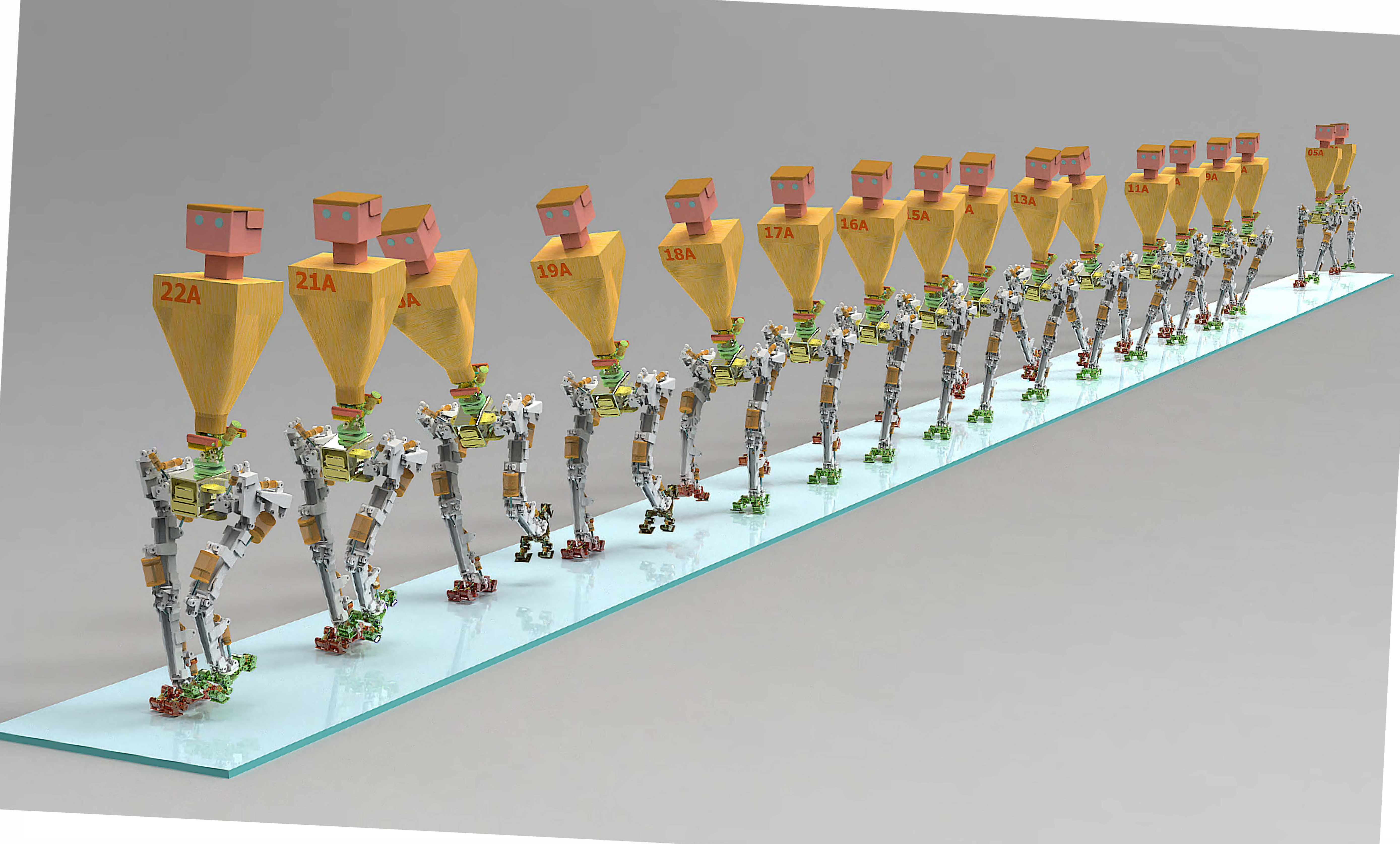
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"That is COMPLETELY IMPOSSIBLE !!"





			Stance # 1	Stance # 2	Stance # 3	Stance # 4	Stance # 5	Stance # 6
1	RIGHT	Shoulder Int-Ext Rotation						
2	RIGHT	Shoulder Flex-Ext #1						
3	RIGHT	Shoulder Flex-Ext #2						
4	RIGHT	Shoulder Abd-Adduc #1						
5	RIGHT	Shoulder Abd-Adduc #2						
6	RIGHT	Humerus Int-Ext Rotation						
7	RIGHT	Hip In-Ext Rotation						
8	RIGHT	Hip Abduc-Adduction						
9	RIGHT	Hip Flex-Ext #1						
10	RIGHT	Hip Flex-Ext #2						
11	RIGHT	Knee Flex-Ext #1						
12	RIGHT	Knee Flex-Ext #2						
13	RIGHT	Ankle Plantar-Dorsi Flex						
14	RIGHT	Ankle Inv-Eversion						
15	RIGHT	Big Toe Flex-Ext						
16	RIGHT	Little Toe Flex-Ext						
17	RIGHT	Heel Flex-Ext						
18	THORAX Tilt Left-Right							
19	THORAX Tilt Forward-Backward							
20	THORAX Rotate							
21	LEFT	Shoulder Int-Ext Rotation						
22	LEFT	Shoulder Flex-Ext #1						
23	LEFT	Shoulder Flex-Ext #2						
24	LEFT	Shoulder Abd-Adduc #1						
25	LEFT	Shoulder Abd-Adduc #2						
26	LEFT	Humerus Int-Ext Rotation						
27	LEFT	Hip In-Ext Rotation						
28	LEFT	Hip Abduc-Adduction						
29	LEFT	Hip Flex-Ext #1						
30	LEFT	Hip Flex-Ext #2						
31	LEFT	Knee Flex-Ext #1						
32	LEFT	Knee Flex-Ext #2						
33	LEFT	Ankle Plantar-Dorsi Flex						
34	LEFT	Ankle Inv-Eversion						
35	LEFT	Big Toe Flex-Ext						
36	LEFT	Little Toe Flex-Ext						
37	LEFT	Heel Flex-Ext						

