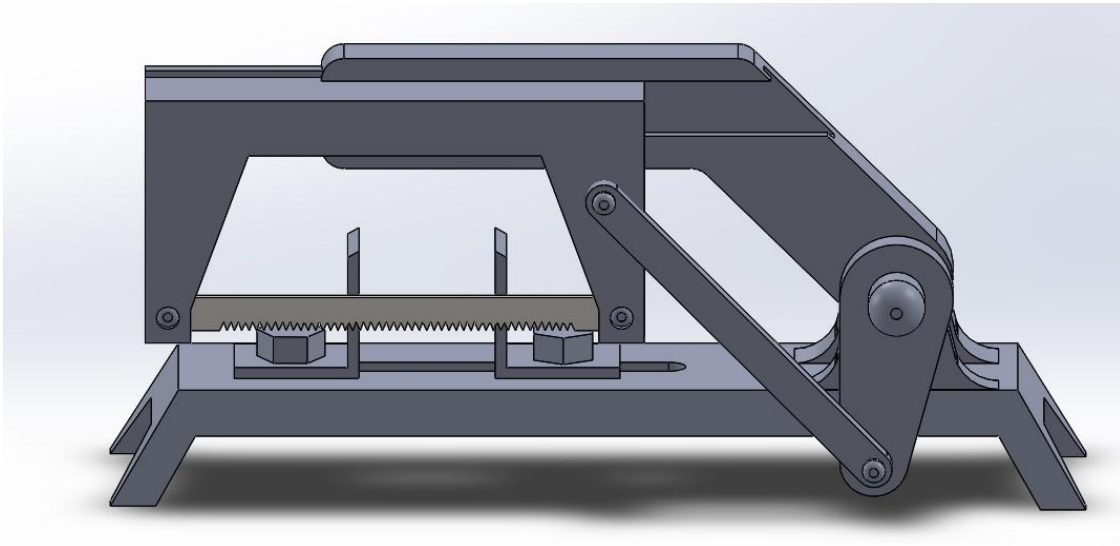


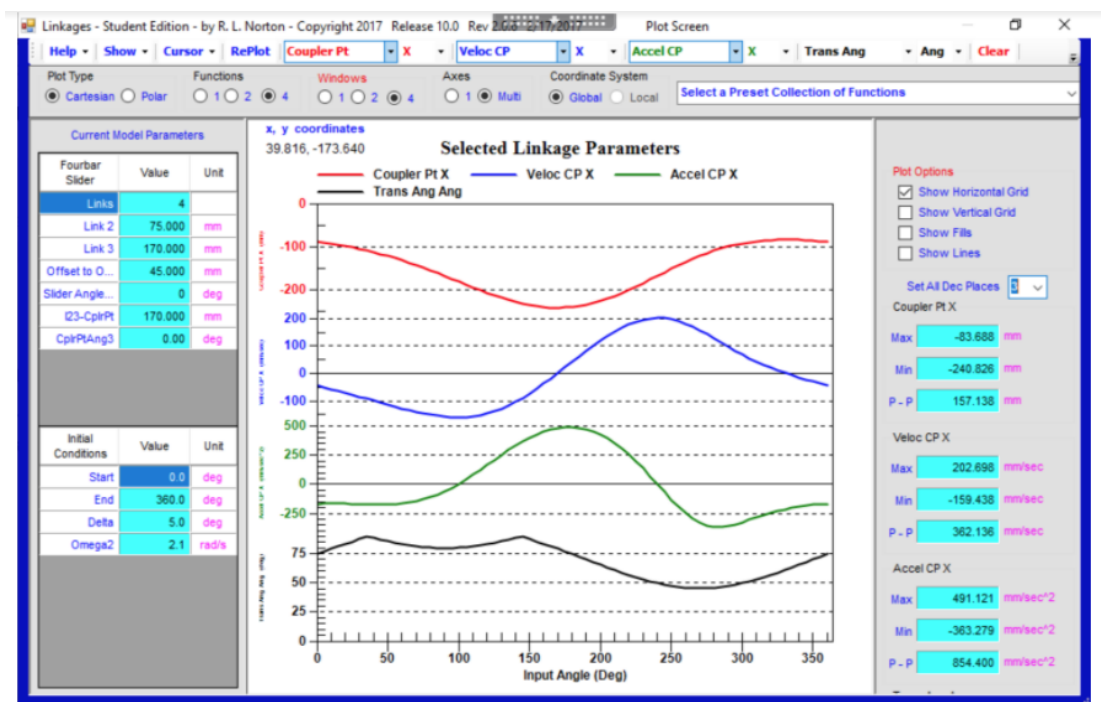
Power Saw

Created on SolidWorks with the given basic dimensions of each links length



Coupler Point Analysis

With the Coupler Point chosen to be the leftmost point on the saw blade, and left indicating a negative direction, while right indicating a positive direction. The Input angle of 0 corresponds to the crank handle horizontal and to the right.



Quick Return Mechanism

Interestingly, neither the velocity or the acceleration are symmetric when comparing the forwards saw motion and the backwards sawing motion. This means that this is a quick return mechanism, with the forward sawing motion taking more time compared to the backwards sawing motion.

