The grading rubric found on the course website applies to all ladder logic exercises in this and all homework/project assignments. The course instructor reserves the right to grade any or all problems (i.e. not all problems may be counted in the grade reported in the course gradesheet).


2. Using the PLC trainer, develop a program to implement the functionality of the Bell’s Machining 8000 Series Firewood Processor (with attached conveyor and tumbler). You should first view online videos of the functioning machine at [www.bellsmachining.com](http://www.bellsmachining.com). Begin your design by drawing a representation of the machine. This drawing must be turned in with the assignment and should be done using some computer program (i.e. PowerPoint or some other drawing/presentation software). Identify all components your ladder logic program must use and/or control. For example, the circular saw, saw motor, saw movement may be one component of the design to consider. If you need more inputs or outputs than the trainer provides, you may simulate the inputs and outputs using appropriate entries in the various PLC data files. For the purpose of this exercise, consider only the functional aspects of the machine in your design. Operator and/or machine safety need not be considered.

In addition to the program hardcopy and documentation required by the grading rubric, submit your PLC programs via email not later than class time on the due date. Name the files hw5-1.rsl and hw5-2.rss.