# Orange Auto Part Manufacturer (12)

The plant manager responsible for the OAPM would like to reduce the amount of forklift traffic in the congested aisles between inspection and shipping. The plant manager has also discovered that it would be possible to pass a conveyor through a wall and significantly shorten the travel distance between inspection and shipping. The plant manager would like *to test the replacement of the batch transporter with a conveyor* in order to eliminate the movement of the parts by forklift.

An *accumulating conveyor* will be placed between inspection and shipping. Since the batch transporter will no longer be used, parts will no longer need to be batched before moving to shipping. Once inspected, each part is placed on the conveyor. Each part is 10 ft in length with the conveyor being 60 ft long. The conveyor operates at a rate of 10 ft/min.

Parts are removed from the conveyor after reaching the shipping station by a Picker. The picker unloads the part from the conveyor, which takes TRIA(1.0, 1.5, 2.0) minutes for each part.

Run the model for five 8-hour days. The base time units should be minutes.  
Examine the effect of modeling the conveyors explicitly on cycle time and part throughput. Also examine conveyor statistics.