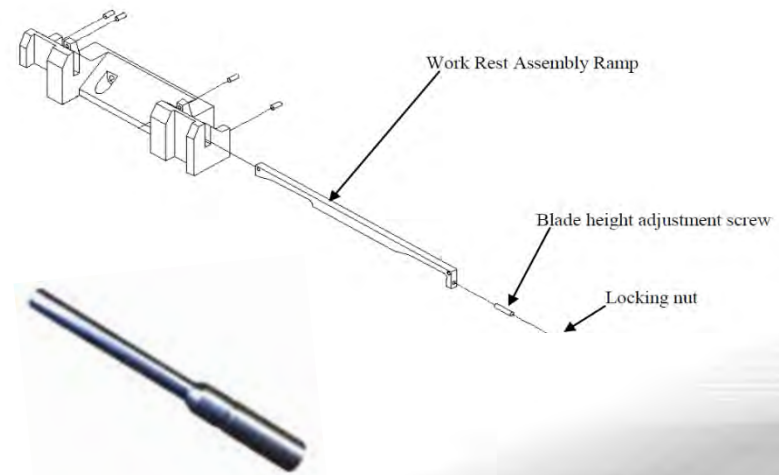
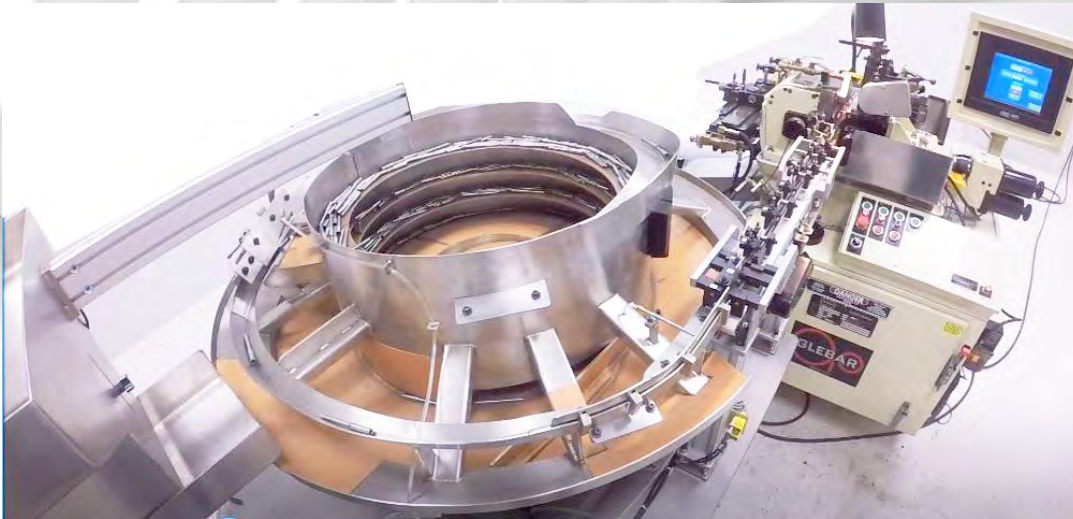


# Food Filler Spout (GT-610)

# GLEBAR CASE STUDIES

**// Challenge:** A food equipment manufacturer approached Glebar to improve productivity and reduce costs for their food filler machines. The material removal requirement is  $.438/.439''$ . Eight different components needed to be ground, all approximately four-inches in length, however varied in diameters and weights. The variation of part geometries posed the biggest feeding challenge. Rapid changeover of grinding wheels was important to reduce setup time between the components.



**// Solution:** The material removal requirements were met with a cycle time of approximately 10 parts per minute while holding a total  $.0004''$  diameter tolerance. The automated **GT-610 Centerless Grinding System** was configured with a large 30" bowl feeder to accommodate the long tubes and various part geometries the spouts must be fed in major diameter first, to avoid toppling. A variable vibratory driver, connected to the feeder plate components, controls the travel speed of the parts as they index up as a single layer onto the feeder discharge where they are transferred onto a conveyor vibratory inline system taking them through the grinding wheel. Setting up different diameter parts is facilitated by our unique blade ramp assembly. Blade height is easily adjusted by turning a set screw. Competing methods rely on shimming which is less accurate, slower – unable to provide the same roundness. The width of the 8 5/8" GT-610's grinding wheel was ideal for the parts' geometry, allowing for spreading the material removal over longer distances providing a more efficient grind with better surface finish.



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