

# Compact by Design

## Plastic Blender Feeders Industrial Hopper Automation Application

### Application Challenge

A manufacture of Weigh Scale Blenders needed to eliminate over coloring and reduce the consumption of costly additives. The equipment needed to be self-calibrating during the process.

### Project Solution

A Comp-Act OEM series rotary actuator with a special shaft replaced linear style cylinders for a rotating/mixing motion which created a blend that was repeatable. It was used on the end feed of injection molding for plastic building of toys for children. It ensured a proper blend of plastic pellets with the correct color.

### Customer Benefit

The accuracy of desired percentages of color, additive, and regrind was reached. The microprocessor controller automatically adjusts material and dispenses so that blend accuracy over time stays within 0.1%. It improved the operation and produced faster throughput of test subjects for the OEM.

