Small Parts Packaging Count System

Summary
A munitions manufacturer wanted to improve their finished goods product packaging, ensuring the correct count of bullets were being packaged into their bulk boxes. Prior to adopting a small parts counting control system from J.A. King they manually counted bullets into the boxes, and to verify the counts were correct they would have a second person verify those counts. This process was slow, labor intensive, and was also still prone to counting errors.

The delivered system uses a programmable indicator with a connected 10 count sample balance and a finished goods scale to automatically fill boxes. The 10 count sample balance transmits the 10 count weight to the indicator and automatically shuts off a fill conveyor when the count reaches a target. Associated with this is a stack tower light which turns from red to green when the correct count multiple has been reached for that product code. The outer case SKU is scanned with a tethered scanner to determine the correct sample count multiple is being used for that product code.

Benefit
Saving valuable time in the packaging process, the implementation of this system improves efficiency and reduces human error by utilizing weight measure rather than a visual count.

Engineering & Application Specifications
Material being handled: Small parts - bullets
Part weight range: 1 to 48 grams
Scale Resolution: 820g x .01g.