

CATALOG  
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# EMI<sup>®</sup>

CONVEYORS &  
AUTOMATION SYSTEMS



## Weigh Scale Box Filling

A Weigh Scale Box Filling Conveyor System is the most precise method to bulk pack small parts into shipping or storage containers. This automated system, sized to meet your container and floor space requirements, includes selected EMI under-press and beside-press conveyors, one with a weigh scale and photo-eye, plus a customized control system.

Automatic Box Filling Systems reduce labor costs by minimizing both the amount of time and number of people required to handle bulk-packed, molded parts.

A basic EMI Weigh Scale control system, like the ones shown on this page, typically allows one operator to handle the production from eight to ten machines. Large, multi-level systems can provide even greater savings.

### Typical In-Line Configurations:



*How-to Video:  
Programming a Weigh Scale*

### EMI's Weigh Scale Controls

The NEMA 1 enclosure includes a weigh scale push button control and display for the platform. A cleat-sensing limit switch, mounted on the empty box holding conveyor, ensures positive container movement. A photo-eye assures correct positioning. Also included: on/off switch, manual reset button, programmable control and interfacing relay. A recommended option is the "no empty box" alarm, with Alarm Condition indicator.

### Common Options:

- "No Empty Box Alarm" and "Alarm Condition" Indicator signals no container in next fill station
- Weigh scale, two-speed cut-off for multi-cavity molds
- Variable-speed drive and two weigh set points provide a "creep" speed near fill weight to trickle in parts until shut off at fill weight
- Floating beam load cell
- "Full Box" alarm signals there is no more room on the conveyor for filled boxes
- Strobe lights for full box & empty box alarms
- Under the press indexing
- Inspection cycle (includes under press indexing)
- Process control tie-in
- Alternate voltages available



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### Automating for Productivity

Weigh Scale automation systems can be designed to specifically meet a wide range of application needs. The systems shown on this page were custom engineered to provide excellent labor saving benefits. EMI will engineer a system to meet your specific needs.



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