

# Thompson Scale Company

WEIGHING SYSTEMS & PACKAGING MACHINERY CONTROLS

## Combination Checkweigher Reject Station

For Bags, Boxes, & Totes

The Model 4693 Combination Checkweigher is both an in-motion checkweigher *and* a side-push reject station all in one 4' conveyor.

Thompson Scale's unique programming approach allows the 4693 checkweigher controller to detect and weigh each product quickly and accurately as it enters the weigh station conveyor. Product that falls out of spec is instantly detected as the leading edge of the product blocks the Early Weight Terminate photo-eye located near the discharge end of the weigh station conveyor. The fast-acting reject output energizes the side-push reject, pushing the product off the conveyor before it begins to exit the weigh station.

Our innovative mechanical design utilizes a rodless air cylinder suspended above the weigh station conveyor. A rugged 10 ga. pusher plate attached to the air cylinder positively grips the off-spec product, pushing it to a gravity or powered accumulation conveyor, or to the customer supplied bin or chute. Although performance is important, safety is always a high priority. A safety tunnel is provided 3' feet on both the in-feed and discharge end of the reject and at the discharge point of the reject. This protects personnel from inadvertent contact with the powerful reject pusher plate.



The Combination Checkweigher is designed for applications with product weights up to 100 lbs., and production rates as high as 8 units per minute and an average duty cycle of approximately 2 to 3 reject units per minute. An optional retracting pusher plate design eliminates the need for fast cycle times by moving the pusher plate up and out of the way of the next product as the pusher retracts. This special feature increases maximum production rates to nearly 19 units per minute.