

# Hardy Dynamic Checkweigher Series

## High Speed Checkweighing

### PROCESS WEIGHING Applications

- **Dynamic Check Weighing**
- **Static Check Weighing**



### Features

#### THE HARDY PROCESS TOOLBOX

The Hardy Process Toolbox is a set of productivity tools that delivers value across process weighing functions. Each tool saves time, increases accuracy, improves efficiency or reduces risk in your process weighing applications.



**Electronic calibration without test weights**



**Vibration immunity from mechanical noise**

**WAVERSAVER®**

**Easy to configure and setup with a Rockwell Automation PLC**

**Rockwell EDS\_Add-on-Profile**

*Hardy's Dynamic Series of checkweighing machinery is built using off-the shelf components, with controls based on a Rockwell Automation's Logix platform, providing a standardized open source architecture that is flexible enough to meet both current and future control needs.*

*Weight processing is managed by Hardy's HI 4050CW weight controller. Sampling weight data at 4,800 times per second, the HI4050CW is capable of providing enough weighments to accurately categorize packages weighing from 5g to 225kg at speeds up to 350 packs per minute.*

#### OPEN ARCHITECTURE

Hardy Dynamic checkweighers are built using a Rockwell CompactLogix® platform running RSLogix® making them the easiest to integrate, upgrade and modify. The GUI uses FactoryTak View software, giving the user the ability to share and modify information presented on the machine's HMI to the larger Connect Enterprise®. Extra onboard I/O and the ability to expand the rack provide a future-proof control platform that is ready to accommodate additional upstream and downstream closed-loop controls, as well as peripherals such as metal detection and x-rays.

#### MOTORIZED DRIVE ROLLERS

Gearing and motor are integrated into the roller. Extremely efficient with no exposed moving parts, motorized drive rollers are available in a variety of speed and torque ratings so they can be tailored to the specific requirements of your application. Available

in stainless steel the series is rated for IP66 wash-down environments. Smart drives eliminate the possibility of over-torque or binding that could cause motor or belt damage, creating a safer and higher reliability conveying system.

#### QUICK CHANGES

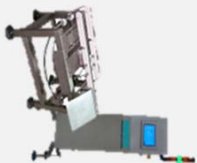



Belts can be removed, inspected, replaced and cleaned without the use of tools. A simple cam-lock secures belts in position and at the correct tension – making change-overs fast and easy.

#### SOLID CONSTRUCTION

The Dynamic C, S and L series are built using welded Stainless Steel tube construction, created a very ridged and long lasting frame that will withstand even the most abusive environments. Built to handle virtually every product in any environment, only simple modifications are required to change bed widths and lengths. The Dynamic L series is designed for very heavy packages is constructed of steel channel.

#### EASE OF SETUP & CALIBRATION

Intuitive menus presented on a large Allen Bradley PanelView Plus® HMI provide a comfortable environment for setting up product recipes, tuning the machine for optimum performance and setting up the scale system. Use Hardy's exclusive C2® for automatic scale calibration. Use the Internal Trigger mode and eliminate the need for a photo-eye.

				
<b>MODEL TYPE</b>	Dynamic C Series Chain Conveyor	Dynamic S Series Belt Conveyor	Dynamic I Series Belt Conveyor	Dynamic L Series Belt Conveyor
<b>CAPACITY</b>	0.01 – 22 lbs (5g – 10 kg)	0.02 – 22 lbs (9g – 10 kg)	1-50 lbs (0.5-22.7 kg)	1-200 lbs / 50-500 lbs (0.5 kg - 90 kg) / (23 kg - 225 kg)
<b>ACCURACIES (MAX)</b>	±0.5 g @ 2 Sigma ±0.1% @ 2 Sigma (Product Dependent)	±1 g @ 2 Sigma ±0.1% @ 2 Sigma (Product Dependent)	25 g @ 2 Sigma	±0.05 lbs @ 2 Sigma
<b>PRODUCTION RATE</b>	Max 350 units/minute	Max 200 units/minute	Max 60 units/minute	Max 50 units/minute
<b>Maximum Speed</b>	Varies with product type	Varies with product type	200 feet/minute	220 feet/minute
<b>PACKAGE TYPE</b>	Rigid Products -Bottles -Pails -Cartons -Cans	Flexible and Ridged Products -Boxes -Bags -Pouches -Trays -Direct foods -Meats -Cheese -Loafs	Flexible and Ridged Products -Cartons -Pails -Drums -Boxes -Bulk bags	Flexible and Ridged Products -Cartons -Pails -Keys -Drums -Boxes
<b>CONSTRUCTION</b>	Stainless Steel Tube Frame USDA/FDA Multistrand Nylonon® Flat-Top Chain Weighbridge Length: Min 28", Max 48" Weighbridge Width: Min 1", Max 14" TEFC or Food-Grade & Wash-Down VDC Drive	Stainless Steel Tube Frame USDA/FDA continuous belt Weighbridge Length: Min 12", Max 18" Weighbridge Width: Min 6", Max 14" IP65 Stainless Brushless Motor or IP54 Zinc Plated Brushless Motor	Formed Stainless Frame USDA/FDA continuous belt Weighbridge Length: Min 24", Max 36" Weighbridge Width: Min 10", Max 36" IP65 Stainless Brushless Motor or IP54 Zinc Plated Brushless Motor	Structural Channel Frame USDA/FDA continuous belt Weighbridge Length: Min 24", Max 36" Weighbridge Width: Min 10", Max 36" IP65 Stainless Brushless Motor or IP54 Zinc Plated Brushless Motor
<b>APPLICATIONS</b>	Small Parts Mfg., Pharmaceutical and packaged consumer goods, food industry	Food industry, packaged or raw products, FFS liquid or dry products.	Food & Related Industries, light manufacturing, bakery, Specialty chemical and consumer goods	Industrial & institutional bagged product; 10-100 lbs bags of Concrete, Grain, and various Chemicals
<b>AVAILABLE OPTIONS</b>	3 or 5 Zone Stack light Air or mechanical rejector Rejector conveyor Corrosion/Haz area options Closed-loop feedback Metal and X-Ray Detectors	3 or 5 Zone Stack light Air or mechanical rejector Rejector conveyor Corrosion/Haz area options Closed-loop feedback Metal and X-Ray Detectors	3 or 5 Zone Stack light Mechanical rejector Rejector conveyor Corrosion/Haz area options Closed-loop feedback Metal and X-Ray Detectors	3 or 5 Zone Stack light Mechanical rejector Rejector conveyor Corrosion/Haz area options Closed-loop feedback Metal and X-Ray Detectors