Hardy 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 I series are built using welded Stainless Steel tube construction, creating a very rigid 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 and is constructed of steel channel. The Dynamic CIP series is designed for Clean in Place applications with an advanced hygienic design.

**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.
<table>
<thead>
<tr>
<th>Model</th>
<th>Dynamic C Series</th>
<th>Dynamic S Series</th>
<th>Dynamic CIP Advanced Hygienic Series</th>
<th>Dynamic L Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Drag Chain Conveyor</td>
<td>Belt Conveyor</td>
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</tr>
<tr>
<td>Scale Capacities</td>
<td>Up to 50 Lbs. (25 Kg)</td>
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</tr>
<tr>
<td>Available builds:</td>
<td>High Precision Single Point Load Cell w/C2®</td>
<td>High Precision Single Point Load Cell w/C2®</td>
<td>High Precision Brick Single Point Load Cell w/C2®</td>
<td>Four (4) Load Cell Array with C2® and IT®</td>
</tr>
<tr>
<td>• HISPB1-10: 10 Lbs. x 0.01 Lb. (5,000g x 0.5g)</td>
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<td>• HISPB1-50: 50 Lbs. x 0.01 Lb. (25,000g x 5g)</td>
<td>• HIMB01-22: 50 Lbs. x 0.01 Lb. (25 Kg x 5g)</td>
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</tr>
<tr>
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<td>• HISPB1-50: 50 Lbs. x 0.01 Lb. (25,000g x 5g)</td>
<td>• HIMB01-44: 100 Lbs. x 0.02 Lb. (50 Kg x 10g)</td>
<td></td>
</tr>
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<td>• HISPB1-50: 50 Lbs. x 0.02 Lb. (25,000g x 5g)</td>
<td>• HIMB01-110: 200 Lbs. x 0.01 Lb. (100 Kg x 50g)</td>
<td></td>
</tr>
<tr>
<td>• HISPB1-100: 100 Lbs. x 0.02 Lb. (50,000g x 10g)</td>
<td>• HISPB1-100: 100 Lbs. x 0.02 Lb. (50,000g x 10g)</td>
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Available builds:

- High Precision Single Point Load Cell w/C2®
- HISPB1-10: 10 Lbs. x 0.01 Lb. (5,000g x 0.5g)
- HISPB1-20: 20 Lbs. x 0.02 Lb. (10,000g x 1g)
- HISPB1-50: 50 Lbs. x 0.02 Lb. (25,000g x 5g)
- HISPB1-100: 100 Lbs. x 0.02 Lb. (50,000g x 10g)

**Accuracies (Max):**

- HISPB1-10: ± 0.002 Lb. (1g) @ 2 Sigma
- HISPB1-20: ± 0.004 Lb. (2g) @ 2 Sigma
- HISPB1-50: ± 0.008 Lb. (4g) @ 2 Sigma
- HISPB1-100: ± 0.016 Lb. (8g) @ 2 Sigma

**Product Tolerance:** ± 0.1% @ 2 Sigma (Product Dependent)

**Drive Rotors:**

- 1.9" Diameter, 24 VDC Motor (IP65)
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**Scale Length (Min – Max):**

- 1.2", 14", 16", 24" (300mm, 350mm, 400mm, 600mm) Long
- 12", 14", 16", 24" (300mm, 350mm, 400mm, 600mm) Long
- 12", 14", 16", 24" (300mm, 350mm, 400mm, 600mm) Long
- 24", 36" (600mm - 900mm) Long
- 36" (900mm) - unlimited Long

**Scale Width (Min – Max):**

- 12", 14", 16", 18" x 300mm, 350mm, 400mm, 450mm Wide
- 12", 14", 16", 18" x 300mm, 350mm, 400mm, 450mm Wide
- 12", 14", 16", 18" x 300mm, 350mm, 400mm, 450mm Wide
- 12", 14", 16", 18" x 300mm, 350mm, 400mm, 450mm Wide
- 12", 14", 16", 18" x 300mm, 350mm, 400mm, 450mm Wide

**Recommended Product Lengths:**

- Approx 2" to 14" (50mm - 350mm)
- ±75% of Scale Bed length:

- 12", 14", 16", 18", 30" (300mm, 350mm, 400mm, 600mm, 900mm)
- 12", 14", 16", 18", 24" (300mm, 350mm, 400mm, 600mm, 900mm)
- 12", 14", 16", 18", 24" (300mm, 350mm, 400mm, 600mm, 900mm)
- 24", 36" (600mm - 900mm)
- 36" (900mm) - unlimited Long

**Rates & speeds set by application:**

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<td>Rates &amp; speeds set by application</td>
<td>300 FPM Max - Product Weight &amp; Pitch dependent</td>
<td>300 FPM</td>
<td>300 FPM</td>
<td>220 FPM</td>
</tr>
</tbody>
</table>

**Production Rate:**

| Max 350 units/min | Max 300 units/min | Max 150 units/min | Max 110 units/min |

**Package Types:**

- Rigids
- Bottles
- Pails
- Carbons
- Cans
- Flexible and Rigid Products
- Bags
- Pouches
- Trays
- Oiled foods
- Nets
- Cheese
- Loof

**Construction:**

- Stainless Steel Tube Frame USDA/ADA Multi-Tube and Nylatron® Flat-Top Chain
- TEFC or Food-Grade & Wash-Down VDC Drive
- Stainless Steel Tube Frame USDA/ADA continuous belt
- IP56 Stainless Brushless Motor
- IP54 Zinc Plated Brushless Motor

**Applications:**

- Small Parts, Powders, Pharmaceutical and Packaged consumer goods, food industry
- Food industry, packaged or raw products, FFS liquid or dry products
- Food industry, packaged or raw products, FFS liquid or dry products
- Food & Related Industries, light manufacturing, bakery, specialty chemical and consumer goods

**Available Options:**

- 3 or 5 Zone Stack light
- Air or mechanical rejecter
- Rejector conveyor
- Corrosion/Hazardous area options
- Closed-loop feedback
- 3 or 5 Zone Stack light
- Air or mechanical rejecter
- Rejector conveyor
- Corrosion/Hazardous area options
- Closed-loop feedback

**High Precision Brick Single Point Load Cell w/C2®**

- HISPB1-50: 50 Lbs. x 0.01 Lb. (25,000g x 5g)
- HISPB1-50: 50 Lbs. x 0.01 Lb. (25,000g x 5g)
- HISPB1-50: 50 Lbs. x 0.01 Lb. (25,000g x 5g)
- HISPB1-100: 100 Lbs. x 0.02 Lb. (50,000g x 10g)