

## Weighing Solutions for **Process & Packaging**



Inventory Control



Batching & Blending



Dispensing & Filling



Product Inspection



**Technology Partner**

A ROCKWELL AUTOMATION PARTNER



STOCK



MAKE



PACK



SHIP

Easiest to Use | Highest Performance | Lowest Total Cost

# Your Weighing Partner for Process & Packaging

With more than 100 years of weighing experience, Hardy understands the challenges manufacturers face. Our customers tell us they must:

- Increase productivity or throughput while reducing costs
- Sustain or improve product quality
- Respond faster to customers' needs
- Comply with an ever increasing set of regulations

Hardy has developed a variety of industrial weighing solutions that either meet or exceed each of the above challenges, driving Overall Equipment Effectiveness up, no matter where those solutions are located in the manufacturing process. At the same time, we help our customers take on their challenges at the LEAST TOTAL COST. Our solutions deliver reductions in waste, while enhancing quality, safety and productivity. They do this by increasing yield and reducing downtime by as much as 51%, compared to other industrial weighing solutions.

Hardy products meet industry standards and are EASY to integrate. At the same time, they consistently, cost-effectively, and safely help produce high-quality products. Hardy has weighing solutions to assist you in complying with regulations, while increasing consumer satisfaction.

Hardy lowers the total cost to OWN, DESIGN and INTEGRATE almost any weighing application. Here's how!



Manufacturers

## Own & Operate

### Less WASTE, less RISK, more PRODUCTIVITY

- Simplify use and training with easy to use operator/maintenance interfaces.
- Increase measurement stability/resolution to reduce cycle times and increase throughput.
- Replace expensive, risky, time consuming traditional calibrations with fast, easy, safe, accurate electronic calibrations.
- Decrease scale downtime with operator and internet enabled tools to trouble shoot and diagnose your scales.



OEMs

## Design, Develop & Deliver

### Less TIME to engineer, EASIER to implement, VERY scalable

- Choose from a variety of instruments, PLC plug-in modules and sensors, scalable to the economy of your machines.
- Use an open-architecture that delivers complete freedom of design and optimizable footprint.
- Deploy weight processors or weight controllers with in-built material feeds by weight, rate, or check weighing.
- Take advantage of validated integration tools, easy configuration and FREE phone support from experts in process weighing.



System Integrators

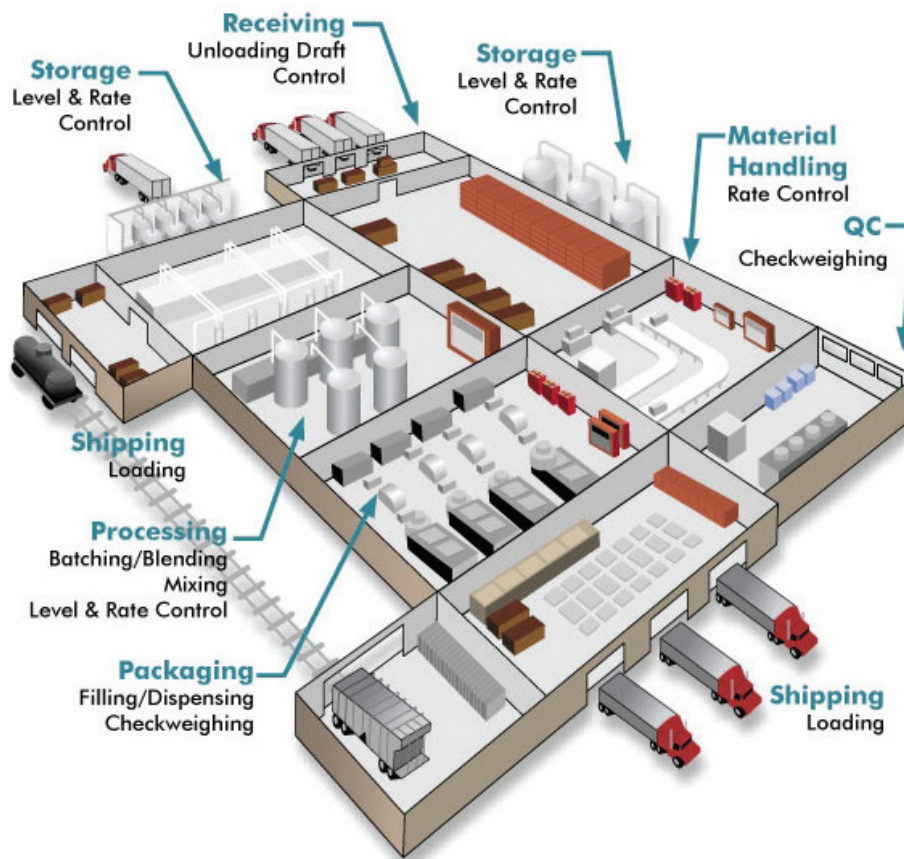
## Integrate

### Less TIME to integrate & configure. EASIER to connect. VERY scalable.

- Choose from a range of scalable, intelligent Allen-Bradley modules and load cells that plug into the PLC backplane.
- Select from a wide range of field instruments, load cells and wired fieldbus communications.
- Use Rockwell validated integration tools- AOPs (Add-On-Profiles), EDS\_AOPs or AOIs to make setup and configuration easy.
- Deploy our Faceplates, reuse and repurpose your PLC code.

# Measure | Monitor | Control | Inspect

In almost every industry, raw materials and finished product need to be weighed multiple times in the manufacturing process. Hardy has the expertise and innovative solutions to assist your team in reducing cost and increasing yield, while limiting downtime and achieving Overall Equipment Effectiveness. Hardy excels in weighing solutions for processing and packaging.



## Industries

- Food/beverage
- Consumer Packaged Goods
- Chemical/petrochemical
- Life Sciences/Pharmaceutical
- Agriculture
- Feed and grain
- Water/wastewater
- Power
- Mining and metals
- Pulp and paper
- General automation

## Applications

- Filling/dispensing
- Batching/blending
- Product Inspection & Check Weighing
- Bulk bag/IBC
- Throughput Weighers
- Rate control
- Rate of Change
- Setpoint control
- Inventory/Level measurement
- Tank farm monitoring

## Networks

- EtherNet/IP
- PROFINET
- Profibus-DP
- Modbus RTU
- Modbus TCP
- Analog
- Serial
- Ethernet
- DeviceNet

## Supporting Your Business In Every Stage of the Process

Quality, Safety, Solutions, Savings



### Stock

#### Inventory Management Solutions

In stage one of the manufacturing process, you must have reliable visibility to, and an accurate count of, all raw materials in your manufacturing supply chain. This is the first step to ensure your process runs smoothly. Hardy's inventory weighing solutions deliver both at the least total cost to own, safely operate and maintain.

#### Applications

- Vessel / Tank Weighing
- Inventory Control
- IBC Weighing
- Throughput Weighing



### Make

#### Batching & Blending

The second stage of the manufacturing process involves sequentially or simultaneously adding one or more ingredients into vessels by weight and/or rate, then discharging the batch (sum of all the ingredients) to a downstream process. Hardy's material feed solutions ensure the accuracy of the mix (batch or blend), delivering highly repeatable results and ensuring good quality control at the least total cost to own, safely operate and maintain.

#### Applications

- Sequential Batching by Gain in Weight
- Blending by Loss in Weight
- Simultaneous Batching by Loss in Weight
- Loss in Weight Feeder Control



### Pack

#### Filling, Dispensing, Dosing

Packing lines need precise filling solutions (for gross weight applications), and/or dispensing solutions (for net weight applications) to control the very fast feeds needed to sustain the throughputs required as finished product is packed into containers. Weighing provides the best accuracy for this task, and the most repeatable result. Hardy's filling solutions (gain-in-weight) and dispensing solutions (loss-in-weight) deliver the best material feed results, at the least total cost to own, safely operate and maintain.

#### Applications

- Packing by Gain/Loss in Weight
- Piece/Portion Weighing
- IBC Dispensing
- Floor & Drum Scales



### Ship

#### Product Inspection

The last step in the manufacturing process calls for filled containers to be reweighed to check proper filling, meet regulatory requirements, and ensure customer satisfaction. Hardy's checkweighing solutions static (manual or semi-automated weighments) or dynamic (automated in-motion weighments) can be used for a wide variety of applications including verifying package, weight, piece count, grading or sorting. Once again delivering fast product inspection solutions, at the least total cost to own, safely operate and maintain.

#### Applications

- Static Checkweighing
- Bench Scale
- Dynamic Checkweighing
- Floor & Drum Scales



# Tools to Increase Productivity



The Hardy Process Toolbox is a unique set of productivity tools that support industrial weighing functions. Each tool saves time, increases accuracy, improves efficiency or reduces risk in process weighing applications, while saving OEMs considerable development and systems integration time. Another key benefit is the ability to differentiate your product offering.

- ✓ **Accurate**
- ✓ **Stable**
- ✓ **Fast**
- ✓ **Flexible**
- ✓ **Easy**



## **C2® - Calibrate Without Weights**

The Hardy C2® Process Toolbox function provides quick and easy electronic calibration of a weighing system without the need for heavy test weights.



## **WAVERSAVER® - Stabilize Noisy Weight Readings**

Hardy's WAVERSAVER core technology eliminates the effects that surrounding vibration has on the scale weight signal, providing only true data for fast, accurate weight reading.



## **WAVERSAVER+ - Increase Scale Resolution**

Filters both external and internal noise under a static weight condition to go beyond the 1 in 10,000 limitation, providing repeatable weighing results the first time and every time.



## **INTEGRATED TECHNICIAN® - Diagnostic Tools for Operators**

Hardy's INTEGRATED TECHNICIAN (IT) core feature helps you troubleshoot your weighing system and diagnose problems from the front of the instrument or via the PLC.



## **Embedded Web Server - Connect from Anywhere**

Access your instrument from any computer browser. Use the embedded web server to set up all parameters from anywhere on the Ethernet network



## **Secure Memory Module - Safe Configuration Backups**

Hardy's Secure Memory Module (SMM) uses a standard SD card or USB stick to automatically back up critical weighing system data, and allowing you to transfer it to another like controller in a few minutes. You can also use the card to easily back up your controller data onto a PC.



## **FEED-MASTER - Mitigate Feed Disturbances**

Hardy's proprietary FEED-MASTER predictive/adaptive algorithm adapts for the flow variation in real time during every feed.



## **CHECK-MASTER - Weigh Stationary or In-Motion Items or Finished Product**

Hardy's CHECK MASTER is a set of software tools that support check weighing functions and are part of every Hardy Check Weighing solution. A fully automated Check Weighing system is designed to weigh static items or automatically weigh in-motion items. The check weight controller then directs downstream diverter gates to route product based on weight.

## INTEGRATED SOLUTIONS



### Hardy Caseweigher

- Open Source
- Off-the-shelf components
- Seamless Integration
- Easy to maintain and upgrade
- Uses Rockwell Automaton Studio 5000 software and Allen-Bradley hardware
- Includes complete diagnostics and statistical analysis packages
- Seamlessly integrates equipment, data, control and analytics
- Includes Waversaver, Waversaver+, C2, IT, EDS-AOP (Add-on Profile).

### Swivel Mount Enclosure

- Made in the USA using 16-gauge Stainless Steel
- Rated for IP66/NEMA 4 environmental conditions
- Delivered with a Hardy HI6500/6510-WS or -XP Weight Processor
- Large, high-contrast LCD display
- LCD protected from impact by a polycarbonate window behind a water-tight membrane
- Couple with a bench or floor scale for a complete weighing system
- Includes Waversaver, C2, IT, EDS-AOP, Faceplates/AOI (Depends on Configuration)

### Panel Mount Wall System (PMWS)

- Designed for use in hazardous Class I, II, III/ DIV 2 applications
- Factory assembled in a stainless steel (NEMA 4X) enclosure with an IP66 rated display panel
- Available for HI6800 Series, HI6501, HI6500 Series, and 4000 series.
- Built in summing card to eliminate the need for a separate junction box. Just hang it on the wall, connect your load cells and you are ready to calibrate
- Includes C2, IT, Waversaver, Faceplates and EDS\_ AOPs

### Hardy E-Scale™ IIoT Ready Scale Base

- Hardy E-Scale™ Bench scale series is the world's first IIoT ready scale base
- Includes an integrated Hardy HI 6610 or HI 6500 weight processor for direct connection to either EtherNet/IP® or Profibus-DP® networks
- E-Scales eliminate possible failure points and saves the cost of extra splice-boxes and other components
- Includes C2, IT, EDS-AOP, Embedded Webserver, Waversaver

## WEIGH SCALE PLC MODULES



### Weigh Modules for CompactLogix™ or MicroLogix™ 1500

- HI 1769-WS single-scale and the HI 1769-2WS dual-scale weigh modules
- Reads weight and diagnostic data from strain gage load cells and communicate this data over the I/O chassis backplane to either the MicroLogix 1500 or the CompactLogix (with 1769 Compact I/O™) processor
- Includes Waversaver, IT, C2, AOP, Faceplates/AOIs

### Weigh Modules for ControlLogix®

- HI 1756-WS single-scale and the HI 1756-2WS dual-scale weigh modules
- Reads net, gross, tare and rate-of-change weight, and diagnostic data from strain gage load cells
- Communicates the results over the I/O chassis backplane to the ControlLogix processor
- Includes Waversaver, IT, C2, THE BUTTON, AOP

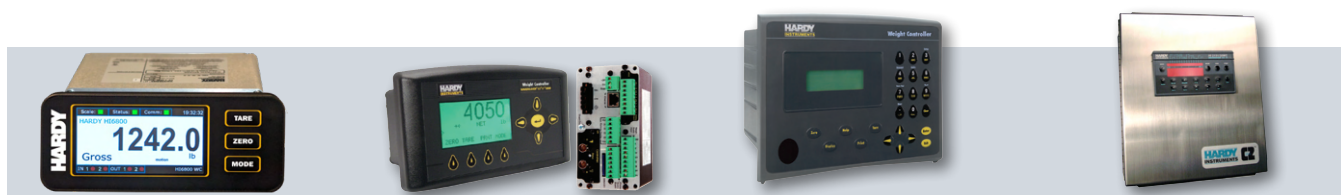
### Weigh Scale Modules for POINT I/O®

- Ultra-compact at just a 1/2" wide
- The HI 1734-WS module saves cabinet space over the use of dedicated instrumentation, reducing both machine cost and control cabinet footprint
- Fast to install and commission by snapping modules into terminal blocks onto a POINT I/O Network Adaptor. Then use an AOP file to set-up and configure in RSLogix or Studio5000
- Allows connectivity to EtherNet/IP, DeviceNet, and ControlNet in linear, star and ring topologies
- Includes Waversaver, C2, IT, AOP, Faceplates/AOI

### Weigh Module for Micro800™

- The EASY 8™ single-scale weigh module reads net, gross, tare, and rate-of-change weight, and diagnostic data from strain gage load cells
- Communicates results over the I/O chassis back-plane to the Allen-Bradley® Micro800 processor
- Includes 3-step Waversaver

# WEIGHT CONTROLLERS



## NEW! HI 6800 Weight Controller

- Dual-core processor
- Optional TFT touchscreen
- Update rate of 250 updates per second. Resolution of 1:30,000 full scale
- Mounting options: PMWS, DIN rail or wall mount
- Comes standard with EtherNet/IP, Modbus-TCP, and Ethernet
- Mapping Functions
- 2 Ethernet ports, a micro-SD card slot, USB-C port, 2 digital outputs, 2 digital inputs, and one analog scale input
- Optional rate-of-change application
- Includes C2, IT, SMM, Embedded Web Server

## HI 4050+ Weight Controller

- HI 4050+ is easily configured to meet specific applications
- Selectable update rate of 100 or 250 updates per second. Resolution of 1:30,000 full scale
- Mounting includes panel, remote, blind, DIN rail or wall mount
- Comes standard with Serial and Ethernet; optional Analog, EtherNet/IP, PROFINET, DeviceNet, Modbus-TCP, DIO and Profibus
- SMM card for transfer of configuration data; optional rate-of-change and digital I/O capability
- Includes C2, IT, SMM, Embedded Web Server

## HI 3030 Multi-Scale Controller

- HI 3030 controls up to four scales at one time
- Acts as a bridge to a PLC since one port works with all channels over optional DeviceNet, Analog, ControlNet, EtherNet/IP, Modbus TCP or Profibus
- Features standard Ethernet interface with an embedded web server
- Twelve set points with independent dead bands and pre-acts are assignable to four or seven optional on-board relays or external third party I/O
- Includes C2, IT, SMM, Embedded Web Server, Waversaver

## HI 2151/30WC Weight Controller

- Stand-alone unit
- The HI 2151/30WC multi-purpose weight controller can control as many as eight relays, based on either gross, net, rate-of-change, peak hold, or totalized weight values
- Can also act as a front end for a control system, transmitting weight values to PLCs or PCs
- Optional interfaces include Profibus and Analog
- Available in panel, wall or remote mount configurations
- Includes C2, IT, SMM, Waversaver

# APPLICATION-SPECIFIC WEIGHT MODULES



## Loss-In-Weight Modules for ControlLogix®

- HI 1756-FC weigh feeder control module is used in new applications or to retrofit volumetric feeders
- Mounts directly into your ControlLogix chassis and controls many standard feeding devices as well as your proprietary designs
- HI 1756-FC feeder control module will watch your process and notify you of problems
- Includes C2, IT, Add-On-Profile (AOP), Waversaver

## Loss-In-Weight Modules for CompactLogix™ or MicroLogix™ 1500

- HI 1769-FC weigh feeder control module is used in new applications or to retrofit volumetric feeders
- Mounts directly into your CompactLogix (with 1769 Compact I/O™) or MicroLogix chassis and controls many standard feeding devices, as well as your proprietary designs
- Includes C2, IT, AOP, Waversaver

## Dispenser/Filler Modules for ControlLogix®

- HI 1756-nDF Dispenser/Filler modules can be used in a variety of material-flow applications where speed, repeatability and accuracy are paramount to the process
- Mounts directly into your ControlLogix chassis and automates the entire process by monitoring, controlling, tuning and maintaining the dispense/fill operation
- Available in single or dual configurations
- Includes C2, IT, AOP, THE BUTTON

## HI 8000 Series IS Instruments

- High-performance weighing instruments designed to operate in all Classes, Divisions, and Groups\* in accordance with U.S. UL and ANSI, and Canadian standards
- Battery and AC power options
- Fibre optic serial data transfer
- HI 8100 for basic weight data
- HI 8200 for more advanced weighing applications and checkweighing

\* Class I, Division 1, Groups A, B, C and D, Class II, Division 1, Groups E, F and G, Class III

# APPLICATION-SPECIFIC CONTROLLERS



## NEW! HI 6850 Weight & Application Controller

- Dual-core processor
- Optional 7-in TFT touchscreen display
- Update rate of 250 on primary channel and 100 updates on 3 optional weight channels
- Resolution of 1:30,000
- Mounting options: DIN rail or wall mount
- Comes standard with EtherNet/IP, Modbus-TCP, Ethernet; PROFINET optional
- Advanced Mapping
- Up to 2 GPIO cards or Relay cards with 8 DC open ports; 2 Ethernet ports, a micro-SD card slot, USB-C port
- Options for 7 weighing applications
- Includes C2, IT, SMM, Waversaver, Waversaver+, Embedded Web Server

## HI 4060 Rate Controller

- Single-feeder, closed-loop rate controller is used with auger, belt and vibratory-based feeders to enable gravimetric control
- Controls and adjusts feeder speed based on loss-in-weight rate parameter settings
- Features true five-point automatic rate calibration, automatic feeder refill, various alarms, control relays, EtherNet TCP/IP, printer port, 4 analog outs, and remote setpoint inputs
- Optional DeviceNet, Profibus, Modbus TCP/IP, and Analog communications
- Includes C2, IT, Waversaver, Waversaver+, SMM, Embedded Web Server

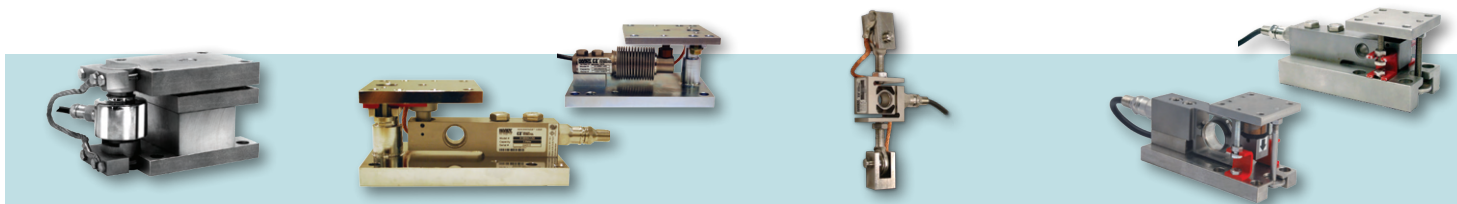
## HI 3010 Filler/Dispenser

- HI 3010 can act as a standalone controller, or as a distributed control device for your PC or PLC, to monitor and control filling, dispensing, or intermediate bulk container (IBC) applications
- Powers the scale, controls the speed, evaluates the weight, automatically refills and discharges the desired amount of product and notifies you of system conditions through its extensive networking
- Includes C2, SMM, Embedded Web Server, Waversaver

## HI 4050-CW Check Weighing Bundle

- The high-speed HI 4050CW check weighing system can process up to 250 high resolution (1:30:000) updates per second
- The 4050CW includes the HI 4050+ weight controller connected to either 3-4 analog load cells and a junction box or to a single load cell or scale
- Check-Master supports both static or dynamic checkweighing
- Compatible with external sensors such as photo eyes
- Includes C2, IT, Waversaver, Waversaver+, SMM, Embedded Web Server, EDS\_ AOP

# LOAD POINTS / LOAD CELLS



## ADVANTAGE® HI LPRC03

- For high capacity vessels, hopper dispensing, and batch weighing applications
- Comes in 16.5 Klb, 33Klb, 50Klb, 66Klb, 88Klb, 110Klb, 220Klb, 330Klb and 660Klb
- Rocker-type load sensor; Mounts come in stainless, plated or painted steel
- No dummy load cells are required
- NTEP Class III

## NEW! HI RCDM Dynamic Mounts!

- For HI RCH03 and HI RCH04 load sensors in 16.5 Klb, 33Klb, 50Klb, 66Klb and 88Klb
- Mounts come in stainless, plated or alloy steel

## OneMount®

- Built to save customers time and money during installation, calibration, and maintenance. Each load point provides extraordinary flexibility and durability in industrial environments
- Designed for checkweighing, vessel, hopper and tank weighing
- No dummy load cells are required
- 360° checking mechanism permits installation in any direction
- Self-checking mechanism withstands considerable shear forces and provides lift-off protection
- NTEP Class III
- Precision beam sensor from 22 to 550 lbs and Shear Beam sensor from 1.125Klb to 22.5Klb
- NEW! 7.5Klb sensor that uses an 11.5Klb mount

## ADVANTAGE® HI HLPT

- Designed for tension applications, such as small hopper, tank weighing hybrid systems with levers, and belt weighers
- Available in 225lb, 450lb, 1.125 Klb, 2.25Klb, 4.5Klb and 11.25Klb capacities
- Mounts available in stainless or plated steel for capacities to 4.5 Klb, and plated steel in higher capacities

## ADVANTAGE® HI HLPS & HI LPB

- LPB Designed for light to medium capacity available in 44lb, 110lb, 225lb, and 450lb capacities
- HLPS: For medium to high capacity comes in 1.125Klb, 2.25Klb, 4.5Klb, 11.25Klb, and 22.5Klb capacities
- Mounting hardware available in either stainless or zinc plated steel
- HLPS Only: NTEP Class III



# WEIGHT PROCESSORS



## HI 6600 Series Modular Sensor System

- HI 6600 series is a modular system of weight processors that deliver up to 30 channels of fast, stable, high-resolution weight readings over a single Ethernet connection
- Protocols supported include Ethernet/IP, Ethernet TCP/IP, Modbus RTU, Modbus TCP or Profibus-DP
- Rockwell EDS\_AOP simplifies integration using RSLogix or Studio 5000
- Includes C2, IT, Waversaver, SMM, EDS\_AOP

## HI 6500 Series

- HI 6500 series of EtherNet/IP enabled weight processors featuring a Rockwell EDS\_AOP and Faceplate/AOIs compatible with RSLogix
- Alternate Protocols include: Profibus-DP, Modbus, & Ethernet TCP/IP
- The HI 6510 adds Analog communications
- Features a big, bright multichannel display
- Delivers fast, high-resolution weight readings
- Used as front ends to control systems or operate standalone. Includes C2, IT, Waversaver, SMM, EDS\_AOP, Faceplate/AOIs

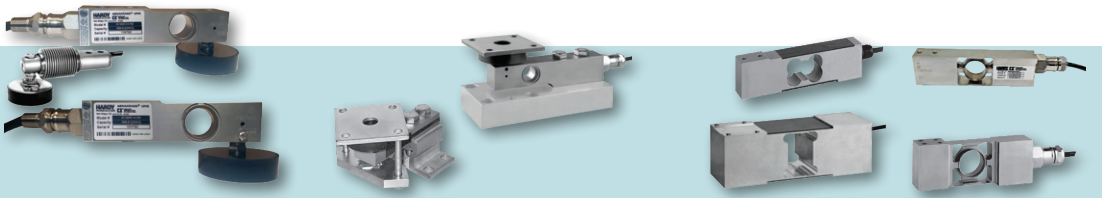
## HI 6500-XP Extreme Processor

- The HI 6500-XP is 6X the speed and 3X the resolution of the HI 6500
- It comes standard with either EtherNet/IP or Profibus-DP with Modbus & Ethernet TCP/IP included
- The HI 6510-XP adds Analog communications
- The series provides extremely fast, accurate, stable and repeatable weight for demanding, high-speed applications
- Reads, conditions, and digitizes load cell and strain gauge signals in process weighing or packaging applications
- Includes C2, IT, Waversaver, SMM, EDS\_AOP, Faceplate/AOIs

## HI 6200 Single Channel Processors for OEMs

- High performance, single-channel processors with industrial Fieldbus communications, IIoT compatibility & remote diagnostics
- Ultra-compact at just 2 in. wide by 3 in. high (40 sq. cm)
- User friendly, color touch screen interface
- Reads, conditions, and digitizes weight signals for process weighing or packaging applications
- For high-density panel design, reducing both machine cost and control cabinet footprint
- Includes C2, IT, Waversaver, EDS\_AOP, Faceplate/AOIs

## / LOAD SENSORS



### Footed Load Cells

- Perfect combination of advanced features and economy for OEMs and System Integrators
- Industry Standard Load Cell Form factors allow for easy upgrade of existing systems to utilize C2® Calibration
- IP68 or IP68/IP69K protection
- Height Adjustable Rubber Feet
- 2.25k / 4.5k / 11.25k / 22.5k Klbs
- Stainless Steel, Electropolished Stainless Steel or Alloy Steel

### ADVANTAGE® Lite Family

- Featuring C2® and IP67 ratings, these compression type, load points offer performance and exceptional value
- HI MSBRE mount works with HI SB05 or ADVANTAGE HI SBH04 sensors. Available in 1.125Klb, 2.25Klb, 4.5Klb, 11.25Klb, and 22.5Klb capacities
- HI LPRE features lift-off protection stray voltage isolation, & minor misalignment correction
- Available in 440lb, 1.1Klb, 2.2Klb and 4.4Klb capacities

### Single-Point HI SP Series

Designed for OEMs and Bench scales, these load cells are all Stainless Steel, direct bolting, with C2® calibration

- Available in capacities ranging from 7.5Kg to 200Kg
- HI SP7 is polished 17-4PH stainless steel with complete hermetic sealing
- HI SPB1 is a polished stainless steel brick type with IP68/69K sealing
- NEW! HI SP4 stainless steel IP68/IP69K with top and front mounting holes for a wide range of multihead fillers
- HI SP1 meets IP65/IP67 and the HI SP6 meets IP68, they feature low sensitivity to off-center loads.

### ALUMINUM SINGLE-POINT

Hardy also offers a family of aluminum single point load cells:

- HI SPA22: IP67 rated, 11 to 88lb
- HI SPA42: IP67 rated, 11 to 440lb
- HI SPA60: IP67 rated, 66 to 1.65Klb
- HI SPAL03 and HI SPL: 600 g to 3 Kg

Available for compression or tension applications, and in capacities ranging from 44 lbs to 660,000 lbs, Hardy Process Solutions' ADVANTAGE® load points and sensors are designed with a keen attention to detail that translates into optimum performance. Stainless steel ADVANTAGE load sensors feature a NPT conduit adapter, true hermetic sealing to IP68/IP69K for superior protection from moisture, embedded electronic load cell data sheets, and matched parameters for easy installation without corner adjusting. Inside the load cells, a Hardy C2® memory chip allows electronic calibration in seconds without test weights.

ADVANTAGE® mounting hardware is designed to direct the load properly to the sensor, while resisting angular effects and reducing moment sensitivity, still permitting thermal expansion and contraction on the weighing system. Each load point is fitted with a grounding strap and anti-lift-off protection. All ADVANTAGE load points feature IP68/IP69K rating.

# BENCH & FLOOR SCALES



## Hardy Bench Scales

- Choose between hermetically sealed, IP68/69K, C2 load cells OR environmentally sealed, IP67 load cells with NTEP Certification, depending on your application
- All Hardy Bench Scales come standard in 12"x12", 18"x18", and 24"x24" sizes, and range in capacity from 5lbs – 1,000lbs (2.27kg to 454 kg)
- Custom sizes and capacities are available upon request

## HI BSX Washdown & Hazardous Area Bench Scale

- Choose between hermetically sealed, IP68/69K, load cells, HIPBZ Planar Beams or IP67 aluminum load cells
- All HIBSX scales come standard in 24"x24" or 12"x12" size, and range in capacity from 5lbs – 1300 lbs (2.27kg to 590 kg)
- Very low profile at just 2" tall
- Available in Stainless Steel or Alloy Steel with stainless steel platters

## HI BSD Bench Scale with Integrated Display

- HIBSD Washdown Bench Scales include an 7-in integrated display for easy operation
- Zero and tare functions on the display
- Aluminum Load Sensors IP65 with +/- 0.02% Rated Output Accuracy
- ADC Update Rate: 100ms.
- Capacities from 33 lbs to 330 lbs
- Check weighing & animal weighing modes
- Does not include C2® or IT

## HI DS Drum Scales Coming Soon!

- HISLB Load Cells
- HI 6011IT junction Box
- 30 x 30" or 36" x 36" platters
- 500lbs, 1500lbs, 3Klb
- 1.5" Deck Height; optional ramp
- Indicator Column option works with Hardy SME Instruments (as shown)
- Rugged Mild Steel, Enamel Coated; 304SS available via special order

## Hardy Floor Scales

- Includes IT diagnostics, C2® calibration and NTEP
- Matched hermetically sealed ADVANTAGE® load sensors eliminate the need for potentiometers
- Rated for more than 250,000 load cycles (normal loading)
- Available accessories, include access ramps, pit frames, lifting eyes, bumpers, indicator pedestals, and portability frames
- Available in stainless or painted steel, in sizes from 30"x30" to 6'x8', with capacities ranging from 1,000 to 10,000 lbs

# ACCESSORIES



## Hardy Lift Deck Floor Scales

- Designed and built for harsh chemical and washdown industrial environments, yet are easy to use and install
- Just level the deck, attach the included twenty-foot cable, calibrate (if a C2® instrument, then set your reference), verify and begin weighing
- Available in three sizes from 24 x 24 to 60 x 60 inch in 1Klb, 2Klb, and 5Klb capacities
- NTEP
- Handles on the decks for easy lifting & to facilitate cleaning in pit frames

## C2® Certified Cable

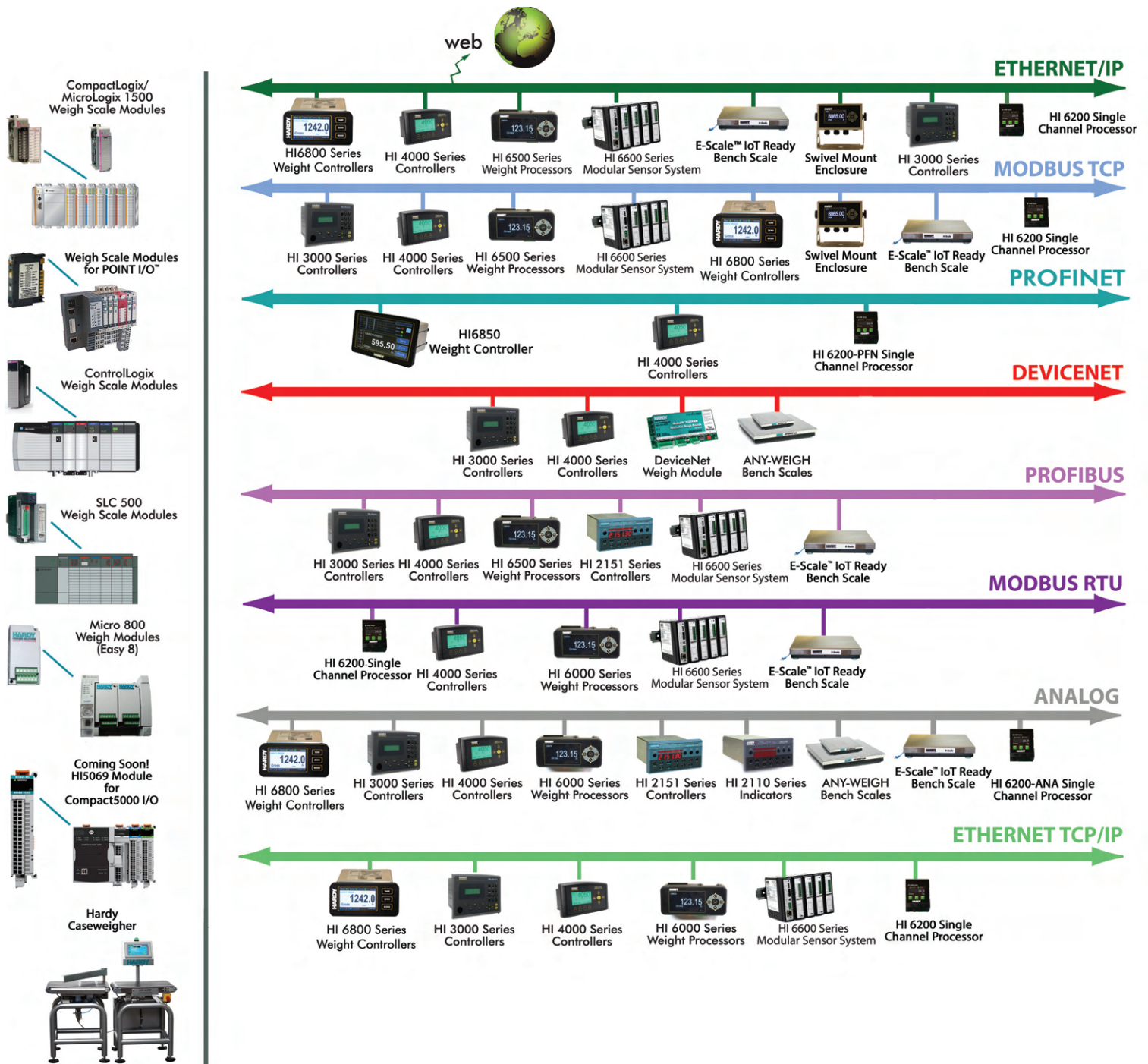
- Certified load point cable is designed and tested to easily handle the low voltages found in weighing systems, and the load point's performance characteristics
- Eight conductors, each a 22 AWG stranded copper wire for flexibility, carry the signals to and from the weighing instrument and the junction box

## Junction Boxes

- Contains a Summing Card in a NEMA 4 or 4X enclosure that distributes the excitation voltage for up to four load points, and transfers their weight signals to the weighing instrument
- Boxes are available in fiberglass, stainless, or painted steel
- Optional INTEGRATED TECHNICIAN circuitry provides easy isolation and trouble-shooting for each component of your weighing system when used with a Hardy instrument
- Summing Cards are also available separately
- HI 6020JB-SSX-Y & HI 6020IT-SSX-Y models: Class I, II, III, Division 1, Class I, Zone 0 and Zone 20
- HI 6020JB-SSX-Y-EX & HI 6020IT-SSX-Y-EX: ATEX: Cert No. DEMKO 17 ATEX 1819 and IECEx: Cert. No. IECEx UL 17.0009

## Connectivity Solutions

Hardy offers the widest choice of network interfaces in the process industry to communicate over:





# Proven Solutions

For more than 100 years, Hardy Process Solutions, headquartered in San Diego, California, has been providing innovative process weighing and packaging solutions for manufacturers. With that, we have saved our customers thousands of production hours and millions of dollars. Our goal is to provide accurate, stable and fast weighing equipment. At Hardy, we pride ourselves on the ability to continuously provide superior product quality and excellent customer support, which enables our customers to achieve their manufacturing goals.

Hardy delivers high performance weighing solutions with the LOWEST TOTAL COST to own. We include Industry Leading Technology in all of our scales and instruments to make it EASY for you to install, integrate, and maintain. Powerful solutions that are easy to use is why our customers realize increased production efficiency.

## Instant Information

We offer instant access to videos, white papers, articles, case studies brochures, application notes, and more.

Simply go to:

[www.hardysolutions.com/media-center/view](http://www.hardysolutions.com/media-center/view)



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