![HARDY PROCESS SOLUTIONS — Measurement · Automation · Productivity](logo)

A Roper Technologies Company

Hardy Bench & Floor Scales

Easiest to Use | Highest Performance | Lowest Total Cost

BENCH & FLOOR SCALES

Hardy E-Scale™ IIoT Ready Scale Base

- New 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

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

ANY-WEIGH Bench Scales and ENVIRO Bench Scales

ANY-WEIGH® Bench Scales

- Feature a very low profile, rugged construction, and stainless steel tops
- Choice of DeviceNet or 4-20mA Analog output

Enviro Bench Scales

- Industrial 304SS washdown bench scales
- Includes IP67 load cells and are NTEP certified

Hardy Floor Scales

- Includes IT diagnostics and C2® calibration
- 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

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
- Handles on the decks for easy lifting to facilitate installation and cleaning in pit frames

ACCESSORIES
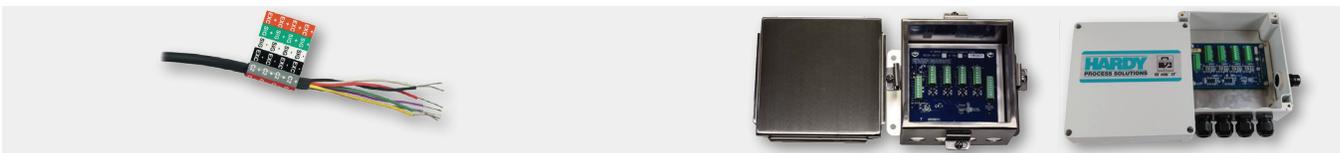
C2® Certified Cable

- Certified load point cable is designed and tested to easily handle the low voltages found in weighing systems, as well as the load point's performance characteristics and switching commands
- 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 performance characteristics and 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 of 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

Easiest to Use | Highest Performance | Lowest Total Cost

HARDY
PROCESS SOLUTIONS
Measurement ▪ Automation ▪ Productivity

Hardy Bench Scales

Applications

PROCESS WEIGHING

- *Minor Ingredients or Hand-Add applications*
- *Small Batch Reactor Applications in Chemical/Biochemical*
- *Machine Filling and Dispensing*
- *Conveyor Scales*
- *Product Inspection: Checkweighing,*
- *Piece Count, Portion Control*
- *Shipping*

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.

PRODUCTIVITY
HARDY
PROCESS TOOLBOX

Electronic calibration without test weights (400 Series) C2®

HARDY Load Sensors
- *Stainless Steel or Aluminum*
- *True Hermetic Seal or Potted*
- *Corner adjusted*

Capacities from 5 lbs to 1,000 lbs

Hazardous: FM IS, Class 1, Div 1

NTEP Certification (200 & 300 Series Only)

Overload Protection
- *300% R.O.* Overload*
- *100% R.O. End Loading*
- *100% R.O. Corner Loading*

(*Rated Output)

Hardy Bench Scales offer the ultimate in product configurability and customization for use in all industrial weighing applications, offering customers the ability to choose the right product at a price that fits their budget.   Hardy Bench Scales are available in either stainless or carbon steel base construction, with 304 Stainless Steel platters. Choose between hermetically sealed, IP68/69K, C2 load cells OR environmentally sealed, IP67 load cells with NTEP, 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. Tell us what will work best for your application and budget, and let us create the solution.

400 Series – HIBS400-xxxx

The 400 Series is Hardy's top of the line industrial bench scale. With all stainless steel construction and a hermetically sealed, IP68/IP69K, FM Hazardous approved, stainless steel Advantage® load cell, the HI BS400 is built for the heaviest wash down applications and corrosive environments.   Hardy has built its C2 weight-free calibration technology into every scale, delivering the lowest total cost of ownership on the market. C2 calibration saves time during commissioning and replacement, removes personnel from processing areas, and keeps your process cleaner by eliminating the need for potentially contaminated test weights. No NTEP.

300 Series – HIBS300-xxxx

The Hardy 300 Series is a Hardy's lowest cost stainless steel industrial scale, built to handle light wash down and humid environments. Each bench scale is equipped with an FM approved IP67 Non-C2 aluminum load cell, and comes with NTEP certification standard.

200 Series – HIBS200-xxxx

The 200 Series is Hardy's lowest cost industrial scale, featuring a painted carbon steel base and IP67, Non-C2 aluminum load cell made for use in dry and dusty environments.   Each aluminum load cell is FM approved, and the HI BS200 comes with NTEP certification standard.

For seamless integration into your manufacturing control system, attach any of the Hardy Bench Scales to a Hardy Weight Processor or Weight Controller with EtherNet/IP, Profibus-DP, Modbus, or Analog 4-20mA output. Or connect to a Hardy PAC or PLC plug-in weight module for the cleanest installation on the market.

All Hardy Scales can be paired with an optional 12" or 24" Indicator Column for instrument mounting. Hardy Bench Scales are also available with a ball-top platter to streamline roll-on, roll-off weighing applications.

COMPONENTS TO COMPLETE YOUR HARDY SYSTEM

Hardy Bench Scales, Floor Scales and Load Points

Hardy carries a wide variety of strain gauge load points and scale mounts to accommodate your application requirements.

ADVANTAGE Series with C2 Calibration

Bench & Floor Scales

Weighing Instruments Dedicated to Your Applications

Controllers, Weigh Modules, Weight Processors & Transmitters

Allen-Bradley® Compatible Plug-in Weigh Scale Modules

HI 3000 & HI 4000 Controllers and HI 6000 Series Weight Processors

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SPECIFICATIONS
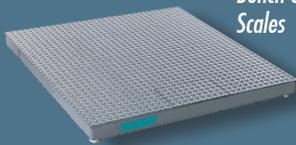
Platter Construction
- 304 Stainless Steel (all models)
- Size: 12" x 12", 18" x 18" and 24" x 24 (custom sizes are available)

Deck Height
12" x 12": 5, 25, 50, 150 lbs: 3.75" to 4.5" (9.5 to 11.4 cm) adjustable
18" x 18": 50, 25, 50, 150 lbs: 3.75" to 4.5" (9.5 to 11.4 cm) adjustable
18 x 18": 300, 500 lbs: 5.5" x 6.5" (14 to 16.5 cm) adjustable
24" x 24": all capacities 5.5" x 6.5" (14 to 16.5 cm) adjustable

Capacity Range
- 5 lbs to 1000 lbs (2.27 to 454 kg)

Rated Output
- Overload: 300% R.O.
- End loading: 100% R.O.
- Corner loading: 100% R.O.

Cable Length
- Platform to Instrument - 9 to 10 feet nominal (3 meters) (for longer cable lengths, contact the Factory)

Base Construction
- HIBS400 & HIBS300: Stainless Steel
- HIBS200: Painted Carbon Steel

Load Sensors
- HIBS400: C2® stainless steel, hermetically sealed IP68/IP69K
- HIBS300 & HIBS200: Non-C2 aluminum, environmentally potted, IP67

Resolution
- 5000 divisions of scale capacity

Accuracy
- Combined Error: 0.02%

Warranty
- Two year limited warranty

Approvals
- NTEP (HIBS300 and HIBS200 Only)
- FM IS Hazardous Class I, Div 1 Load Cell

Shipping Weight
- 12" x 12": 38 lbs (17.2 kg)
- 18" x 18": 59 lbs (26.8 kg)
- 24" x 24": 104 lbs (47.2 kg)

Hardy Bench Scale Models

HI BS400: Purpose built to handle the toughest industrial applications, ensuring a long life when used in harsh, corrosive, wet or humid environments (IP68/IP69k). 304SS base and platter with stainless steel, hermetically sealed, C2 load cell. FM certified.

HI BS300: Rugged industrial scale with stainless steel construction for use in harsh and wet environments (IP67). 304SS base and platter construction with a Non-C2 Aluminum Load Cell. FM certified, NTEP Certification.

HI BS200: A versitile and cost-effective industrial scale that satisfies a variety of weighing applications in dry environments (IP67). Carbon steel base and 304SS Platter, with a Non-C2 Aluminum Load Cell. FM certified, NTEP Certification.

Standard Sizes and Capacities

Model	Dimensions	Capacity	Safe Load Limit
HIBS_00-1212-5LB	12"x12"	5 lbs/2.268 kg	10 lbs
HIBS_00-1212-25LB	12"x12"	25 lbs/11.34 kg	25 lbs
HIBS_00-1212-50LB	12"x12"	50 lbs/22.68 kg	98 lbs
HIBS_00-1212-150LB	12"x12"	150 lbs/68.04 kg	208 lbs
HIBS_00-1818-50LB	18"x18"	50 lbs/2.268 kg	90 lbs
HIBS_00-1818-150LB	18"x18"	150 lbs/68.04 kg	200 lbs
HIBS_00-1818-300LB	18"x18"	300 lbs/136.08 kg	420 lbs
HIBS_00-1818-500LB	18"x18"	500 lbs/226.8 kg	527 lbs
HIBS_00-2424-50LB	24"x24"	50 lbs/2.268 kg	66 lbs
HIBS_00-2424-150LB	24"x24"	150 lbs/68.04 kg	176 lbs
HIBS_00-2424-300LB	24"x24"	300 lbs/136.08 kg	506 lbs
HIBS_00-2424-500LB	24"x24"	500 lbs/226.8 kg	506 lbs
HIBS_00-2424-1000LB	24"x24"	1000 lbs/453.6 kg	1000 lbs

Note: _ = 4 for 400, 3 for 300 and 2 for 200 models

Hardy Bench Scale Accessories Enable you to easily configure a solution to meet your individual applications!

- Instrument pedestal
- Roll Top

Instrument Pedestal 12" and 24" Stainless and Carbon Steel

Roll Top

HARDY
PROCESS SOLUTIONS
Measurement ▪ Automation ▪ Productivity

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- full product specifications
- ordering information
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HARDY
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Measurement ▪ Automation ▪ Productivity

ANY-WEIGH® Bench Scales

Applications

PROCESS WEIGHING
- *Check Weighing*
- *Hand Ads*
- *Filling*
- *Laboratory*
- *Force*

Encompass™ Product Partner
A ROCKWELL AUTOMATION PARTNER
Global

Features

C2® Electronic Calibration
- *Electronic calibration without test weights*

C2 SECOND GENERATION CALIBRATION

ANY-WEIGH® Standard Features
- *Stainless Steel*
- *Solid Construction*
- *Low Profile*

Universal
- *C2 Electronic Calibration*

Analog
- *Built-in 4-20mA Communications*
- *Pre-Calibrated*

DeviceNet
- *Built-in DeviceNet Communications*
- *Pre-Calibrated*
- *WAVERSAVER®*
- *C2 Electronic Calibration*
- *THE BUTTON One Touch Calibration*

The ANY-WEIGH® Bench scales provide complete flexibility in size and capacity for use in a wide range of weighing applications. With their rugged construction and stainless steel tops, ANY-WEIGH Scales are a great fit for both laboratory and industrial installations.

The ANY-WEIGH line of bench scales can be configured with standard interfacing to a weight instrument or with a built-in, direct connection to a PLC, PAC, DCS or PC.

C2® ELECTRONIC CALIBRATION
With a push of a button in a Hardy Controller, C2 enables a fast, accurate, electronic calibration without test weights. The C2 system reduces downtime for installation or repairs and eliminates test weight related injuries.

UNIVERSAL SCALE (HI SBU Series)
Directly attach the scale's 15-foot cable to any weighing instrument or controller. If interfacing with a Hardy Controller, you can take full advantage of WAVERSAVER®, and C2 Electronic Calibration.

ANALOG SCALE (HI SBA Series)
Use the Analog output scale to provide 4-20mA output directly proportional to the weight reading. This version offers a low-cost, effective solution for bringing an analog weight reading directly into a control system,with minimal additional wiring or hardware,and comes with a 15-foot two-wire shielded cable. The scale comes pre-calibrated from the factory but provides potentiometers for coarse and fine zero adjustment as well as span.

DEVICENET SCALE (HI SBD Series)
With its built-in DeviceNet interface you can use this scale to provide a weight output to any point on a DeviceNet Network. This version also incorporates both the WAVERSAVER and C2 technologies, and comes with a six-inch pig-tailed connector.

Just set an address,connect to your network, configure and you're up and running. The scale features outputs for Gross,Net and Tare weight values and inputs for Zero and Tare commands. A Command interface provides easy access to all parameters without the need for explicit messages.

Need to recalibrate? One push of "THE BUTTON" automatically recalibrates the scale. The scale also supports C2 electronic calibration over its DeviceNet interface. WAVERSAVER eliminates the effects of vibration on the scale resulting in a clean accurate weight signal being transmitted over DeviceNet. The scale provides 20-bit resolution with a selectable conversion rate choice of 10 or 55 updates per second.

Use ANY-WEIGH Bench Scales for:

- *Filling & Dispensing*
- *IBC Dispensing*
- *Batching/Blending*
- *Check Weighing*
- *Flow Rate Monitoring*
- *Flow Rate Control*
- *Force Measurement*
- *Level Measurement/Control*

Weighing Instruments Dedicated to Your Applications
Controllers, Weight Modules, Transmitters

Allen-Bradley® Compatible Plug-in Weigh Scale Modules

HI 3000 & HI 4000 Controllers and HI 6000 Series Weight Processors

Hardy Load Cells

Hardy carries a wide variety of Load Cells to accommodate your application requirements.

ADVANTAGE Series with C2 Calibration

SPECIFICATIONS

Universal Scale (SBU)
Rated Output
- 0.900 ±0.0009mV/V

Combined Error
- 0.030 %R.O.

Creep @ 30 min
- 0.030 %R.O.

Zero Balance
- 5.0 % R.O.

Temp Effect Output
- 0.0015% R.O./ °F

TempEffect Sensitivity
- 0.0008 % R.O./ °F

Comp.Temp. Range
- -10 - +40°C

Oper. Temp. Range
- -10 - +65°C

Input Resistance
- 297.5 ± 10% ohm

Output Resistance
- 250 ± 5% ohm

Excitation
- 5-15 Volts

Safe Load Limit
- 300 % Emax
- Ultimate Load 400% Emax

Max. Cornering Error
- 0.06% 1/2 full scale load, 1/2 way to corner

Warranty
- Two year warranty against defects in workmanship

DeviceNet Out (SBD)
Resolution
- 20 bit

Update Rate
- 10 or 55 per second depending on WAVERSAVER settings

Averages
- 0-255 selectable

Temp Coefficient
- <0.0023%/C

Input Power
- 11-25VDC

Type
- Generic

I/O Slave Message
- Polling

Baud Rates
- 125K, 250K, 500K

Inputs
- Gross, Net, Tare

Outputs
- Weight: Metric/Engl.,Zero & Tare
- WAVERSAVER
- Calib . Type
- Span Weight (Hard Cal)
- Cal Low Value
- Cal High Value
- # of Averages

Warranty
- Two year warranty against defects in workmanship

Analog Out (SBA)
Loop Power
- 15-50VDC across scale.
- A 15V min. would be with 0 ohm load; add 20mV/ohm to the min. loop voltage.
- A 500 ohm load would require 25V min. loop voltage.

Linearity
- 0.11% of full scale

Response Time
- 250 milliseconds

Temp. Range
- 0 to 60°C

Temp. Coefficient
- 0.025%/°C

Warranty
- Two year warranty against defects in workmanship

All specifications subject to change without notice. Please contact the Hardy factory or visit our website for the latest specifications.

ORDERING INFORMATION

MODEL #	SIZE	CAPACITY	HEIGHT	WEIGHT
	in/mm	lb/kg	in/mm	lb/kg
HI 1212SB__-33	12" x 12" / 298 x 298	33/15	1.54/39.1	14/6.4
HI 1212SB__-66	12" x 12" / 298 x 298	66/30	1.56/39.6	14/6.4
HI 1212SB__-130	12" x 12" / 298 x 298	130/60	1.62/41.2	14/6.4
HI 2424SB__-130	24" x 24" / 600 x 600	130/60	1.62/41.2	52/23.6
HI 2424SB__-330	24" x 24" / 600 x 600	330/150	1.65/41.9	52/23.6
HI 2424SB__-660	24" x 24" / 600 x 600	660/300	1.87/47.5	52/23.6
HI 2424SB__-1.3K	24" x 24" / 600 x 600	1300/590	2.05/52.1	52/23.6

SBU: Universal   **SBD**: DeviceNet   **SBA**: Analog

HARDY
PROCESS SOLUTIONS
Measurement ▪ Automation ▪ Productivity

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ISO
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COMPANY

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STOCK MAKE PACK SHIP

Hardy E-Scale™

World's First IIoT Ready Scale Base

Applications

PROCESS WEIGHING

- *Piece Count, Portion Control*
- *Minor Ingredients or Hand-Add applications*
- *Small Batch Reactor Applications in Chemical/Biochemical*
- *Machine Filling and Dispensing*
- *Conveyor Scales*
- *Shipping*

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 C2®

Vibration immunity from mechanical noise

WAVERSAVER®

33 lbs to 1,300 lbs Capacities

EDS Add-On-Profiles

Faceplate/AOIs (6500/6510 models)

Overload Protection
- *300% R.O.* Overload*
- *400% R.O. Ultimate Load*

(*Rated Output)

IIoT Ready Intelligent Scale with Integrated Communications

The new Hardy E-Scale Bench scale series is the world's first IIoT-ready (Industrial Internet of Things) scale base. It includes an integrated Hardy weight processor for direct network connection for either EtherNet/IP® or Profibus-DP® networks. Depending on configuration, the E-Scale offers complete flexibility in size and capacity for use in many weighing applications. E-Scales eliminate possible failure points and save the cost of extra splice-boxes and other components.

With their rugged construction and stainless steel tops, E-Scales are a great fit for dry food processing, laboratory and industrial installations. The E-Scale line of bench scales comes in a variety of configurations with a built-in interface for direct connection to a PLC, PAC, DCS or PC. All E-Scales come standard in 12"x12" and 24"x24" sizes, and range in capacity from 33 lbs – 1300lbs (15 to 600 kg).

The covers are all stainless steel for durability. The bases have no bearings, spirit levels, or moving parts that can be damaged or wear out. They feature the Hardy Process Toolbox, including Waversaver®, C2®, Webserver, and Rockwell Automation integration tools such as Faceplates, and Add-on-profiles.

E-SCALE-6500 or 6510**

IoT ready scale with integrated weight processing and communications. No DIN or panel space is required. The E-Scale-6500 or 6510 delivers stable processed weight with a resoluton of 1:10:000, and a speed of 110 updates per second (processor, display and comm.). Industrial Network protocols supported include:

- EtherNet/IP (-EIP models)
- Ethernet UDP
- Ethernet TCP/IP(Embedded Webserver)
- Modbus RTU
- Modbus TCP (-EIP models)
- Profibus-DP (-PB models)
- Analog 4-20 mA (6510 models only)

** User must supply 24VDC power to the scale

E-SCALE-6610*

Capable of powering up to 20 scales daisy chained up to 50 ft from beginning to end to a single Hardy HI 6600 Gateway Module. The Gateway Module provides a Single Ethernet connection back to the PLC/PAC or PC – No additional power is required! Gateway Module has an optional panel mount multichannel display (multichannel) that can be used to operate connected E-Scales.

HI6600 Gateway communications include:
- EtherNet/IP (-EIP models)
- Ethernet TCP/IP(Embedded Webserver)
- Modbus RTU

Even in noisy environments with excessive amounts of mechanical vibration, the E-Scale-6610 provides a steady 1:10:000 resolution with 110 updates per second over its variety of communications protocols.
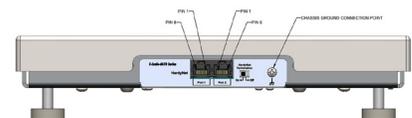
COMPONENTS TO COMPLETE YOUR HARDY SYSTEM

Hardy Floor Scales and Load Points

Hardy carries a wide variety of strain gauge load points and scale mounts to accommodate your application requirements.

ADVANTAGE Series with C2 Calibration

Floor Scales
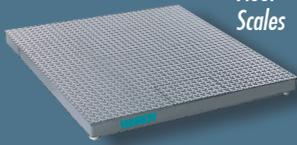
Weighing Instruments Dedicated to Your Applications

Controllers, Weigh Modules, Weight Processors & Transmitters

Allen-Bradley® Compatible Plug-in Weigh Scale Modules

HI 3000 & HI 4000 Controllers and HI 6000 Series Weight Processors

SPECIFICATIONS

Platter Construction
- 304 Stainless Steel (all models)
- Size: 12" x 12" and 24" x 24

Rated Output
- 0.900 ±0.0009mV/V

Combined Error
- 0.030 %R.O.

Creep @ 30 min
- 0.030 %R.O.

Zero Balance
- 5.0 % R.O.

Temp Effect Output
- 0.0015% R.O./ °F

Temp Effect Sensitivity
- 0.0008 % R.O./ °F

Temp. Range
- Operating -10 - +40°C
- Storage -10 - +65°C

Resistance
- Input: 297.5 ± 10% ohm
- Output: 250 ± 5% ohm

Safe Load Limit: 300 % Emax

Ultimate Load Limit: 400 % Emax

Max. Cornering Error
- 0.06% 1/2 full scale load, 1/2 way to corner

Resolution
- Stable processed weight 1:10,000
- Maximum displayed resolution: 1:999,999
- Internal resolution 1:8,388,608

Update Rate
- 110 times per second (processed weight, display, communications)
- Unprocessed weight (A/D conversion) 4800 times per second

Modes: Gross, Net, Count

Units of Measure
- Ounce, Pound, Ton, Gram, Kg, Pieces

Weight Processing
- WAVERSAVER®: .25 Hz to 7.5 Hz
- Averaging:1 to 255 User-selectable in single increments

Calibration Methods:
- C2® calibration without test weights
- Traditional calibration with test weights

Communications Interface
- Terminal, RJ-45 (6500)
- RJ45 / Cat5e (6610)

Optional HI 6110 Display (6610 only)
- 80:1 contrast ratio with 4.3" effective viewing area
- 140° viewing angle
- Control configure, and view one to four scales on a single front panel simultaneously

Power
- 24 VDC from supplied power source (6500 models)
- 24 VDC, Class 2 Source, max 3.9 Watts from HI 6600 Gateway (6610 models)

Approvals: UL and CE

Warranty: Two years against defects in workmanship

Hardy E-Scale Models

Model Number HI6610 Models	Dimensions		Recommended Capacity	
	Inches	mm	Lbs / Kg	Divisions Lb/Kg
E-SCALE-6610-1212-33	11.75" x 11.75"	298 x 298	33 / 15	0.01 / 0.01
E-SCALE-6610-1212-66	11.75" x 11.75"	298 x 298	66 / 30	0.02 / 0.01
E-SCALE-6610-1212-130	11.75" x 11.75"	298 x 298	130 / 60	0.05 / 0.02
E-SCALE-6610-2424-130	23.62" x 23.62"	600 x 600	130 / 60	0.05 / 0.02
E-SCALE-6610-2424-330	23.62" x 23.62"	600 x 600	330 / 150	0.1 / 0.05
E-SCALE-6610-2424-660	23.62" x 23.62"	600 x 600	660 / 300	0.2 / 0.1
E-SCALE-6610-2424-1300	23.62" x 23.62"	600 x 600	1,300 / 600	0.5 / 0.2

NOTE: All E-SCALE-6610 versions require HI6600 Gateway Module to Operate

Model Number HI 6500 Models with EIP	Dimensions		Recommended Capacity	
	Inches	mm	Lbs / Kg	Divisions Lb/Kg
E-SCALE-6500EIP-1212-33	11.75" x 11.75"	298 x 298	33 / 15	0.01 / 0.01
E-SCALE-6500EIP-1212-66	11.75" x 11.75"	298 x 298	66 / 30	0.02 / 0.01
E-SCALE-6500EIP-1212-130	11.75" x 11.75"	298 x 298	130 / 60	0.05 / 0.02
E-SCALE-6500EIP-2424-130	23.62" x 23.62"	600 x 600	130 / 60	0.05 / 0.02
E-SCALE-6500EIP-2424-330	23.62" x 23.62"	600 x 600	330 / 150	0.1 / 0.05
E-SCALE-6500EIP-2424-660	23.62" x 23.62"	600 x 600	660 / 300	0.2 / 0.1
E-SCALE-6500EIP-2424-1300	23.62" x 23.62"	600 x 600	1,300 / 600	0.5 / 0.2

Model Number HI 6510 With EIP & Analog	Dimensions		Recommended Capacity	
	Inches	mm	Lbs / Kg	Divisions Lb/Kg
E-SCALE-6510EIP-1212-33	11.75" x 11.75"	298 x 298	33 / 15	0.01 / 0.01
E-SCALE-6510EIP-1212-66	11.75" x 11.75"	298 x 298	66 / 30	0.02 / 0.01
E-SCALE-6510EIP-1212-130	11.75" x 11.75"	298 x 298	130 / 60	0.05 / 0.02
E-SCALE-6510EIP-2424-130	23.62" x 23.62"	600 x 600	130 / 60	0.05 / 0.02
E-SCALE-6510EIP-2424-330	23.62" x 23.62"	600 x 600	330 / 150	0.1 / 0.05
E-SCALE-6510EIP-2424-660	23.62" x 23.62"	600 x 600	660 / 300	0.2 / 0.1
E-SCALE-6510EIP-2424-1300	23.62" x 23.62"	600 x 600	1,300 / 600	0.5 / 0.2

NOTE: All E-SCALE-6500 versions require separate 24VDC Power

Model Number HI 6500 with Profibus DP	Dimensions		Recommended Capacity	
	Inches	mm	Lbs / Kg	Divisions Lb/Kg
E-SCALE-6500PB-1212-33	11.75" x 11.75"	298 x 298	33 / 15	0.01 / 0.01
E-SCALE-6500PB-1212-66	11.75" x 11.75"	298 x 298	66 / 30	0.02 / 0.01
E-SCALE-6500PB-1212-130	11.75" x 11.75"	298 x 298	130 / 60	0.05 / 0.02
E-SCALE-6500PB-2424-130	23.62" x 23.62"	600 x 600	130 / 60	0.05 / 0.02
E-SCALE-6500PB-2424-330	23.62" x 23.62"	600 x 600	330 / 150	0.1 / 0.05
E-SCALE-6500PB-2424-660	23.62" x 23.62"	600 x 600	660 / 300	0.2 / 0.1
E-SCALE-6500PB-2424-1300	23.62" x 23.62"	600 x 600	1,300 / 600	0.5 / 0.2

NOTE: All E-SCALE-6500 versions require separate 24VDC Power

HARDY
PROCESS SOLUTIONS
Measurement ▪ Automation ▪ Productivity

CERTIFIED ISO 9001:2015 COMPANY

E-SCALE 032020
0400-E-SCALE-01D

STOCK MAKE PACK SHIP

Hardy Enviro™ Bench Scales

Applications

PROCESS WEIGHING

- *Minor Ingredients or Hand-Add applications*
- *Small Batch Reactor Applications in Chemical/Biochemical*
- *Product Inspection: Checkweighing,*
- *Piece Count, Portion Control*
- *Shipping*

Features

Sanitary Washdown
- *304 Stainless Steel base and platter*
- *IP67 Rated Load Cell*
- *Closed corners on platform cover*
- *Withstands high pressure and high temperatures*

HARDY Load Sensor
- *Stainless Steel*
- *Corner adjusted*

Capacities from 2 lbs to 100 lbs

Sizes from 10" x 10" to 18" x 18"

NTEP Certification

Overload Protection
- **300% R.O.* Overload**
- **100% R.O. End Loading**
- **100% R.O. Corner Loading**

(*Rated Output)

The Hardy Process Solutions Enviro™ bench scale meets the needs of the food and chemical industries for sanitary scales that withstand high-pressure, high-temperature washdown environments.

All Hardy Enviro Scales come standard in 10"x10", 12"x12" and 18"x18" and range in capacity from 2 lbs – 100 lbs (0.90 kg to 45.4 kg).

Made of 304 stainless steel and featuring an IP67 rated load cell, the Enviro washdown bench scales are designed for easy cleaning and sanitizing. Welds are continuous, which prevents processing materials and mosture from accumulating and forming colonization points for harmful bacteria like Salmonella, E. Coli, and Listeria Monodytogenes.

Closed corners on the platform cover prevent splash collection of water or processing materials inside the scale. Busing and spacers are used to eliminate lap joints and faciltate quick and easy cleaning.

The ultra-smooth stainless platter resists surface penetration and is easy to clean, adhering to the AMI's strict standards for safety in RTE areas and other production applications. The superior sanitary design and durable stainess steel construction of the Enviro™ washdown bench scales are a perfect foundation for a reliable sanitary bench scale configuration.

At Hardy, we believe that industrial weighing systems should be EASY to engineer and to operate. Simplicity drives the LEAST TOTAL COST. Want MORE PRODUCTIVITY at the LEAST TOTAL COST to own? Call Hardy to discover how today!
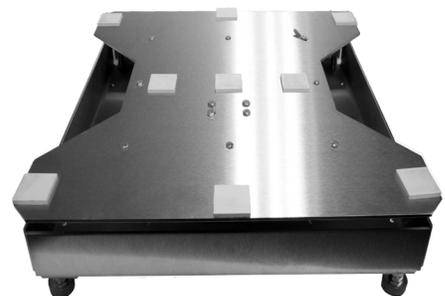
COMPONENTS TO COMPLETE YOUR HARDY SYSTEM

Hardy Floor Scales and Load Points

Hardy carries a wide variety of strain gauge load points and scale mounts to accommodate your application requirements.

ADVANTAGE Series with C2 Calibration

Bench & Floor Scales
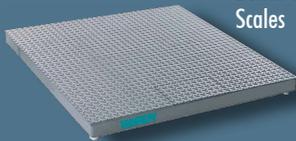
Weighing Instruments Dedicated to Your Applications

Controllers, Weigh Modules, Weight Processors & Transmitters

Allen-Bradley® Compatible Plug-in Weigh Scales

HI 3000 & HI 4000 Controllers and HI 6000 Series Weight Processors

STOCK   MAKE

PACK   SHIP

Hardy Enviro Bench Scale

Specifications

IP Rating:
- IP67

Load Cell Type:
- Stainless Steel, Potted

Base Construction:
- 304 Stainless Steel

Platter Construction:
- 304 Stainless Steel

Capacity Range:
- 2lb to 100lb

Minimum Overload Protection:
- 300% Rated Capacity

Minimum End Loading Protection:
- 100% Rated Capacity

Minimum Corner Loading Protection:
- 100% Rated Capacity

Legal for Trade Rating:
- NTEP

Resolution:
- 5,000 divisions of full scale

Sanitary Specification:
- Follows sanitary specifications for processing equipment developed by the American Meat Institute (AMI)

Standard Sizes:
- 10" x 10" x 2.89" H
- 12" x 12" x 3.10" H
- 18" x 18" x 3.87" H

Shipping Weight
- 10" x 10": 25 lbs (11.34kg)
- 12" x 12": 38 lbs (17.2 kg)
- 18" x 18": 59 lbs (26.8 kg)

Standard Sizes and Capacities

Model #	Platter Size	Capacity
HIWDPS-1010-0002	10" x 10"	2 lb
HIWDPS-1010-0006	10" x 10"	6 lb
HIWDPS-1010-0010	10" x 10"	10 lb
HIWDPS-1010-0025	10" x 10"	25 lb
HIWDPS-1212-0030	12" x 12"	30 lb
HIWDPS-1212-0050	12" x 12"	50 lb
HIWDPS-1818-0050	18" x 18"	50 lb
HIWDPS-1818-0100	18" x 18"	100 lb

HARDY
PROCESS SOLUTIONS
Measurement ▪ Automation ▪ Productivity

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hardyinfo@hardysolutions.com

ISO 9001:2008
C E R T I F I E D
Since 1993

Visit our website for:
- full product specifications
- ordering information
- application notes
- technical description
- operator's manual

www.hardysolutions.com
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0400-0036-01C

Hardy Floor Scales

Applications

PROCESS WEIGHING

- *Inventory Management*
- *Batching & Blending*
- *Dispensing & Filling*
- *Check Weighing*
- *Shipping*

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.

PROCESS TOOLBOX

Electronic calibration without test weights

C2®

Weighing system monitoring and troubleshooting

IT INTEGRATED® TECHNICIAN

HARDY ADVANTAGE® Load Cells
- *Factory Matched, Stainless Steel with True Hermetic Seals; No Cornering*

Hazardous Area Certification
- *Class I, II, 111, Div 1 and Div 2*

Capacities Range from 1,000 to 10,000 lbs

Top Access Summing Card

100% End Loading

Hardy's accurate, rugged and reliable floor scales provide value and flexibility in size and capacity for use in a wide range of industrial weighing applications. Rated for 250,000 load cycles under normal loading conditions,* they are built to last.

HAZARDOUS AREA CERTIFICATION

Hardy Floor Scales are designed and built for industrial environments, including heavy washdown and hazardous areas, with Class I, II, III, Div. 1 & 2 certification. Incredibly easy to install and use; just level the deck, attach the included twenty-foot cable, calibrate (if a C2® compatible instrument, set your reference), verify and begin weighing.

Available in eight sizes from 30 x 30 inch to 72 x 96 inches in 1, 2.5, 5, and 10 klb capacities, Hardy floor scales have two threaded holes in the decks for attaching eyebolts to facilitate installation and cleaning.

C2® ELECTRONIC CALIBRATION

Used with a Hardy weight processor or controller, C2 enables fast, accurate, electronic calibration without test weights. The C2 system reduces downtime for installation or repairs and eliminates test weight related injuries.

INTEGRATED TECHNICIAN®

Each scale has built-in INTEGRATED TECHNICIAN (IT) circuitry. Coupled with a Hardy controller or instrument, the scale provides diagnostic and troubleshooting tools that read individual weights and voltages to aid you in isolating problems and ensure the integrity of your scale system.

SERVICE BY DESIGN

Along with C2 and INTEGRATED TECHNICIAN, all Hardy floor scales feature a top access plate for quick and easy access to the NEMA 4X summing box containing the Hardy 6011 Summing Card, ensuring that general maintenance is easier and more time-efficient.

HERMETICALLY SEALED LOAD SENSORS

The heart of any scale is the load sensors. All Hardy floor scales come standard with four matched Hardy ADVANTAGE® stainless steel, true hermetically-sealed sensors — sealed at both the gauging area and cable entry for long life. All are matched and calibrated for mV/V and mV/V/ohm. This eliminates the need for corner adjustment and potentiometers in the junction box, allowing a sensor to be replaced without calibration. Instead of the typical threaded hole into which the load cell foot is attached, the ADVANTAGE sensors use a blind hole technique ensuring the load is applied at a precise location to provide an accurate reading, weighment after weighment.

RUGGED, LOW PROFILE DESIGN

With a deck height of only 4.0 inches and 100% end loading, these floor scales enable easy, any-side access and maneuvering of all types of load handling equipment onto the scale.

Each scale features a field-proven, rugged structural rib design with 1/4 inch thick smooth or diamond plate deck that can withstand overloads of up to 100% of its capacity. Durable rubber encapsulated feet provide easy height adjustment.

*Contact Hardy for more information

COMPONENTS TO COMPLETE YOUR HARDY SYSTEM

Hardy Bench Scales, Floor Scales and Load Points

Hardy carries a wide variety of strain gauge load points and scale mounts to accommodate your application requirements.

ADVANTAGE Series with C2 Calibration

Bench & Floor Scales

Weighing Instruments Dedicated to Your Applications

Controllers, Weigh Modules, Weight Processors & Transmitters

Allen-Bradley® Compatible Plug-in Weigh Scale Modules

HI 3000 & HI 4000 Controllers and HI 6000 Series Weight Processors

SPECIFICATIONS

Platform
- 0.25" inch thick smooth or safety tread deck

Deck Height
- 4.0 inches (10.2 cm) (adjustable 0.2" or 5 mm)

Overload Capacity
- 200% of rated scale capacity

End Loading
- 100% of rated scale capacity

Cable Length
- Platform to Instrument - 20 feet
  (for longer cable lengths, contact the Factory)

Construction
- 304 SS Stainless Steel
- Painted Carbon Steel with Two-part UV resistant
  Polyurethane - 2 to 4 mil top coat

Load Sensors
- C2® stainless steel
- hermetic seal
- blind hole loading

Junction Box
- NEMA 4X

Power Rating
- 5 VDC, Class 2 source, max. 50 mA

Hardy 6011IT Summing Card
- 4 Individual load sensor terminal blocks with integrated
  cable glands
- INTEGRATED TECHNICIAN® circuitry
- For Class I and II, Division 1 Hazardous (Classified)
  Locations, and Class 1, Zone 0 and 2 Groups IIC, Zone
  20 and 22 Groups IIIC , power must be supplied through
  intrinsically safe barriers per control drawing
  0594-0010

Scale Excitation
- 5vdc +/-5%

Optional Eye Bolts
- 1/2 - 13 x 1-1/2", 2-1/4" diameter eye

Duty Cycle
- +250,000 load cycles under normal loading
  conditions*

*Contact Hardy for further information

Accuracy
- Combined Error: 0.02%
- Repeatability: 0.01%

Certifications
- UL, CUL, CE • RoHS and REACH Compliant
- Hazardous Areas: Class I, Division 1, Groups A, B, C, D,
  T4; Zone 0, Group IIC, T4; Division 2, Groups A, B, C, D,
  T5
- Class II, Division 1, Groups E, F, G, T4; Zone 20, Group
  IIIC; Division 2, Groups F, G, T5
- Class III, Division 1, T4; Division 2, T5

Warranty
- Two year limited warranty

ORDERING OPTIONS

-PS	Painted Steel Platform Top
-SS	Stainless Steel Platform Top
-S	Smooth Platform Top
-T	Tread Plate Platform Top

STANDARD SIZES AND CAPACITIES

SIZE (feet/cm)	CAPACITY (lb/kg)	HEIGHT (in/cm)	SHIP (lb/kg)
30" x 30" / 76 x 76	1000/500	3.375"/8.6 cm	200/91
	2500/1000	3.375"/8.6 cm	200/91
	5000/2500	3.375"/8.6 cm	200/91
3' x 3' / 91 x 91	1000/500	3.375"/8.6 cm	250/113
	2500/1250	3.375"/8.6 cm	250/113
4' x 4' / 122 x 122	2500/1250	3.375"/8.6 cm	405/184
	5000/2250	3.375"/8.6 cm	405/184
	10,000/4500	3.375"/8.6 cm	405/184
4' x 5' / 122 x 152	5000/2250	3.375"/8.6 cm	500/227
	10,000/4500	3.375"/8.6 cm	500/227
4' x 6' / 122 x 183	5000/2250	3.375"/8.6 cm	600/272
	10,000/4500	3.375"/8.6 cm	600/272
5' x 5' / 152 x 152	5000/2250	3.375"/8.6 cm	650/295
	10,000/4500	3.375"/8.6 cm	650/295
5' x 7' / 152 x 213	5000/2250	3.375"/8.6 cm	900/408
	10,000/4500	3.375"/8.6 cm	900/408
6' x 8' / 183 x 244	10,000/4500	3.375"/8.6 cm	1150/522

HARDY FLOORSCALE ACCESSORIES

Enables you to easily configure a solution to meet your individual applications!
- Ramps
- Pit Frames
- Bumper Guards
- Bolt Down Plates
- Instrument pedestal
- Portability Frames

Instrument Pedestal
HIFSI-48-SS

Pit Frames
HIFSPF Series

Access Ramps
HIFSR Series

Portability Frames
HIFSPK Series

Bumper Guards
HIFSBG Series

Also Available: Lift Deck Scales

HARDY
PROCESS SOLUTIONS
Measurement ▪ Automation ▪ Productivity

Hardy Process Solutions
10075 Mesa Rim Road
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CERTIFIED COMPANY — ISO 9001:2015

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Hardy Lift Deck Floor Scales
Designed for Use In Hazardous Areas

Applications

PROCESS WEIGHING
- *Inventory Management*
- *Batching & Blending*
- *Dispensing & Filling*
- *Shipping*

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.

PRODUCTIVITY
HARDY

Electronic calibration without test weights

C2®

Weighing system monitoring and troubleshooting

IT INTEGRATED TECHNICIAN

Hardy ADVANTAGE® Load Sensors
- *Factory Matched, Stainless Steel with True Hermetic Seals; No Cornering*

Capacities Range from 1,000 to 5,000 lbs

Hazardous Area Certification
- *Class I, II, 111, Div 1 and Div 2*

Top Access Summing Card

100% End Loading

Hardy Process Solutions now has a line of lift-deck, hazardous area wash down scales to meet the needs of the most demanding, applications.

These process weighing scales combine best-in-class durability with Hardy's Process Toolbox features: weightless calibration (C2®) and operator diagnostics (INTEGRATED TECHNICIAN®). Hardy Lift Deck Floor Scales offer manufacturers multiple ways to reduce their maintenance costs and downtime.

DESIGNED FOR ANY ENVIRONMENT
Hardy Lift Deck Floor Scales are designed and built for industrial environments, including heavy washdown and hazardous areas, with Class I, II, III, Div. 1 & 2 certification. Incredibly easy to install and use with the latest advancements in weighing technology. Just level the deck, attach the included twenty-foot cable, calibrate (if a C2® compatible instrument, set your reference), verify and begin weighing.

Available in three sizes from 36 x 36 inch to 60 x 60 foot in 1, 2, and 5 thousand pound capacities. Hardy Lift Deck floor scales have two handles on the decks for easy lifting to facilitate installation and cleaning.

C2® ELECTRONIC CALIBRATION
With a Hardy weight controller, C2® load sensors enable fast, accurate, electronic calibration without test weights at just a push of a button The easy-to-use C2® system reduces downtime for installation and repairs and eliminates test weight related safety risks.

INTEGRATED TECHNICIAN®
Each scale has built-in INTEGRATED TECHNICIAN® (IT) circuitry. When coupled with a Hardy controller, the scale provides diagnostic and troubleshooting tools that read individual weights and voltages to aid you in isolating problems. Together, Hardy C2® and IT eliminate the need to open the junction box. The junction box remains sealed reducing the risk of sparks in hazardous areas.

HERMETICALLY SEALED LOAD SENSORS
The heart of any scale is the load sensors. All Hardy Lift Deck floor scales come standard with four matched Hardy ADVANTAGE® IP69K stainless steel, true hermetically-sealed sensors — sealed at both the gauging area and cable entry for long life. All are matched and calibrated for mV/V and mV/V/ohm. This eliminates the need for corner adjustment and potentiometers in the junction box, allowing a sensor to be replaced without calibration. Hardy ADVANTAGE® sensors use a blind hole technique ensuring the load is applied at a precise location to provide an accurate reading, weighment after weighment.

RUGGED, LOW PROFILE DESIGN
Rated for 250,000+ load cycles under normal loading conditions,* these lift deck floor scales are built to last. With a deck height of only 4.2 inches and 100% end loading, Hardy Lift Deck Floor Scales feature a hydraulic system that enables one person to easily lift the deck for cleaning. Durable rubber-based feet are height adjustable from below the platform for easy leveling.

*Contact Hardy for more information

COMPONENTS TO COMPLETE YOUR HARDY SYSTEM:

Hardy Bench Scales, Floor Scales and Load Points

Hardy carries a wide variety of strain gauge load points and scale mounts to accommodate your application requirements.

ADVANTAGE Series with C2 Calibration

Bench & Floor Scales

Weighing Instruments Dedicated to Your Applications

Controllers, Weigh Modules, Weight Processors & Transmitters

Allen-Bradley® Compatible Plug-in Weigh Scale Modules

HI 3000 & HI 4000 Controllers and HI 6000 Series Weight Processors

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SPECIFICATIONS

Platform
- 0.25 inch thick smooth or safety tread deck

Height
- 4.2-4.4 inches (10.6 -11.2 cm) adjustable 0.2" or 5 mm

Accuracy
- Combined Error: 0.02%
- Repeatability: 0.01%

Overload Capacity
- 100% of rated scale capacity

End Loading
- 100% of rated scale capacity

Cable Length
- Platform to Instrument - 20 feet (for longer cable lengths, contact the Factory)

Construction
- Stainless Steel - Type 304

Duty Cycle
- +250,000 load cycles under normal loading conditions*

Load Sensor
- IP69K rating for washdown applications
- C2® or manual calibration
- Stainless Steel, hermetically sealed
- blind hole loading

Summing Card Enclosure
- NEMA 4x stainless steel

Power Rating
- 5 VDC, Class 2 source, max. 50 mA

Hardy 6011IT Summing Card
- 4 Individual load sensor terminal blocks with integrated cable glands
- INTEGRATED TECHNICIAN® circuitry
- For Class I and II, Division 1 Hazardous (Classified) Locations, and Class 1, Zone 0 and 2 Groups IIC, Zone 20 and 22 Groups IIIC , power must be supplied through intrinsically safe barriers per control drawing 0594-0010

Scale Excitation
- 5vdc +/-5%

Certifications
- UL, CUL, CE • RoHS and REACH Compliant Hazardous Areas: Class I, Division 1, Groups A, B,
- C, D, T4; Zone 0, Group IIC, T4; Division 2, Groups A, B, C, D, T5
- Class II, Division 1, Groups E, F, G, T4; Zone 20, Group IIIC; Division 2, Groups F, G, T5
- Class III, Division 1, T4; Division 2, T5

Warranty
- Two Years

STANDARD SIZES AND CAPACITIES

SIZE feet/cm	CAPACITY lb/kg	HEIGHT in/cm	SHIP WEIGHT lb/kg
3' x 3' / 91 x91	1000/454	4"/10.2 cm	290/131.5
	2000/907	4"/10.2 cm	290/131.5
	5000/2268	4"/10.2 cm	290/131.5
4' x 4' / 122 x 122	1000/454	4"/10.2 cm	440/199.6
	2000/907	4"/10.2 cm	440/199.6
	5000/2268	4"/10.2 cm	440/199.6
5' x 5' / 152 x 152	1000/454	4"/10.2 cm	695/315.2
	2000/907	4"/10.2 cm	695/315.2
	5000/2268	4"/10.2 cm	695/315.2

All sizes and capacities are available with either a smooth or tread deck.

ORDERING OPTIONS
- -S   Smooth Platform Top
- -T   Tread Plate Platform Top

HARDY LIFT DECK FLOOR SCALE ACCESSORIES

A complete line of
- Instrument Pedestals
- Ramps
- Pit Frames

enable you to easily configure a solution to meet your individual applications

Pit Frames
HI FSLDPF Series

Access Ramps
HI FSLDR Series

Instrument Pedestal
HIFSI-48-SS

Contact Hardy for further information

![Hardy Process Solutions logo]
HARDY PROCESS SOLUTIONS
Measurement ▪ Automation ▪ Productivity

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Since 1993

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Notes:

Proven Solutions

For more than 100 years Hardy Process Solutions, headquartered in San Diego, California, has been providing innovative process control solutions. With that, we have saved our customers thousands of production hours and millions of dollars. Our goal is to provide superior weighing equipment as an industrial scale company that stays on the pulse of innovations in the field. 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 process 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

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