

# Hardy HIBSX Bench Scales

## Applications

- **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.



## Electronic calibration without test weights



## HARDY Load Sensors

- **Stainless Steel or Aluminum**
- **True Hermetic Seal or Potted**
- **IP68/69K or IP67**

## Capacities from 10 lbs (5kg) to 1300 lbs (590 kg)

## Intrinsically Safe: FM IS, Class 1, Division 1 HIBSX 12-in

## Overload Protection

- **150% or 200% R.O.\* Overload**
- **100% R.O. Corner Loading**

(\*Rated Output)

*Hardy HIBSX Bench Scales are easy to clean, low-profile stainless steel washdown bench scales. The HIBSX series offers simplicity and robust performance for light duty industrial weighing applications. With an optimized internal 'X' design, the scales reduce the time required to sanitize them while still offering one of the lowest profiles in the industry.*

Made in the USA, all Hardy HIBSX Bench Scales come standard in 12"x12" and 24" x 24" sizes, ranging in capacity from 10 lbs – 1300 lbs (5 kg to 590 kg).

Hardy HIBSX Bench Scales come with RoHS compliant 304SS stainless steel hardware, frames and platters. Users of the 12 x 12-inch scale may choose between stainless steel hermetically sealed, IP68/69K, C2<sup>®</sup> load cells OR aluminum, environmentally sealed, IP67 C2<sup>®</sup> load cells, depending on their application. The low-profile 24 x 24-inch scales use four 304SS stainless steel (4) HIPBZ C2<sup>®</sup> load cells with an integrated junction box.

With all stainless steel construction and hazardous FM approval, the 12 x 12-inch HIBSX with a stainless steel load cell is built for wash down applications and hazardous environments. With an IP67 aluminum load cell, the HIBSX is designed for use in dry and dusty hazardous environments. The 24 x 24-inch features IP67 stainless steel, environmentally potted load cells that are suitable for light washdown. Each load cell is also FM approved and has a +/- 0.02% accuracy specification.

Hardy has built its C2<sup>®</sup> 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.



To ensure durability in industrial applications, Hardy has performed corner, overload and cycle testing to over 8 million cycles. In addition, Hardy performed overload testing of more than 200% rated output. The HIBSX series is ideal for manual checkweighing, piece portioning, counting, and adding minor ingredients (to a process or a batch).

Overload testing was performed on the HIBSX 24 x 24-inch with a capacity of 1300 lbs using three 1,000 lbs test weights. The scale was operational and tested accurate with test weights even after this grueling test.

## SPECIFICATIONS

### Common Specifications to All Scales

- 304 Stainless Steel frame and platter (all models)
- Size: 12x12" or 24x 24"
- Load Cell Error Specification < +/- 0.02%
- Weight: 12-in 22 lbs (9.98 kg) 24-in 48.8 lbs (22 kg)
- Cable Platform to Instrument: 12 x 12 - 10 ft (SS Models) or 6.5 ft. (AL Models) • 24 x 24 - 15 ft (4.6 m)

### Deck Height

- 12 x 12": SS: 2.95" (75 mm) adjustable
- 12 x 12": AL: 2.02" (51.3 mm) adjustable
- 24 x 24": PBZ 2.25" (57.2 mm) adjustable

### Capacity Range

- 12 x 12 SS Versions: 10 lbs to 165 lbs (5 to 75 kg)
- 12 x 12 AL Versions: 10 lbs to 100 lbs (5 to 45 kg)
- 24 x 24 PBZ Versions: 150 to 1300 lbs (68-590 kg)

### Rated Output

- Overload 12 x 12-inch: 200% R.O. with Stainless Steel HISP6 • 150% R.O. with Aluminum HISP22
- Overload 24 x 24-inch: 200% R.O. with Stainless Steel HIPBZ load cells (4)
- Corner loading: 100% R.O.

### Load Sensors

- 12 x 12 SS Versions: C2® stainless steel, hermetically sealed IP68/IP69K
- 12 x 12 AL Versions: C2® aluminum, environmentally potted, IP67
- 24 x 24 HIPBZ (4): C2® 304SS, environmentally potted, IP67, with integrated HI6011 Junction Box

### Warranty

- Two year limited warranty

### Approvals

- 12 x 12" with HISP6: FM IS Hazardous Class I, Div 1 Load Cells
- RoHS 3 and REACH Compliant

### Shipping Weight

- 12 x 12": 25 lbs (11 kg)
- 24 x 24" 52 lbs (24 kg)

## Hardy HIBSX Bench Scale Sizes and Capacities

12-Inch SS Versions	Capacity	Load Cell	Load Cell Material	Safe Load Limit
HIBSX-12SS-SS6-5KG	10 lbs/5 kg	HISP6-10	17-4PH SS	10 lbs
HIBSX-12SS-SS6-15KG	30 lbs/15 kg	HISP6-20	17-4PH SS	55 lbs
HIBSX-12SS-SS6-40KG	100 lbs/45kg	HISP6-50	17-4PH SS	187 lbs
HIBSX-12SS-SS6-75KG	165 lbs/75 kg	HISP6-100	17-4PH SS	319 lbs
12-inch AL Versions	Capacity	Load Cell	Load Cell Material	Safe Load Limit
HIBSX-12SS-AL22-5KG	10 lbs/5 kg	SPA22-10	2024 AL	10 lbs
HIBSX-12SS-AL22-15KG	30 lbs/15 kg	SPA22-20	2024 AL	38.5 lbs
HIBSX-12SS-AL22-25KG	50 lbs/25 kg	SPA22-30	2024 AL	71.5lbs
HIBSX-12SS-AL22-35KG	75 lbs/35 kg	SPA22-40	2024 AL	104.5 lbs
HIBSX-12SS-AL22-45KG	100 lbs/45 kg	SPA22-50	2024 AL	137.5 lbs
24-Inch SS Versions	Capacity	Load Cell	Load Cell Material	Safe Load Limit
HIBSX-24SS-PBZ-150LB	150 lbs/68 kg	HIPBZ-44LB-L1.25FT	304SS	300 lbs
HIBSX-24SS-PBZ-400LB	400 lbs/181 kg	HIPBZ-110LB-L1.25FT	304SS	800 lbs
HIBSX-24SS-PBZ-800LB	800 lbs/262 kg	HIPBZ-220LB-L1.25FT	304SS	1600 lbs
HIBSX-24SS-PBZ-1300LB	1300 lbs/590 kg	HIPBZ-440LB-L1.25FT	304SS	2600 lbs

Load Cell Specifications	HISP6	HISPA22	HIPBZ
Rated Output (ES)	2 ± 0.10mV/V	2 ± 10% mV/V	2 ± 10% mV/V
Non-Linearity	< ± 0.0166 % R.O.	< ± 0.0166 % R.O.	< ± 0.0166 % R.O.
Hysteresis	< ± 0.0166 % R.O.	< ± 0.0166 % R.O.	< ± 0.0166 % R.O.
Zero Balance	< ± 5.0 % R.O.	< ± 5.0 % R.O.	< ± 5.0 % R.O.
Combined Error	< ± 0.02 % R.O.	< ± 0.02 % R.O.	< ± 0.02 % R.O.
Creep @ 30 Min.	< ± 0.0166 % R.O.	< ± 0.0166 % R.O.	< ± 0.0166 % R.O.
Temp Effect Output	< ± 0.0112 % R.O./C	< ± 0.0233 % R.O./C	< ± 0.0233 % R.O./C
Temp Effect Sensitivity	< ± 0.010 % R.O./C	< ± 0.010 % R.O./C	< ± 0.010 % R.O./C
Input Resistance	1100 ± 50 ohm	413 ± 20 ohm	1100 ± 50 ohm
Output Resistance	960 ± 50 ohm	350 ± 25 ohm	1000 ± 2 ohm
Insulation Resistance	≥ 5000 Mohm	≥ 5000 Mohm	≥ 5000 Mohm
Excitation	5 - 15 vdc	5 - 15 vdc	5 - 15 vdc
Safe Load Limit	200 % Emax	150 % Emax	200% Emax
Safe Side Load	100 % Emax	100 % Emax	100% Emax
Hazardous	FM IS, Class 1, Div 1	N/A	N/A
Approvals	IP68/IP69K	IP67	IP67

## Inside the HIBSX 24-inch



The HIBSX 24 x 24 inch bench scale is designed with an extremely durable all stainless-steel 'X' construction with four planer beam load cells and an integrated HI6011 junction box. With a single platter, this provides an extremely low-profile form factor.



## Inside the HIBSX 12-inch



The HIBSX 12 x 12 inch bench scale is designed with a durable double-platter all stainless-steel 'X' construction with a single load cell

**HARDY**  
**PROCESS SOLUTIONS**  
 Measurement • Automation • Productivity

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