

**RoughDeck®**

HP•HP-H•SS•HE  
SERIES

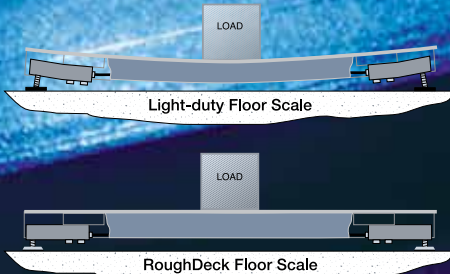
FLOOR SCALES



**INTEGRATED**  
**SCALE**  
**SYSTEMS**

# Why RoughDeck® is Simply the TOUGHEST, Most Accurate Floor Scale Available...

Before introducing our RoughDeck series, design engineers conducted a comprehensive floor scale testing program. They determined that two design factors—minimizing deck deflection and isolating load cells from extraneous forces—were key to low-profile scale accuracy and long life. As a result, the RoughDeck design concept provides outstanding strength



The exaggerated figure illustrates the problems of deck and load cell deflection. The RoughDeck design minimizes deflection of the deck and feet.

and component protection. The RoughDeck series has low-profile stationary and portable versions available and offers component interchangeability and alternative construction materials to meet specific industrial requirements, from basic shipping and receiving to highly corrosive or washdown environments.



# RoughDeck® ... IT DOESN'T

## ■ Superior Structural Design

Unlike most other scales, the RoughDeck utilizes a full 6" structural channel frame welded to a durable steel deck, providing exceptional rigidity under severe loading conditions (typical of fork lifts and pallet jacks). This design has proven so superior that the RoughDeck carries a full 5-year warranty on the deck structure. The cross sections shown compare the deck structure of the RoughDeck with other low-profile floor scales. The placement of underdeck supports on the RoughDeck minimizes deflection in all directions. Intermediate supports are added to prevent the top plate from "dishing" under heavy point loads.



Underside comparison



Light-duty

Light-duty

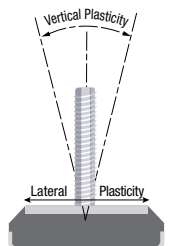
RoughDeck

## ■ Accuracy Requires a Specialized Foot

Many scales retain side loads and suffer from poor return to zero when bumped laterally. The slight plasticity flow of the SUREFOOT™ design eliminates such residual side loads and provides excellent return to zero.



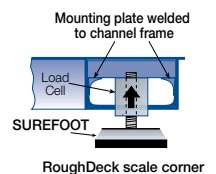
The RoughDeck was engineered to use a steel and neoprene sandwich design called SUREFOOT. A steel cup sits on the floor and is bonded by a pliable neoprene cushion to a steel top plate with attached threaded stem. This pliable sandwich allows the stem and top plate some plasticity to move laterally and tilt independently of the bottom steel cup. This allows the foot to accommodate small deflections and uneven floors.



## ■ Load Cell Mounting Plate and SUREFOOT

To minimize localized deflection of the load cell, the mounting plate is welded to the channel frame rather than the deck plate.

Adjustable SUREFOOT support feet incorporate stainless steel and neoprene. This unique combination decreases extraneous forces on the load cell, resulting in superior accuracy and repeatability.

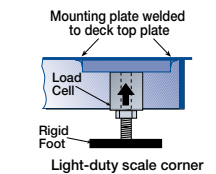


RoughDeck scale corner

## ■ Load Cell and Cable Protection

The unique channel structure of the RoughDeck provides enclosed protection for underdeck components so they can't be ripped out through rough handling use.

Load cells are recessed within the 6" channels, and conduit lies within the channels to ease pushing load cell cables through and deter rodent damage to the cables. A 20' length of hostile environment indicator cable is included to complete the installation.



Light-duty scale corner

## ■ TuffSeal Junction Box Protects Circuitry

The rugged TuffSeal® junction boxes are specifically designed to protect sensitive circuitry from damage caused by moisture. A stainless steel junction box is included with all models. Its unique closure design inhibits moisture ingress and a Gore™ breather vent helps equalize the pressure inside the enclosure which can be caused by sudden temperature or environmental changes.





# YOU CAN'T GET ANY TOUGHER THAN THIS.

## RoughDeck HP & HP-H High Accuracy, Heavy Capacity

► Non washdown environments

The RoughDeck HP's best-in-class features are enhanced to deliver more reliability and higher performance than ever before.

The RoughDeck HP's NEMA 4 aluminum TuffSeal junction box is protected from forks and industrial abuse by a 6" structural steel channel frame and diamond treadplate safety deck. The junction box is also mounted as a handy slide-out tray that eases setup and service access. Cables include sturdy cord grips or a quick disconnect for added convenience. In addition, all load cell cables are enclosed in conduit, alleviating danger of rough handling. All load cells are recessed within the channel for protection on all sides, while maintaining easy access for leveling. What's more, the RoughDeck HP is backed by an all-inclusive 5-year limited warranty!

Available in 1000 to 30,000 lb capacities, the RoughDeck HP is the industry leader for precision weighing in Legal-for-Trade applications.

### Heavy-Capacity Model

The HP-H model offers the exact superior structural design of the HP model, but with added capacity for the most demanding applications.



Both HP and HP-H have a slide-out junction box for quick access and superior protection from moisture and dirt.



Measurement Canada Approved



The RoughDeck design has proven so superior that it carries a 5-year limited warranty.



## RoughDeck SS Stainless Steel, Corrosion Resistant

► Corrosive dry chemical environments



Measurement Canada Approved

The RoughDeck SS floor scale is designed specifically for Legal-for-Trade applications requiring the added corrosion protection of stainless steel. Applications include dry chemical operations, fertilizer plants and other industries which require non-washdown corrosion resistance.

A rigid 6", 304 stainless steel channel frame and smooth top plate provide a durable scale deck. For added corrosion resistance, four NTEP-certified stainless steel load cells and surefeet, a stainless steel TuffSeal summing junction box and EL147HE hostile environment load cell cable complete the RoughDeck SS package.

The channel frame provides added protection by enclosing the load cells, cable and junction box inside, away from chemicals and other industrial elements.



The SS features an internal junction box slide-out assembly.

## RoughDeck HE Stainless Steel, Washdown Design

► Harsh chemical or washdown environments



The RoughDeck HE is a hostile environment, stainless steel floor scale designed specifically for corrosion resistance and long life in demanding washdown applications. Design features include a 6", 304 stainless steel channel frame and smooth top plate. The RoughDeck HE comes standard with four stainless steel, IP67 welded seal, shear beam load cells, four stainless steel surefeet, a stainless steel NEMA 4X TuffSeal summing junction box and EL147HE hostile environment load cell cable.

The stainless steel channel frame provides added protection by enclosing load cell cable and load cells, yet provides easy access for installation and service. The NEMA 4X summing TuffSeal junction box can be remotely mounted up to 10' from the scale, keeping sensitive electronic connections away from moisture and chemicals.



The HE features a remote junction box with cable.

## HP·HP-H·SS·HE SERIES FLOOR SCALES

### Installation Options Add Versatility...

- Indicator floor stand
- Digital weight indicators
- Anchor plates
- Pit frame
- Access ramps
- Bumper guards
- Forklift bumper guards

All installation options are available in mild or stainless steel.



### RoughDeck HP

#### Specifications

**End Load Capacity:**  
1,000lbs: 200% full scale  
2,000 & 5,000lbs: 100% full scale  
10,000lbs: 80% full scale

**Approvals:**  
NTEP-certified, CC# 92-001  
Class III, 5000d, Measurement Canada Approved, AM-4827, HC Series

#### Dimension/Capacities

Size (W x L x H)	Capacity	Est. Ship WT
2.5' x 2.5' x 3.5"	2000lb/1000kg	173lb
3' x 3' x 3.5"	1000lb/500kg	232lb
3' x 3' x 3.5"	2000lb/1000kg	232lb
3' x 3' x 3.5"	5000lb/2500kg	232lb
4' x 4' x 3.5"	1000lb/500kg	375lb
4' x 4' x 3.5"	2000lb/1000kg	375lb
4' x 4' x 3.5"	5000lb/2500kg	375lb
4' x 4' x 3.5"	10,000lb/5000kg	375lb
4' x 5' x 3.5"	5000lb/2500kg	437lb
4' x 5' x 3.5"	10,000lb/5000kg	567lb
4' x 6' x 3.5"	5000 lb/2500kg	510lb
4' x 6' x 3.5"	10,000lb/5000kg	656lb
5' x 5' x 3.5"	5000lb/2500kg	541lb
5' x 5' x 3.5"	10,000lb/5000kg	696lb
5' x 6' x 3.5"	5000lb/2500kg	646lb
5' x 6' x 3.5"	10,000lb/5000kg	821lb
5' x 7' x 3.5"	5000lb/2500kg	734lb
5' x 7' x 3.5"	10,000lb/5000kg	929lb

### RoughDeck SS

#### Specifications

**End Load Capacity:**  
1,000lbs: 200% full scale  
2,000 & 5,000lbs: 100% full scale  
10,000lbs: 80% full scale

**Approvals:**  
NTEP-certified, CC #92-001  
Class III 5000d Measurement Canada Approved, AM-4827, HCSS Series

#### Dimension/Capacities

Size (W x L x H)	Capacity	Est. Ship WT
2.5' x 2.5' x 3.5"	2000lb/1000kg	173lb
3' x 3' x 3.5"	1000lb/500kg	232lb
3' x 3' x 3.5"	2000lb/1000kg	232lb
4' x 4' x 3.5"	1000lb/500kg	375lb
4' x 4' x 3.5"	5000lb/2500kg	375lb
4' x 4' x 3.5"	10,000lb/5000kg	490lb
4' x 5' x 3.5"	5000lb/2500kg	437lb
4' x 5' x 3.5"	10,000lb/5000kg	567lb
5' x 5' x 3.5"	5000lb/2500kg	541lb
5' x 5' x 3.5"	10,000lb/5000kg	696lb
5' x 7' x 3.5"	10,000lb/5000kg	929lb

### RoughDeck® Standard Features/Options

#### Approvals:

NTEP-certified, Class III 5000 divisions  
Measurement Canada Approved

#### Load Cells:

Factory Mutual-approved  
Alloy steel, nickel-plated  
Stainless steel  
Stainless steel, welded seal  
Stainless steel hermetically sealed

#### Construction:

Mild steel  
304 stainless steel

#### Deck:

Mild steel diamond treadplate  
Smooth stainless steel  
Stainless steel diamond treadplate

#### Junction Box:

Integral, side-entry NEMA 4X stainless steel TuffSeal  
Remote NEMA 4X stainless steel TuffSeal  
Top access

#### Miscellaneous:

4 adjustable stainless steel SUREFOOT™ support feet  
mV/V output: 1.50-1.87 mV/V nominal  
20' EL147HE Hostile Environment Load Cell Cable  
Threaded eyebolt holes  
Custom sizes  
Top access foot adjustment holes  
Epoxy paint

	HP	HP-H	SS	HE
Approvals:	•	•	•	•
Load Cells:	•	•	•	•
Construction:	•	•	•	•
Deck:	•	•	•	•
Junction Box:	•	•	•	•
Miscellaneous:	•	•	•	•
Std with or without Quick-Connect			•	•
	•	•	•	•
	Opt	Opt	Opt	•
	Opt	Opt	Opt	Opt
	•	•	•	•
	Opt	Opt	Opt	Opt
	Opt	Opt	Opt	Opt
	Opt	Opt		
			Consult Factory	

### RoughDeck HP-H

#### Specifications

**End Load Capacity:**  
20,000lbs: 100% full scale  
30,000lbs: 66% full scale

#### Approvals:

NTEP-certified, CC# 92-001  
Class III, 5000d, Measurement Canada Approved, AM-5284 (Only capacities greater than 10,000 kg)

#### Dimension/Capacities

Size (W x L x H)	Capacity	Est. Ship WT
4' x 4' x 4"	20,000lb/10,000kg	601lb
4' x 4' x 5"	30,000lb/15,000kg	675lb
4' x 5' x 4"	20,000lb/10,000kg	775lb
4' x 5' x 5"	30,000lb/15,000kg	839lb
4' x 6' x 4"	20,000lb/10,000kg	926lb
4' x 6' x 5"	30,000lb/15,000kg	1071lb
4' x 7' x 4"	20,000lb/10,000kg	1135lb
4' x 7' x 5"	30,000lb/15,000kg	1200lb
5' x 5' x 4"	20,000lb/10,000kg	926lb
5' x 5' x 5"	30,000lb/15,000kg	1021lb
5' x 6' x 4"	20,000lb/10,000kg	1104lb
5' x 7' x 4"	20,000lb/10,000kg	1377lb
5' x 7' x 5"	30,000lb/15,000kg	1448lb
6' x 6' x 4"	20,000lb/10,000kg	1319lb
6' x 6' x 5"	30,000lb/15,000kg	1438lb
6' x 8' x 4"	20,000lb/10,000kg	1861lb
7' x 9' x 4"	20,000lb/10,000kg	2408lb
7' x 10' x 4"	20,000lb/10,000kg	2959lb
7' x 10' x 5"	30,000lb/15,000kg	3372lb
8' x 10' x 4"	20,000lb/10,000kg	3108lb
8' x 10' x 5"	30,000lb/15,000kg	3699lb

### RoughDeck HE

#### Specifications

**End Load Capacity:**  
2,000 & 5,000lbs: 100% full scale  
10,000lbs: 80% full scale

#### Approvals:

NTEP-certified, CC# 92-001  
Class III 5000d

#### Dimension/Capacities

Size (W x L x H)	Capacity	Est. Ship WT
2.5' x 2.5' x 3.5"	2000lb/1000kg	173lb
3' x 3' x 3.5"	1000lb/500kg	232lb
4' x 4' x 3.5"	5000lb/2500kg	375lb
4' x 4' x 3.5"	10,000lb/5000kg	490lb
4' x 5' x 3.5"	5000lb/2500kg	437lb
4' x 5' x 3.5"	10,000lb/5000kg	567lb
5' x 5' x 3.5"	5000lb/2500kg	541lb
5' x 5' x 3.5"	10,000lb/5000kg	696lb
5' x 7' x 3.5"	10,000lb/5000kg	929lb

Integrated Scale Systems is here for all of your laboratory and industrial needs. With 20+ years of experience under our belts, we strive to provide the best solutions tailored to your individual needs.

Give us a call.



Integrated Scale Systems  
20 Kulick Road  
Fairfield, NJ 07004 • United States  
TEL: (888) 893-1010  
FAX: (973) 808-5055

integratedscale.com