

# RoughDeck™

F l o o r S c a l e s



**RoughDeck™**

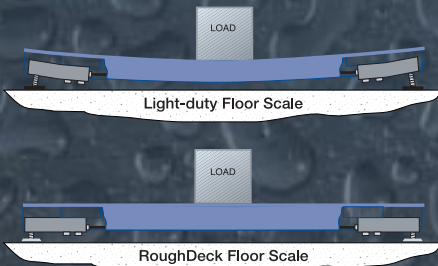
**RoughDeck™**

**RICE LAKE WEIGHING SYSTEMS**

Industrial Solutions on a Global Scale®

# 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.

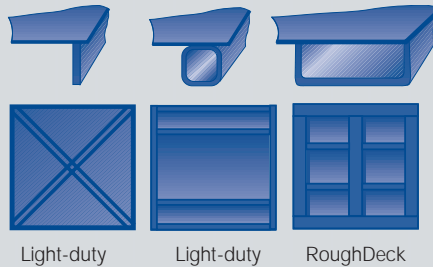


The exaggerated figure above illustrates the problems of deck and load cell deflection. The RoughDeck design minimizes deflection of the deck and feet.

As a result, the RoughDeck design concept provides outstanding strength and component protection. Offered in four low-profile and three special-duty versions, the RoughDeck series offers component interchangeability and different construction materials to meet specific industrial requirements, from basic shipping and receiving to highly corrosive or washdown environments.

## ► Superior Structural Design

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



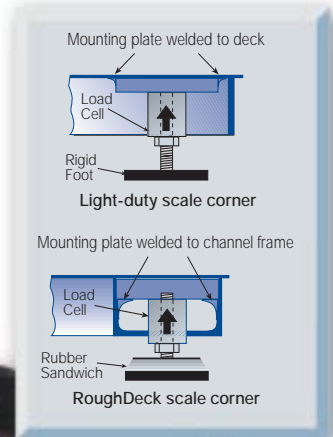
carries a full five-year warranty on the deck structure. The cross sections shown compare the deck structure of the RoughDeck with other low-profile floor scales. The placement of underdeck supports on the RoughDeck minimizes deflection

in all directions. Intermediate supports are added to prevent the top plate from "dishing" under heavy point loads. These design features are lacking in many other low-profile scales.

## ► Load Cell Mounting Plate and SUREFOOT™

In order to minimize localized deflection of the load cell, the mounting plate is attached to the channel frame rather than the deck plate.

Adjustable SUREFOOT™ support feet incorporate a neoprene and steel sandwich design. This unique combination decreases extraneous forces on the load cell, providing superior accuracy and repeatability.

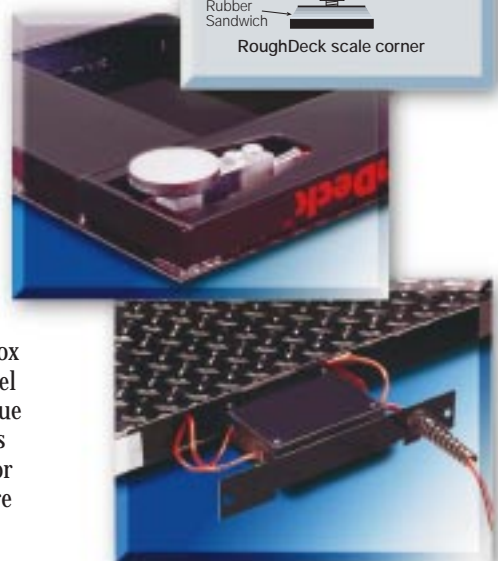


## ► Load Cell and Cable Protection

Load cells and cable are recessed within the 6" channels, providing protection on all sides.

## ► Easy Junction Box Accessibility

On low-profile models, the load cell summing card is fully enclosed in a junction box fastened directly to a steel slide-out tray. This unique slide-out design provides quick access and superior protection from moisture and dirt.



# FROM BASIC TO BRUTE... A ROUGHDECK FOR EVERY APPLICATION.



## HP High Accuracy, Legal-for-Trade

RoughDeck™ HP is NTEP-certified "legal-for-trade" for use in high-accuracy weighing. Certified for 5000 divisions, Class III use, RoughDeck HP features complete mild steel construction, a diamond treadplate safety deck, NTEP-certified tool steel load cells, and a complete junction box assembly.


The HP is perfect for applications in demanding industrial environments where high accuracy is required.



HP Series:  
CC# 92-001A4  
n<sub>max</sub> = 5000  
Class III



Legal-for-Trade  
AM-4827  
HC Series

 Scales featuring this symbol are comprised of an intrinsically safe load cell configuration that is FM Approved for use in hazardous locations per Rice Lake Weighing Systems' control drawing file number 33949.

## SS Stainless Steel, Corrosion Resistant

Also NTEP-certified for 5000 divisions, Class III use, the RoughDeck™ SS is built for dry corrosive, dry chemical and all other industries that require additional corrosion protection.

We utilize a rigid 6" 304 stainless steel channel frame and smooth top plate for the SS version. For added corrosion resistance, stainless steel load cells and hardware, a stainless steel summing junction box and our EL147HE Hostile Environment load cell cable complete the RoughDeck SS package.



HP Series:  
CC# 92-001A4  
n<sub>max</sub> = 5000  
Class III



Legal-for-Trade  
AM-4827  
HC Series

## HE Stainless Steel, Washdown Design

RoughDeck™ HE is our hostile environment stainless steel floor scale designed specifically for corrosion resistance and long life in demanding washdown and wet corrosive applications.

The HE utilizes a 304 stainless steel weighbridge, hermetically-sealed stainless steel load cells, stainless steel hardware, a stainless steel NEMA 4X summing junction box and EL147HE Hostile Environment load cell cable. The NEMA 4X junction box can be remotely mounted up to 10' from the scale, keeping sensitive electronic connections away from moisture and chemicals.



HP Series:  
CC# 92-001A4  
n<sub>max</sub> = 5000  
Class III



## FXB Severe Duty, Flexure Lever Scale

With a unique flexure lever design, the RoughDeck™ FXB handles abusive conditions such as shock-loading, end-loading, corner-loading, or extreme motion, and does it with NTEP Class III, 5000 division accuracy. With no moving parts in the base, the FXB uses thin high-strength flexures. These spring steel flexures combine with heavy-duty levers to transfer load forces to a single S-beam load cell recessed into the frame for protection. The FXB design provides ease in calibration and no corner adjustment, minimizing installation time.

Custom sizes to 30,000 lb and stainless steel models are available. Pit installation kits are available in both steel and stainless steel.



FXB:  
CC# 95-062  
n<sub>max</sub> = 5000  
Class III



## QC Quick Clean Stainless Steel Floor Scale

Ideal for food processing and other applications requiring frequent washdown, the RoughDeck™ QC provides easy underdeck cleaning



by using two gas shock lifting cylinders to raise the top of the scale.

In fact, it's as easy to lift as a hatchback on a car. Once the deck is raised, a manual safety bar can be positioned and the underdeck area can be thoroughly washed out.

The RoughDeck QC features a rugged washdown design, including 304 stainless steel construction and four stainless steel hermetically-sealed shear beam load cells.



HP Series:  
CC# 92-001A4  
n<sub>max</sub> = 5000  
Class III



## DeckHand

The DeckHand™ portable floor scale features two large rubber wheels for easy one-person operation. The DeckHand's wheels only touch the floor when the unit is tilted back for movement, providing a stable weighing platform even on uneven floors. Two opposed off center load cells provide superior accuracy without the need for leveling feet.



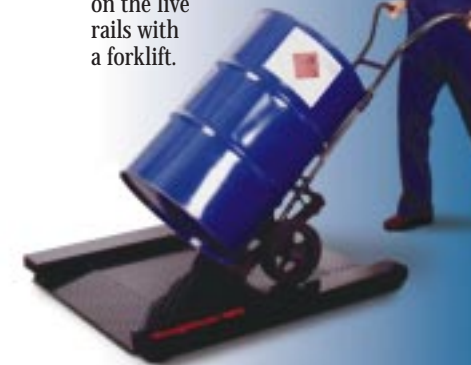
Indicator sold separately.



CC# 98-004  
n<sub>max</sub> = 2500  
Class III

## BPS

The versatile RoughDeck™ BPS barrel scale doubles as a pallet scale with its 3.5" high live rails. Pallets and wider items up to 1,000 lb can be loaded on the live rails with a forklift.



### Installation options add versatility...

- Indicator Floor Stand
- Anchor Plates
- Access Ramps
- Pit Frame: Forms a shallow pit with convenient junction box access. Acts as a form for pouring concrete.

All installation options are available in mild or stainless steel.



# FROM BASIC TO BRUTE.

ROUGHDECK  
FLOOR SCALES  
OUTCLASS  
EVERYTHING  
IN THEIR  
CLASS.



RoughDeck™ Features/Options	HP	SS	HE	QC
NTEP-certified, Class III 5000 divisions	Standard	Standard	Standard	Standard
Canadian Weights & Measures certified AM-4827	Standard	Standard	N/A	N/A
Factory Mutual-approved load cells	Standard	Standard	Standard	N/A
Factory Mutual-approved stainless steel load cells	Optional	Standard	Optional	N/A
Factory Mutual-approved hermetically-sealed stainless steel load cells	Optional	Optional	Standard	N/A
NTEP-certified tool steel shear beam load cells	Standard	N/A	N/A	N/A
NTEP-certified stainless steel shear beam load cells	Optional	Standard	N/A	N/A
NTEP-certified stainless steel hermetically-sealed shear beam load cells	Optional	Optional	Standard	Standard
Mild steel construction	Standard	N/A	N/A	N/A
304 stainless steel construction	N/A	Standard	Standard	Standard
Mild steel diamond treadplate safety deck	Standard	N/A	N/A	N/A
Smooth stainless steel deck	N/A	Standard	Standard	N/A
Stainless steel diamond treadplate safety deck	N/A	Consult Factory	Consult Factory	Standard
4 adjustable steel SUREFOOT™ support feet	Standard	Standard	Standard	Standard
Side-entry integral junction box	Standard	Standard	N/A	N/A
Side-entry integral EL604STA stainless steel NEMA 4X junction box	Optional	Standard	N/A	N/A
Remote EL604STA stainless steel NEMA 4X junction box	Optional	Optional	Standard	Standard
20' EL147HE Hostile Environment Load Cell Cable	Standard	Standard	Standard	Standard
Threaded eyebolt holes	Standard	Standard	Standard	N/A
Sensortronics/RTI tool steel load cells	Optional	Optional	Optional	N/A
Sensortronics/RTI stainless steel load cells	Optional	Optional	Optional	N/A
Sensortronics/RTI hermetically-sealed load cells	Optional	Optional	Optional	Optional
Custom sizes	Optional	Optional	Optional	N/A
4 drilled deck holes	Optional	Optional	Optional	N/A
Epoxy paint	Optional	N/A	N/A	N/A
Safety bar	N/A	N/A	N/A	Standard

RoughDeck™ FXB Features/Options	
NTEP-certified, Class III 5000 divisions	Standard
FM-approved load cells	Standard
Rugged, all-steel construction	Standard
Unique spring steel flexure design	Standard
One nickel-plated tool steel S-beam load cell	Standard
Custom sizes	Optional
304 Stainless steel construction	Optional

RoughDeck™ BPS Features/Options	
Easy-access integral live ramps	Standard
1,000 lb capacity	Standard
FM-approved load cells	Optional
Stainless steel model with stainless steel NEMA 4X junction box, load cells and SUREFOOT™ support feet	Available
Stainless steel HE model with hermetically-sealed load cells for harsh washdown environments	Available
Portable model with wheel assemblies and integral indicator stand; mild or stainless steel construction	Available

DeckHand™ Features/Options	
Mild steel or stainless wheeled frame, base, and indicator stand	Standard
Indicator mount with integral handles	Standard
NTEP-certified, Class III 2500 divisions	Standard
Clam shell for 1260 load cell, stainless steel	Optional
Ramp Assembly	Optional

# SPECIFICATIONS & DIMENSIONS

## RoughDeck HP, SS, HE, QC

### RoughDeck HP, SS, HE, QC

**End Load Capacity**  
100% full scale

**mV/V Output**  
1.50 – 1.87 mV/V nominal

**Cable Length**  
20 ft (6.1m)

**Height**  
HP, SS, HE:  
3.25 in (82.6mm) minimum  
QC: 3.5 in (88.9mm)

**Warranty**  
5-year limited warranty

### RoughDeck HP, SS, HE, QC

Size	Capacity
2.5' x 2.5'	2000 lb
3' x 3'	2000 lb
4' x 4'	5000 lb
4' x 4'	10,000 lb
4' x 5'	5000 lb
4' x 5'	10,000 lb
4' x 6'	5000 lb
4' x 6'	10,000 lb
5' x 5'	5000 lb
5' x 5'	10,000 lb
5' x 6'	5000 lb
5' x 6'	10,000 lb
5' x 7'	5000 lb
5' x 7'	10,000 lb

### RoughDeck HP-H Heavy Capacity Floor Scales

Size	Capacity	Size	Capacity
4' x 4'	20,000 lb	5' x 7'	30,000 lb
4' x 4'	30,000 lb	6' x 6'	20,000 lb
4' x 5'	20,000 lb	6' x 6'	30,000 lb
4' x 5'	30,000 lb	6' x 7'	20,000 lb
4' x 6'	20,000 lb	6' x 7'	30,000 lb
4' x 6'	30,000 lb	6' x 8'	20,000 lb
4' x 7'	20,000 lb	6' x 8'	30,000 lb
4' x 7'	30,000 lb	7' x 9'	20,000 lb
5' x 5'	20,000 lb	7' x 9'	30,000 lb
5' x 5'	30,000 lb	7' x 10'	20,000 lb
5' x 6'	20,000 lb	7' x 10'	30,000 lb
5' x 6'	30,000 lb	8' x 10'	20,000 lb
5' x 7'	20,000 lb	8' x 10'	30,000 lb

(Available in mild steel only)

### Pit Frames & Access Ramps

Pit Frame (W x L)	Access Ramp (W x L x H)
2.5' x 2.5'	2.5' x 3' x 3.5"
3' x 3'	3' x 3' x 3.5"
4' x 4'	4' x 3' x 3.5"
4' x 5'	5' x 3' x 3.5"
4' x 6'	2.5' x 4' x 3.5"
4' x 7'	3' x 4' x 3.5"
5' x 5'	4' x 4' x 3.5"
5' x 6'	5' x 4' x 3.5"
5' x 7'	4' x 4' x 4"
6' x 6'	5' x 4' x 4"
6' x 7'	6' x 4' x 4"
6' x 8'	7' x 4' x 4"
7' x 9'	8' x 4' x 4"
7' x 10'	4' x 5' x 5"
8' x 10'	5' x 5' x 5"
	6' x 5' x 5"
	7' x 5' x 5"
	8' x 5' x 5"



Custom sizes available for HP, SS and HE models.

## RoughDeck FXB

**End Load Capacity**  
100% of scale capacity

**Safe Overload Capacity**  
150% of scale capacity

**Rated Excitation**  
10 VDC - 15 VDC max

**Nonlinearity**  
.03% FS

**Hysteresis**  
.02% FS

**Bridge Resistance**  
350 ohms

**mV/V Output**  
3.0 mV/V

**Cable Length**  
20 ft (6.1m)

**Warranty**  
2-year limited warranty

FXB Bases	Capacity	Size (W x L x H)
FXB-1824-.5K	500 lb	18" x 24" x 6.13"
FXB-1824-1K	1000 lb	18" x 24" x 6.13"
FXB-1830-.5K	500 lb	18" x 30" x 6.13"
FXB-1830-1K	1000 lb	18" x 30" x 6.13"
FXB-1830-1.5K	1500 lb	18" x 30" x 6.13"
FXB-2424-.5K	500 lb	24" x 24" x 6.13"
FXB-2424-1K	1000 lb	24" x 24" x 6.13"
FXB-3030-.5K	500 lb	30" x 30" x 6.13"
FXB-3030-1K	1000 lb	30" x 30" x 6.13"
FXB-3030-1.5K	1500 lb	30" x 30" x 6.13"
FXB-3030-2K	2000 lb	30" x 30" x 6.13"
FXB-3636-1K	1000 lb	36" x 36" x 8.25"
FXB-3636-2K	2000 lb	36" x 36" x 8.25"
FXB-3636-5K	5000 lb	36" x 36" x 8.25"
FXB-3846-1K	1000 lb	38" x 46" x 8.25"
FXB-3846-2K	2000 lb	38" x 46" x 8.25"
FXB-3846-5K	5000 lb	38" x 46" x 8.25"
FXB-3846-10K	10,000 lb	38" x 46" x 9.25"
FXB-4848-1K	1000 lb	48" x 48" x 8.25"
FXB-4848-2K	2000 lb	48" x 48" x 8.25"
FXB-4848-5K	5000 lb	48" x 48" x 8.25"
FXB-4848-7K	7000 lb	48" x 48" x 9.25"
FXB-4848-10K	10,000 lb	48" x 48" x 9.25"
FXB-4848-20K	20,000 lb	48" x 48" x 13.25"
FXB-4860-2K	2000 lb	48" x 60" x 8.25"
FXB-4860-5K	5000 lb	48" x 60" x 8.25"

FXB Bases	Capacity	Size (W x L x H)
FXB-4860-10K	10,000 lb	48" x 60" x 9.25"
FXB-4860-20K	20,000 lb	48" x 60" x 13.25"
FXB-4872-2K	2000 lb	48" x 72" x 8.25"
FXB-4872-5K	5000 lb	48" x 72" x 9.25"
FXB-4872-10K	10,000 lb	48" x 72" x 9.25"
FXB-4872-20K	20,000 lb	48" x 72" x 13.25"
FXB-6060-2K	2000 lb	60" x 60" x 8.25"
FXB-6060-5K	5000 lb	60" x 60" x 8.25"
FXB-6060-10K	10,000 lb	60" x 60" x 9.25"
FXB-6060-20K	20,000 lb	60" x 60" x 13.25"
FXB-6072-5K	5000 lb	60" x 72" x 10.25"
FXB-6072-10K	10,000 lb	60" x 72" x 10.25"
FXB-6072-20K	20,000 lb	60" x 72" x 13.25"
FXB-6084-5K	5000 lb	60" x 84" x 10.25"
FXB-6084-10K	10,000 lb	60" x 84" x 13.25"
FXB-6084-20K	20,000 lb	60" x 84" x 14.25"
FXB-7296-5K	5000 lb	72" x 96" x 13.25"
FXB-7296-10K	10,000 lb	72" x 96" x 13.25"
FXB-7296-20K	20,000 lb	72" x 96" x 15.25"
FXB-84108-5K	5000 lb	84" x 108" x 13.25"
FXB-84108-10K	10,000 lb	84" x 108" x 15.25"
FXB-84108-20K	20,000 lb	84" x 108" x 15.25"
FXB-96120-10K	10,000 lb	96" x 120" x 15.25"
FXB-96120-20K	20,000 lb	96" x 120" x 17.25"
FXB-96120-30K	30,000 lb	96" x 120" x 19.25"

† NTEP Certified, CC# 95-062, Class III 50000d



## RoughDeck BPS

**Full Scale Capacity**  
1000 lb (500 kg)

**End Load Capacity**  
100% full scale

**Load Cell Capacity**  
1000 lb (500 kg)

**Rated Excitation**  
10VDC - 15VDC max

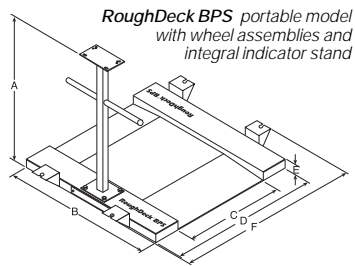
**Bridge Resistance**  
4 350-ohm load cells

**mV/V Output**  
0.75 mV/V

**Cable Length**  
20 ft (6.1m)

**Shipping Weight**  
Stationary: 180 lb (81.6 kg)  
Portable: 215 lb (97.6 kg)

**Warranty**  
1-year limited warranty



A=39.5 in  
B=42.25 in  
C=30 in  
D=40 in  
E=3.5 in  
F=48 in  
Deck Height = 1.5 in



## DeckHand

**Capacity**  
500 lb, 1000 lb, 2000 lb

**End Load Capacity**  
100% full scale

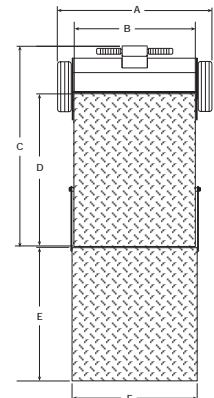
**mV/V Output**  
2 mV/V

**Cable Length**  
9' 10" (3 m)

**Height**  
Weighing platter:  
4.5 in (114.3mm) H  
when in weigh mode

**Column Height**  
59" (1499 mm)

**Warranty**  
1-year limited warranty



DeckHand shown above with optional ramp (E & F)



CC# 98-004  
N<sub>max</sub> = 2500  
Class III

Your Rice Lake Weighing Systems Distributor is:

**RICE LAKE WEIGHING SYSTEMS**

Industrial Solutions on a Global Scale®

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