

RoughDeck™

F l o o r S c a l e s



RoughDeck™

RoughDeck™

RICE LAKE WEIGHING SYSTEMS

Industrial Solutions on a Global Scale®

FROM BASIC TO BRUTE,

ROUGHDECK
FLOOR SCALES
OUTCLASS
EVERYTHING
IN THEIR
CLASS.



RoughDeck™ Features/Options	HP	SS	HE	QC	SD
Approvals:					
NTEP-certified, Class III 5000 divisions	Std	Std	Std	Std	Std
Measurement Canada Approved	Std	Std	N/A	N/A	N/A
Load Cells:					
Factory Mutual-approved	Std	Std	Std	Std	Std
Factory Mutual-approved, stainless steel	Opt	Std	Std	Std	Std
Factory Mutual-approved hermetically-sealed, stainless steel	Opt	Opt	Std	Std	Std
Construction:					
Mild steel	Std	N/A	N/A	N/A	N/A
304 stainless steel	N/A	Std	Std	Std	Std
Deck:					
Mild steel diamond treadplate	Std	N/A	N/A	N/A	N/A
Smooth stainless steel	N/A	Std	Std	N/A	N/A
Stainless steel diamond treadplate	N/A	Consult Factory	Consult Factory	Std	N/A
FDA approved polyethylene top material	N/A	N/A	N/A	N/A	Std
Junction Box:					
Integral, side-entry	Std	Std	N/A	N/A	N/A
Integral, side-entry EL604STA stainless steel NEMA 4X	Opt	Std	N/A	N/A	N/A
Remote EL604STA stainless steel NEMA 4X	Opt	Opt	Std	Std	Std
Miscellaneous:					
4 adjustable stainless steel SUREFOOT™ support feet	Std	Std	Std	Std	Std
20' EL147HE Hostile Environment Load Cell Cable	Std	Std	Std	Std	Std
Threaded eyebolt holes	Std	Std	Std	Std	N/A
Custom sizes	Opt	Opt	Opt	Opt	Opt
4 drilled deck holes	Opt	Opt	Opt	N/A	N/A
Epoxy paint	Opt	N/A	N/A	N/A	N/A
Safety bar	N/A	N/A	N/A	Std	N/A

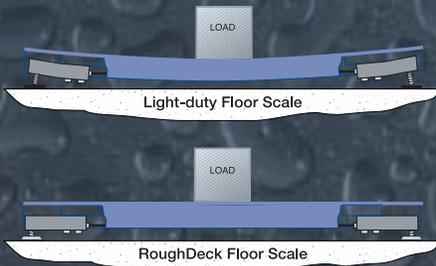
RoughDeck™ FXB Features/Options	
NTEP-certified, Class III 5000 divisions	Standard
FM-approved load cells	Standard
Rugged, all-steel construction	Standard
Unique spring steel flexure design	Standard
One nickel-plated tool steel S-beam load cell	Standard
Custom sizes	Optional
304 Stainless steel construction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

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.

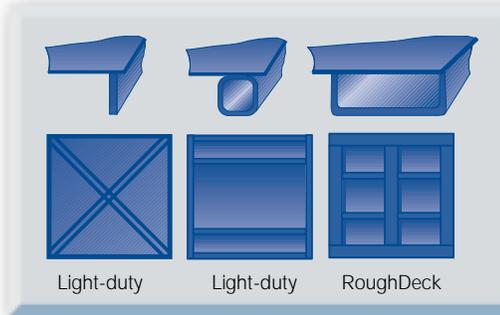


The exaggerated figure above illustrates the problems of deck and load cell deflection. The RoughDeck design minimizes deflection of the deck and feet.

As a result, the RoughDeck design concept provides outstanding strength and component protection. Offered in five 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.



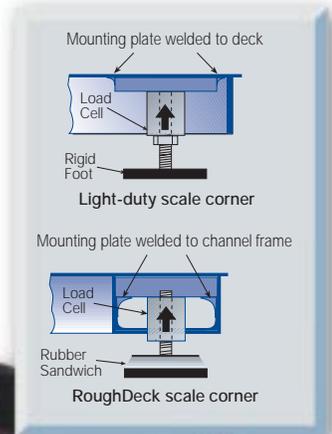
The placement of underdeck supports on the RoughDeck minimizes deflection

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.

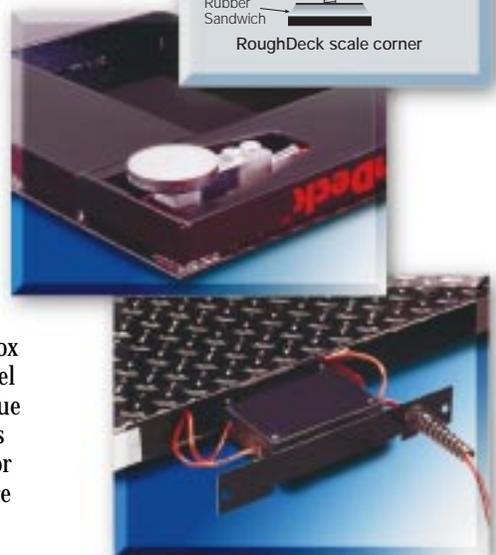


► Load Cell and Cable Protection

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# 92-001A5
n_{max} = 5000
Class III



Legal-for-Trade
AM-4827
HC Series



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# 92-001A5
n_{max} = 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# 92-001A5
n_{max} = 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 rugged design incorporates 304 stainless steel construction, four stainless steel hermetically-sealed shear beam load cells with Teflon® cable, and a remote stainless steel NEMA 4X junction box.



HP Series:
CC# 92-001A5
n_{max} = 5000
Class III



SD

Sanitary Deck Floor Scale

An easy-to-lift polyethylene top plate on the RoughDeck™ SD provides an efficient mechanism for busy cleanup personnel. Ideal for food processing and other applications requiring frequent washdown, the RoughDeck SD provides easy underdeck cleaning by lifting the plastic top to gain access to the stainless steel understructure.

The RoughDeck SD features a rugged design, including 304 stainless steel construction, four stainless steel hermetically-sealed shear beam load cells, and a remote stainless steel NEMA 4X junction box.



HP Series:
CC# 92-001A5
n_{max} = 5000
Class III



FXB

Severe Duty, Flexure Lever Scale

With a unique flexure lever design, the RoughDeck™ FXB is suitable for 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.



FXB:
CC# 95-062
n_{max} = 5000
Class III



DeckHand

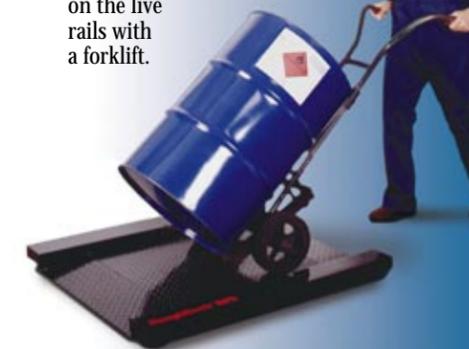
The DeckHand™ portable floor scale features two large rubber wheels for easy one-person operation. The DeckHand's wheels only touch the floor when the unit is tilted back for movement, providing a stable weighing platform even on uneven floors. Two opposed off-center load cells provide superior accuracy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



CC# 98-004
n_{max} = 2500
Class III

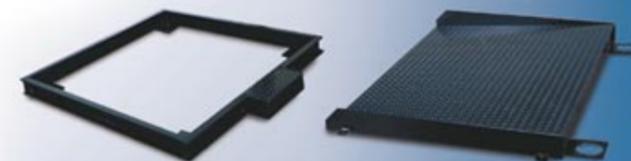
BPS

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.



 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.

Teflon is a registered trademark of E. I. DuPont.

SPECIFICATIONS & DIMENSIONS

RoughDeck HP, SS, HE, QC, SD

	RoughDeck HP		RoughDeck HP-H		RoughDeck SS		RoughDeck QC & SD		Pit Frames & Access Ramps	
	Size	Capacity	Size	Capacity	Size	Capacity	Size	Capacity	Pit Frame (W x L)	Access Ramp (W x L x H)
End Load Capacity 100% full scale	2.5' x 2.5'	2000 lb	4' x 4'	20,000 lb	2.5' x 2.5'	2000 lb	2.5' x 2.5'	2000 lb	2.5' x 2.5'	2.5' x 3' x 3.5"
mV/V Output 1.50 – 1.87 mV/V nominal	3' x 3'	500 lb	4' x 4'	30,000 lb	3' x 3'	500 lb	3' x 3'	2000 lb	3' x 3'	3' x 3' x 3.5"
Cable Length 20 ft (6.1m)	3' x 3'	1000 lb	4' x 5'	20,000 lb	3' x 3'	1000 lb	4' x 4'	2000 lb	4' x 4'	4' x 3' x 3.5"
Height HP, SS, HE: 3.25 in (82.6mm) minimum QC: 3.5 in (88.9mm)	4' x 4'	1000 lb	4' x 6'	20,000 lb	4' x 4'	1000 lb	4' x 5'	2000 lb	4' x 5'	5' x 3' x 3.5"
Warranty 5-year limited warranty	4' x 4'	5000 lb	4' x 6'	30,000 lb	4' x 4'	5000 lb	4' x 5'	5000 lb	4' x 6'	2.5' x 4' x 3.5"
	4' x 5'	10,000 lb	4' x 7'	20,000 lb	4' x 4'	10,000 lb	4' x 5'	10,000 lb	4' x 7'	3' x 4' x 3.5"
	4' x 5'	5000 lb	4' x 7'	30,000 lb	4' x 5'	5000 lb	4' x 6'	2000 lb	4' x 6'	4' x 4' x 3.5"
	4' x 5'	10,000 lb	5' x 5'	20,000 lb	4' x 5'	10,000 lb	4' x 6'	5000 lb	4' x 6'	5' x 4' x 3.5"
	4' x 6'	5000 lb	5' x 5'	30,000 lb	5' x 5'	5000 lb	4' x 6'	10,000 lb	5' x 7'	4' x 4' x 4"
	4' x 6'	10,000 lb	5' x 7'	20,000 lb	5' x 5'	10,000 lb	5' x 5'	2000 lb	6' x 6'	5' x 4' x 4"
	5' x 5'	5000 lb	5' x 7'	30,000 lb	5' x 7'	10,000 lb	5' x 5'	5000 lb	6' x 7'	6' x 4' x 4"
	5' x 5'	10,000 lb	6' x 6'	20,000 lb	4' x 5'	5000 lb	5' x 5'	10,000 lb	6' x 8'	7' x 4' x 4"
	5' x 6'	5000 lb	6' x 6'	30,000 lb	4' x 5'	10,000 lb	5' x 7'	2000 lb	7' x 9'	8' x 4' x 4"
	5' x 6'	10,000 lb	6' x 8'	20,000 lb	4' x 4'	10,000 lb	5' x 7'	5000 lb	7' x 10'	4' x 5' x 5"
	5' x 7'	5000 lb	7' x 9'	20,000 lb	4' x 5'	5000 lb	5' x 7'	10,000 lb	8' x 10'	5' x 5' x 5"
	5' x 7'	10,000 lb	7' x 10'	20,000 lb	4' x 5'	10,000 lb				6' x 5' x 5"
			7' x 10'	30,000 lb	4' x 5'	10,000 lb				7' x 5' x 5"
			8' x 10'	20,000 lb	5' x 5'	5000 lb				8' x 5' x 5"
			8' x 10'	30,000 lb	5' x 5'	10,000 lb				



HP Series:
CC# 92-001A5
n_{max} = 5000
Class III

(Available in mild steel only)

Custom sizes available for HP, SS and HE models.



HP Series:
CC# 92-001A5
n_{max} = 5000
Class III

RoughDeck HE

RoughDeck HE

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
5' x 5'	5000 lb
5' x 5'	10,000 lb
5' x 7'	10,000 lb

	FXB Bases	Capacity	Size (W x L x H)
End Load Capacity 100% of scale capacity	FXB-1824-5K	500 lb	18" x 24" x 6.62"
Safe Overload Capacity 150% of scale capacity	FXB-1824-1K	1000 lb	18" x 24" x 6.62"
Rated Excitation 10 VDC - 15 VDC max	FXB-1830-1K	1000 lb	18" x 30" x 6.62"
Nonlinearity .03% FS	FXB-2424-5K	500 lb	24" x 24" x 6.62"
Hysteresis .02% FS	FXB-2424-1K	1000 lb	24" x 24" x 6.62"
Bridge Resistance 350 ohms	FXB-3030-5K	500 lb	30" x 30" x 6.62"
mV/V Output 3.0 mV/V	FXB-3030-1K	1000 lb	30" x 30" x 6.62"
Cable Length 20 ft (6.1m)	FXB-3030-1.5K	1500 lb	30" x 30" x 6.62"
Warranty 2-year limited warranty	FXB-3030-2K	2000 lb	30" x 30" x 6.62"
	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-4848-2K	2000 lb	48" x 48" x 8.25"
	FXB-4848-5K	5000 lb	48" x 48" x 8.25"
	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-4860-5K	5000 lb	48" x 60" x 8.25"
	FXB-4860-10K	10,000 lb	48" x 60" x 9.25"

FXB Bases	Capacity	Size (W x L x H)
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-6060-5K	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-6072-10K	10,000 lb	60" x 72" 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-7296-10K	10,000 lb	72" x 96" x 13.25"
FXB-7296-20K	20,000 lb	72" x 96" x 15.25"
FXB-84108-20K	20,000 lb	84" x 108" x 15.25"
FXB-96120-30K	30,000 lb	96" x 120" x 19.25"



FXB:
CC# 95-062
n_{max} = 5000
Class III

† NTEP Certified, CC# 95-062, Class III 5000d

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

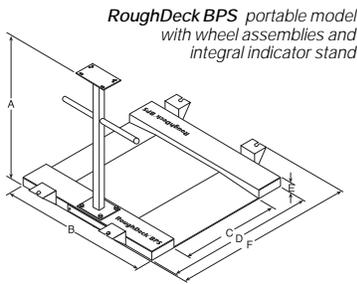
Bridge Resistance
4 350-ohm load cells

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

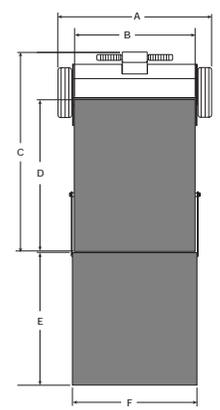
mV/V Output
2 mV/V

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_{max} = 2500
Class III

Your Rice Lake Weighing Systems Distributor is:

RICE LAKE WEIGHING SYSTEMS
Industrial Solutions on a Global Scale®



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