

BCS

High Resolution Digital Crane Scale



User Instructions

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1 General Information and Warnings

1.1 About this Manual

This manual is divided into chapters by the chapter number and the large text at the top of a page. Subsections are labeled as shown by the 1 and 1.1 headings shown above. The names of the chapter and the next subsection level appear at the top of alternating pages of the manual to remind you of where you are in the manual. The manual name and page numbers appear at the bottom of the pages.

1.1.1 Text Conventions

Key names are shown in **bold** and reflect the case of the key being described. This applies to hard keys and onscreen or soft keys.

Displayed messages appear in **bold italic** type and reflect the case of the displayed message.

1.1.2 Special Messages

Examples of special messages you will see in this manual are defined below. The signal words have specific meanings to alert you to additional information or the relative level of hazard.

CAUTION!

This is a Caution symbol. Cautions give information about procedures that, if not observed, could result in damage to equipment or corruption to and loss of data.



NOTE: This is a Note symbol. Notes give additional and important information, hints and tips that help you to use your product.



CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

ATTENTION: Il y a danger d'explosion s'il y a remplacement incorrect de la batterie, remplacer uniquement avec une batterie du même type ou d'un type équivalent recommandé par le constructeur. Mettre au rebut les batteries usagées conformément aux instructions du fabricant.

1.3 Safety Guide

For the best performance and precise measurement

- Do NOT overload the scale. This will damage the loadcell and void the warranty.
- Do NOT leave a load on the scale when not in use. This will decrease the scale's accuracy and shorten the loadcell life.
- Inspect the shackle and hook before using. Check clips, pins and screws regularly.
- Check the battery frequently. When the scale display flashes, charge the battery with its dedicated charger.
- Rotate the load rather than the scale if binding occurs.
- DO NOT use the scale during thunder storms
- Hang scale while in storage in dry and well-ventilated room. Do NOT place the scale directly on the ground.
- Do NOT attempt to repair the scale yourself. Contact your local representative.

1.4 Routine Maintenance



IMPORTANT: This equipment must be routinely checked for proper operation and calibration.

Application and usage will determine the frequency of calibration required for safe operation.

Do not attempt to operate or complete any procedure on a machine unless you have received the appropriate training.

To avoid the risk of RSI (Repetitive Strain Injury), place the machine on a surface which is ergonomically satisfactory to the user. Take frequent breaks during prolonged usage.

1.6 Sharp Objects

Do not use sharp objects such as screwdrivers or long fingernails to operate the keys.

1.7 FCC and EMC Declarations of Compliance

This is a Class B device.

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		Declaration of			ätserklärung
CE	Verk	laring van Overee		Dichiarazione o	
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Туре	BCS-3000, BCS-5000	Туре	Brecknell BCS-1000, BCS-3000, BCS-5000	Туре	Brecknell BCS-1000, BCS-3000, BCS-5000
Serial No.		Serienummer	Vanaf 101400001	Numéro de série	A partir de 101400001
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EMC Directive	-	EMC Richtlijn		Directive CEM	
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The applicable harmonised		Toegepaste geharmoniseerde		Les normes harmonisées app	
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2 Introduction

2.1 Features

This scale is a combination of sound and proven mechanical design, using the most advanced electronics and provides a superb feature set. It is versatile, reliable, accurate and easy to operate.

- Superb Quality Chinese GB/T11883-2002 national standards.
- Exceptional Safety The aluminum-cast case, secure hook and shackle, provide for safe installation and use.
- Reliability Cutting-edge technology with quality integrated circuitry insure high performance and long time stability.
- Easy to Use Operation via local keypad or infrared remote control.
- Complete Functionality Resolution switch, unit conversion, auto power-off, battery inspection, etc.

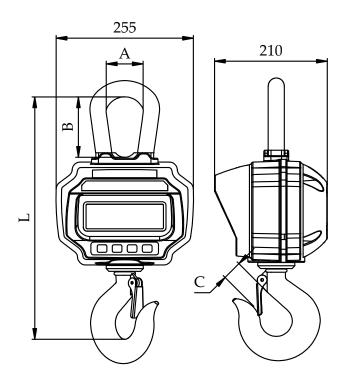
2.2 Specifications

Accuracy Class	Chinese GB/T 11883-2002 Class III
Tare Range	100% F.S.
Zero Range	4% F.S.
Stable Time	≤10sec
Overload	100% F.S. + 9e
Safety Load	150% F.S.
Ultimate Load	400% F.S.
Battery	6V/4.0Ah lead acid rechargeable battery
Charger	100~250VAC 50/60Hz input 7.2VDC/1000mA output
Display	35mm (1.4inch) LED module
Operating Temp.	-10°C ~ +40°C
Operating Humidity	20°C ≤90%

2.3 Capacity

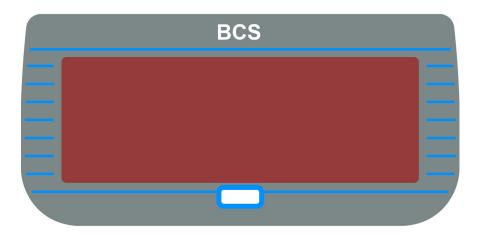
Model	Maximum Capacity	Minimum Capacity	Resolution	Division
BCS-1000	1,000kg (2,000 lb)	10kg (20 lb)	0.5kg (1 lb)	2,000
BCS-3000	3,000kg (6,000 lb)	20kg (40 lb)	1kg (2 lb)	3,000
BCS-5000	5,000kg (10,000 lb)	40kg (80 lb)	2kg (5 lb)	2,500

2.4 Dimensions and Weight



Model	Α	В	С	L	Net Weight
BCS-1000	68mm (2.67")	112mm (4.41")	40mm (1.60")	420mm (16.54")	11.0kg (24.25 lb)
BCS-3000	68mm (2.67")	112mm (4.41")	40mm (1.60")	420mm (16.54")	11.0kg (24.25 lb)
BCS-5000	68mm (2.67")	112mm (4.41")	45mm (1.77")	450mm (17.71")	12.5kg (27.56 lb)

2.5.1 Faceplate

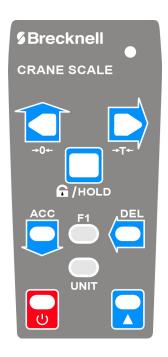


2.5.2 Scale Keys



Keys	Key Name	Function
ON/OFF	On/Off	Press 1s to power on/off scale Return to weighing mode
→O← ZERO	Zero	Manual Zero Increase flashing digit
→ T ← TARE	Tare	Tare in/out Right scroll flashing digit
HOLD	Hold	Lock/unlock reading Confirm

2.5.3 Remote Keys



Keys	Key Name	Function
	Zero	Same as
	Tare	Same as
	Hold	Same as
	Accumulate	Accumulate weight Decrease flashing digit
	Delete	Delete last weight Clear all weight Left scroll flashing digit
F	F1	View Input decimal point
UNIT	Unit	Unit switching
U	Off	Press 1s to power off Return to weighing mode
	2nd	2nd function.

2.5.4 Display Annunciators

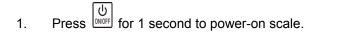
Annunciator	Name	Note
STB.	Stable	lit when weight is stable
ZERO	Zero	lit when weight is at zero
TARE	Tared	lit when scale is tared
HOLD	Hold	lit when scale weight is locked
lb	lb	lit when unit is lb
kg	kg	lit when unit is kg

2.5.5 Displayed Messages

Message	Description	Note
	detect weight	
?	in Idle Mode	
Setup	SETUP	User Setup Menu
Bat??	BATtery	battery life percentage
P0000	Password	in Password Mode
end	END	save and exit
off	OFF	power off
over	OVERload	overloading
2nd	2ND	2nd function
err	ERRor	invalid operation
acc	ACCumulate	accumulate weight
del	DELete	delete last weight
<i>Clr</i>	CLeaR	delete all weight

3 Operation

3.1 Power On/Off

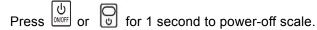


Scale performs initialization and power-on test, ***** shows twice. Next the display shows the capacity, battery life percentage, weight detection, and then auto zero.



2.

NOTE: For information about Auto-Zero, refer to Scale Configuration in Technical Manual.



Battery life percentage *bat90* is displayed, off message *loff* is displayed, and then the power turns off.

3.2 Zero

Press 200 or 10 to zero. The ZERO light will turn on.

If load is in motion, tared, or out of Manual-Zero Range, |*err*| is displayed.



NOTE: For information about Manual-Zero Range, refer to Scale Configuration in Technical Manual.

3.3 Tare In/Out

1. In gross mode, press $\stackrel{+}{\square}$ or $\stackrel{-}{\square}$ to tare in. TARE light will turn on.

If load is in motion, negative value, or out of Tare Range; |*err*| is displayed.



NOTE: Tare will reduce the apparent overload range of scale. For example, if a 5000*2kg scale has a 1000kg container as its tare, the scale will overload at a new weight of 4018kg (5000 - 1000 + additional 9 divisions).

2. In net mode, press \overrightarrow{TARE} or \overrightarrow{D} to tare out. TARE light will turn off.

3.4 Lock / Unlock

3.5

3.6

	1.	Press 🛍 or 🗖 to lock screen. HOLD light will turn on.
	2.	Press 🔟 or 🔲 to unlock screen. HOLD light will turn off.
Accumu	late	
	Pres	s 🔍 to accumulate current weight.
		[acc] is displayed, indicating weight is accumulated. Scale uses displayed weight, so gross or net weight is added into the same accumulator.
		If load is in motion, or negative, or does not return to zero before, err is displayed.
View		
	4	

1. Press \prod to enter View mode.

Display flashes accumulated weight.

- 2. Press \bigcirc or \bigcirc to view high 5-digit or low 5-digit.
- 3. Press \bigcirc or \bigcirc to exit View mode.

3.7 Delete Last Weight

Press Did to delete last accumulated weight.

[*del***]** is displayed, indicating last accumulated weight is deleted. The Delete function will only delete the last weight.

If last accumulated weight has been deleted, |err| is displayed.

Press \bigcirc first and then press \bigcirc to clear all accumulated weight.

[clr] is displayed, indicating all weight is cleared.

3.9 Unit Switching

Press \bigcirc to switch unit in between kg, lb, and User Unit.

When unit is kg, kg LED light on. When unit is lb, lb LED light on. When unit is User Unit, kg and lb all lights are off.



NOTE: For more information about User Unit, refer to Scale Configuration in Technical Manual.

4 User Menu

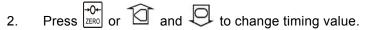
4.1 Access User Setup Menu

Press by first and then press or to enter User Setup menu. **Setup** is displayed.

4.2 Parameters

4.2.1 Auto-Off Timing

1. Press or to enter Auto-Off Timing. *off??* is displayed.



Auto-Off Timing can be set to: 0(disabled), 5(5min), 10(10min), 15(15min), 30(30min), 60(60min). It is disabled by default.



NOTE: Auto-Off function maximizes scale's battery life. Auto-Off starts countdown timer when there's no action or load is stable. Any key pressing or motion in load restarts countdown timer.

4.2.2 Display Brightness

- 1. Press or to enter Display Brightness. **br**|**?** is displayed.
- 2. Press $\frac{10^{-1}}{200}$ or 10^{-1} and 10^{-1} to change brightness value.

Display Brightness can be set to:1(dim), 2(normal), 3(bright).



NOTE: Dim LED brightness saves battery power dramatically.

- 1. Press or to enter Idle Mode Timing. *idl??* is displayed.
- 2. Press $\overrightarrow{\mathbb{Z}}$ or $\overrightarrow{\mathbb{Q}}$ and $\overrightarrow{\mathbb{Q}}$ to change timing value.

Idle Mode Timing can be set to: 0(disabled), 5(5sec), 10(10sec), 15(15sec), 30(30sec), 60 (60sec). It is 30sec by default.

To maximize battery life, scale automatically enters Idle Mode, when there's no action or the load is stable. In Idle Mode, scale works in lowpower consumption status. Any key pressing or motion in load wakes up scale from Idle Mode.

3. Press \bigcirc or \bigcirc to exit User Setup.

5 Loading Procedures

The following drawings illustrate how to load and how not to load the crane scale.

5.1 Correct Loading

Use hardware that creates single point attachments. Refer to Figure 5.1.

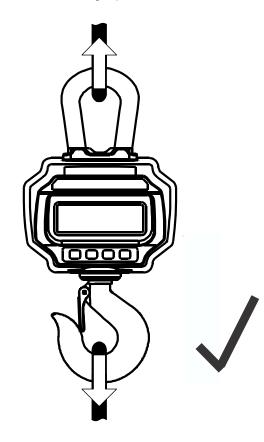


Figure 5.1 Correct Crane Scale Loading

The following drawings demonstrate incorrect crane scale loading.

• DO NOT attach oversized interface! Refer to Figure 5.2.

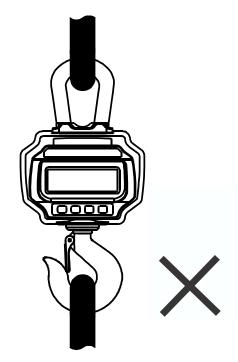


Figure 5.2 Oversized Interface Attachment

• DO NOT push/pull on loaded scale or directly on hook! Refer to Figure 5.3

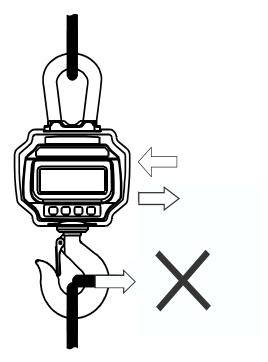


Figure 5.3 Side Stress on Hook

• DO NOT use multiple attachments! Refer to Figure 5.4.

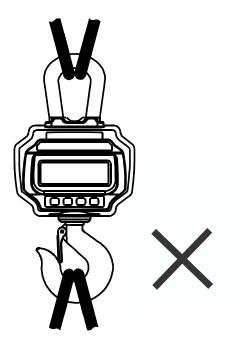


Figure 5.4 Multiple Attachments

6 Maintenance and Troubleshooting

6.1 Battery Maintenance

To maximize battery life, please note the following battery maintenance guide.

- This scale is powered by a 6V4.0Ah rechargeable lead-acid battery.
- The battery is permanently fixed inside battery housing.
- Depending on LED brightness and idle mode settings, the battery works from 60 hours to 200 hours.
- In order to conserve battery life, enable Auto-Off and Idle Mode, dim LED brightness.
- Charging time for a completely discharged battery is approximately 12 hours.
- To obtain maximum service life, battery should be stored between -20° (-4°F) and +50° (122°F). Stored batteries should be recharged every three months.
- While charging, the red LED indicates charging in progress, while the green LED indicates fully charged.

6.2 Troubleshooting

Refer to the table below for possible symptoms and solutions. If problems still exist, please contact your local representative.

Symptom	Possible Cause	Suggested Solution
will not power-on after On/Off is pressed	discharged / defective battery	check battery and charge
	defective On/Off key	press harder and keep pressing 2s
	defective power cable	open front panel, check power cable
	defective mainboard	contact representative
display flashes	discharged battery	charge battery
no action taken after key pressed	defective key	contact representative
weight reading not stable	load in motion	keep load stable
	weak Anti-Motion	change Anti-Motion level
	damp loadcell or mainboard	dry loadcell or mainboard
	defective mainboard	contact representative
weight reading not zero when no load	discharged battery	charge battery
	loadcell stressed too long	hang scale in storage
	discharged battery	charge battery

Symptom	Possible Cause	Suggested Solution
large error in weight reading	scale not zeroed before applying load	manual Zero scale before loading
	wrong weigh unit	switch to correct unit
	scale requires calibration	calibrate scale
	defective loadcell or mainboard	contact representative
battery can not be recharged	defective charger board	contact representative
	defective battery	contact representative
short remote control distance	discharged / defective remote battery	replace remote control batteries



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