

LHS SERIES

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2.0 INTRODUCTION

2.1 INTRODUCTION

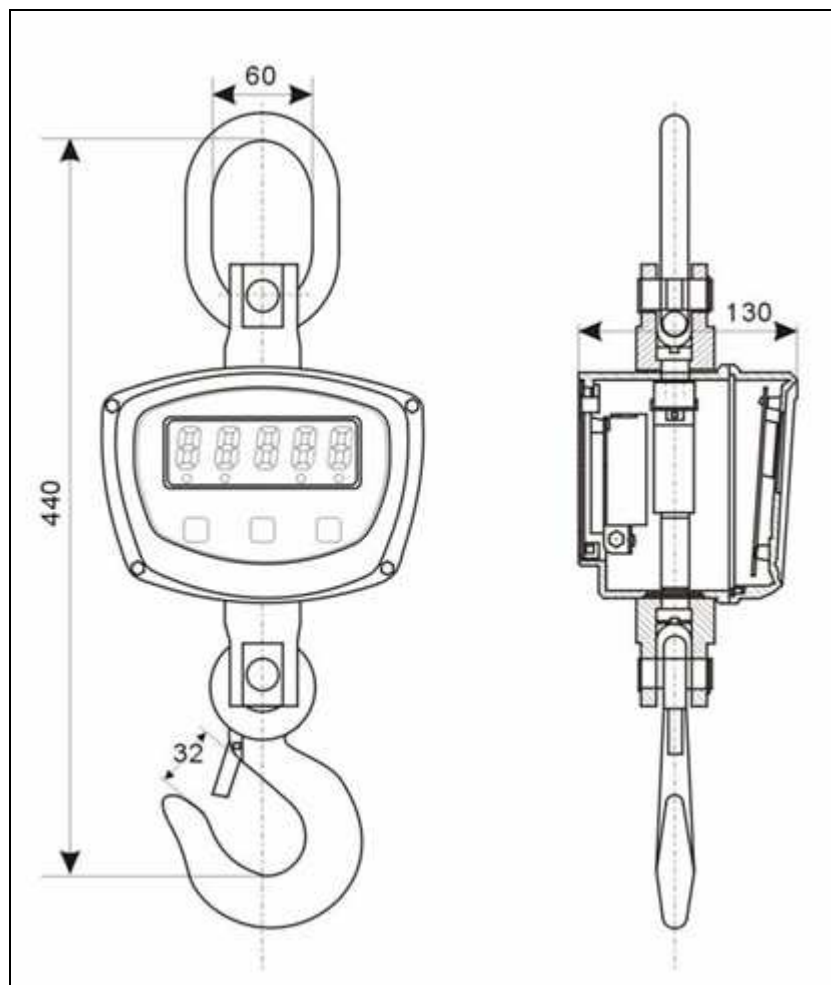
The LHS Series is a range of heavy-duty lower capacity crane scales

The main features include:

- Easy Operation & Rugged construction
- 25mm bright red LED display enabling a good viewing angle.
- 360 degree rotary safety hook and support ring design
- Overload safety up to 150% of model capacity
- Selectable weighing units include kg, Lbs and Newtons
- Hold feature
- Internal rechargeable battery fitted as standard
- Auto power off after 30 minutes of non use
- 6Vdc 600ma battery charger
- Strong Die cast Aluminium housing
- Infrared remote control

2.2 TECHNICAL SPECIFICATIONS

Model No.	Capacity	Division
LHS-500	500kg	0.1kg
LHS-1500	1500kg	0.2kg
LHS-2000	2000kg	0.5kg



2.3 SAFETY NOTICE

The limit stated below is the Ultimate Overload Limits of the scales.

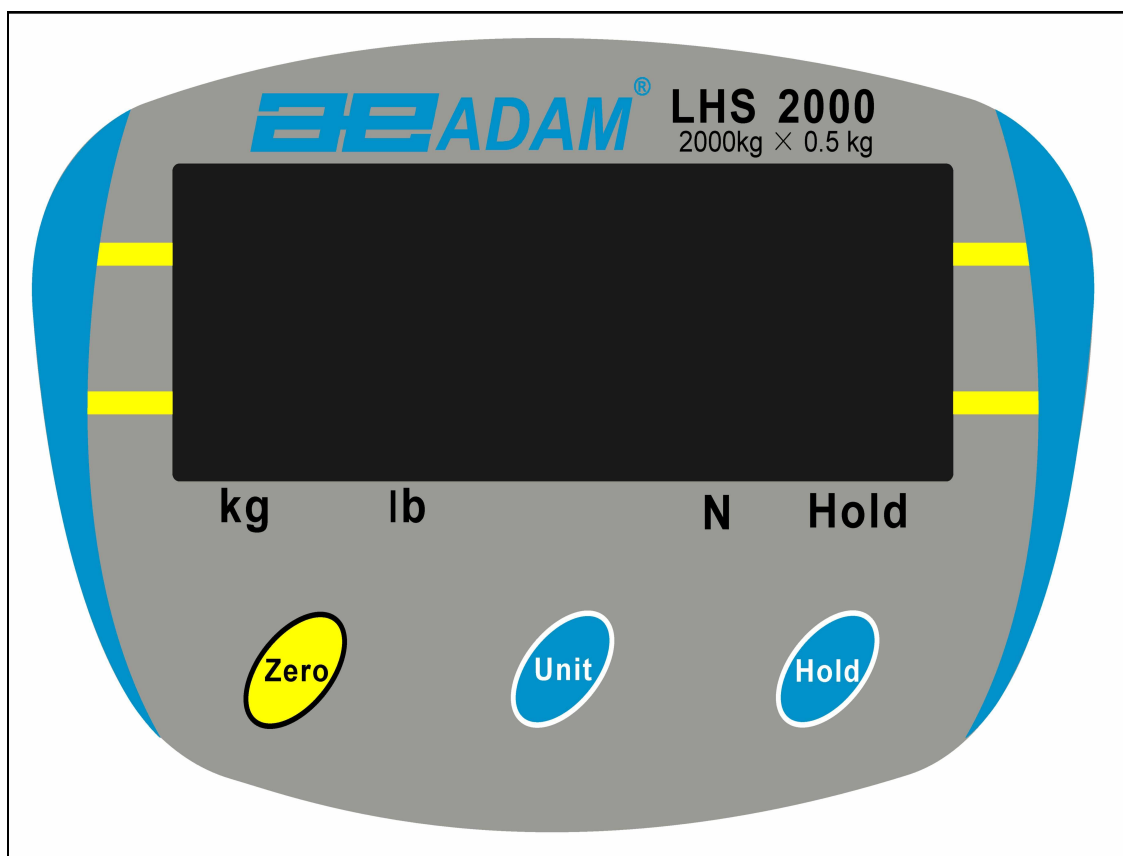
Adam Equipment Co. Ltd. Its directors, owners and affiliated companies and organisations cannot be held liable for any resulting damage or injury sustained as a result of the machines being used in excess of their stated capacities or ultimate overload limits.

Model No.	LHS 500	LHS 1500	LHS 2000
Max capacity	500kg	1500kg	2000kg
Overload capacity	750kg	2000kg	2500kg

NOTICE:

Do not use the scales if any parts are bent or loose or show signs of damage or wear. Refer to the user manual.

2.4 KEY AND PANEL DESCRIPTION



[ON/OFF]	The power switch is located on the rear housing. Use this key to turn the scale ON and OFF.
[ZERO]	Press the [ZERO] key to return the reading to zero.
[UNIT]	Press the [UNIT] key to change the weighing unit being displayed. Kg, Lbs and Newtons are available.
[HOLD]	Use this key to hold the display. When pressed an LED will light at the top left side of the display and the reading on the display will lock and flash. Press the [HOLD] key again to cancel the [HOLD] function.

2.5 DISPLAY INDICATIONS WITH LED

Kg lb N	The LED will light up in the weighing unit that is being used to indicate when the weight is stable.
Hold	Hold Indicator

3.0 OPERATION

3.1 SAFETY INSTRUCTIONS

Read this manual carefully before you operate the SHS Crane Scale.

- Unpack the Crane Scale carefully from the packaging.
- Attach it to your hoist or equivalent existing equipment securely at the ground level to the support ring in the upright position. Make sure that the equipment to which the scale is attached is in proper condition. The operator should be trained for its safe operation.
- Carry out regular visual inspection for any damage or wear and tear on parts. The split pins in particular at the hook and eyebolts, as well as the inner wall of the hook and all joints should be checked regularly. If any damage or wear has taken place, stop using the scale and replace the parts.
- Do all inspection and maintenance work when the scale is not in use.
- Do not expose the scale to extreme temperatures. The operating temperature range is 0° C to 40° C.
- Secure the sample to be weighed in the hook of the scale. Ensure that the sprung Safety Lever returns to its resting position which prevents the sample from slipping out of the hook.
- Do not exceed the maximum capacity of the Scale .
- Clean and protect your scale after use.

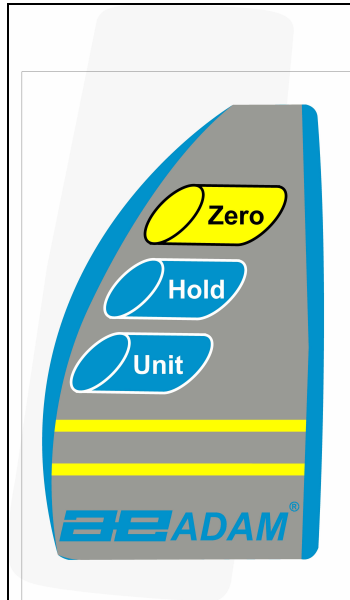
Overload Warning

Please do not add any item that exceeds the maximum capacity of the scale. When the display shows "-----" remove the item to avoid damage to the load cell and scale.

3.2 BATTERY OPERATION

- The rechargeable battery will operate continuously for between 20 and 30 hours before requiring recharging.
- To charge the battery, plug the charger unit into the socket as marked on the rear of the scale. Plug the charger into the mains power supply and wait until the LED on the charger shows green. The battery is now fully charged.
- Charging time for a completely discharged battery is approximately 16 hours. A full battery pack is recommended to keep the scale continuously operational.
- Only use the charger as supplied with the unit.
- The scale will automatically power down after 30 minutes of non use to further protect the battery.
- To replace the battery, turn the locking screw on the battery cover 90 degrees clockwise and lift open the cover. Disconnect and remove the old battery and replace with a new one.
- Contact your dealer for a replacement battery.

3.3 REMOTE CONTROL UNIT



The remote control works via infra red and can be used to operate the SHS from long distances. It operates using 2 x AAA batteries and these can be exchanged by unclipping a cover on the rear of the remote control unit.

3.4 USER PARAMETERS

Five USER settable parameters are available on the SHS, to access these power up the scale and whilst the display is counting down press and then release the [UNIT] button. The display will show 00000. Use the [HOLD] and [UNIT] buttons to enter the code 11111 and then press [ZERO]. bEE 1 will now be displayed which is the first of the parameters. Press the [HOLD] button to change the setting, and the [ZERO] button to move to the next setting.

PARAMETER SETTING TABLE

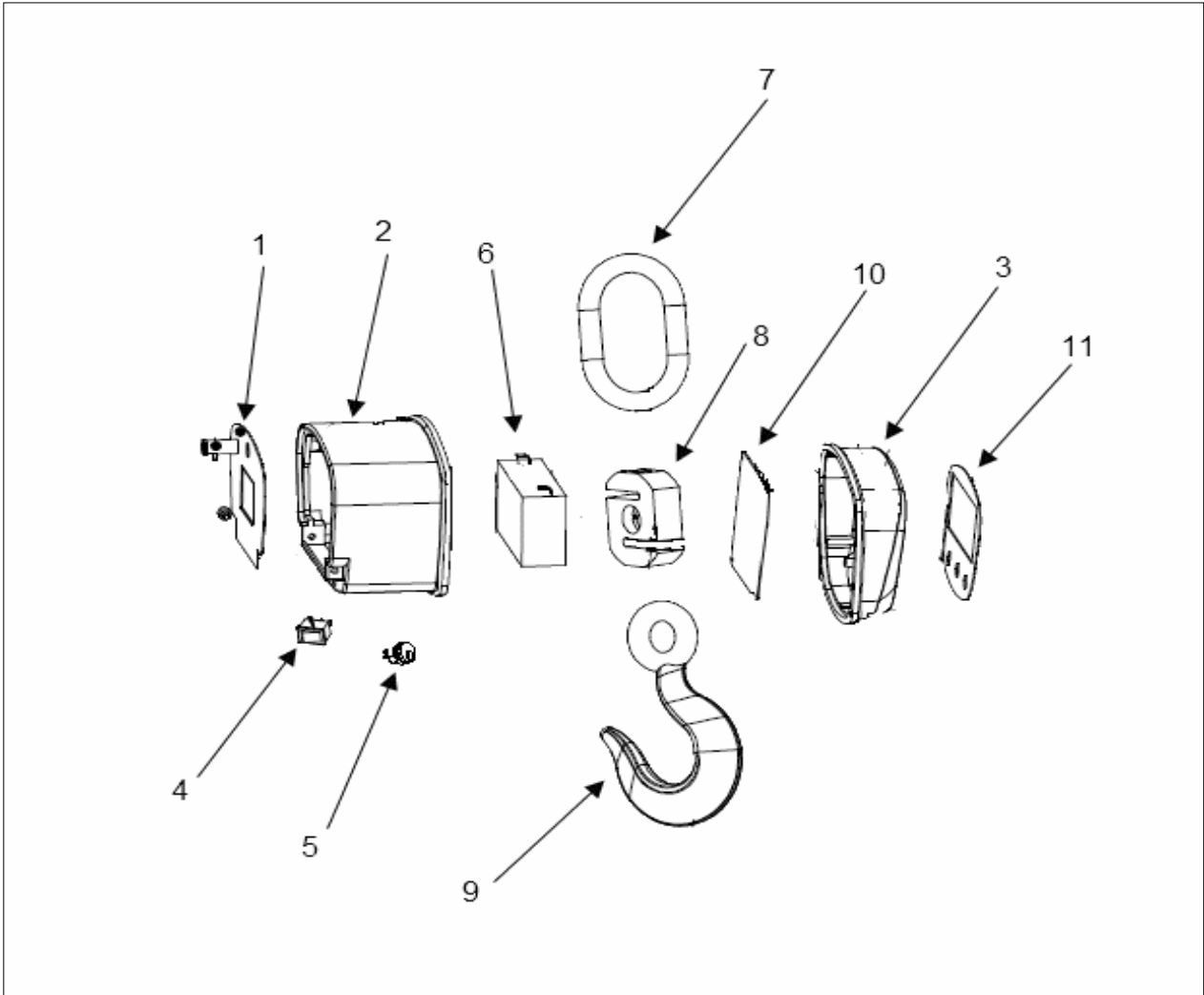
FUNCTION	DESCRIPTION	DEFAULT
BEE	Sets buzzer 0: Disable 1: Enable	1
HOD	Sets the Hold function 0: Disable 1: Enable	1
STB	Sets the Stable function 0: Disable 1: Enable	1
CHT	Sets weighing unit on power up 0: kg 1: Lb's 2: Newtons	0
YES	Sets save: 0: Not saved 1: Save new settings	0

4.0 CALIBRATION

- Press the [ZERO] key and power up the scale using the on/off button.
- Release the [ZERO] key and the display will show "SPAN". Make sure the hook is empty unless you intend to use any chains, slings etc to hold the calibration mass. Add any items such as these to the hook before continuing.
- Press the [ZERO] button and the display will show "SET" then "00000" when the reading at zero is stable. This completes the zero calibration.
- Following zero calibration the value of the mass being used to calibrate the scale should be entered. Use the [HOLD] button to increment the right hand digit, and the [UNIT] button to move this digit to the left. Proceed by entering a number for the next digit if required, until the value of your chosen calibration weight is displayed correctly.
- Load this mass onto the hook and when the scale is stable press the [ZERO] key. The display shows **'HOLD'**.
- After a few seconds, the calibration is complete and the scale returns to normal weighing showing the value of the calibration mass as used.

5.0 PARTS LIST

<u>LHS</u>		
<u>Part number</u>	<u>Description</u>	<u>Item No</u>
7.00.1.2.0005	LHS COMPLETE HOUSING	1, 2, 3
7.00.4.0.0083	LHS ON/OFF SWITCH	4
7.00.4.0.0086	LHS POWER CONNECTOR SOCKET	5
7.00.4.0.0084	LHS LEAD ACID BATTERY 6Vdc 3.2ah	6
7.00.1.0.0279	LHS RING SUPPORT	7
7.00.1.0.0273	LHS LOAD CELL - 500kg	8
7.00.1.0.0274	LHS LOAD CELL - 1500kg	8
7.00.1.0.0275	LHS LOAD CELL - 2000kg	8
7.00.1.0.0276	LHS HOOK	9
7.00.4.0.0085	LHS MAIN PCB	10
7.00.5.6.0045	LHS FASCIA PANEL - 500kg	11
7.00.5.6.0046	LHS FASCIA PANEL - 1500kg	11
7.00.5.6.0047	LHS FASCIA PANEL - 2000kg	11
7.00.4.0.0094	LHS KEYBOARD PUSHBUTTON	
7.00.3.0.0025	LHS COMPLETE PACKAGING SET	
7.00.4.0.0087	LHS 6VDC @ 600ma POWER/CHARGER UNIT UK	
7.00.4.0.0088	LHS 6VDC @ 600ma POWER/CHARGER UNIT EU	
7.00.4.0.0090	LHS REMOTE CONTROL UNIT	



WARRANTY INFORMATION

Adam Equipment offers Limited Warranty (Parts and Labour) for the components failed due to defects in materials or workmanship. Warranty starts from the date of delivery.

During the warranty period, should any repairs be necessary, the purchaser must inform its supplier or Adam Equipment Company. The company or its authorised Technician reserves the right to repair or replace the components at any of its workshops depending on the severity of the problems. However, any freight involved in sending the faulty units or parts to the service centre should be borne by the purchaser.

The warranty will cease to operate if the equipment is not returned in the original packaging and with correct documentation for a claim to be processed. All claims are at the sole discretion of Adam Equipment.

This warranty does not cover equipment where defects or poor performance is due to misuse, accidental damage, exposure to radioactive or corrosive materials, negligence, faulty installation, unauthorised modifications or attempted repair or failure to observe the requirements and recommendations as given in this User Manual. Additionally rechargeable batteries (where supplied) are not covered under warranty.

Repairs carried out under the warranty does not extend the warranty period. Components removed during the warranty repairs become the company property.

The statutory right of the purchaser is not affected by this warranty. The terms of this warranty is governed by the UK law. For complete details on Warranty Information, see the terms and conditions of sale available on our web-site.



Manufacturer's Declaration of Conformity

This product has been manufactured in accordance with the harmonised European standards, following the provisions of the below stated directives:

Electro Magnetic Compatibility Directive 2004/108/EC

Low Voltage Directive 2006/95/EC

Adam Equipment Co. Ltd.

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United Kingdom

FCC COMPLIANCE

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. The equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Shielded interconnect cables must be employed with this equipment to insure compliance with the pertinent RF emission limits governing this device.

Changes or modifications not expressly approved by Adam Equipment could void the user's authority to operate the equipment

WEEE COMPLIANCE



**Sealed Lead Acid
Battery
Must be recycled
Properly**

Any Electrical or Electronic Equipment (EEE) component or assembly of parts intended to be incorporated into EEE devices as defined by European Directive 2002/95/EEC must be recycled or disposed using techniques that do not introduce hazardous substances harmful to our health or the environment as listed in Directive 2002/95/EC or amending legislation. Battery disposal in Landfill Sites is more regulated since July 2002 by regulation 9 of the Landfill (England and Wales) Regulations 2002 and Hazardous Waste Regulations 2005. Battery recycling has become topical and the Waste Electrical and Electronic Equipment (WEEE) Regulations are set to impose targets for recycling.

ADAM EQUIPMENT is an ISO 9001:2008 certified global company with more than 35 years experience in the production and sale of electronic weighing equipment.

Adam products are predominantly designed for the Laboratory, Educational, Health and Fitness, retail and Industrial Segments. The product range can be described as follows:

- Analytical and Precision Balances
- Compact and Portable Balances
- High Capacity Balances
- Moisture analysers / balances
- Mechanical Scales
- Counting Scales
- Digital Weighing/Check-weighing Scales
- High performance Platform Scales
- Crane scales
- Health and Fitness Scales
- Retail Scales for Price computing

For a complete listing of all Adam products visit our website at www.adamequipment.com

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The latest version of this publication can be found on our Website.

www.adamequipment.com