

# LOADEX 100 Excavator Bucket Scale



A cost effective and easy-to-use scale installed on both tracked and wheeled 360 degree excavators to weigh the amount of material in the bucket, grab or clamshell.

With the ever increasing focus on productivity, **LOADEX 100** has been designed to operate within the fastest loading environments maximising tons per hour performance.

Loading correctly first time eradicates return trips to the stockpile reducing vehicle movement, fuel usage and machine & tyre wear.

# LOADEX 100 Scale system features

## FEATURES:

Colour touch-screen display intuitive operation

New dynamic weighing technology using inclinometers and a mechanical sensor

Hydraulic oil temperature compensation option

Target load

GPS product recognition option

Reversing camera input

Adjustable static or dynamic weighing positions

Stores, multiple job and blend capability with advance memory job search and report function

5 memorised quick preselections for repeat job set up

GPRS and Wi-Fi connectivity options

Split loading

Multi channel and grand total summary

SQL database functionality. XML data output via serial, ethernet and USB memory stick

Printer option with configurable output

Internal audible alarm

## ADVANTAGES:

Clear, uncluttered display provides intuitive operation

Superior weight accuracy and repeatability in difficult conditions and terrains

Accurate weight information within normal operating temperatures

Set individual product target. Ensures correct loading of vehicles or product

Automatic product selection

One screen, two functions

Flexible according to specific application

Accurate record keeping, traceability & stock management

Multiple active job capability

One or 2-way communication with back office

Truck and trailer

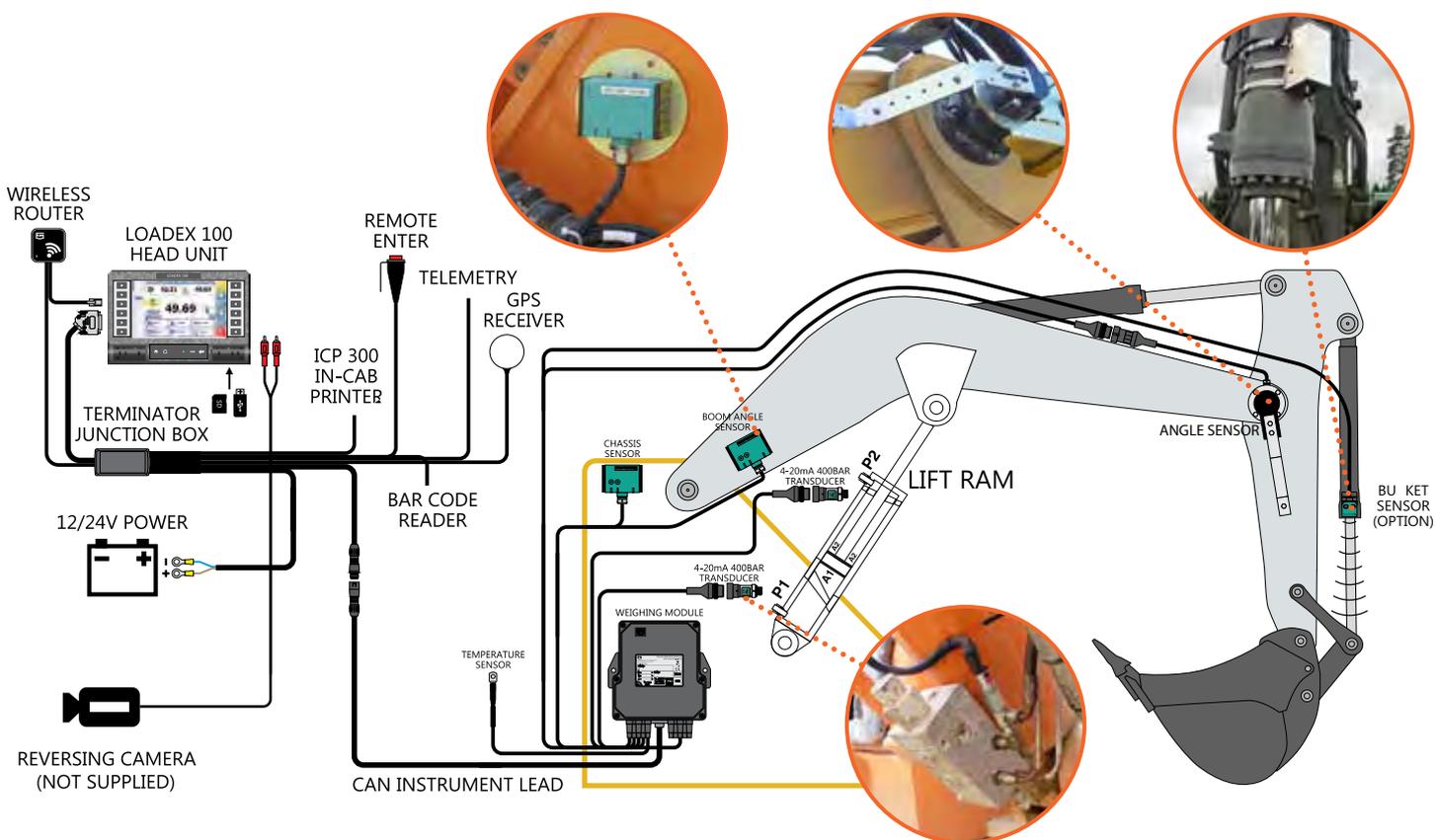
Load accumulation for up to 10 attachments e.g. buckets, grab

Safe & efficient data handling

Hard copy of load summaries, totals, company logo and CE product marking

Set to alarm at overload threshold

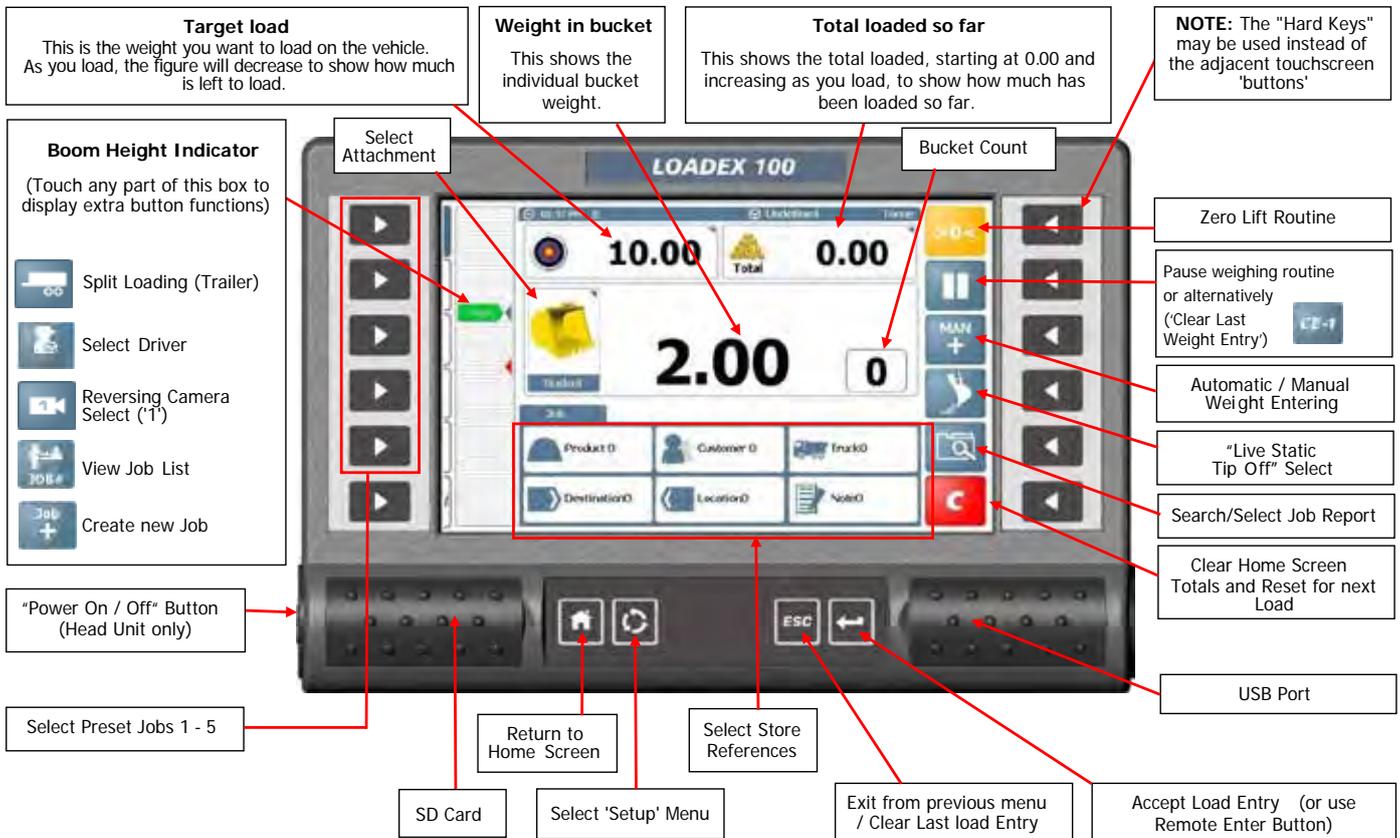




The new **LOADEX 100** uses a 7" colour touch-screen display and additional keys providing a modern and ergonomic interface. Two pressure sensors are installed into the hydraulic lift system with up to two more installed on machines fitted with assistor accumulator cylinders. The pressure signals are captured, filtered and corrected by measuring the angle of the main boom using an inclinometer. Slope corrections are made from another inclination sensor on the chassis. Dipper arm position is established by a mechanical angle sensor mounted on the boom to dipper arm elbow pivot. This provides fast and precise dipper arm angle measurement that is not affected by inertia g-forces or acceleration effects. When used dynamically, the pressures are captured through a set weighing zone. The system may also be used in static weighing mode; the boom can either be lifted to a set weighing position where the pressure is captured, or measuring constantly in a "live" mode at any required boom height. Both dynamic and static weighing positions are adjustable by the operator to suit any job required, which will enable the machine to be used at its most efficient output.

As an added option, oil temperature compensation is provided by a clamp-on temperature sensor. Ultrasonic technology is used to provide reliable and precise bucket position compensation (patent pending). All calculations are made in the **LOADEX 100** Weighing Module, with the resultant calculation sent via CAN protocol to the **LOADEX 100** terminal in the cabin. Load and store information is saved in the terminal where it can be distributed to an in-cab printer, modem or internal SD flash card. SQL database capability with up to eight reference fields provides virtually unlimited inputs of products, customers, trucks, hauliers, locations, destinations, mix blends and additional notes. Video input for switching head unit into reversing camera mode removes the need for additional screen. Extensive sales, service and support network of quality RDS distributors.

# LOADEX 100 Quick reference guide



## Distributors

Mr Iain Burnside

**RDS Scotland**

50 Nettle Hill Drive  
Uphall Station  
West Lothian EH54 5PS  
Mob: 07831 801024  
i.burnside@rdstec.com

Mr Tony Heath

**RDS North Eastern**

Cherrytree Lodge  
4 Woodfield Avenue  
Lincoln LN6 0LH  
Tel: 01522 681477  
Mob: 07836 711697  
t.heath@rdstec.com

Mr Peter Heathcote

**RDS North Western**

Unit D Ednaston Business Centre  
Ednaston, Ashbourne  
Derbyshire DE6 3AE  
Tel: 01335 300970  
Mob: 07977 933308  
rdsnorthwest@aol.com

Mr Jon Hawker

**RDS South West**

48 Silbury Close  
Westbury  
Wiltshire BA13 3TD  
Tel: 01373 864415  
Mob: 07738 763641  
jon@rdssw.co.uk

Mr John Evans

**RDS South East**

Chigborough Road  
Heybridge, Maldon  
Essex CM9 4RE  
Tel: 01621 852114  
Mob: 07836 737028  
j.evans@rdstec.com

Mr David McCollum

**RDS N. Ireland**

Rhee Lane, Curragh Road  
AGHADOWEY  
Coleraine  
Tel: 02870 868336  
Mob: 07860 618424  
rdstecni@gmail.com

RDS Technology Ltd, Cirencester Road,  
Minchinhampton, Stroud, Glos, GL6 9BH, UK  
T: +44 (0)1453 733300 info@rdstec.com

**RDS TECHNOLOGY**

PRECISELY