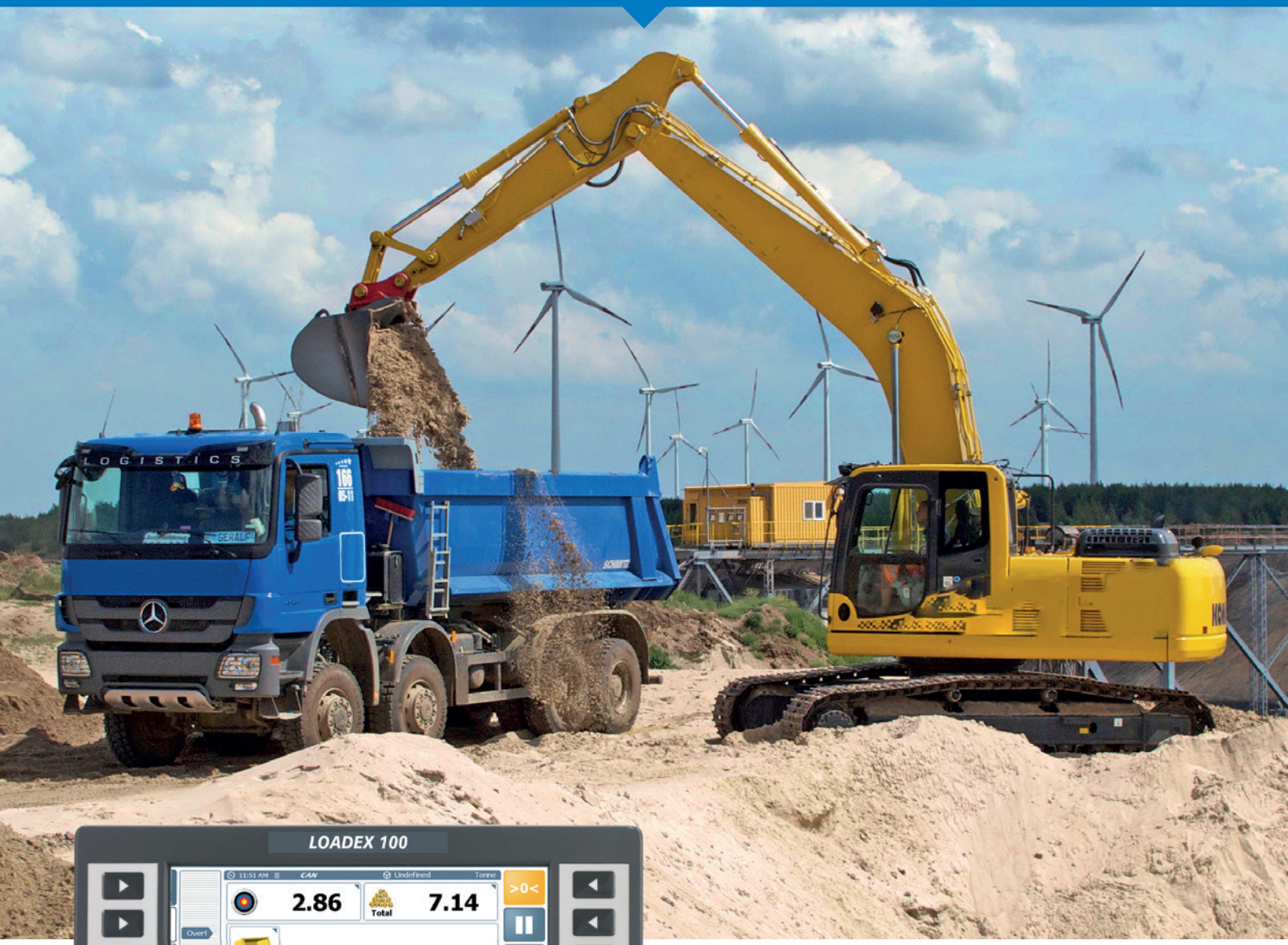
RDS TECHNOLOGY
TOPCON POSITIONING GROUP

LOADEX 100



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.

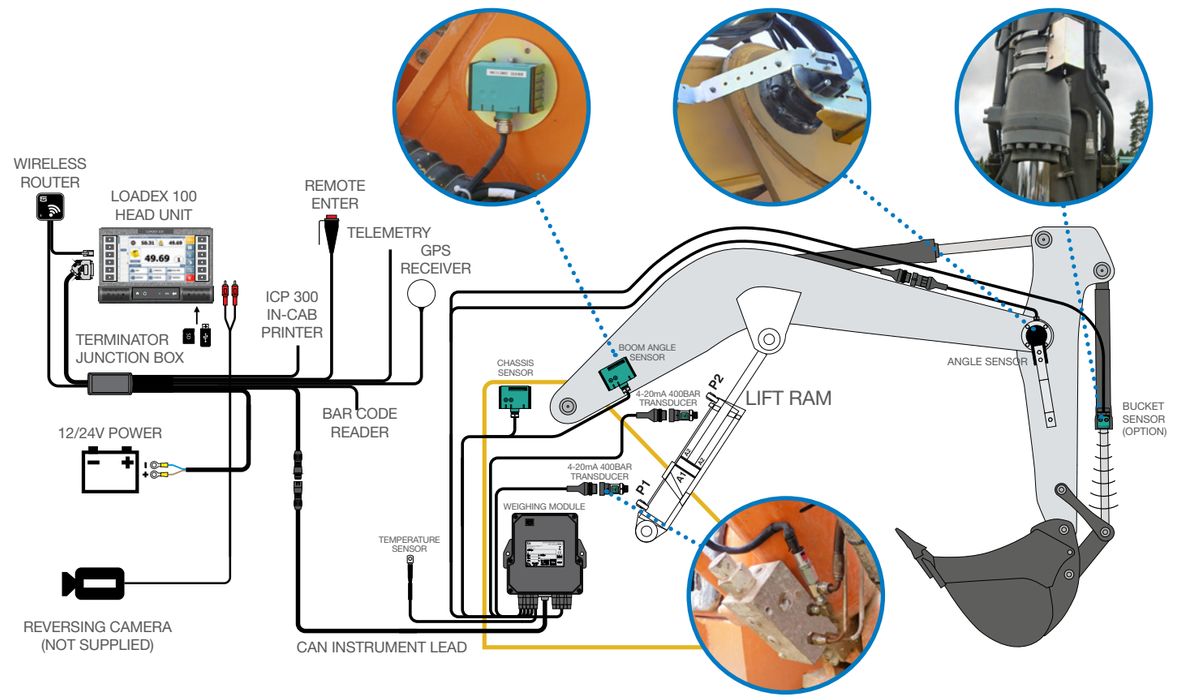
Loading correctly first time eradicates return trips to the stockpile reducing vehicle movement, fuel usage and machine & tyre wear.

www.rdstec.com

LOADEX 100

SCALE SYSTEM FEATURES

FEATURES:	ADVANTAGES:
Colour touch-screen display	Clear, uncluttered display provides intuitive operation
New dynamic weighing technology using inclinometers and a mechanical sensor	Superior weight accuracy and repeatability in difficult conditions and terrains
Hydraulic oil temperature compensation option	Accurate weight information within normal operating temperatures
Target load	Set individual product target. Ensures correct loading of vehicles or product
GPS product recognition option	Automatic product selection
Reversing camera input	One screen, two functions
Adjustable static or dynamic weighing positions	Flexible according to specific application
Stores, multiple job and blend capability with advance memory job search and report function	Accurate record keeping, traceability & stock management
5 memorised quick preselections for repeat job set up	Multiple active job capability
GPRS and Wi-Fi connectivity options	One or 2-way communication with back office
Split loading	Truck and trailer
Multi channel and grand total summary	Load accumulation for up to 10 attachments e.g. buckets, grab
SQL database functionality. XML data output via serial, ethernet and USB memory stick	Safe & efficient data handling
Printer option with configurable output	Hard copy of load summaries, totals, company logo and CE product marking
Internal audible alarm	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.

Target load
This is the weight you want to load on the vehicle. As you load, the figure will decrease to show how much is left to load.

Weight in bucket
This shows the individual bucket weight.

Total loaded so far
This shows the total loaded, starting at 0.00 and increasing as you load, to show how much has been loaded so far.

NOTE: The "Hard Keys" may be used instead of the adjacent touchscreen 'buttons'

Select Attachment

Bucket Count

Boom Height Indicator
(Touch any part of this box to display extra button functions)

- Split Loading (Trailer)
- Select Driver
- Reversing Camera Select ('1')
- View Job List
- Create new Job

Zero Lift Routine

Pause weighing routine or alternatively ('Clear Last Weight Entry') CE-1

Automatic / Manual Weight Entering

"Live Static Tip Off" Select

Search/Select Job Report

Clear Home Screen Totals and Reset for next Load

"Power On / Off" Button (Head Unit only)

USB Port

Select Preset Jobs 1 - 5

Return to Home Screen

Select Store References

SD Card

Select 'Setup' Menu

Exit from previous menu / Clear Last load Entry

Accept Load Entry (or use Remote Enter Button)

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