

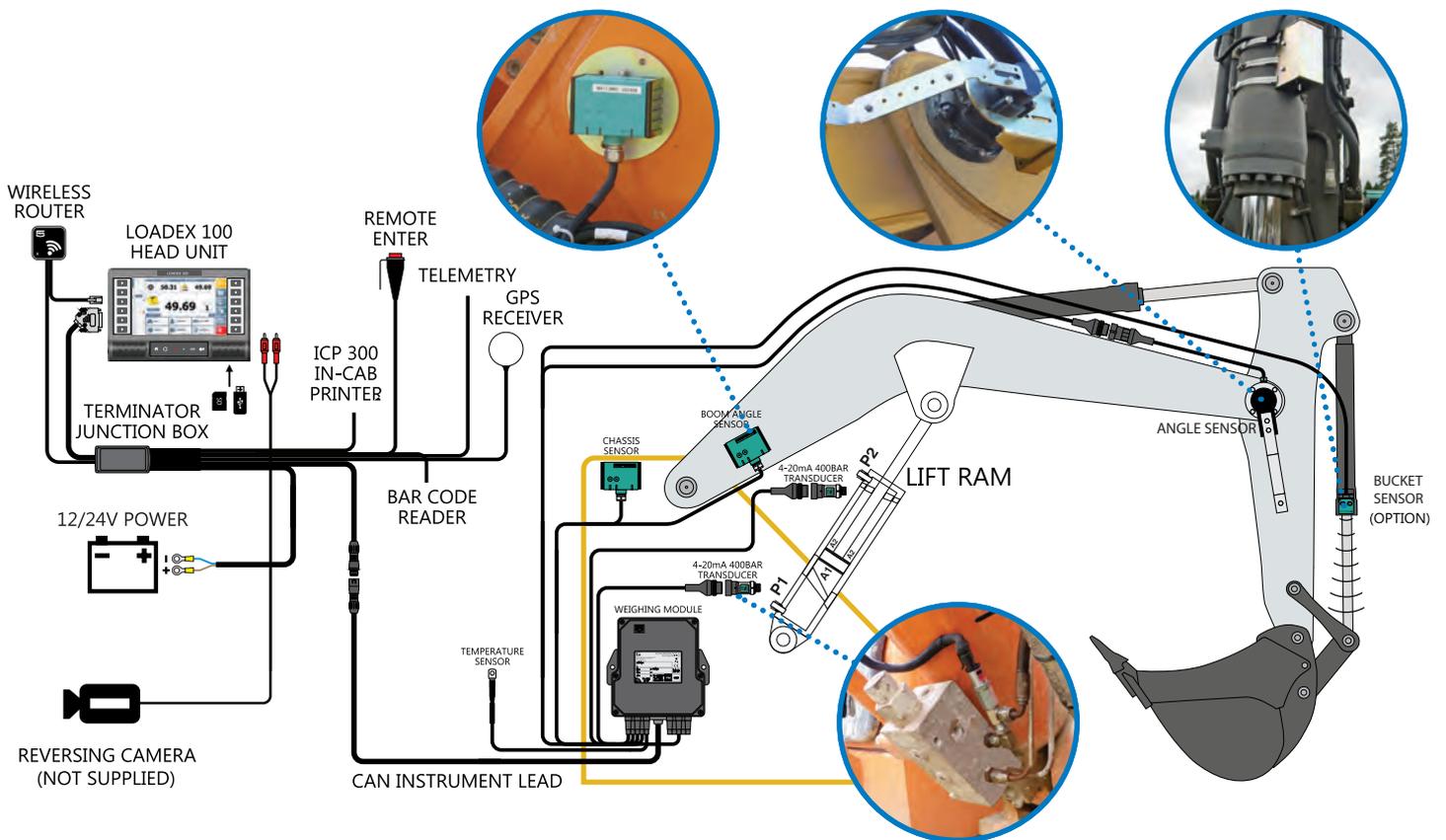
**A cost effective and easy-to-use scale installed on both tracked and wheeled 360 degree excavators to weigh the amount of material in the bucket, grab or clamshell.**

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.

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 bucket position measurement that is not affected by inertia

g-forces or acceleration effects.

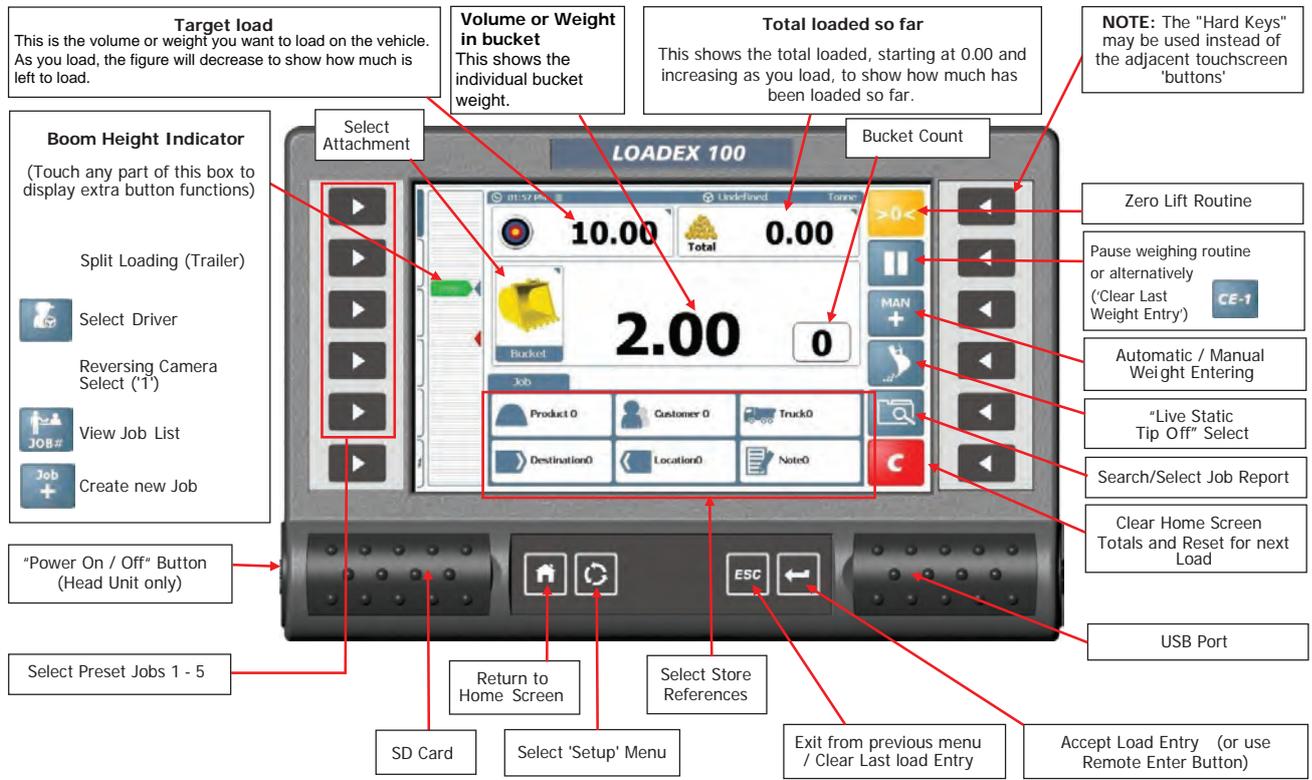
When used dynamically, the pressures are captured through a set weighing zone. The system may also be used in static weighing mode; the boom can either be lifted to a set weighing position where the pressure is captured, or measuring constantly in a "live" mode at any required boom height. Both dynamic 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.



TECHNICAL DETAILS	
Operating voltage:	10-30 volts DC
Temperature range:	-20 to +70 °C operating
System accuracy:	Typically +/- 3% of capacity or better
Sensor range:	0-400 bar
EMC protection:	Complies with 2004/108/EC ISO 14982
Warranty:	1 year
Enc. protection:	Display sealed to IP54 External sensors IP65

SYSTEM ENHANCEMENTS	
ICP 300	Printer option for hard copy prints of load totals
Telemetry	(Wi-fi, cellular and radio) for fast and efficient load data transfer between loader and office.
GPS16	Automatic product selection.
Temperature compensation	Enhanced weighing accuracy.

DISTRIBUTORS

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**RDS TECHNOLOGY**  
— TOPCON POSITIONING GROUP —