



WLS-1/ES-1

WHEEL LOADER SCALE AND
EXCAVATOR SCALE



RICE LAKE[™]
WEIGHING SYSTEMS
Commitment Beyond Measurement[®]

 **SCALES**SHOP
customized weighing and packaging systems

WLS-1 / ES-1

WHEEL LOADER SCALE
AND EXCAVATOR SCALE



Keep business moving

WLS-1 and ES-1 on-board weighing systems optimize load

Essential for quarries, mines and remote sites, the WLS-1 and ES-1 are state-of-the-art solutions for on-the-move weighing that won't slow production rates. Whether used alone or in conjunction with a truck or track scale, the WLS-1 and ES-1 will increase your facilities efficiency.

Increased Productivity. Every Load, Every Day.

Both the WLS-1 and ES-1 keep track of inventory, customers, and with outboard telemetry, even tie-in to the existing ticketing system to ensure the specified amount of each commodity is loaded on the correct truck.

The unique self-learning calibration drastically reduces the system installation time. This combined with the ease-of-use will help increase production and profits for your enterprise.

Wheel Loader Scale

Designed as on-board weighing management for wheel loaders, the WLS-1 is a dynamic weighing system allowing load accuracy within 1 percent without stopping the loader or bucket to capture a weight. This optimizes the amount weighed during loading, reduces trips to a central scale, and avoids costly underloads and material loss due to overloads.

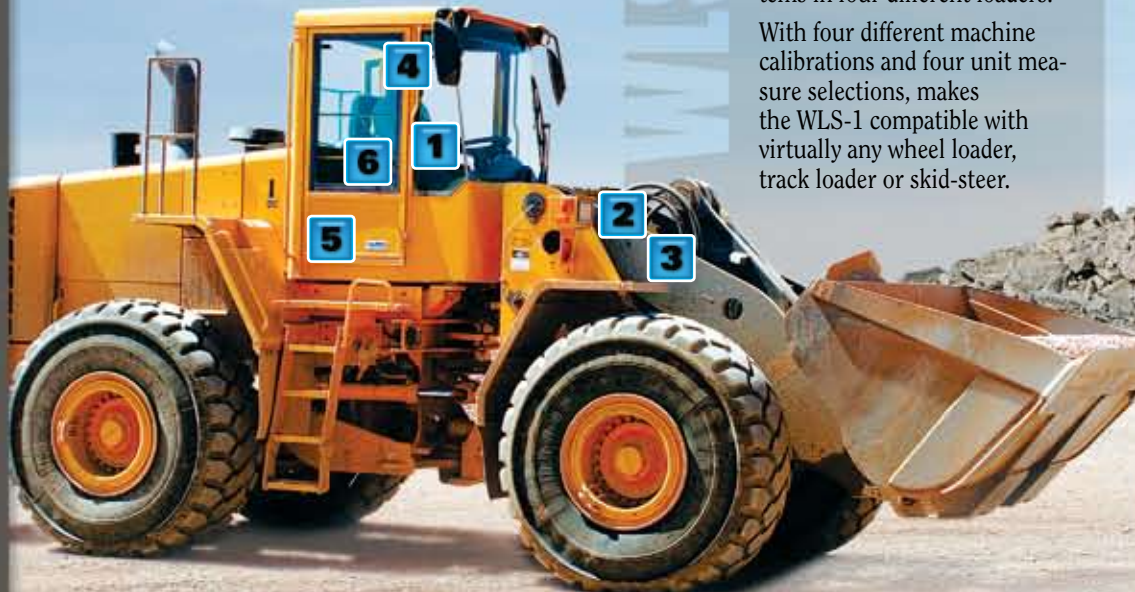
For aggregate producers with multiple sites, remote feedlots, or landfill operators with remote locations, the controller/indicator can store calibration data for up to four different loaders. This means that a single indicator can be moved from loader to loader as the need for verified weights changes from location to location. The indicator represents 2/3 of the total cost of the weighing system package, so four loaders can share a single indicator for the cost of two complete systems. This can save your operation 50% over complete scale systems in four different loaders.

With four different machine calibrations and four unit measure selections, makes the WLS-1 compatible with virtually any wheel loader, track loader or skid-steer.

The WLS-1 and ES-1 Advantage ...

On-the-go weighing maximizes efficiency and improves management in virtually any operation.

-  Agriculture
-  Bulk Construction
-  Utilities and Waste
-  Transportation and Logistics



g with on-the-go weighing.

and efficiency and increase profits in wheel loader and excavator operations.

Excavator Scale

The ES-1 is designed to increase excavator efficiency, optimize the amount being weighed and reduce the number of underloads and trips to truck or track scales. The ES-1 allows load accuracy within 3 percent, effectively eliminating costly overloads which can result in highway fines.

Whether used in mining, demolition, brush cutting, river dredging or forestry applications, the ES-1 will always work reliably and accurately. The ES-1 is compatible with virtually any fixed-load suspension excavator, such as two-shell grabs, hooks or grapples.

System Components

WLS-1

- LDC Indicator [1]
- ASA Angle Sensor [1]
- Hydraulic Pressure Sensor [1]
- Remote Control [1]
- Junction Box [1]

ES-1

- LDC Indicator [1]
- ASA Angle Sensor [2]
- Hydraulic Pressure Sensor [2]
- Remote Control [1]
- Junction Box [1]

1 Indicator

With an easy-to-read LCD screen and simple-to-follow icons this indicator provides easy monitoring, collection and storage of loads, products, customer data and a variety of detailed information for users and managers.



2 Hydraulic Pressure Sensor

The hydraulic pressure sensor is used to measure the change in hydraulic pressure which is directly related to the load being lifted.



3 ASA Angle Sensor

The ASA angle sensor is specifically designed for applications on mobile machines. Its compact design and ease of installation, together with the lack of interior mobile components offers a unique rugged solution for on-the-go weighing.



4 Remote Control

Mounted anywhere in the cab, the remote control offers ease-of-use for the operator to control the tare of the bucket, partial zeroing, total zeroing and print out.



5 Junction Box

Easy connection for remote control, pressure sensor, optional second pressure sensor, angle sensor, and power supply.

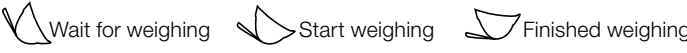




6 Printer (optional)

Optional 24-column roll printer is available for standard printing of daily operations, and an end-of-day summary.














All vital information is available at a glance with real-time multiple readouts.

- 1** Unit of measurement (lbs, tons, kgs, or tu [metric tonnes])
- 2** Displays the number of weighing (buckets). The bucket icon moves dynamically until weighing is complete

- 3** Indicates that maximum load has been set (target load)
- 4** Displays customer name or code number
- 5** Displays material name or code number
- 6** Displays dump body filling with respect to maximum load set
The dump body fills in percentage with respect to maximum load set
- 7** Displays total weight shown in tons (total load lifted)
- 8** Displays partial weight shown in tons (each bucket load)
- 9** Displays type of weighing  Weighing counting up  Weighing counting down
- 10** Indicates weighing disabled
- 11** Signal lamps: green lamp on and red lamps off means continue to weigh; red lamps on and green lamp off means maximum load has been reached or exceeded



Simple, easily identified indicator buttons minimize operator error.

	Accesses diagnostic and calibration procedures		Used for direct access of material setting		Used for direct access to customer setting		Used to confirm selections and data
	Accesses target and maximum load		Used for delete partial, total tare procedure access		Used to go back from selected menu to working page (home)		Used to move UP and DOWN on a page or menu, and set values (+ and -)
	Executes printer functions		Press to tare or reset (press for more than 5 seconds to reset)		Used to access tare enabling and exclusion of weighing system		

Standard Features

- 1,000 customers (8 lines of 16 characters each)
- 500 truck identifications (2 lines of 12 characters each)
- 200 types of material (1 line of 12 characters)
- 100 projects (8 lines of 16 characters)
- 50 operators (1 line of 12 characters)



www.thescaleshop.net

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