



TSL
TECH SCOUT LABS
Tech | IOT | Cyber Security



LOADING THE
CORRECT WEIGHT
EVERY TIME

**TSL
WHEEL
LOADER
SYSTEM**

INTRODUCTION

Due to the rising cost of equipment operations, it is critical to reduce operating expenses and improve fleet efficiency. With an on-board scale, you will always know the exact weight of each load. This saves you both money and material, while taking full advantage of the capacity of your wheel loader and trucks.

CHALLENGES IN MATERIAL WEIGHING



OVER-/ UNDER
LOADING



OVERWEIGHT
FINES



TRACKING OF
MATERIAL FLOW



KNOWING THE
EXACT WEIGHT

THE HYDRAULIC LOAD CONTROLLER

MATERIAL WEIGHING THE EASY WAY

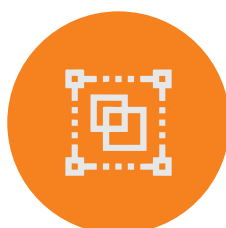
The TSL wheel loader weighing systems will support you in achieving safety standards and reduce your liability exposure when trucks go on the road. Preventing over and under loading reduces truck turn-arounds and improves fleet efficiency, while also reducing your risk to overload fines. Optimize your wheel loader machines today and get the most out of every load.

In this way, you profit from increased productivity, reduced liability and have a happy customer in the end.

Weighing systems from TSL determine the exact weight of the material quickly and reliably to improve production efficiency and loading cycle times. The system adds up the weight of the material in each bucket and displays a running total loaded onto the truck for easy load management.



MATERIAL
SELECTION



PRINT
SELECTION



BACKEND
REPORTS





FEATURES AND BENEFITS



TSL WHEEL

The TSL Wheel on the TSL display ensures an intuitive operation even with gloves.



USB INTERFACE AND MOBILE PRINTER

Customizable data lists can be uploaded via USB, while the mobile printer allows on-site printing of weight tickets with all the important information for the site and material selected.



MATERIAL TRACKING

The system lets you choose the material which you are about to load and saves the selection for further Evaluation.



DYNAMIC WEIGHING

Thanks to the dynamic weighing procedure, the weight of the load is assessed during the loading process – no stops needed.

A CASE STUDY IN SAVINGS

With our system, every load can be dynamically measured in real time to prevent overloading and under loading, and is a productivity boost for anyone in the world of waste management or hauling.

One such example: a major metropolitan waste company in Florida generated \$132,313 in annual savings just by installing TSL's HLC system on two of their loaders.



Our case study analyzed the site's operations, which operated the handling and loading of bulk waste materials. The site ran at 8-hour shifts each day, alternating between two wheel loaders, with a target weight of 24 tons per load (850 tons per day). With our system, the client discovered their loaders were only achieving about 16 tons per load, well below their goal. This lack of visibility translated into significant under loading, overusing of the truck fleet, and ultimately wasting time and money.

Once the TSL-1000 Wheel Loader scales were installed and the operators trained to maximize each load, the overall load average increased from 16 tons to approximately 23.5 tons per load. Additionally, the operators optimized their time with each load by getting the amount almost exactly right the first time, every time. That meant the site saw considerable savings and improved operations.

Because of TSL, this site is now much safer, more productive and more profitable: a major improvement that paid for itself within a month.


TWO
L150 VOLVO
WHEEL LOADERS



850
TONS PER DAY



ONE
HOUR DRIVE TO
TRANSFER STATION



BENEFIT FROM THE TSL WHEEL LOADER SYSTEM

LOAD ALWAYS THE CORRECT WEIGHT

- 01 CORRECT LOAD**
Load the correct amount of material every time and keep track on what you are hauling.

- 02 ELIMINATE OVERLOADING LIABILITY**
Eliminate liability by avoiding truck and trailer overloading.

- 03 COST EFFICIENCY**
Improve cost efficiency by taking advantage of the full capacity of each bucket and every truck.

- 04 REDUCE FUEL CONSUMPTION**
Increase the volume of shipped material by maximizing each load, thereby taking advantage of savings with the use of your wheel loader.

- 05 REDUCE MATERIAL LOSS**
Reduce the material loss to a minimum and save money, by knowing.

- 06 MAXIMIZE SAFETY**
Maximize safety by keeping weight within legal limits, which eliminates accidents caused by overloaded trucks.

HOW IT LOOKS ON THE WHEEL LOADER

MEASUREMENT AND DISPLAY

The clear display presents all load information in a structured manner. With only three weights, you have the total load at a glance:

TOP LINE - Is the weight that is currently loaded in the bucket on your wheel loader.

MIDDLE LINE - Is the total weight of the loaded material on the truck is indicated.

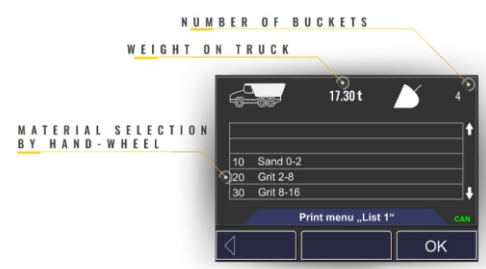
BOTTOM LINE - To optimally work with pre-defined goals, you can also use the target weight option that will let you know how much material you are supposed to haul.

Also, keep track on the number of buckets that you have already loaded by keeping an eye on the number next to the wheel loader and truck icons.

PRINT SELECTION

The upper menu gives you an overview of the bucket count and the total weight loaded on the truck. The neat list of all available materials in your print menu will then make it easy for you to select the one you loaded. Scroll easily through the menu with the TSL wheel and find the correct material.

To complete your selection, select "OK" and you are just a few seconds away from printing your first on-site printed weight ticket.





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