



Load Weight Shown in
% of Vehicle lifting
Capacity

The % Readout Updated
Every Second



SC4

SkidWeigh Classic Series



Lift Truck Onboard Load Weight Monitoring Shown In % Of Vehicle Maximum Lifting Capacity With Audio /Visual Overload Alert

Displaying a percentage of total capacity instead of a static raw weight provides a real-time safety rating that continuously adjusts to changing physical variables.

While a basic scale only measures dead weight, a forklift's actual capacity drops drastically as a load is lifted higher or extended forward. Showing a dynamic percentage tells the operator exactly how close the machine is to tipping over at any given second, regardless of the load's height, tilt, or position.



Lifted Load Showing 106 % of Vehicle Lifting Capacity With Audio / Visual Alert



Real-Time Risk Assessment

Prevents Tip-Overs: The system acts like an active stability meter.

Dynamic Calculations: If a 3,000 lbs load is safe at ground level (50% capacity), it may become dangerous at 20 feet high (95% capacity). A percentage indicator instantly updates to reflect this danger.

Eliminator of Math: Operators do not have to mentally cross-reference a raw weight number with complex [forklift capacity charts](#) mid-lift.



Overload Prevention Over Hydraulic Power Overrides Deceptive Hydraulic Strength

Forklift hydraulic systems are intentionally over engineered and can physically lift weights that exceed the chassis' counterweight stability limit.

Focuses on Balance:

A raw weight reading might make an operator think, *"The machine is rated for 20,000 lbs and this is only 18,000 lbs, so I am safe."* However, if that load is lifted high, it will tip. A percentage indicator protects against this error by showing 110% capacity.

Simplified Universal Safety Rules

Uniform Limits:

Fleet managers can enforce a universal safety limit across all machines (e.g., *"Never exceed 85% on the display"*).

Clear Warning Thresholds:

It provides unmistakable visual triggers. As of example at 85% or more the LED display will "flash" audio /visual alert will be activated and stayed on until operator lowers the load to the ground.

Attachments

Account for Load Centers and Attachments

Shifting Centers of Gravity:

Large forklifts often handle oddly shaped cargo (like long steel beams or massive coils). If a load sits further out on the forks, the forklift's leverage decreases.

Attachment Compensation:

Heavy hydraulic attachments like paper roll clamps or side shifters add dead weight and push the load forward. A percentage scale automatically factors in the residual capacity losses caused by these tools.



Residual Capacities vs Nominal Capacities: Attachments add weight to the forklift, reducing its ability to lift heavy loads.

Using SC4 Percentage-of-Capacity Displays on Forklifts Instead of Raw Weight Values Offers Several Distinct Advantages for Safety, Efficiency, and Operations

Prevents calculation errors:

Operators do not need to mentally compare raw weights against the load capacity chart.

Accounts for load center changes:

Percentages naturally reflect how attachments or extended load centers reduce actual lifting capacity.

Instant tip-over warning:

A display showing "95%" immediately signals danger faster than reading "1,900 kg" on a 2,000 kg truck.

Immediate tilt adjustments: Operators instantly see how tilting the mast forward spikes the capacity percentage.

Faster load assessment:

Drivers judge load safety at a single glance.

Simplified training: New operators learn safe thresholds (e.g., "stay under 85%") instead of complex weight charts.

Fleet standardization:

The same percentage rules apply whether driving a small 1.5-ton forklift or a large 10-ton model.

Reduced wear and tear:

Easily enforcing a maximum percentage limit prevents chronic truck overloading.