



Financial ROI Analysis for LTL Loading Dock Equipped with SkidWeigh Forklift Weighing Scales



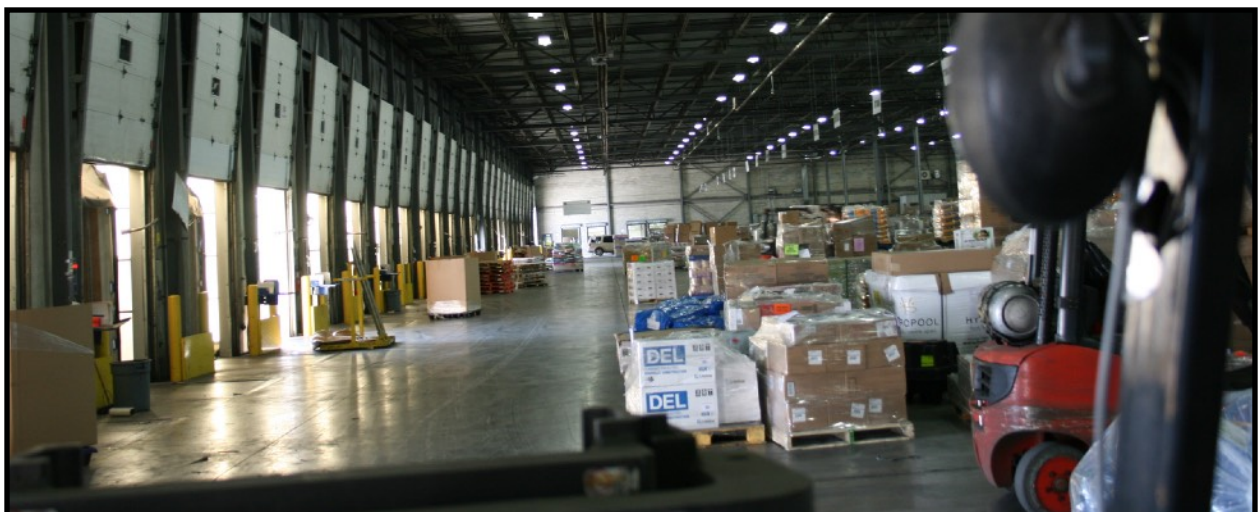
- **Labor Savings:** Eliminates the 90-second trip to a central scale for every pallet.
- **Cost Calculation:** At 150 pallets a day, this saves 3.75 hour of labor daily in standard mid-size cross-dock throughput.
- **Revenue Protection:** Captures missed surcharges from under declared customer weights immediately.
- **Asset Optimization:** Frees up the "Legal for Trade" floor scale strictly for **audit-threshold exceptions**.

Operational Workflow Efficiency

- **Weigh-on-the-Move:** Forklift operators log weights instantly during standard transit.
- **Smart Filtering (Example):** Only pallets exceeding the 100-pound threshold **trigger a secondary audit.**
- **Bottleneck Elimination:** Reduces traffic jams at the LTL loading dock floor scale.
- **Data Accuracy:** Directly syncs weight data to stop manual entry errors on waybills.

Strategic Business Impact

- **Throughput Boost:** Faster loading cycles mean higher daily shipment capacity.
- **Billing Integrity:** Guarantees accurate carrier invoicing based on real-time data.
- **Compliance Safeguard:** Keeps the terminal compliant with highway weight regulations.
- **Driver Retention:** Shorter wait times improve carrier and driver satisfaction.



SC2 Mobile Scales: Financial & Operational Model (3 Systems)

Prepared For: Material Handling Fleet Evaluation

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A **"general case" business model** has been built using proxy assumptions based on standard cross-dock operations. This gives you concrete numbers to review immediately.

1. Industry Baseline Assumptions

To model the business value of upgrading to SC2 mobile check weighing scales, we use standard, conservative mid-sized LTL freight terminal metrics as proxy baselines:

Metric	Baseline Value	Rationale
Daily Pallet Volume	150 pallets	Standard mid-size cross-dock throughput
Operator Loaded Hourly Wage	\$32.50 / hr	\$25 base wage + 30% payroll/fringe overhead
Time Saved per Pallet	90 seconds	Elimination of travel to central floor scale
Under-Declared Weight Rate	5.0%	Industry average for unverified customer waybills
Avg. Revenue Loss per Error	\$45.00	Missed weight adjustment + carrier surcharge fee
Operating Days per Year	250 days	Standard Monday-Friday annual operation

2. Annualized Financial Returns

Financial Benefit Category	Calculation Method	Annual Value
Direct Labor Savings	3.75 hours saved daily @ \$32.50/hr over 250 days	\$30,468.75
Revenue Protection Recovery	7.5 corrected pallets daily @ \$45.00 over 250 days	\$84,375.00
Total Combined Value	Sum of labor efficiency and leak protection	\$114,843.75

3. Investment & Payback Framework

Assuming a fleet upgrade of **3 SC2 mobile scale units** at an estimated capital cost of \$4,500 per unit: Initial Capital Investment Projected Year 1 Net Benefit **Payback Period (Months)**