



Financial Risk Calculator

for Truck and Rail Scales

Your scale affects your finances through:

Accuracy

The profitability of every transaction on a scale depends on its accuracy.

Reliability

Downtime causes disruptions and increases operational costs.

Service

The quality and cost of maintenance and repairs to keep the scale operational can grow dramatically over time.



See for yourself

Use the interactive form on the next page to determine the risk your business could be exposed to through your scale.

Then, learn the value of improving scale performance with help from METTLER TOLEDO, including:

- Load cell system upgrades / conversions
- Professional preventative maintenance
- Precise calibrations
- Expert repair services

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Financial Risk Calculator

The impact of your truck scale on your business



Business Information Note: The user can override the default values in all input fields.

Select unit of weight	<input type="text"/>	Gross weight of an average truck	<input type="text"/>
Enter currency	<input type="text"/>	Net load weight per average truck	<input type="text"/>
Business days per year	<input type="text"/>	Price of material per	<input type="text"/>
Trucks per business day	<input type="text"/>	Profit margin on material	<input type="text"/> %

Scale Error

Estimating current scale error on a full load:
United States tolerance (NTEP): Up to 160 lbs on a 40 ton load
EU / Asia, etc. tolerance (OIML): Up to 40 kg on a 40 tonne load, or
up to 60 kg for most loads over 40 tonnes

Current Values

Improved Values

Scale Downtime

Total days of unplanned downtime per year:
(includes failure, repair dispatch, and repair time)

 days days

Annual cost of emergency scale repairs
(parts, labor, travel, etc.)

Percentage of daily business lost during scale downtime (optional)

 %

Added cost of disruption per delayed weighment during downtime (optional)
(overtime labor, fuel, etc.)

Once the fields above have been completed, click "Calculate" to see results below

Analysis

	Current Financial Risk	Improved Financial Risk	Savings Potential
Accuracy: Annual value of weighing errors	<input type="text"/>	<input type="text"/>	<input type="text"/>
Reliability: Annual cost of unplanned downtime; lost business, increased overhead during disruptions, and repairs	<input type="text"/>	<input type="text"/>	<input type="text"/>
Combined annual value: Weighing errors and unplanned scale downtime	<input type="text"/>	<input type="text"/>	

Total Annual Savings Potential from Risk Reduction

Weighing errors and downtime are typically related to the scale's load cell system and preventative maintenance efforts. Contact METTLER TOLEDO for opportunities to improve the accuracy and reliability of your truck scales.

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Calculations

This page explains the calculations used in the Risk Exposure Calculator.

Accuracy

The financial value of weighing errors is calculated as:

scale error **X** days per year **X** trucks per day **X** price of goods per lb. or kg.

Reliability

The cost of unplanned downtime is calculated as the sum of these values:

· Cost of lost business

days downtime **X** net load **X** trucks per day **X** price of goods **X** (profit margin **X** .01) **X** (percent lost business **X** .01)

· Cost of increased overhead during disruptions

days downtime **X** cost added processing **X** trucks per day **X** (100 - percent lost business)

· Cost of repairs

Value entered by the user (parts, labor, travel, etc.)

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