

Scrap Cost Tracker

How-to guide: what the workbook does, how to use it and what every number means.

mfgcalcs.com



Scrap Cost Tracker

Log scrap, cost each part at what had been spent on it so far, and see scrap cost, scrap rate and the costliest reasons.

For: Quality engineers, production supervisors, cost accountants and plant managers.

Version 1.0.0 · updated 15 October 2026

Quick start

1. On Setup, type your plant name, currency and targets, then replace the example parts, operations, scrap reasons and the conversion cost each part has absorbed by each operation.
2. On Scrap Log, add one row per scrap entry: date, part, the operation where it was scrapped, the reason and the quantity. The cost is calculated for you.
3. On Production Log, add one row per part per production day with the units produced, so scrap rate and scrap cost share have a base.
4. Read the Check columns: anything other than OK names the problem in words.
5. Open the Dashboard. Use the part and date filters at the top to review one part or one week.

What is in the workbook

Start Here	Read this first: what the workbook does and how to use it.
Setup	Your plant, currency, targets, scrap values per kg, and the parts, operations, costs and reasons lists.
Scrap Log	One row per scrap entry: part, the operation where it was scrapped, reason and quantity. Cost is calculated.
Production Log	One row per part per production day: units produced. Scrap and its cost come from the Scrap Log.
Dashboard	Scrap cost, scrap rate and where the money goes, for the part and dates you choose.
Method	How every number is calculated, with assumptions, limits and sources.
Verify	Self-check: the workbook's formulas recomputed on fixed inputs against an independent reference.

What each number means

Quantity	How it is calculated	Units
Material write-off	Scrapped x material cost per unit (Parts list).	currency
Conversion write-off	Scrapped x conversion to date: the cost the part had absorbed by the operation where it was scrapped (SUMIFS over the Setup cost table by part and operation).	currency

Quantity	How it is calculated	Units
Scrap mass	Scrapped x mass per unit.	kg
Disposal and recovery credit	Scrap mass x disposal charge per kg, and scrap mass x recovery credit per kg (Setup).	currency
Net scrap cost	Material + conversion + disposal - recovery credit. Gross scrap cost (before recovery) = material + conversion + disposal.	currency
Production value	Units produced x standard cost per unit (Parts list).	currency
Scrap rate	Units scrapped / units produced. Over several rows: sum of scrapped / sum of produced.	%
Scrap cost share	Net scrap cost / production value, from sums.	%
Scrap cost per good unit	Net scrap cost / (units produced - units scrapped): what each good unit carries.	currency/unit
Dashboard roll-ups	SUMIFS over each log restricted to rows whose View date is filled in (inside the part and date filters). Weeks start on Monday.	-
Pareto	Net scrap cost per reason, largest first, with share and cumulative share; ties keep list order. Hidden helper columns AO:AQ on the Dashboard hold the unsorted values and ranks.	currency, %

Assumptions, limitations, sources and the self-check (the Verify sheet, which recomputes the workbook's formulas on fixed test inputs) are in the workbook. The last page shows the Dashboard with the example data for Kestrel Castings, a fictional business.

Free from MFG Calcs - keep this credit when you share it.

Engineering estimates for planning and improvement work. Verify the results against your own process, data and standards before you rely on them.

Scrap Cost Tracker

Scrap cost, scrap rate and where the money goes, for the part and dates you choose.

mfgcalcs.com

Part

From

To

Showing 140 scrap entries and 120 production rows. Leave the filters blank to include everything; dates are inclusive.

NET SCRAP COST (USD)	SCRAP RATE	SCRAP COST / PRODUCTION VALUE	COSTLIEST SCRAP REASON
7,977	1.63%	1.12%	Leak
Material + conversion + disposal - recovery	Target 2.00%	Target 1.00%	Ranked by net cost, see the Pareto
	On target	Above target	

Scrap cost as a share of production value, by week



Net scrap cost by reason

