# Rework and Sort Cost Log

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

# Rework and Sort Cost Log

Log every rework and sort job and see what it costs in labour, material and charges, by cause, part and week, and what was recovered.

For: Quality managers, plant managers, supplier quality engineers and cost accountants who need rework, sorting and containment in money.

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## Quick start

1. On Setup, type your plant name and currency, then replace the example labour types (with their loaded rates), parts and causes.
2. On Rework Log, add one row per rework or sort job: units handled, person-minutes per unit, labour type and any material, machine or inspection charges.
3. When a supplier or customer pays part of it back, type the amount in Recovered.
4. Read the Check column, then use the Dashboard filters to look at one part, one cause or one month.

## What is in the workbook

| | |
|---|---|
| **Start Here** | Read this first: what the workbook does and how to use it. |
| **Setup** | Your plant and currency, and the labour rates, parts and causes the log uses. |
| **Rework Log** | One row per rework, sort or containment job: units, labour, material and charges, with the cost. |
| **Dashboard** | What rework and sorting cost, and where it came from, for the parts, causes 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. |
| **About MFG Calcs** | Everything MFG Calcs offers, free: calculators, templates, tariff tools, data and the Calkee AI helper. |

## What each number means

| Quantity | How it is calculated | Units |
|---|---|---|
| **Units handled, minutes per unit and charges** | Typed per row. Minutes are person-minutes per unit handled; charges and recoveries are amounts for the whole job. | nits, min, currenc |
| **Labour hours** | Units handled x minutes per unit / 60. | h |
| **Labour cost** | Labour hours x the labour type's loaded rate from Setup. | currency |
| **Material cost** | Units handled x material per unit. | currency |

| Quantity | How it is calculated | Units |
|---|---|---|
| **Total cost** | Labour cost + material cost + machine charges + inspection charges. | currency |
| **Cost per unit** | Total cost / units handled; on the Dashboard, the sum of total cost / the sum of units handled. | currency/unit |
| **Net cost** | Total cost - recovered (paid back or credited by a supplier or customer). | currency |
| **Reject rate** | Units rejected / units handled. | % |
| **Source and labour rate** | Looked up from the Causes and Labour types lists on Setup (INDEX/MATCH). Blank means the name is not on the list, and the Check column says so. | - |
| **Dashboard roll-ups** | Every figure is a SUMIFS over the Rework Log restricted to rows whose View date is filled in (inside the filters); weeks run Monday to Sunday. | - |
| **Cost-by-cause Pareto** | Total cost per cause, ranked largest first by COUNTIF ranks (ties keep list order), with each cause's share and the cumulative share. Helper columns AO:AQ on the Dashboard (hidden) 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 Linden Valley Components, a fictional business.

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

# Rework and Sort Cost Log

*What rework and sorting cost, and where it came from, for the parts, causes and dates you choose.*

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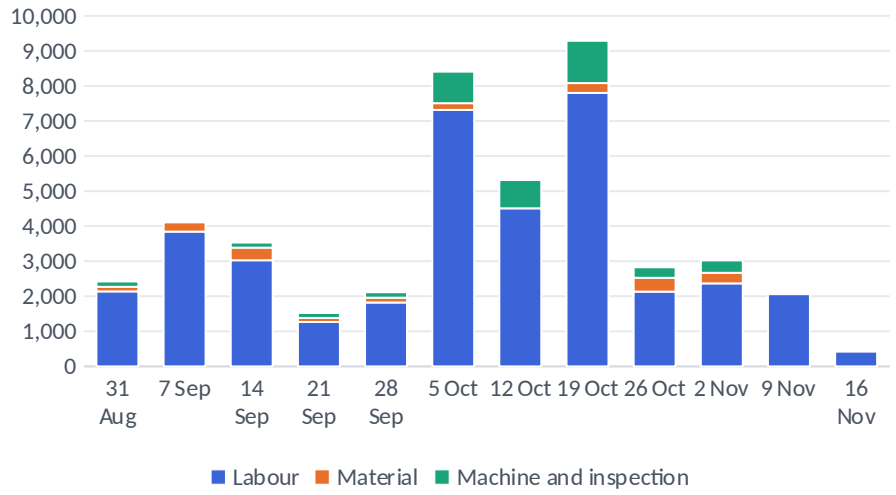
| | | | |
|---|---|---|---|
| Part | | From | |
| Cause | | To | |

*Showing 66 jobs. Leave the filters blank to include everything; dates are inclusive. Money in USD.*

| TOTAL COST (USD) | NET OF RECOVERIES (USD) | LABOUR HOURS | COST PER UNIT (USD) |
|---|---|---|---|
| **45,030** | **28,015** | **1,164.3** | **0.4592** |
| Labour + material + charges | Total cost - recovered | Person-hours of rework and sorting | Total cost / units handled |

## Rework and sort cost by week




## Total cost by cause (Pareto)

