

Pareto analysis — scrap causes

All records

ANALYSES IN FILE
1
Scrap causes — March

CATEGORIES
8
in "Scrap causes — March"

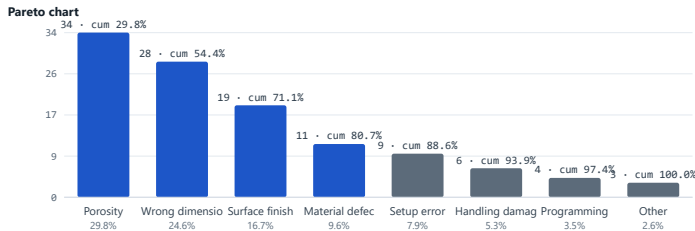
OCCURRENCES
114
in the largest analysis

THE VITAL FEW
4 of 8
categories drive 80.7% of the total — 80% cutoff

TOP CATEGORY
Porosity
29.8% of the total

IMPACT RANKING
4 priced
impact values present — switch "Rank by" to use them

12 of 12 record(s) included. All records. Amounts in USD.



Blue bars are the vital few — the categories that, taken in order, account for the total up to the cutoff. Grey bars are the trivial many. Each bar's label shows its value and the running cumulative share. Blue bars are the vital few — the categories that, taken in order, account for the total up to the cutoff. Grey bars are the trivial many. Each bar's label shows its value and the running cumulative share.



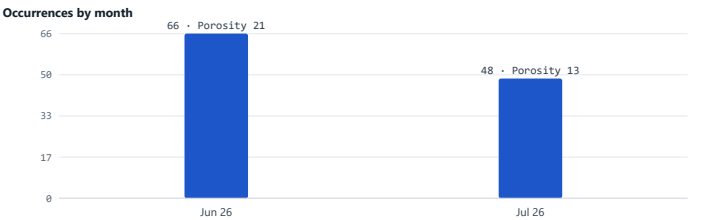
The whole point of the analysis in one picture: a handful of categories on one side, everything else on the other. If the two shares are close to equal, the concentration is weak and a Pareto ranking will not save you much prioritisation effort. The whole point of the analysis in one picture: a handful of categories on one side, everything else on the other. If the two shares are close to equal, the concentration is weak and a Pareto ranking will not save you much prioritisation effort.

Ranked categories

RANK	CATEGORY	COUNT	SHARE	CUMULATIVE	VITAL FEW	TOTAL IMPACT
1	Porosity	34	29.8%	29.8%	✓	\$1,445.00
2	Wrong dimension	28	24.6%	54.4%	✓	\$1,064.00
3	Surface finish	19	16.7%	71.1%	✓	\$228.00
4	Material defect	11	9.6%	80.7%	✓	\$605.00
5	Setup error	9	7.9%	88.6%		—
6	Handling damage	6	5.3%	93.9%		—
7	Programming	4	3.5%	97.4%		—
8	Other	3	2.6%	100.0%		—
Total — 8 categories		114	100.0%		4 vital	\$3,342.00



The classic cumulative curve. Where it crosses the target line is the vital-few boundary: everything to the left of the crossing is where the concentration sits. A curve that hugs the diagonal means the total is spread evenly and no small set of categories dominates. The classic cumulative curve. Where it crosses the target line is the vital-few boundary: everything to the left of the crossing is where the concentration sits. A curve that hugs the diagonal means the total is spread evenly and no small set of categories dominates.



Is the top cause growing or shrinking? After you act on the vital few, this is where the evidence shows up — the top bar segment should fall in the following months. Undated entries are not drawn here. Is the top cause growing or shrinking? After you act on the vital few, this is where the evidence shows up — the top bar segment should fall in the following months. Undated entries are not drawn here.

Vital-few detail

CATEGORY	COUNT	SHARE	TOTAL IMPACT	TOP SOURCE	LATEST NOTE
Porosity	34	29.8%	\$1,445.00	Casting line	Same blistering pattern as the main line, which points at the alloy batch rather than the ...
Wrong dimension	28	24.6%	\$1,064.00	CNC cell 2	Bore oversize on the flange run — tool offsets drifting between shifts, no first-off check...
Surface finish	19	16.7%	\$228.00	Polishing bay	Chatter marks under the coating — mop speed set by eye, no standard.
Material defect	11	9.6%	\$605.00	Goods-in inspection	Inclusions in bar stock from the new supplier — remaining batch quarantined pending certif...

Observation register

ANALYSIS	CATEGORY	COUNT	UNIT IMPACT	DATE	SOURCE	TOTAL IMPACT
Scrap causes — March	Porosity	21.0	42.50	2026-06-18	Casting line	\$892.50
Scrap causes — March	Porosity	13.0	42.50	2026-07-02	Casting line 2	\$552.50
Scrap causes — March	Wrong dimension	17.0	38.00	2026-06-20	CNC cell 2	\$646.00
Scrap causes — March	Wrong dimension	11.0	38.00	2026-07-09	CNC cell 1	\$418.00
Scrap causes — March	Surface finish	12.0	12.00	2026-06-23	Polishing bay	\$144.00
Scrap causes — March	Surface finish	7.0	12.00	2026-07-11	Deburr bench	\$84.00
Scrap causes — March	Material defect	11.0	55.00	2026-06-26	Goods-in inspection	\$605.00
Scrap causes — March	Setup error	5.0	0.00	2026-06-29	CNC cell 1	\$0.00
Scrap causes — March	Setup error	4.0	0.00	2026-07-13	CNC cell 2	\$0.00
Scrap causes — March	Handling damage	6.0	0.00	2026-07-05	Despatch	\$0.00
Scrap causes — March	Programming	4.0	0.00	2026-07-07	CNC cell 2	\$0.00
Scrap causes — March	Other	3.0	0.00	2026-07-15	Final inspection	\$0.00

Notes

Sample analysis — replace every entry with your own counts before relying on it or circulating it.

A Pareto analysis ranks what you counted — nothing more. If some categories are counted diligently and others are not, the chart ranks your counting discipline, not your problems; biased counting ranks your bias. The 80/20 split is an empirical tendency, not a law, and the cumulative percentages here are exact arithmetic on your entries, correct only if the entries are complete, the categories do not overlap, and the counts cover the same period and population. Ranking by impact is only as sound as the unit impact estimates entered. This is an analysis aid, not a substitute for investigating the causes it points at.