Sheet Utilization Log

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

Sheet Utilization Log

Log every job's sheet utilization against target, and split the rest into usable remnants and skeleton scrap with its cost.

For: Laser, plasma, waterjet and punch shop managers, nesting programmers, estimators and cost accountants in sheet metal fabrication.

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Quick start

1. On Setup, type your shop, currency and near band, and list your materials with their cost per square foot and target utilization.
2. On Jobs, give each job a row: date, material, sheet area purchased, part area shipped and usable remnant area.
3. Fix anything the Check column names.
4. Open the Dashboard: utilization against target by material, and where every job's sheet went.

What is in the workbook

Start Here	Read this first: what the workbook does and how to use it.
Setup	Shop, currency, the near band, and the materials with their cost per square foot and target utilization.
Jobs	One row per job: sheet, part and remnant area in; utilization against target and the cost of what is left out.
Dashboard	Sheet utilization against target for every job and material, and what the area outside parts and remnants costs.
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
Utilization	MIN(100%, part area / sheet area).	%
Gap to target and status	(Target - utilization) x 100; On target at or above target, Near target within the points on Setup, Below target further under.	points, -
Unshipped area	MAX(0, sheet area - part area).	sq ft
Outside parts and remnants	MAX(0, sheet area - part area - remnant area).	sq ft

Quantity	How it is calculated	Units
Cost outside parts and remnants, remnant at sheet cost	Each area x cost per sq ft.	currency
Material utilization	Total part area / total sheet area over the material's jobs.	%

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 Halden Laser Works, 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.

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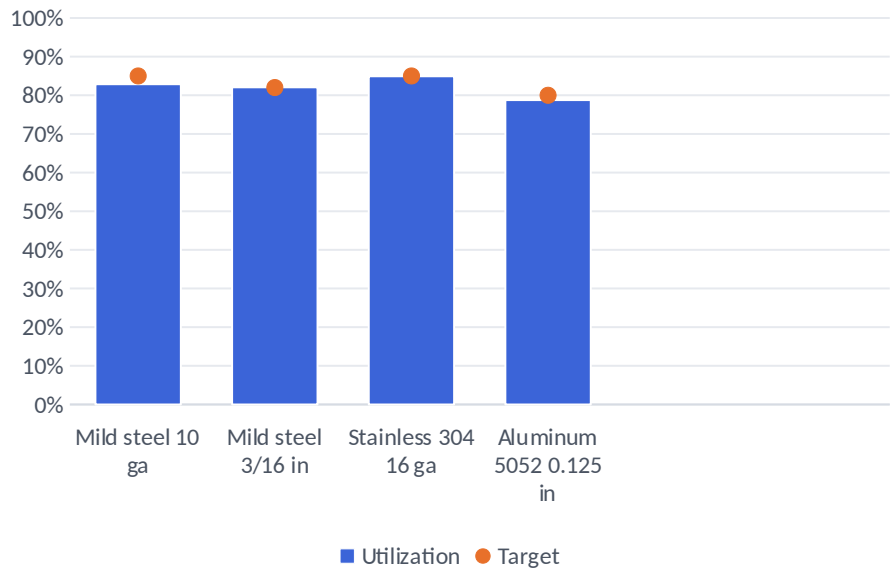
Sheet utilization against target for every job and material, and what the area outside parts and remnants costs.

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Halden Laser Works (example): 10 jobs from 2 Nov 2026 to 6 Nov 2026. Areas in sq ft; amounts in USD.

SHEET UTILIZATION	OUTSIDE PARTS AND REMNANTS	COST OUTSIDE PARTS AND REMNANTS	JOBS BELOW TARGET
82.6%	**505**	**3,611**	**3**
Part area / sheet area, every job	Sq ft of skeleton, kerf, rejects	At sheet cost	Further under than the near band

Utilization by material against target



Where each job's sheet went (sq ft)

