Jig and Fixture Cost

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

Jig and Fixture Cost

Cost every jig and fixture for a programme from build hours, hardware and design, against its budget, with the tooling cost each production part has to recover.

For: Tooling and manufacturing engineers, programme managers and estimators budgeting and tracking jigs and fixtures for a part launch.

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Quick start

1. On Setup, type your company, programme, currency and loaded build rate, and the fixture types you use.
2. On Fixtures, give each jig or fixture a row: type, build hours, hardware and stock, design and tryout, production quantity and budget.
3. Fix anything the Check column names.
4. Open the Dashboard: what each fixture costs, against its budget, and the programme headroom.

What is in the workbook

Start Here	Read this first: what the workbook does and how to use it.
Setup	Company, programme, currency, the loaded build rate, the over-budget band, and the fixture types.
Fixtures	One row per jig or fixture: hours, hardware, design, quantity and budget in; cost, cost per part and headroom out.
Dashboard	What every jig and fixture costs against its budget, where the cost goes, and the programme headroom.
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
Build labour	Build hours x loaded build rate.	currency
Total cost	Build labour + hardware and stock + design and tryout.	currency
Cost per part	Total cost / production quantity.	currency per part
Headroom	Budget - total cost.	currency
Over budget	Total cost / budget - 1.	%

Quantity	How it is calculated	Units
Status	On target within budget; Near target up to the near band over it; Above target beyond.	-

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 Brennock 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.

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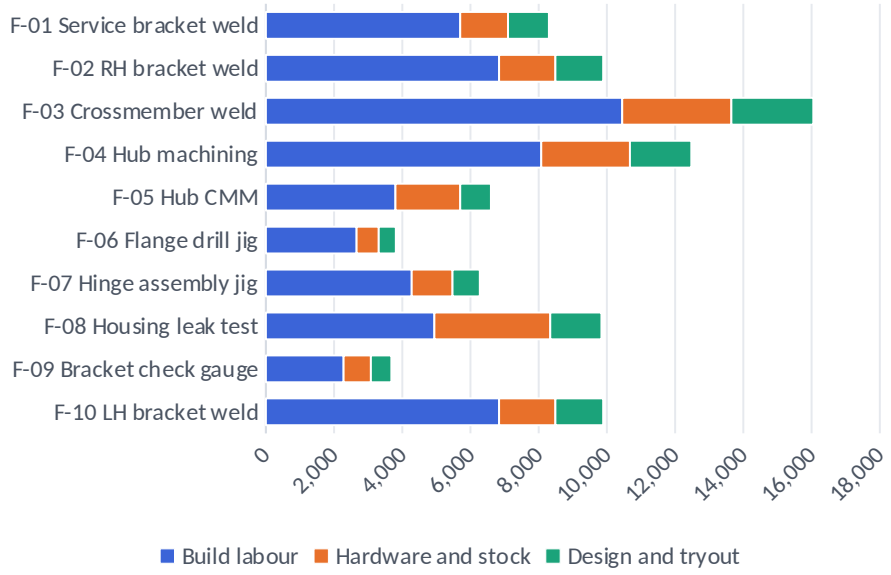
What every jig and fixture costs against its budget, where the cost goes, and the programme headroom.

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Brennock Components (example), Bracket and hub launch: 10 fixtures at 95.00 USD a build hour. Amounts in USD.

FIXTURES	FIXTURE COST (USD)	PROGRAMME HEADROOM (USD)	FIXTURES OVER BUDGET
10	**86,810**	**-810**	**2**
Rows on Fixtures	Labour, hardware, design and tryout	Budgets - costs; negative = over	More than the near band over

What each fixture costs



Over (+) or under (-) budget

