Autoclave Cycle Cost

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

Autoclave Cycle Cost

Cost every autoclave cure cycle, split it across the jobs that shared the load, and see the cost per part and the empty capacity each cycle ran with.

For: Composites cost estimators, production planners and cost accountants running autoclave cure cycles.

Version 1.0.0 · updated 11 November 2026

Quick start

1. On Setup, type your company and currency, list your autoclaves with their burdened rate per cycle hour, and set the target load factor.
2. On Cycles, give each cure cycle a row: date, autoclave, cure schedule and cycle hours.
3. On Jobs, give each job in a cycle a row: its share of the load, parts and its own setup and quality cost. Fix anything the Check columns name.
4. Open the Dashboard: what each cycle cost, what was charged to jobs, and the cost of the empty space.

What is in the workbook

Start Here	Read this first: what the workbook does and how to use it.
Setup	Company, currency, the autoclaves with their burdened rate, and the target load factor.
Cycles	One row per cure cycle: autoclave and hours in; vessel cost, load, empty capacity and status out.
Jobs	One row per job in a cycle: share of the load and setup in; the job's cycle cost, cost per hour and cost per part out.
Dashboard	What each cure cycle cost, what was charged to jobs, the empty capacity, and the load against your target.
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
Vessel cost	Cycle hours x burdened rate of the autoclave.	currency
Load	The shares of load of the cycle's jobs, added up.	%
Charged to jobs	Vessel cost x load.	currency
Empty capacity cost	Vessel cost x (1 - load), never below 0.	currency

Quantity	How it is calculated	Units
Chargeable cycle cost (job)	Cycle hours x burdened rate x the job's share of load.	currency
Total cycle cost (job)	Chargeable cycle cost + the job's setup and quality cost.	currency
Cost per hour and per part	Total cycle cost / cycle hours; total cycle cost / parts in load.	currency
Load factor	Sum of cycle hours x load / sum of cycle hours.	%
Status	Over capacity above 100%; On target at or above the target load; Near target within the near band; Below target further under.	-

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 Brantwood Composites, 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.

Autoclave Cycle Cost

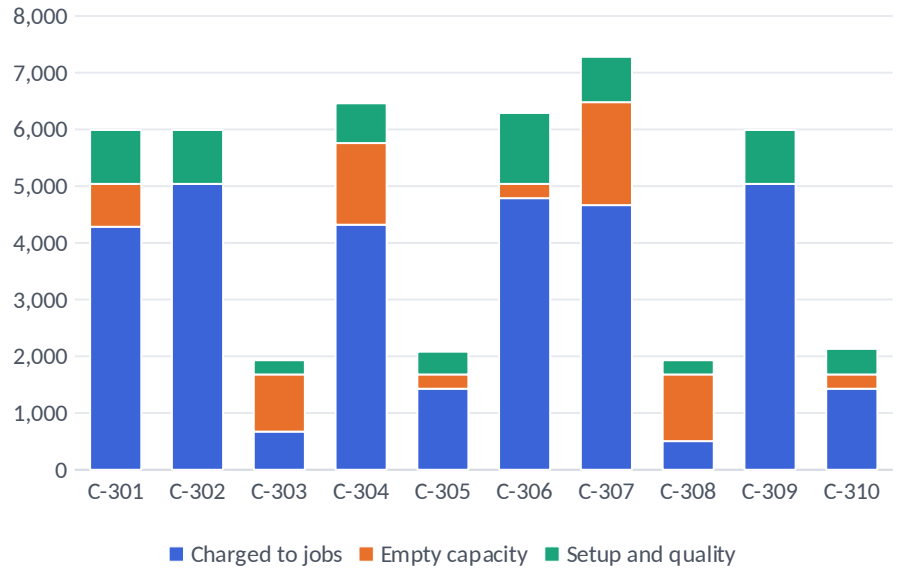
What each cure cycle cost, what was charged to jobs, the empty capacity, and the load against your target.

mfgcalcs.com

Brantwood Composites (example): 10 cycles, 16 jobs on 2 autoclaves. Target load 80%. Amounts in USD.

CYCLES	CHARGED TO JOBS (USD)	EMPTY CAPACITY COST (USD)	LOAD FACTOR
10	**39,120**	**6,950**	**79.8%**
Rows on Cycles	Job cycle cost with setup and quality	Vessel cost charged to no job	Hour-weighted share of the vessel used

Where each cycle's cost went



Load against target

