Plasma Cutting Cost

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

Plasma Cutting Cost

Cost every plasma cutting job from its cell time, torch-on time and setup, per part and against the quoted price, and see which jobs miss your target margin.

For: Fabrication estimators, plasma and profile cutting supervisors, and cost accountants at metal fabricators and steel service centres.

Version 1.0.0 · updated 11 November 2026

Quick start

1. On Setup, type your company, currency and target margin, and list your plasma machines with their loaded cell rate, consumable set price and arc-hour life.
2. On Jobs, give each cutting job a row: machine, parts cut, elapsed cycle and torch-on minutes per part, setup cost and quoted price per part.
3. Fix anything the Check column names.
4. Open the Dashboard: cost per part against price, where it goes, and the jobs below target margin.

What is in the workbook

Start Here	Read this first: what the workbook does and how to use it.
Setup	Company, currency, target margin, and the plasma machines with their cell rate and consumable wear.
Jobs	One row per cutting job: times, setup and price in; cost per part, margin and status out.
Dashboard	Cost per part for every cutting job, where it goes, and the margin 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
Wear rate	Consumable set price / arc-hour life.	currency per arc h
Arc hours	Parts cut x torch-on minutes per part / 60.	h
Cycle hours	Parts cut x cycle minutes per part / 60.	h
Arc-on share	Arc hours / cycle hours.	%

Quantity	How it is calculated	Units
Torch cost	Arc hours x wear rate.	currency
Cell cost	Cycle hours x loaded cell rate.	currency
Total cost	Torch cost + cell cost + setup cost.	currency
Cost per part and margin	Total cost / parts cut; (quoted price - cost per part) / quoted price.	currency, %
Status	On target at or above the target margin; Near target within the near band under it; 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 Tarrant Steelworks, 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.

Plasma Cutting Cost

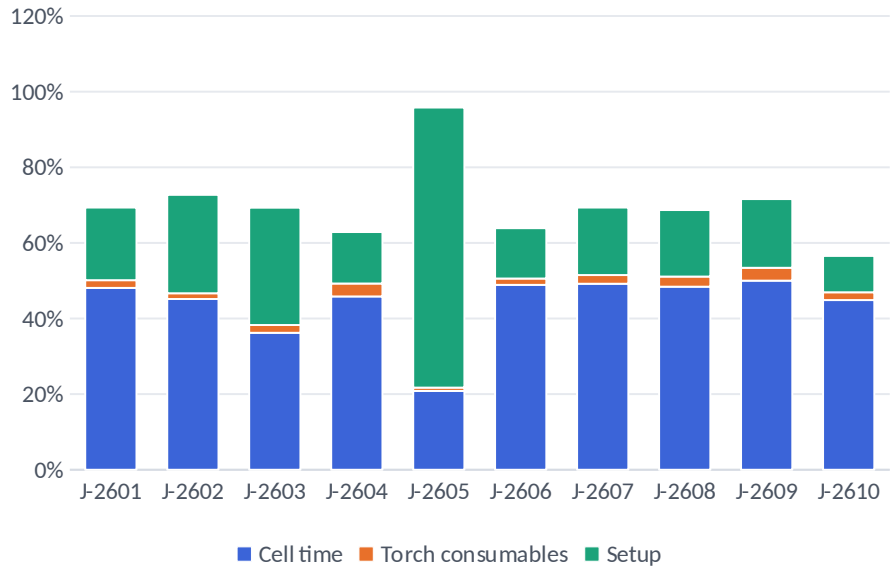
Cost per part for every cutting job, where it goes, and the margin against your target.

mfgcalcs.com

Tarrant Steelworks (example): 10 jobs, 2,542 parts on 2 machines. Target margin 30%. Amounts in USD.

JOBS	CUTTING COST (USD)	TORCH CONSUMABLES (USD)	JOBS BELOW TARGET MARGIN
10	**4,417**	**150**	**1**
Rows on Jobs	Cell, torch and setup	Arc hours x wear rate	Status Below target

Cost per part as a share of price



Margin against target

