Transformer Cost Estimator

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

Transformer Cost Estimator

Work out each transformer order's cost per accepted unit, including what its final rejects and tooling cost, and compare it with the quoted price and your target margin.

For: Estimators, cost accountants, production and sales engineers at transformer, inductor and magnetics manufacturers.

Version 1.0.0 · updated 11 November 2026

Quick start

1. On Setup, type your company, currency, target margin and the band that counts as near target.
2. On Orders, give each order a row: accepted and rejected units, core, winding and integration cost per start, tooling and NRE, and the quoted price.
3. Fix anything the Check column names.
4. Open the Dashboard: orders below target margin, what the final rejects cost, and where each order's price goes.

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 band that counts as near target.
Orders	One row per order: units, cost per start, NRE and price in; cost per accepted unit, margin and status out.
Dashboard	Cost per accepted unit for every order, what final rejects and NRE add, 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
Starts	Accepted + final rejects.	units
Acceptance	Accepted / starts.	%
Recurring per start	Core cost + winding cost + integration cost.	currency
Order cost	Starts x recurring per start + tooling and NRE.	currency
Reject cost	Final rejects x recurring per start.	currency
Cost per accepted unit	Order cost / accepted.	currency

Quantity	How it is calculated	Units
Reject cost per unit and NRE per unit	Reject cost / accepted; tooling and NRE / accepted.	currency
Margin	(Quoted price - cost per accepted unit) / quoted price.	%
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 Pellworth Magnetics, 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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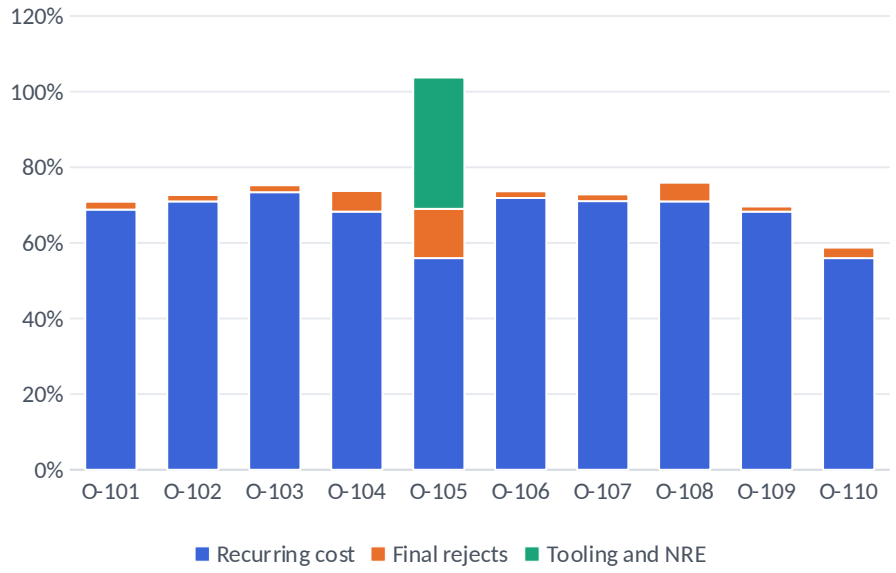
Cost per accepted unit for every order, what final rejects and NRE add, and the margin against your target.

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Pellworth Magnetics (example): 10 orders, 3,850 accepted units. Target margin 25%. Amounts in USD.

ORDERS	TOTAL ORDER COST (USD)	COST OF FINAL REJECTS (USD)	ORDERS BELOW TARGET MARGIN
10	**96,668**	**4,588**	**1**
Rows on Orders	Starts x cost per start + NRE	Rejects x cost per start	Status Below target

Cost per accepted unit as a share of price



Margin against target

