

Hose Assembly Cost Estimator

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

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Hose Assembly Cost Estimator

Cost a hydraulic or industrial hose assembly from its overall length and fittings: hose, fittings, extras, labour and fixed job cost, priced cost-plus for five quantities.

For: Estimators, counter staff and owners of hose and fluid power shops, and buyers checking a hose assembly quote.

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Quick start

1. On Setup, type your company name, currency, labour rate, overhead, markup and price step, then your hose and fitting catalogue with prices and cut-off allowances.
2. On Estimate, pick the hose, the length unit and the two end fittings, and type the overall length and cut waste.
3. Add the extras (sleeve, caps, tags, adapters) and check the labour operations and their times.
4. Type five quantities and read the cost per assembly, unit price and margin for each.
5. On the Dashboard, pick a quantity to see the tiles, the two charts and where the cost goes.

What is in the workbook

Start Here	Read this first: what the workbook does and how to use it.
Setup	Your company, currency, labour rate, overhead, markup, price step, and the hose and fitting catalogue.
Estimate	The assembly, hose and cut length, fittings and extras, labour, and five quantities.
Dashboard	Unit price, cost and margin at the quantity you pick, the cut length, and where the cost of a hose assembly goes.
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
Cut length	Overall length - cut-off allowance A - cut-off allowance B, in the chosen length unit.	in or mm
Cut length in the price unit	To feet: inches / 12 or mm / 304.8. To metres: inches x 0.0254 or mm / 1000.	ft or m
Hose cost	Cut length in the price unit x hose price x (1 + cut waste).	currency/assembly

Quantity	How it is calculated	Units
Fittings and extras	Fitting A + fitting B (with ferrules) + the sum of extras x quantity per assembly.	currency/assembly
Labour	Seconds per assembly / 3600 x labour rate x (1 + overhead), summed over the operations.	currency/assembly
Setup and fixed job cost	Setup minutes / 60 x labour rate x (1 + overhead), summed, + other fixed job cost; per assembly / quantity.	currency
Cost per assembly	Hose + fittings and extras + labour + setup and fixed job cost / quantity (the Cost per Hose Assembly calculator's model).	currency/assembly
Unit price	CEILING(cost x (1 + markup) + tooling charge / quantity, price step), the Hose Assembly Quote Price calculator's cost-plus quote, rounded up.	currency/assembly
Margin before tooling	(Price - tooling per assembly - cost) / (price - tooling per assembly).	%
Labour hours	Setup minutes / 60 + quantity x seconds per assembly / 3600.	h

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 Northgate Hydraulics, 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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Unit price, cost and margin at the quantity you pick, the cut length, and where the cost of a hose assembly goes.

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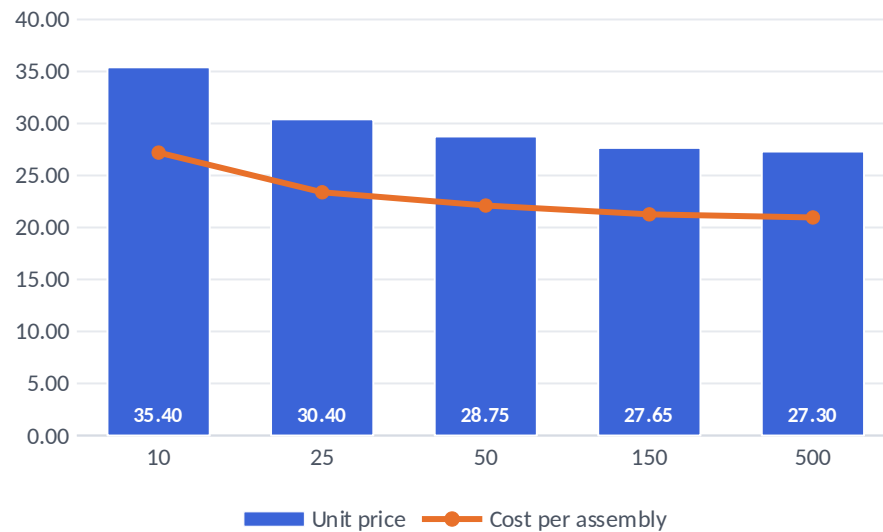
Quantity shown

150

Showing 150 assemblies of HA-08-0036-JJ90: SAE 100R2AT 2-wire, -08 (1/2 in). Pick another quantity in the yellow cell.

UNIT PRICE (USD/ASSEMBLY)	COST PER ASSEMBLY (USD)	MARGIN BEFORE TOOLING	HOSE CUT LENGTH
27.65	21.26	23.1%	32.10
Rounded up to your price step	Hose, fittings, labour and fixed cost	Markup 30% on cost	in, from 36 overall

Unit price and cost by quantity



Where the cost per assembly goes

