



MANUFACTURING QUOTATION

Date: September 29, 2026 | Reference: Q-20260929 | Components quoted: 1
Engine: AI-extracted

ESTIMATE ASSUMPTIONS

This quote assumes 6061-T6 Aluminum at \$4.50/lb plus 25% handling and 5% scrap, an \$100/hr shop rate, 0.9 hr setup, and standard industry machining times. These are baseline defaults. Send your actual shop rate and typical setup times, and your quotes move toward your numbers.

ENGINE PARAMETERS & SCOPE

Estimates are calculated using Zenith's proprietary geometric parsing engine from the supplied 2D drawing. Material is priced from barstock or plate, not net part volume: plate sawn oversize (+0.25 in on length and width, +0.0625 in per machined face) for milled parts, round bar (largest diameter + 0.125 in, length + 0.250 in) for turned parts. Machining time is estimated per feature (turning, milling, drilling/boring, threading, facing/deburr) read from the print. Materials & densities used: 6061 Aluminum @ 0.098 lb/in3. QUOTE EXCLUSIONS & SPECIFICATIONS: Surface finishes / coatings; Heat treatment; Material certs; Tight-tolerance inspection ops; Custom tooling / fixtures.

QUOTATION SUMMARY

Component	Material	Complexity	Qty	Unit Price	Batch Total
Sample Part - Zenith Quoting	6061-T6 Aluminum	Low	25	\$15.0104	\$375.26
ESTIMATED PROJECT TOTAL					\$375.26



LINE DETAIL -- SAMPLE PART - ZENITH QUOTING

Drawing	ZQ-SAMPLE-001
Material	6061 Aluminum (drawing callout: 6061-T6 Aluminum)
Stock	plate 4.25 x 2.75 x 0.8125 in, sawn oversize (+0.25 on length and width, +0.0625 per machined face (1)); 9.5 cu in (0.931 lb/pc)
Machined features	4 hole(s) 1 slot(s)
Order profile	Small batch (11-100 pc) run efficiency x0.85
Pricing basis	Priced at general 2026 benchmarks. Send your real rates and setup times, and your quotes move toward your numbers.

Benchmark Material	Density lb/in3	Weight lb	Rate \$/lb	Stock Cost	Per pc, landed
6061 Aluminum <- selected	0.098	0.931	4.50	\$4.19	\$5.50
304 Stainless	0.289	2.744	3.50	\$9.61	\$12.61
Steel (carbon/alloy)	0.284	2.697	1.50	\$4.05	\$5.32

Landed = stock cost x 1.25 handling x 1.05 scrap allowance; the landed figure is the one on the material line below.

Material plate (25 pc x 0.931 lb @ \$5.4964/pc landed)	\$137.41
Machining labor (2.0928 min/pc x 25 pc @ \$100.00/hr)	\$87.20
Setup / programming (0.54 hr fixturing @ \$100.00/hr + 0.36 hr programming @ \$60.00/hr, one-time; 1 setup: all features from the top face)	\$75.60
Finishing / coating (none found on the print)	none
Subtotal	\$300.21
Margin (25%)	\$75.05

ESTIMATED TOTAL (batch of 25) \$375.26

Machining min/pc: turning 0 + milling 0.8 + drilling/boring 0.3 + threading 0 + facing/deburr 1.4 = 2.5. x0.85 run efficiency = 2.1 min/pc effective. Milling = slots 0.25 + edge profile 0.54 (stock sawn oversize). Send your real cycle times to recalibrate.

SAME PART, OTHER QUANTITIES

Qty	Batch total	Unit price
1	\$105.73	\$105.73 ea
10	\$206.80	\$20.68 ea
25 (quoted)	\$375.26	\$15.0104 ea
50	\$656.02	\$13.1204 ea
100	\$1,217.55	\$12.1755 ea

Same rates at other quantities. Setup and programming are charged once (\$75.60), so the unit price falls as the run grows. Material price breaks from your supplier are not included, and a longer run may need different tooling or an extra setup.

BILLING & TERMS

Free while we're in beta. When the beta ends, you'll get 30 days' notice before anything costs money. No portals, no accounts, no software to learn: forward the print to quotes@zenithquoting.com and the quote comes back the same way.