

How Paperless Parts Improves Quoting in Your Shop



Notes:

- ALL BURRS TO BE REMOVED AND ALL SHIP EDGES TO BE BROKEN TO RADIUS OF .005-.015"
- DIMENSIONS APPLY AFTER FIN
- UNLESS OTHERWISE SPECIFIED UNFINISHED DIMENSIONS ARE BASIC DIMENSIONS
- SUPPLIER PROVIDE FIRST ARTICLE INSPECTION WITH FIRST LOT
- MATERIAL: ALLOY STEEL 4140
- FINISH: PASPAT /ASTM A892

**DETAIL A
SCALE 1:2**

**SECTION B-B
SCALE 1:2**

Unless otherwise stated... dimensions are in inches		THIRD ANGLE PROJECTION		STORRO & CAMARILLO ADVANCED MANUFACTURING		Storro & Camarillo Advanced Manufacturing			
PROJECT BY Kyle May	DATE 02/01/2025			Part description: HEAT-EXPANSION KEYED BOX					
QUALITY Riley Leonard	DATE 02/24/2025			Revision:		MATERIAL 4140			
BY Jack Rendin	DATE 07/07/2025			REV		PPZ-TT-01006			
				QUANTITY 1-2	SCALE 1:2	DRW	PRT	APP	DWG



The screenshot shows the SolidWorks software interface with the 'Tolerances' menu open. The path to select 'Smallest (upper or lower)' is highlighted. A tooltip at the bottom explains the selection.

TOLERANCES		LENGTH TOLERANCES	
Length tolerances >		Smallest (upper or lower) >	
Diameter tolerances >		Total tolerance >	
Radius tolerances >		Upper >	
Angular tolerances >		Lower >	
Type >		Type >	
2x Count >		2x Count >	
✓ Any		✓ Any	
⊗ None		⊗ None	

① The smaller of the upper or lower bound tolerance.



PROCESS

Change Process

SHEET METAL

Edit Material Properties

REQUESTED FINISHES

Sheet Metal

Aluminum 6061-T6

Paint (Sim)

Materials

Operations

	Setup Time	Run Time	1	25
Admin	30.00 min	---	\$32.50 \$32.50	\$32.50 \$1.30
Laser	30.00 min	0.00 min	\$50.00 \$50.00	\$50.00 \$2.00
Forming	45.00 min	0.75 min	\$76.25 \$76.25	\$106.25 \$4.25
QA	---	---	\$25.00 \$25.00	\$25.00 \$1.00
Paint	---	---	\$150.00 \$150.00	
Operation Summary			\$333.75	
Yield			100.00%	
Make Quantity			1	

Components

Costing

ADD OPERATION

Operation Formula - Laser

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Units in()

sheet_metal = analyze_sheet_metal()

thickness = var('Sheet Metal Thickness', 0, '', number, frozen = False)

if sheet_metal:

thickness.update(sheet_metal.thickness)

else:

thickness.update(min(part.size_x, part.size_y, part.size_z))

thickness.freeze()

cut_length = var('Cut Length', 0, 'mm', number, frozen=False)

pierce_count = var('Pierce Count', 0, 'number of times Laser needs to pierce', number, frozen=False)

cut_length.update(sheet_metal.total_cut_length)

cut_length.freeze()

pierce_count.update(sheet_metal.pierce_count)

pierce_count.freeze()



Paperless Parts connects with the other critical systems in your shop, including your ERP, CRM, and accounting software. Its API makes it easier to move quote data between systems, reduce duplicate data entry, and keep critical information connected throughout your operation.

Real Results

Manufacturers specializing in machining, sheet metal fabrication, additive, and rubber manufacturing drive tangible business results with Paperless Parts.

Greater resource efficiency

"With Paperless Parts, quoting has become so much easier and less time-consuming. **Everything I need is in one platform**, making my job so much more efficient."



Increased revenue & profitability

"Since implementing Paperless Parts, we feel busier. We're on track to hit end-of-year numbers that are **20-30% higher** than last year's."



Consistency & standardization

"The scientific approach of Paperless Parts is a game-changer. We no longer quote based on 'feel' but rely on **data-driven calculations** that get us to a quote faster, giving us a competitive edge in the market."



Process optimization

"With Paperless Parts integrating with our ERP, our ability to go from RFQ, to quote, to order, to job has improved significantly as the **hand-off of responsibilities is seamless**. As a result, we've been able to keep pace with our record-best bookings over the last 6 months."



Reduced risk

"We had a part that cost us over \$100K because we missed an EDM step. We put that part through Paperless and it caught it. That's what makes it such a benefit; **you are not going to make a huge mistake**."



See how Paperless Parts can transform your quoting process

Contact our team for a free custom part demo today at www.paperlessparts.com/demo.