AMERICAN JOB SHOP MANUFACTURING

THE COMPETITIVE LANDSCAPE

LATEST INFORMATION
INDUSTRY INSIGHTS
WHO TO WATCH
HOW TO REACT

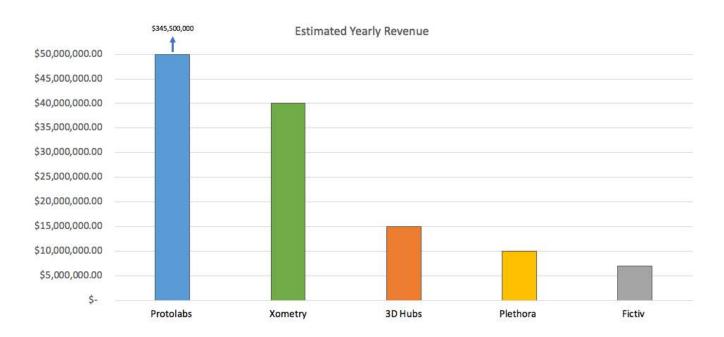
REPORT BY PAPERLESS PARTS





The custom part manufacturing industry is changing. American job shops face new threats. This report will help shop owners identify risks and take advantage of new trends.

- Product development cycles are shorter
- Part buyers go to the internet for fast quotes and short lead times
- Buyers expect quotes in hours and parts in days without a conversation
- Top part manufacturers are investing in building web based software quoting, ordering, and design feedback tools to connect with buyers on the internet
- One of the first to use these tools was Protolabs, who now has \$400M+ in revenue
- Fast growing part sourcing networks Xometry, 3D Hubs, and Fictiv use custom online quote and ordering tools
- Digital quotes and online ordering are key to new custom part revenue



HOW DO YOU COMPARE?

TTQ (Time to Quote)

Click or Copy this link to your browser for part Files

http://www.paperlessparts.com/sampleparts

Price them in your shop to compare

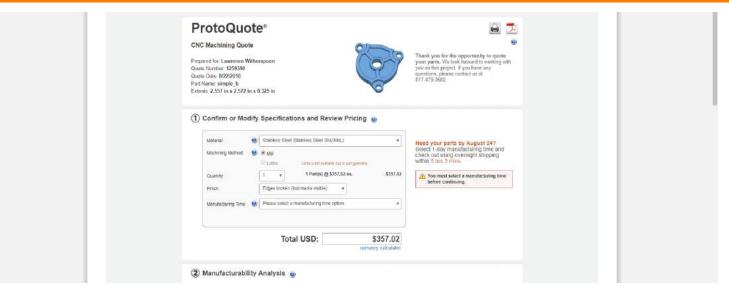




Protolabs

(NYSE: PRLB)

Founded: 1999
Manufacturing: In-house
ITAR Certified: Yes
Instant Quoting: Yes



Protolabs Quoting Interface

Protolabs' quoting engine produces an automated digital quote with the ability to complete orders online through a credit card or PO.

Quick Facts:

- Digital quoting interface for machining, molding, and 3D printing
- Interactive design for manufacturability feedback
- Proposed revisions to the buyer's uploaded model
- Potential buyers value the flexibility of pricing options and online checkout that minimize the need for interaction to quickly place an order



Credit Card & PO









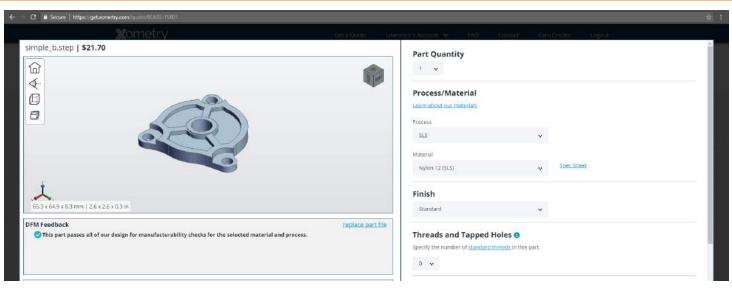
Xometry

(Private Funding: BMW, GE)

Founded: 2013

Manufacturing: Outsourced

ITAR Certified: Yes Instant Quoting: Yes



Xometry Quoting Interface

Xometry is a web-based sourcing network for on-demand custom manufactured parts.

Quick Facts:

- Xometry's business model revolves around controlling the customer relationship and reducing transparency between buyer and job shop
- Xometry is focused on driving prices down by increasing competition within their network
- By pitting shops in their network against one another, the business will go to the shop with the lowest price, a no-win situation for job shops











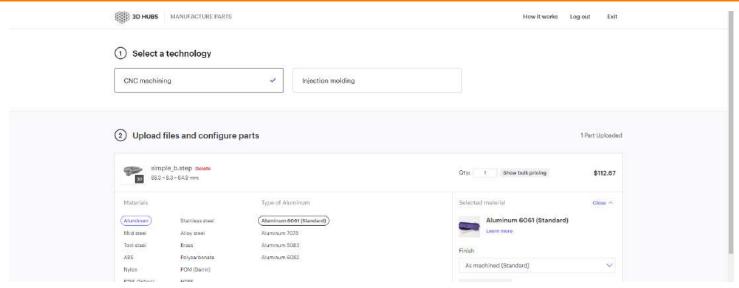
3D Hubs

(Private Funding: EQT, Balderton)

Founded: 2013

Manufacturing: Outsourced

ITAR Certified: No Instant Quoting: Yes



3D Hubs Quoting Interface

3D Hubs is a web based sourcing network focusing on 3D printing and CNC machining.

Quick Facts:

- Global network of 33,000+ 3D printers and 1000+ CNC machining centers
- Recently 3D Hubs has shifted their focus from 3D printing to the CNC machining market using the same online model
- Buyers do not know the idenity fo the jobshop, making 3D Hubs sourcing decicions upon lowest price



Credit Card & PO



Pricing, Qty, Lead Times, Materials



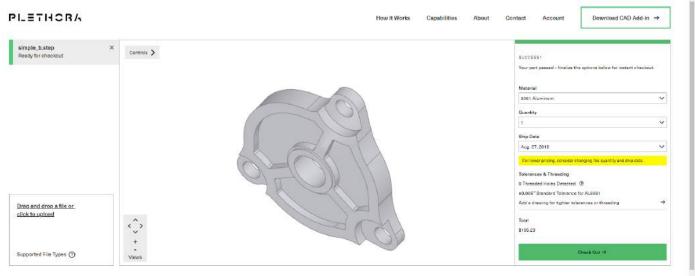




Plethora

(Private Funding: Lux, Founders)

Founded: 2013
Manufacturing: In-house
ITAR Certified: No
Instant Quoting: Yes



Plethora Quoting Interface

Plethora's proprietary machining technology and in-house CNC machining makes short lead times and low pricing possible.

Quick Facts:

- Plethora automates front-end quoting and back-end machine programming
- Focused on becoming the amazon.com for custom manufactured parts
- Plethora drive prices and lead-times down through the use of technology and automation in their facility



Credit Card & PO







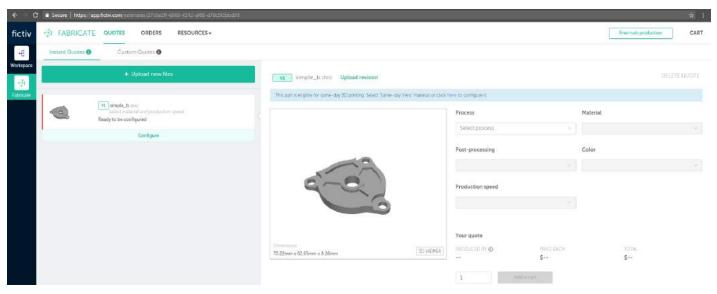


Fictiv

(Private Funding: Bill Gates, Accel)

Founded: 2013
Manufacturing: Outsourced (US/China)
ITAR Certified: No

Instant Quoting: Yes



Fictiv is an online sourcing network that leverages a large supply base to drive prices down while owning the customer relationship. Fictiv Quoting Interface

Quick Facts:

- From prototype to production, Fictiv is seeking the lowest price
- In June Fictiv raised \$25M to start moving production to China in a step similar to mfg.com
- Introducing a network of inexpensive Asian manufacturers to buyers will hurt US job shops



Credit Card & PO









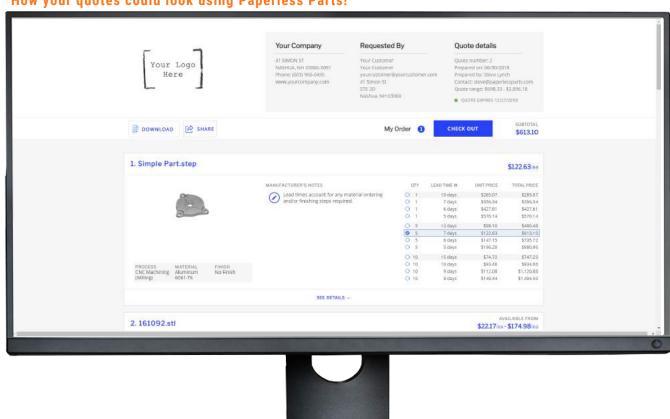


THANK YOU FOR READING!

To learn more about how your shop can be competitive, please visit our website:

www.paperlessparts.com/jobshops

How your quotes could look using Paperless Parts!









SMART RFQ FORM



CAPTURE EXPEDITE REVENUE



CREDIT CARD/PO PROCESSING