

ProtoQuote®

CNC Machining Quote

Prepared for: **42 Robotics**
 Quote Number: **1194542**
 Quote Date: **5/22/2018**
 Part Name: **shell**
 Extents: **4.409 in x 3.228 in x 4.409 in**



Thank you for the opportunity to quote your parts. We look forward to working with you on this project. If you have any questions, please contact us at 877.479.3680.

1 Confirm or Modify Specifications and Review Pricing

Material:	Aluminum (Aluminum 6061-T651)		
Machining Method:	<input checked="" type="radio"/> Mill <input type="radio"/> Lathe <small>Lathe is not available due to part geometry.</small>		
Quantity:	100	100 Part(s) @ \$1,075.32 ea.	\$107,532.00
Finish:	Edges broken and light bead blast		
Manufacturing Time:	Parts ship in 11-15 business days (standard price)		

Check out within 29 mins and your parts will ship from Protolabs on or before June 13.

Total USD: **\$107,532.00**
[currency calculator](#)

2 Manufacturability Analysis

As-Machined View

This view shows how your finished part will look after we machine it, including deviations from the desired shape. Note that colored indicators are representative, and not all machine artifacts may be shown.

Colored patches indicate material that will remain on your part. The colors below indicate the radius of the endmill that most nearly reaches these areas.

■ Black surfaces indicate features that will be incompletely milled leaving material on your part. These features will not be formed.

Please zoom and rotate the image to check for any colored indicators, as they may be very small.

Be sure to review the Thin Areas and Thread Assignment tabs.

Secondary operations are not supported at this time.

If you have technical questions about this quote please contact our Application Engineers at customerservice@protolabs.com or 877.479.3680.

If your feature is covered / skinned over by color, this feature will not be milled.

Cutter Radii Index:

= R 0.250 in / R 6.3 mm
 = R 0.125 in / R 3.2 mm
 = R 0.063 in / R 1.6 mm
 = R 0.031 in / R 0.8 mm
 = R 0.016 in / R 0.4 mm

Thin Areas

This view highlights any thin areas detected in your model. Thin areas may be machined thinner than designed and may chip, break out, bend or warp.

No thin areas were detected.

Secondary operations are not supported at this time.

If you have technical questions about this quote please contact our Application Engineers at customerservice@protolabs.com or 877.479.3680.

Thread Assignment

We were unable to find any features to thread. Please see our [Threading](#) page for more information.

Secondary operations are not supported at this time.

Original Part

This view shows your part model as we received it.

Secondary operations are not supported at this time.

If you have technical questions about this quote please contact our Customer Service Engineers at customerservice@protolabs.com or 877.479.3680.

3 Summary

Order Pricing

Specifications Selected

Quantity:	100	100 Part(s) @ \$1,075.32 ea.	\$107,532.00
Manufacturing Time:	Parts ship in 11-15 business days (standard price)		
Material:	Aluminum (Aluminum 6061-T651)		
Machining Method	Mill		

Check out within **29 mins** and your parts will ship from Protolabs on or before June 13.

[Upload a Revised Model](#)

Total USD: **\$107,532.00**

[currency calculator](#)

Notes

- Customers are responsible for ensuring that the properties and performance of the material selected meet the requirements of their application.
- Tolerances of +/- 0.005inch (0.13mm) are expected and generally achieved.
- The estimated manufacturing time is the best estimate available at the time of quote for the part. Actual manufacturing times are dependent on part complexity, the number of part numbers being ordered, quantity, material availability, workload at the time the order is placed and other factors. Reasonable efforts will be made to deliver within or as close to estimated manufacturing times as possible; however there is no assurance that any estimated manufacturing time will be met.
- Secondary operations are not supported at this time. Threads that cannot be produced with the Protolabs CNC machining process may not be highlighted correctly in the as-machined view due to the inconsistent methods by which they are represented in CAD models. Regardless of what is displayed in the as-machined view, threads will not be present in the finished part unless explicitly displayed in the Thread Assignment section of the ProtoQuote along with a corresponding thread type selection in the table. Please note there are limitations on the depths of threaded features and that in those instances where threads are cut from both sides of a given feature, the threads will not meet seamlessly. Thread selections will be listed in your order confirmation and should be reviewed for accuracy.

Terms and Conditions —ProtoQuote interactive quote

Terms and Conditions of Sale – Proto Labs, Inc.

Seller. As used herein, "Seller" means Proto Labs, Inc., a Minnesota corporation.

Proto Labs Quotes. Proto Labs provides a Quote for the Buyer's part(s) based on a 3D CAD model submitted by Buyer to Seller. Any change to the 3D CAD model requires an updated Quote. Quotes are valid for 30 days, after which pricing may change without notice. Seller reserves the right to correct clerical and other typographical errors in any quotation.

Offer and Contract Acceptance. These Terms and Conditions of Sale, together with a valid Quote, form a legally binding agreement (the "Agreement") and contains the entire understanding between Buyer and Seller for the goods and services provided by Seller and supersede any and all other agreements, representations and understandings of the parties, if any, whether oral or in writing. Buyer is deemed to have accepted this Agreement when it accepts a Quote or issues a purchase order or other writing expressing the Buyer's intent to proceed with the Agreement. This Agreement will govern any orders Seller accepts from Buyer and/or Buyer's authorized purchasers based on the Quote provided to Buyer. The terms and conditions contained herein shall be the only terms that shall govern the purchase and sale of the goods and services between Buyer and Seller, and no other terms and conditions shall apply and are hereby expressly excluded, including, without limitation, any terms contained in a request for quotation, purchase order, website, or elsewhere. The only additional terms in a request for quotation, purchase order, website or other writing that shall apply, if accepted by Seller, shall be terms regarding the description, price, quantity, and shipping destination for goods produced, and any and all other terms and conditions shall be excluded and deemed inapplicable. After Seller accepts an order, Buyer is responsible for any delivery delays or charges, in addition to the original price, due to a Buyer requested change that is agreed to in writing by Seller.

Termination for Convenience. Buyer may terminate an order in whole or in part at any time by written notice to customerservice@protolabs.com, effective upon receipt by Seller. In the event of termination, Seller reserves the right to invoice Buyer for all goods produced or services performed prior to receipt of notice of termination as well as for any resin purchased to make Buyer's parts which Seller is unable to return. This section shall not limit or affect the Buyer's right to cancel this order for breach by Seller.

Delivery; Quantity; Title. Any stated delivery time represents Seller's intended or typical delivery time, but actual delivery times may vary. Seller reserves the right to limit quantities at any time. Partial shipments may be delivered to Buyer. All parts are shipped FCA (Incoterms 2010) at Seller's facilities. Title

passes to the Buyer at the time and place of delivery to the carrier.

Price and Terms of Payment. All prices are quoted and payments shall be made in U.S. Dollars and are exclusive of freight, shipping, special packaging or handling, duties, and unless specifically stated, sales, excise, use or other taxes arising in connection with this transaction (other than taxes based solely on Seller's taxable income). No discounts are authorized. Payment may be made by Visa, MasterCard, Discover, American Express, or a form of prepayment acceptable to Seller. Upon credit approval, goods or services may be invoiced and all sums are due and payable according to the terms of the invoice. To the extent Buyer desires Seller to present invoices or other information electronically via Buyer's or a third party's electronic payment website, any costs associated with such access will be borne by Buyer.

Nonconforming Goods. Buyer shall inspect all goods upon delivery by Seller, and should any of the goods be nonconforming goods, Buyer must notify Seller, in writing, within ninety (90) days of delivery of the goods describing the nature of any nonconformity. Seller shall have the right and option to repair or replace any goods agreed between the parties to be nonconforming. Seller shall not have any obligation to repair, replace or otherwise compensate Buyer for nonconforming goods if Buyer fails to notify Seller in writing that goods are nonconforming within ninety (90) days of Seller's delivery of the goods.

Warranties. Seller assumes no responsibility for the design of the goods that are the subject of this transaction. To the extent Seller's personnel recommend design modifications or provide design analysis, simulation or advice, they do so only to help meet the requirements of Seller's own manufacturing process. The Buyer retains sole legal responsibility for the design specifications and performance of the goods that are the subject of this transaction. Buyer is solely responsible for ensuring the goods and services purchased from Seller meet applicable regulatory requirements. The Buyer represents and warrants to Seller that no information furnished or to be furnished by the Buyer to Seller constitutes information classified by the U.S. federal government as confidential, secret or top secret or similar designation by any international government.

SELLER MAKES NO REPRESENTATION OR WARRANTY, WHETHER EXPRESS OR IMPLIED, OF ANY KIND WHATSOEVER WITH RESPECT TO ANY GOODS OR SERVICES, INCLUDING BUT NOT LIMITED TO ANY WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT.

Without limiting the generality of the foregoing, Seller assumes no responsibility or liability for the selection of any materials for the goods that are the subject of this transaction. The Buyer is solely responsible for ensuring that materials selected for goods to be manufactured by Seller meet any applicable regulatory requirements or specifications including but not limited to Directive -2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS Directive) together with any national legislation implementing such Directive, ISO, FDA, UL, CSA, CE, TUV, FCC, NSF, and USP. Any statements made by Seller personnel or specifications provided by Seller regarding materials should be verified by the Buyer with the manufacturer of that material.

Indemnification. Buyer agrees to defend, indemnify and hold harmless Seller (and its employees, representatives and agents) from and against all claims, liabilities, losses, damages, penalties, fines and sanctions of any kind (including, without limitation, interest, attorneys' fees and expenses, customs duties, fines, taxes, penalties or any other governmental sanctions of any kind) resulting from or arising out of Buyer's use of Seller's goods or services, a breach of any provision of this Agreement or any third party claim for infringement of patent rights, trademark, copyrights or misuse of trade secret information.

Force Majeure. Seller shall not be liable for any failure to perform under this Agreement if such failure or delay is caused by acts of God, fire, storm, strikes, blackouts, labor difficulties, riots, inability to obtain materials, equipment, labor or transportation, governmental restrictions, or any other event beyond Seller's reasonable control. In the event of any shortage of raw materials or other supplies, Seller may allocate materials and supplies among its buyers in such manner as Seller may determine in its sole discretion, and shall have no liability to the Buyer on account of any delay or cancellation on account thereof.

Buyer-Supplied Materials – Injection Molding. If Seller agrees to use resin supplied by the Buyer for injection molding, the Buyer shall be solely responsible for supplying and delivering such materials in a timely manner at no cost or expense to Seller, of sufficient quality and in sufficient quantity (including allowances for loss, waste, or scrap that may occur for any reason) as Seller deems necessary to complete its obligations. Seller will not return waste, scrap (including sprues and runners) or de minimis amounts of material. Seller shall not be liable for, and the Buyer shall be obligated to pay any previously negotiated delivery premiums notwithstanding, any failure or delay in delivering any goods to be provided hereunder if such failure or delay is caused by the Buyer's failure to supply and deliver such materials in a timely manner or of such quality or in such quantity as Seller deems necessary. Seller's Buyer-supplied material storage policy is such that after one year of inactivity, Seller may destroy the Buyer-supplied material, in its discretion.

Service Levels – Injection Molding. Each Quote for injection molding services indicates a Service Level that applies to that Quote. If the Quote indicates a "Prototyping" Service Level, all Custom Tooling and Proprietary Components shall be and remain the property of the Seller. However, Seller shall not use Custom Tooling in the production of goods for any other buyer of Seller without the Buyer's express permission. As long as Seller is making parts for Buyer in Seller's facility, Seller will maintain Buyer's Prototyping Tooling to guarantee production of at least two thousand parts ("shots") produced. Subject to the Prototyping Tooling storage policy below, Seller will, in its discretion, repair or replace worn or damaged Tooling at Seller's expense until at least two thousand parts have been produced. Seller's Prototyping Tooling storage policy is such that after an eighteen (18) month period of inactivity on the Prototyping Tooling, Seller may destroy the Prototyping Tooling, in its discretion. The Prototyping Tooling guarantee does not apply to projects accepted on a "best effort" basis as agreed between the parties.

If the Quote indicates an "On-Demand Manufacturing" Service Level, all Custom Tooling shall be the property of the Buyer, however reusable Proprietary Components will remain the property of the Seller and all Custom Tooling will remain at Seller's production facility. As long as Seller is making parts for Buyer in Seller's facility, Seller will guarantee Buyer's On-Demand Manufacturing Tooling for the life of the project with no limitation on the number of parts produced. Subject to the On-Demand Manufacturing Tooling storage policy below, Seller will, in its discretion, repair or replace worn or damaged Tooling at Seller's expense with no limitation on the number of parts produced. Seller's On-Demand Manufacturing Tooling storage policy is such that after a three-year period of inactivity on the On-Demand Manufacturing Tooling, Seller may destroy the On-Demand Manufacturing Tooling, in its discretion. The On-Demand Manufacturing Tooling guarantee does not apply to projects accepted on a "best effort" basis as agreed between the

parties.

As used in this Agreement, "Custom Tooling" means tooling and molds developed specifically for the Buyer such as an A-side (cavity) block or insert, a B-side (core) block or insert, cam faces if the Tooling requires side actions, and inserts if the Tooling requires inserts. "Proprietary Components" means all proprietary or reusable components developed by Seller including fixturing, B-Side rails, pillars, insert carrier frames, cam sliders and angle pins, cooling jackets, heating jackets, alignment gimbals, cross-slides and vernier adjusters, setup jigs, sprue bushings, mold locks, reconfigurable ejectors, ejector pin plates and custom cut ejector pins, ejector clamps, shims, wedges, screws and springs or other reusable parts needed to make the Tooling ready for production. Due to the proprietary nature of Seller's process, Tooling is generally not compatible with or transferable to other equipment.

On-Time Expedited Delivery Guarantee. If Buyer selects an expedited quick-turn option, Seller guarantees the on-time delivery for the date selected. If Seller is unable to meet the selected date, Seller will refund a prorated portion of the expedite fee to reflect the delivery date actually achieved. For instance, for an injection molding order, if Buyer selects a quick-turn expedite of five business days, but the order actually ships in seven business days, Seller will refund the difference between the 5-day expedite fee and the achieved 7-day expedite fee. The On-Time Expedited Delivery Guarantee does not apply to standard lead times, projects accepted on a "best effort" basis, or limited availability services.

Buyer Intellectual Property. Buyer shall retain sole ownership of the copyright in files, all text, illustrations, software files and other materials provided by Buyer to Seller as well as of any deliverables, designs, including modifications or derivative works thereof, that may be produced for Buyer during the course of Seller's performance of services.

Seller Intellectual Property. Seller retains sole ownership in all proprietary software, processes, and procedures developed by Seller for the quoting, analysis, design, automation, and manufacturing of machined parts, injection molds, injection molded parts, and 3D printed parts. Seller retains ownership of the copyright in all text, illustrations or other materials provided by Seller to Buyer in a Quote. Buyer will not, without prior written approval of Seller (which may be withheld for any reason), remove any of Seller's markings or change Seller's Intellectual Property in any way.

Federal Government Contracts. Seller is a Large Business, registered in the System for Award Management (SAM). If this transaction is a subcontract under a federal government contract or subcontract, the Buyer and Seller agree that the goods and services provided by Seller to the Buyer under this agreement constitute "commercial items" as defined in FAR 2.101 (48 CFR § 2.101). In this regard Seller warrants that the goods and services provided under this agreement are priced at the same rate and in the same manner as Seller's comparable commercial agreements for similar goods and services and that such goods and services are sold in the commercial marketplace, subject to modifications of a type customarily available in the commercial marketplace.

Country of Origin. Seller makes no country of origin certification under this Agreement unless specifically agreed to in writing. Seller specifically disclaims any "passive" certifications included in any of Buyer's documents or communications related to this Agreement.

Confidentiality. "Confidential Information" means any information that Buyer discloses to the Seller that is proprietary to the Buyer and not generally known to the public. The Seller will not use any Confidential Information for any purpose except for the purposes of carrying out its obligations pursuant to this Agreement. The Seller will use the same degree of care (but no less than a reasonable degree of care) to protect the secrecy of and avoid disclosure and unauthorized use of the Confidential Information as the Seller employs with respect to its own confidential and proprietary information. Upon Buyer's written request, the Seller will destroy all documents containing or representing Confidential Information and all copies thereof, and erase any such Confidential Information from the Seller's computer systems except electronic copies that are electronically archived and not readily accessible. If requested by Buyer, Seller will provide written confirmation of such return or destruction and erasure to Buyer.

Export Compliance. Buyer and Seller will comply with all applicable export, restrictions and regulations of any U.S. agency or authority including but not limited to the Export Administration Regulations ("EAR") administered by the U.S. Department of Commerce, International Traffic in Arms Regulations ("ITAR") under the U.S. Department of State, and embargo controls administered by the U.S. Department of the Treasury's Office of Foreign Asset Controls ("OFAC") with respect to the goods or services that are subject to this Agreement. In order for Seller to conduct appropriate export control checks, the Buyer agrees to identify any export controlled (e.g., ITAR) goods in writing to Seller by the time Buyer accepts a quotation and to provide all pertinent information pertaining to the particular end Buyer, destination and intended use of goods. Seller reserves the right to stop shipping or providing goods if Seller has reason to believe that any shipment or sale of goods may violate any export control law.

Prohibited Purposes. Buyer warrants that the goods that are the subject of this transaction will not be implanted in a human body and are not subject to FAA inspection. Buyer certifies that its designs (e.g., 3D CAD models) submitted to Seller and the manufacture and delivery of goods according to the Buyer's design will not yield goods that are in violation of any federal firearms laws.

LIMITATION OF DAMAGES. IN NO EVENT SHALL SELLER BE LIABLE FOR ANY INCIDENTAL, INDIRECT, CONSEQUENTIAL OR PUNITIVE DAMAGES OF ANY KIND, WHETHER FOR BREACH OF ANY WARRANTY, FOR BREACH OF ANY OTHER TERM OR CONDITION, FOR NEGLIGENCE, ON THE BASIS OF STRICT LIABILITY, OR OTHERWISE. BUYER ACKNOWLEDGES THAT THE ESTIMATED AND ACTUAL FEES AND CHARGES PAID FOR THE SERVICES REFLECT THIS LIMITATION OF LIABILITY AND ALLOCATION OF RISK. THE TOTAL LIABILITY OF SELLER OR ITS SUPPLIERS TO BUYER UNDER THIS AGREEMENT SHALL IN NO EVENT EXCEED THE TOTAL SUMS PAID BY BUYER TO SELLER FOR THE ORDER GIVING RISE THE LIABILITY.

Patents. The goods and/or services that are the subject of this quote/order may be quoted and/or produced under one or more of the following US Patents: 6,701,200; 6,836,699; 7,590,466; 7,496,528; 7,123,986; 7,089,082; 7,630,783; 7,299,101; 7,574,339; 7,836,573; 7,840,443; 7,957,830; 8,140,401; 8,295,971; 8,239,284; 8,745,517.

Miscellaneous. The Agreement shall be governed by and construed in accordance with the laws of the State of Minnesota without regard to principles of conflict of law. The United Nations Convention on Contracts for the International Sale of Goods shall not apply to this transaction. Any suit, action or other legal proceeding arising out of or relating to this transaction shall be brought in a court of record in Hennepin County, Minnesota or in the courts of the United States located in such county. Seller and the Buyer each consent to the jurisdiction of each such court in any suit, action or proceeding, and waive any objection which it may have to the laying of venue of any such suit, action or proceeding in any such courts and any claim that any such suit, action or proceeding has been brought in an inconvenient forum.

English Language. All documents, notices and legal proceedings executed, given or instituted pursuant to or relating directly hereto shall be in the English language, and the meaning of all words and phrases of this offer shall be defined, construed and interpreted in the English language.

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