

Print3D – How It Works

Overview

Now when you need a hard copy of your 3D design, it's as easy as getting a hard copy of a document. The Print3D plug-in adds a new menu item called *Print3D* to the *File* menu of your CAD application. Just like the *Print* command, the Print3D dialogue box pops up. Instantly, the software gives you guaranteed prototype quotes on every component you have open in CAD. Just like you can alter the page setup on a document, the Print3D interface lets you easily change the orientation of your part for 3D printing, select process, material, finish, delivery options – and see your price change in real time.

Once you're happy with a quote and finished with your design, ordering the part into production is simple too. After completing your one-time registration with Print3D, you simply select your shipping options and then just click a button to send your order. Print3D software automatically packages your CAD geometry and order instructions into a secure encrypted data stream and sends to Print3D's production facilities via a secure FTP connection. Most Print3D orders come with next-day delivery.

With Print3D, there is no more exporting your models to STL files, no uploading parts one-by-one to a unsecured website and no waiting around your email just for a price quote. Print3D's pricing engine inside your CAD system gives you price information instantly, whenever you want it. Try it free – you'll agree that Print3D is the fastest and most secure way to quote and order the best prototypes in the industry.

Printing a physical part from your 3D CAD design is as easy as 1-2-3.

Step 1: Click *Print3D*

Step 2: Save your quote

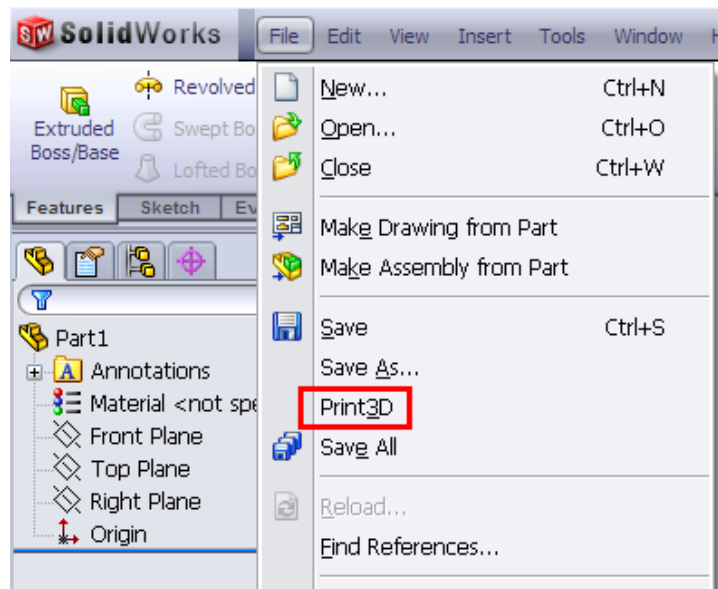
Step 3: Order your parts

... and your parts will be shipped to your doorstep, anywhere in the world.

Here is a brief explanation of each step:

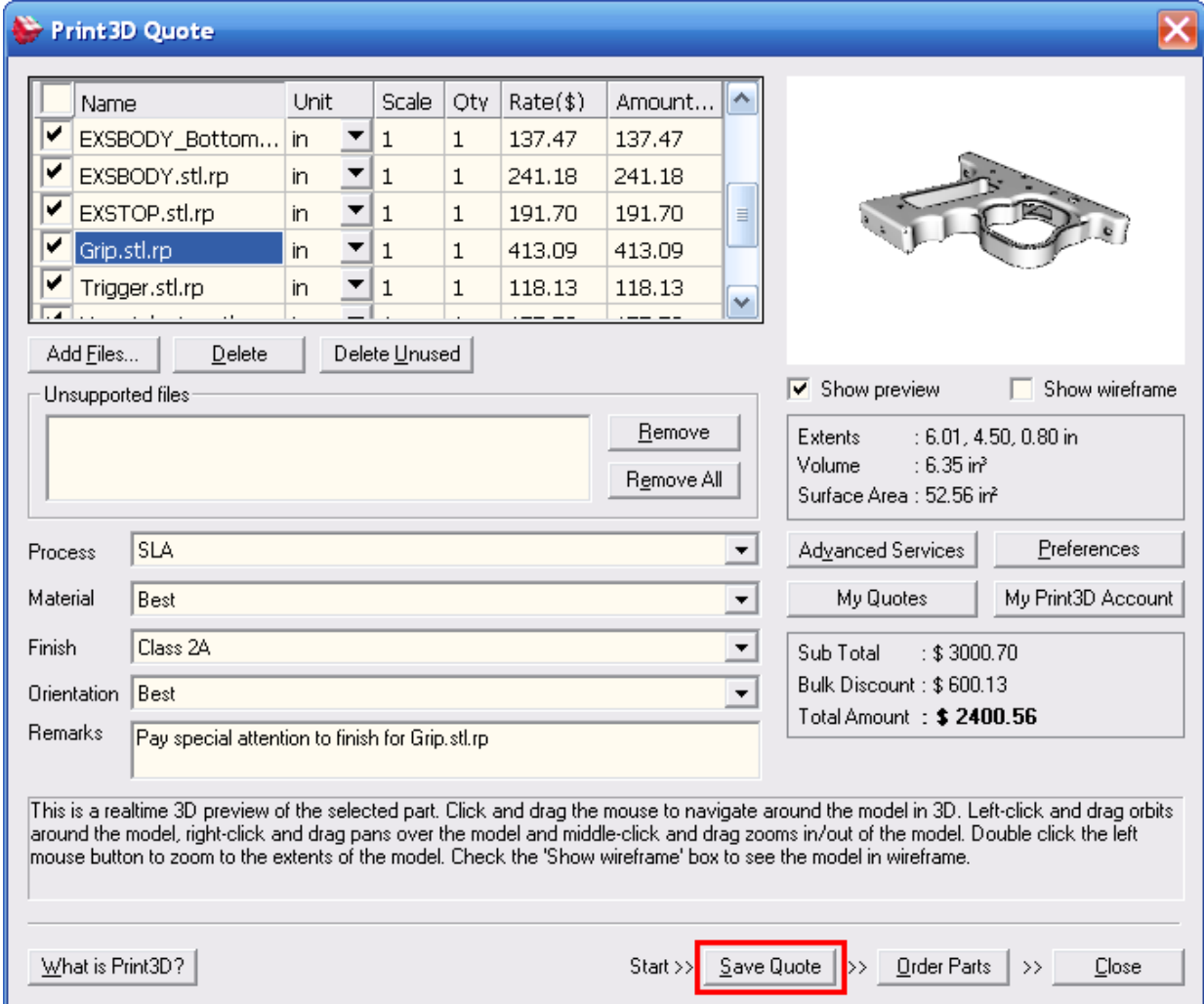
Step 1: Click *Print3D*

A new menu item called *Print3D* is automatically added to the *File* menu of your CAD application. In the figure below you can see a *Print3D* menu item (highlighted in red) added to the SolidWorks *File* menu.



Step 2: Save Your Quote

By clicking *Print3D*, all the projects currently open in CAD are analyzed and a guaranteed price quote is calculated within a fraction of a second. Absolutely no data is transferred away from your computer. The Print3D plug-in performs various geometric, process, material and finish calculations to arrive at the cost per part and then applies the bulk discounts wherever applicable, as shown below. In this case, Print3D gives a quote for the entire assembly:



The screenshot shows the Print3D Quote dialog box. It features a table of parts, a 3D model of a part, and various settings and quote details.

	Name	Unit	Scale	Qty	Rate(\$)	Amount...
<input checked="" type="checkbox"/>	EXSBODY_Bottom...	in	1	1	137.47	137.47
<input checked="" type="checkbox"/>	EXSBODY.stl.rp	in	1	1	241.18	241.18
<input checked="" type="checkbox"/>	EXSTOP.stl.rp	in	1	1	191.70	191.70
<input checked="" type="checkbox"/>	Grip.stl.rp	in	1	1	413.09	413.09
<input checked="" type="checkbox"/>	Trigger.stl.rp	in	1	1	118.13	118.13

3D Model: A 3D rendering of a mechanical part, likely a trigger or grip component, shown in a perspective view.

Quote Details:

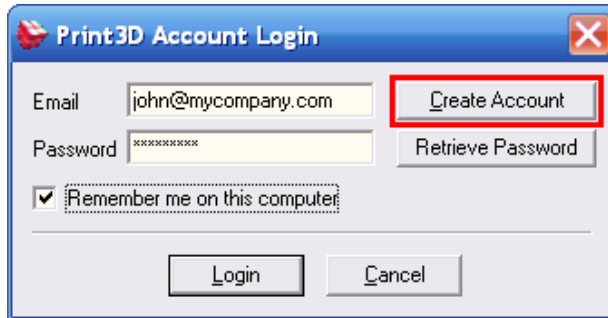
- Sub Total : \$ 3000.70
- Bulk Discount : \$ 600.13
- Total Amount : **\$ 2400.56**

Buttons: **Save Quote** (highlighted in red), Order Parts, Close.

You can change the various parameters governing your quote, such as process, material, finish, and even unit and scale. At every mouse click and key press, the Print3D quoting engine embedded in the plug-in instantly recalculates the individual part amounts and bulk discount and updates your total quote accordingly. Again, no data leaves your computer.

When you are done, click the *Save Quote* button (highlighted in red).

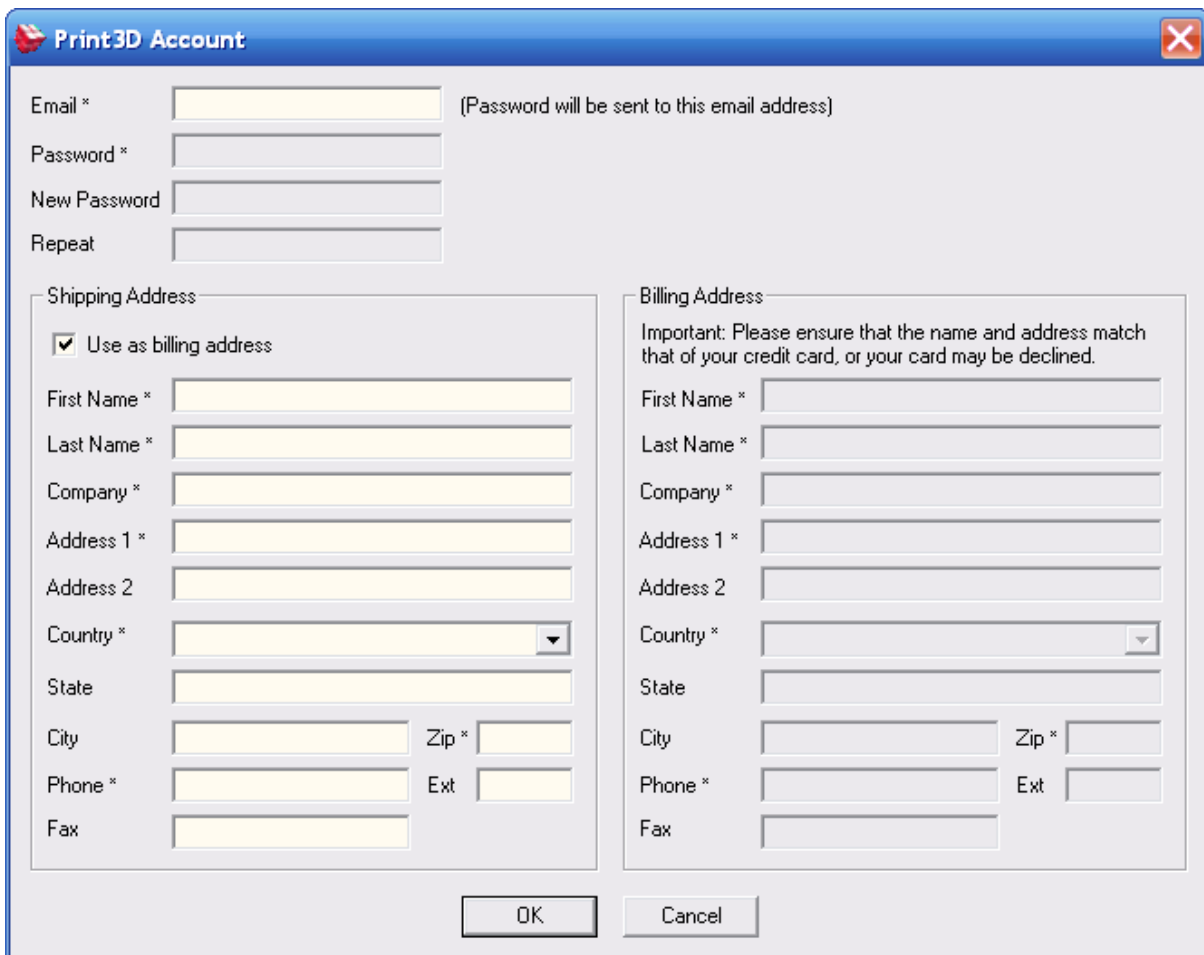
The Login dialog box will pop up asking you to log into your Print3D account.



The image shows a 'Print3D Account Login' dialog box. It has a blue title bar with the Print3D logo and a close button. The main area contains an 'Email' field with 'john@mycompany.com', a 'Password' field with masked characters, and a 'Remember me on this computer' checkbox which is checked. There are three buttons: 'Create Account' (highlighted with a red box), 'Retrieve Password', and 'Login'. At the bottom are 'Login' and 'Cancel' buttons.

Enter your email and password and click the *Login* button. You may want to check the *Remember me on this computer* box to save this for later use.

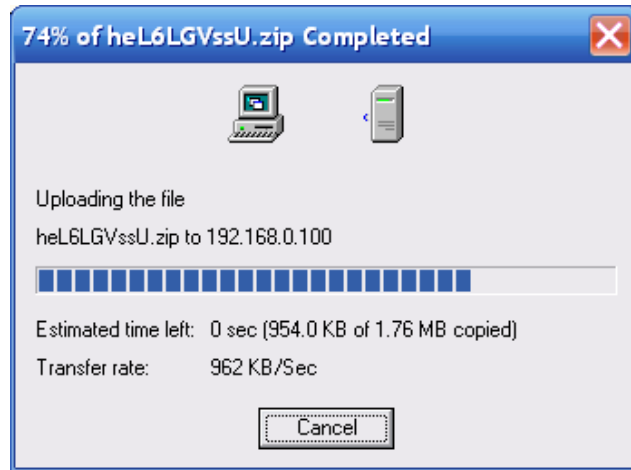
If you do not yet have a Print3D account, click the *Create Account* button (highlighted in red).



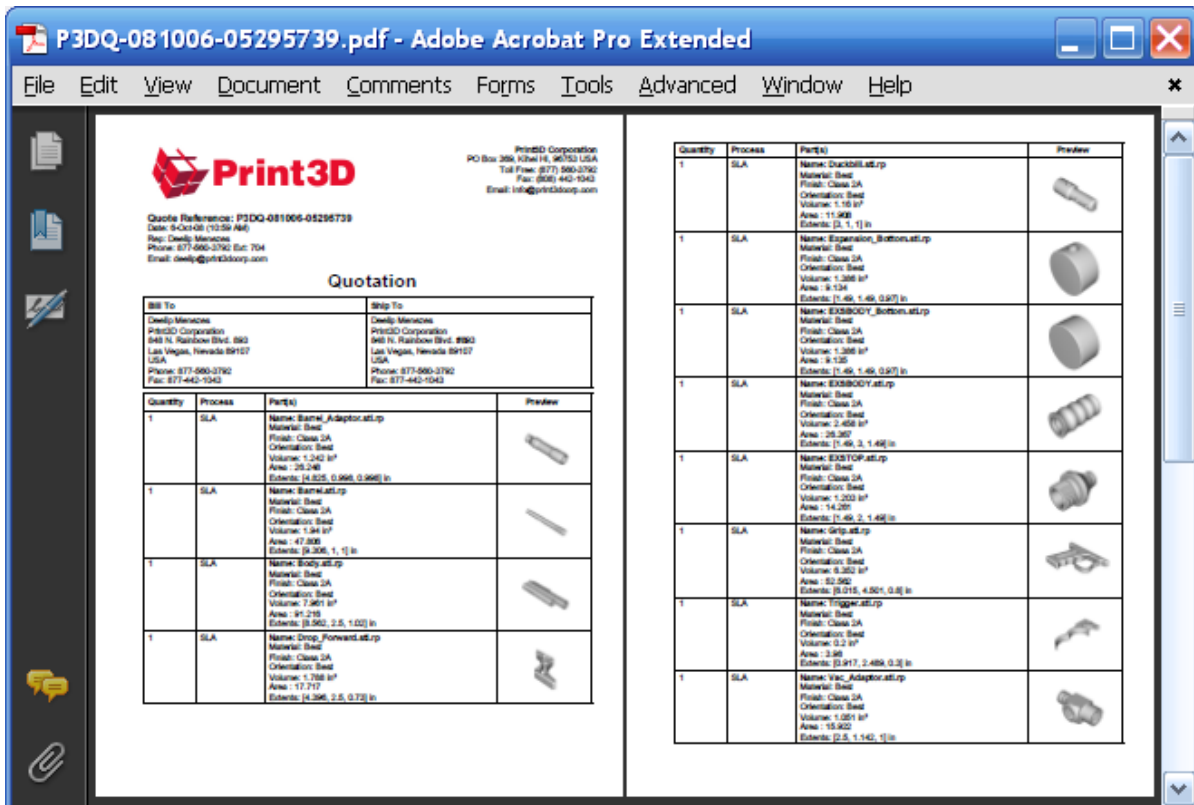
The image shows a 'Print3D Account' creation form. It has a blue title bar with the Print3D logo and a close button. The form is divided into several sections: 'Email *' with a text field and a note '(Password will be sent to this email address)'; 'Password *', 'New Password', and 'Repeat' fields; 'Shipping Address' and 'Billing Address' sections, each with a 'Use as billing address' checkbox and a note 'Important: Please ensure that the name and address match that of your credit card, or your card may be declined.' Both address sections have fields for 'First Name *', 'Last Name *', 'Company *', 'Address 1 *', 'Address 2', 'Country *' (dropdown), 'State', 'City', 'Zip *', 'Phone *', 'Ext', and 'Fax'. At the bottom are 'OK' and 'Cancel' buttons.

Fill out the form and click the *OK* button. Your Print3D account password will be immediately sent to the email address you specified in the form.

When you click the *Save Quote* button in the Quote dialog box, all your data is compressed, encrypted and securely transmitted to the Print3D server via FTP.

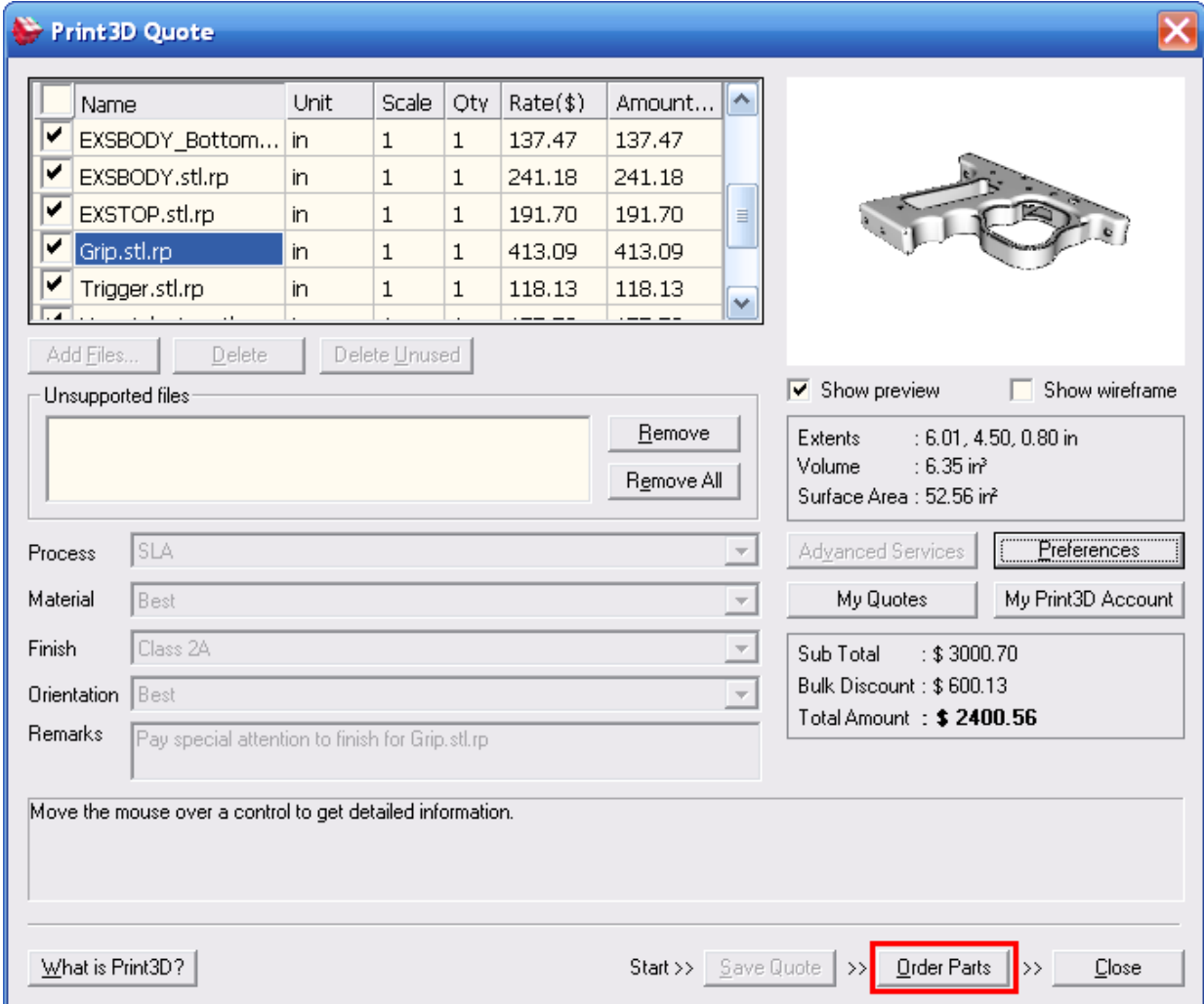


You will immediately receive a confirmation email containing the formal Quote as a PDF file for your records.



Step 3: Order your Parts

To order your parts click the *Order Parts* button (highlighted in red).



Print3D Quote

Name	Unit	Scale	Qty	Rate(\$)	Amount...
EXSBODY_Bottom...	in	1	1	137.47	137.47
EXSBODY.stl.rp	in	1	1	241.18	241.18
EXSTOP.stl.rp	in	1	1	191.70	191.70
Grip.stl.rp	in	1	1	413.09	413.09
Trigger.stl.rp	in	1	1	118.13	118.13

Buttons: Add Files..., Delete, Delete Unused

Unsupported files: [Empty] Buttons: Remove, Remove All

Process: SLA
Material: Best
Finish: Class 2A
Orientation: Best
Remarks: Pay special attention to finish for Grip.stl.rp

3D Model: [Image of a metal part]

Extents : 6.01, 4.50, 0.80 in
Volume : 6.35 in³
Surface Area : 52.56 in²

Advanced Services: Preferences
My Quotes, My Print3D Account

Sub Total : \$ 3000.70
Bulk Discount : \$ 600.13
Total Amount : **\$ 2400.56**

Move the mouse over a control to get detailed information.

Buttons: What is Print3D?, Start >>, Save Quote, >> **Order Parts** >>, Close

If you wish to order your parts later, you can come back to the Quote dialog box and click the *My Quotes* button. This will show you a list of saved quotes from where you will be able to order your parts.

Clicking the *Order Parts* button on the Quote dialog box pops up the Order dialog box where you can choose your Shipping Method. The shipping price is automatically added to the quote amount. Optionally, you can enter a Discount Coupon number, if you have one, and click the *Apply* button to apply the discount to the quote. If you wish to see the updated Quote PDF file with shipping and discount amounts factored in (probably to get a final approval from a higher authority), you can click the *Update Quote PDF* button at the bottom, and then the *View Quote PDF* button to download/view the updated Quote PDF file.

The screenshot shows the 'Order' dialog box with the following fields and options:

- Shipping Address:** Use as billing address. Fields include First Name (* Deelip), Last Name (* Menezes), Company (* Print3D Corporation), Address 1 (* 848 N. Rainbow Blvd. #893), Address 2, Country (* USA), State (Nevada), City (Las Vegas), Zip (89107), Phone (* 877-560-3792), Ext, and Fax (877-442-1043).
- Billing Address:** Important: Please ensure that the name and address match that of your credit card, or your card may be declined. Fields include First Name (* Deelip), Last Name (* Menezes), Company (* Print3D Corporation), Address 1 (* 848 N. Rainbow Blvd. #893), Address 2, Country (* USA), State (Nevada), City (Las Vegas), Zip (89107), Phone (* 877-560-3792), Ext, and Fax (877-442-1043).
- Payment Method:** Credit Card No. (with Expiry: Month * and Year * dropdowns, and Security Code * field with a 'What is this?' link), PayPal, Purchase Order No. (with a link to 'Apply for a credit account').
- Shipping Method:** FedEx Priority Overnight (dropdown menu).
- Discount Coupon:** (text field) with an 'Apply' button.
- Summary:** Parts Amount : \$ 2400.57, Additional Amount : \$ 0.00, Discount Amount : (\$ 0.00), Shipping Amount : \$ 103.40, Quote Amount : **\$ 2503.97** (with an 'Explain Amounts' button).
- Bottom Bar:** Note: Items marked with * are required. Buttons: Update Quote PDF, View Quote PDF, **Order** (highlighted in red), Cancel.

You can pay for your parts by credit card or debit your PayPal account. If you have a credit account with Print3D, you can also order your parts by Purchase Order. When you are done, click the *Order* button (highlighted in red).

That's it! Your parts will be built and sent you via FedEx anywhere in the world. It's really that simple. You just put the factory in your file menu.

Print3D Support

(for software and order tracking)

Email: support@print3Dcorp.com

Tel: 1 877 560-3792 ext 1