

Should You Buy a 3D Printer... or Use a 3D Printing Service?

Cost comparison of 3D printing with an in-house printer versus Sculpteo's online service.

3 STL files



1 service



Sculpteo.com
printing service
price per order

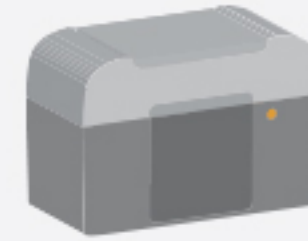
6 printers



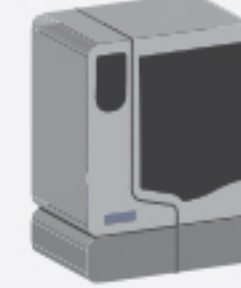
MakerBot
Replicator 2x
\$2,799



formlabs
Form 1
\$3,299



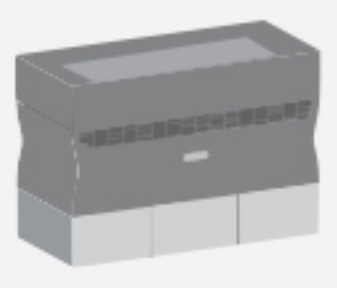
Stratasys
Mojo
\$9,900



Stratasys
uPrint SE Plus
\$20,710



3D Systems
ZPrinter 250
\$24,900

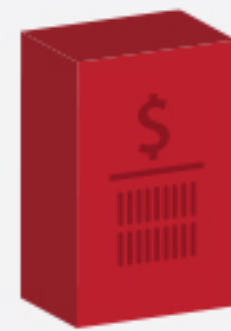


Stratasys
Objet30 Pro
\$43,000

Cost breakdown



online price



printer cost
(divided by
output over
3 year life)



materials +
maintenance



labor +
electricity

Hobbyist printers
No cost added for labor

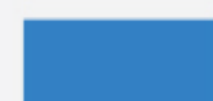
Professional printers
\$27 per hour added for labor



designed by Fredrik Aurdal

1" x 1/2" x 1"
23 x 11.6 x 23mm
volume: .4cm³
surface: 9cm²
print space: 6cm³

The cost to print a ring:



\$8.37

Sculpteo
online service



\$9.34

MakerBot
Replicator 2x



\$11.01

formlabs
Form 1



\$33.10

Stratasys
Mojo



\$35.15

Stratasys
uPrint SE Plus



\$24.35

3D Systems
ZPrinter250



\$25.16

Stratasys
Objet30 Pro



designed by Emmanuel Eymond

1.5" x 1" x 1"
37 x 23 x 23mm
volume: 3.8cm³
surface: 37.5cm²
print space: 15.8cm³

The cost to print a mini-figurine:



\$8.25

Sculpteo
online service



\$8.76

MakerBot
Replicator 2x



\$11.22

formlabs
Form 1



\$25.14

Stratasys
Mojo



\$32.93

Stratasys
uPrint SE Plus



\$32.09

3D Systems
ZPrinter250



\$29.56

Stratasys
Objet30 Pro



designed by Fabrice

2 3/4" x 2 3/4" x 12 3/4"
70 x 70.6 x 324mm
volume: 13.3cm³
surface: 179.5cm²
print space: 90.9cm³

The cost to print a GoPro mount:



\$22.74

Sculpteo
online service



\$23.57

MakerBot
Replicator 2x



\$56.52

formlabs
Form 1



\$69.25

Stratasys
Mojo



\$71.37

Stratasys
uPrint SE Plus



\$57.16

3D Systems
ZPrinter250



\$60.46

Stratasys
Objet30 Pro

Study compares the total cost of printing an object in white plastic on Sculpteo.com versus printing with a purchased 3D printer in the standard material. Printer cost is determined by retail price (before sales tax) of printer and installation costs divided by the total number of units (ie printer capacity) over a three year lifetime For professional printers, a labor cost of \$27 per hour was included in the total cost of printing.