

formlabs 😿



500+ employees



6 offices

Boston, Berlin, Japan, China, Budapest, North Carolina



225+ engineers and researchers

Many 3D printing experts, material scientists in SLA and SLS



100+ partners through 6 continents

North America, Europe and Asia



We develop complete systems that make **affordable**, **high-precision** 3D printing **accessible** to a wide audience



Form 3 and Form 3L

Powered by Low Force Stereolithography (LFS)



The Form 2 rivals printers that cost much more

Part Cost: \$0.42
Machine Cost: from \$2,000

Part Cost: \$1.1 Machine Cost: from \$4,000 Part Cost: \$1.1 Machine Cost: \$2,850

Hobbyist FDM

Professional DLP

Desktop SLA (Form 2)

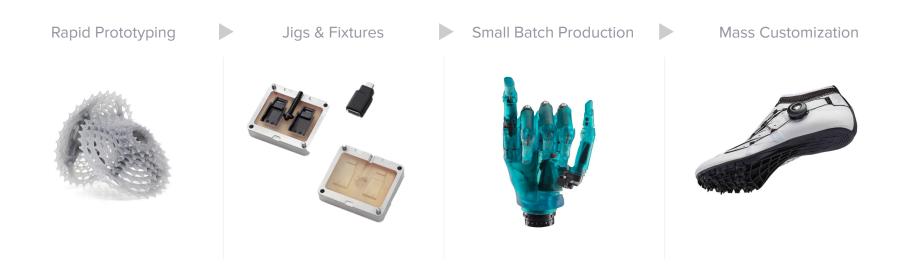






Manufacturing is becoming digital

Additive market to grow from \$1.5B to \$8.75B by 2020



*Approximation based on 50% reduction (plastics) of reduction 50% (vertical) of IDC market size estimates.

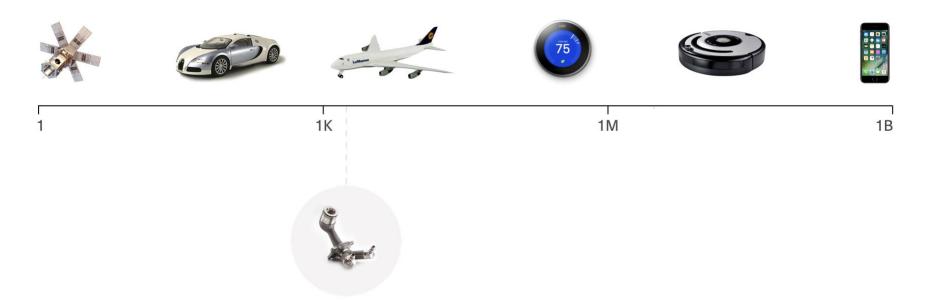
- 2016 Worldwide Semiannual 3D Printing Spending Guide



Manufacturing Across Volumes

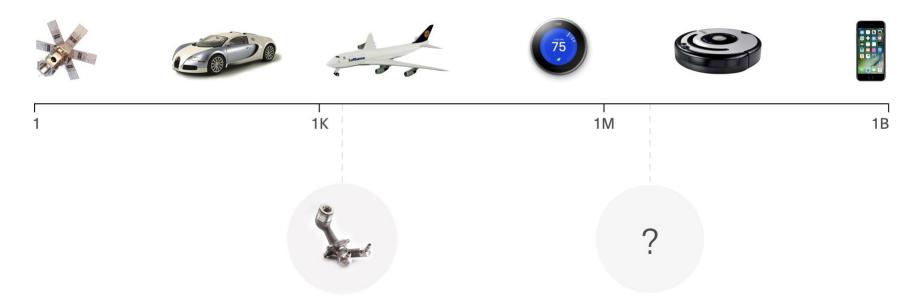


Manufacturing Across Volumes





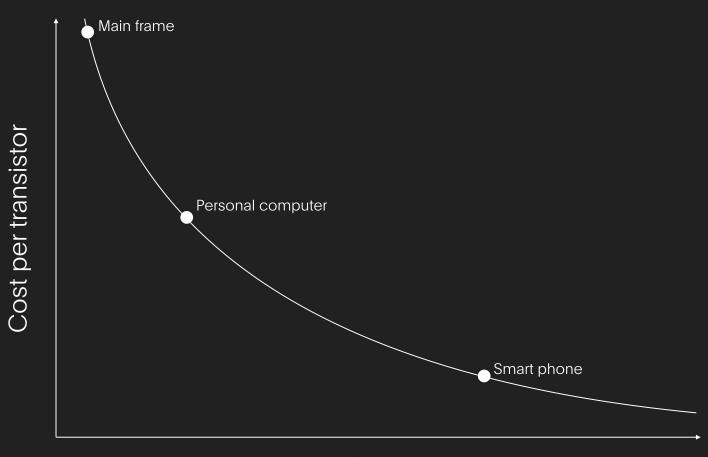
Manufacturing Across Volumes







Price per part cost



Time

Time



Equipment Ownership

+

Materials

+

Labor

Cost Per Part

Equipment Ownership

+

Materials

+

Labor

Cost Per Part

Equipment Ownership

+

Materials

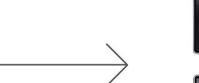
+

Labor

Cost Per Part

Changing to distributed systems















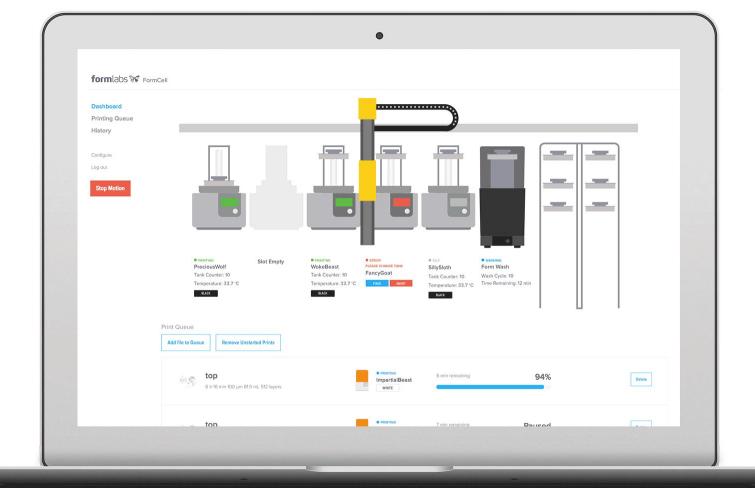






Changing to distributed systems





Form Cell: Scalable Automation



Units produced

Audiology

Hearing specialists and ear mold labs are using digital workflows to manufacture higher quality custom ear products more consistently, and at higher volumes.

Custom Earbuds & Hearing Aids





"The Form 2 has enabled our lab to transition our custom hearing product manufacturing from manual to digital. 3D printing custom hearing products allows for greater control and consistency, and with the quality and affordability of the Form 2, we see potential to ramp up production going forward." **Paul Thorpe, Lab Manager, Universal dB**





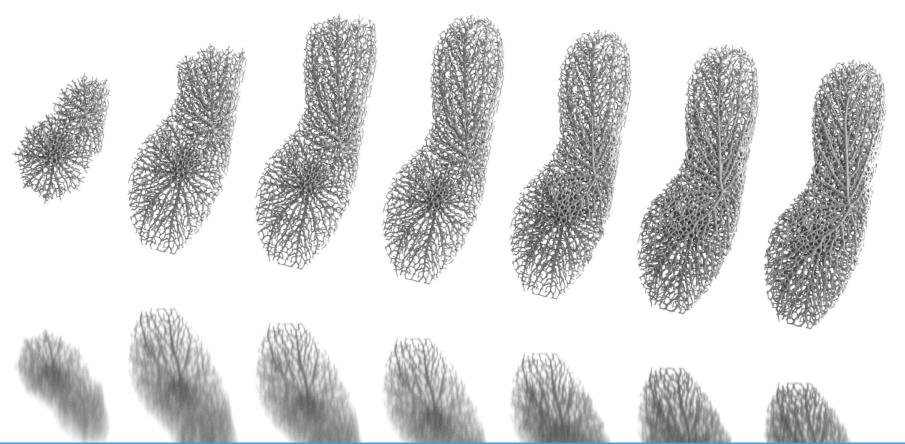
Ownphones developed and printed customized wireless earbuds with Formlabs printers



What is next?

Materials







Digital workflow example













Design + customization

Printing





Dental

Trusted by dentists and dental technicians, our printers have been used in over 100,000 surgeries worldwide, and printed over 1,000,000 dental products, unlocking large-scale dental 3D printing for the first time.

Surgical Guides



Thermoformed Clear Aligners & other



Splints & Guards



Models



Dentures



"After 8 years of 3D printing, using several different printers, I find the Form 2 3D printer to be the perfect choice for precision 3D printing, for models, surgical guides and ortho applications. The combination of precision, cartridge resin for quick change of printing resins, and low cost make the Form 2 the perfect choice for any size dental laboratory." Lee Culp, CDT, Sculpture Studios

Jewelry

Use the precision of the Form 2 to prototype new designs or create custom jewelry.

Vulcanized Rubber Molding



Investment Casting



Custom Jewelry





"As a pioneer in desktop 3D printing, Formlabs is the perfect partner to help us grow in 3D printing. When it comes to 3D printing technology for jewelry professionals, Formlabs is the leader in this space." **Scott Petrillo, Vice President of Sales**



SLA Materials

Switch seamlessly between a library of general, advanced, and specialty materials. Our in-house material science team is always developing new materials to expand the capabilities of the Form 2.





Other technologies



Meet the Fuse 1

Industrial Power That Scales

Cheapest cost per part in 3D printing.

Unrestricted part geometry, no supports.

Large prints. $165 \times 165 \times 320 \text{ mm}$ build volume for bigger parts and higher throughput.

Nylon 12

Industry standard for strong and durable functional prototyping and end use parts.







Thank you