

Lessons for the Automotive Industry from Formlabs' Response to COVID-19

https://formlabs.com/covid -19-response/

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Agenda

- 1. Introduction to Formlabs
- 2. Formlabs' COVID-19 response
- 3. Recommendations for the automotive industry



Formlabs is expanding access to digital fabrication, so anyone can make anything.











The Agile Future of Digital Manufacturing



Just as mainframes gave way to blade servers, additive manufacturing will transition to modular production .

Formlabs Ohio in March: 5k samples/week







250 Form 2s

11 FTEs

Request a free sample part



Proceed with Grey

Pick a material from the menu below. Samples of all materials printed on the Form 3 are coming soon. Sample parts printed on the Form 2 may be used for comparing some basic material properties of each of our resins, though you can expect variation in surface finish and other properties when printed on the Form 3.



Formlabs Ohio in April: COVID-19 Test Swabs

Retool to Ramp: 2 weeks
Capacity: 100K Test Swabs/day
Test Swab - FDA Exempt Class
1 Medical Device



Partnered with Northwell Health and USF

Prototype & optimize design
Validation Testing
Rapid Clinical Testing

Results: Performed equally to standard swabs used in COVID-19 Testing



Dr. Todd Goldstein holds 3D-printed nasal swabs made at Northwell Health.



Formlabs' customers now combine for more swab production capacity than we have ourselves

USE

BiPAP ADAPTERS





1 Gustave L. Levy Pl New York, NY 10029 T 212-241-6500 mountsinai.org

Repurposing bi-level ventilators for use with intubated patients while minimizing risk to health care works during insufficient supply of conventional ventilation for patients with COVID-19

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The latest

Northwell converts BiPAP machines into ventilators for hospitalized COVID-19 patients, uses 3D printed adapter

March 31st, 2020 Matthew Libassi



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Formlabs gets FDA emergency use authorization for a 3D-printed ventilator conversion part

Formlabs Covid Community Library

bit.ly/3b92ghG

Formlabs Support Network for COVID -19

Formlabs is drawing on our community to connect those in need with those who have engineering, clinical and 3D printing resources. Pleasereach out to us if:

 You or your organization is working on COVID-19 related projects and need access to 3D printed parts, or

You or your team have access to Formlabs manufactured 3D printers and are willing to volunteer your time and equipment in the fight against COVID-19.

3,000+ volunteers and counting

STL Library on Formlabs Website

Formlabs curated library of nonmedical device COVID-19 solutions

Ready for our user community to print and source to first responders in urgent need of PPE

Contributors from

Bellus 3D Yale School of Medicine Materialise Formlabs Community



Our designers and engineers are maintaining productivity by bringing printers home



Lessons for the automotive industry

- 1 Redundancy
- Calability
- flexibility
 - Lean Enablement
 - Ease & Convenience

- High uptime by hot-swapping units
- Adding printers as demand increases
- Changing products as situation evolves
- Printers across the globe producing for local demand
- Printers in homes and hospitals

It is possible to go from zero to a global digital factory in weeks