AMP SoCAL
ADVANCED MANUFACTURING PARTNERSHIP FOR SOUTHERN CALIFORNIA
LED BY THE USC CENTER FOR ECONOMIC DEVELOPMENT

How Desktop 3D Printers Save Time and Money in Manufacturing

Mara Hitner, Director, Business Development
MatterHackers

Moderator:
Robert Creighton, AMP SoCal

USC Price
Sol Price School of Public Policy
Center for Economic Development

AMP SoCal Webinar Series: Episode 9
June 8, 2018 10:00 a.m. – 10:45 a.m.

About AMP SoCal

- The Advanced Manufacturing Partnership for Southern California (AMP SoCal) is a collaboration of more than 150 different organizations.
- Its goal is to strengthen the industrial ecosystem for aerospace and defense manufacturers.
- AMP SoCal is led by the University of Southern California (USC) Sol Price School of Public Policy - USC Center for Economic Development.
- AMP SoCal supports the aerospace and defense manufacturing industry within the 10-county Southern California region.

Logistics

- All audio will stream through your computer speakers.
- Please submit your questions anytime throughout the presentation in the chat box, located on the bottom of your screen.
- Webinar recording and slides are posted within one week of the event.

ampsocal.usc.edu/webinars

Today's Speaker

Mara Hitner

Director, Business Development
MatterHackers

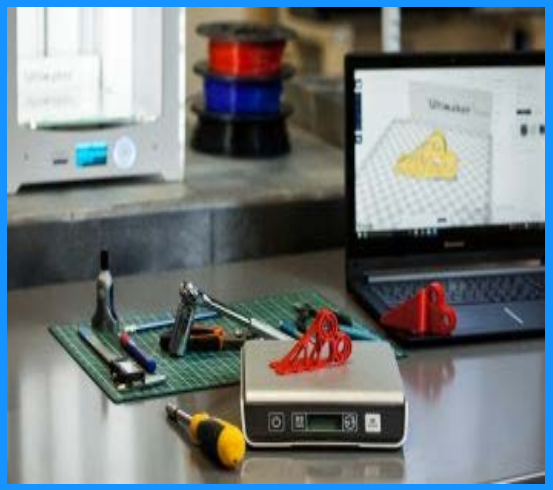
How Desktop 3D Printers Save Time And Money In Manufacturing

MatterHackers

Mara Hitner
mara.hitner@matterhackers.com
twitter: @3DPGirl

Professional 3D printing made accessible

Professional 3D Printing Applications



Mechanical Design

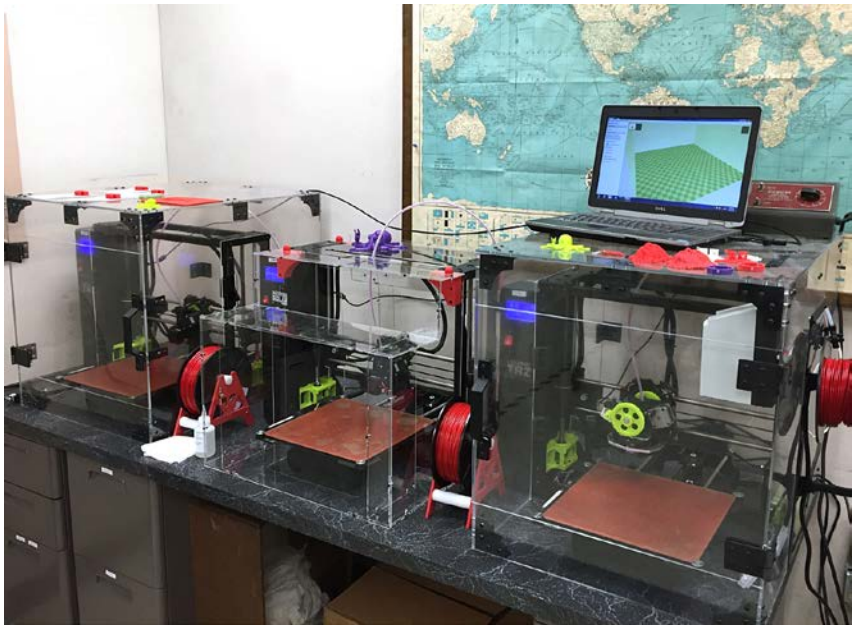
Technical Studies

Fixturing & Fabrication

Functional End-Use

Volkswagon Autoeuropa: 3D Printing Jigs and Fixtures

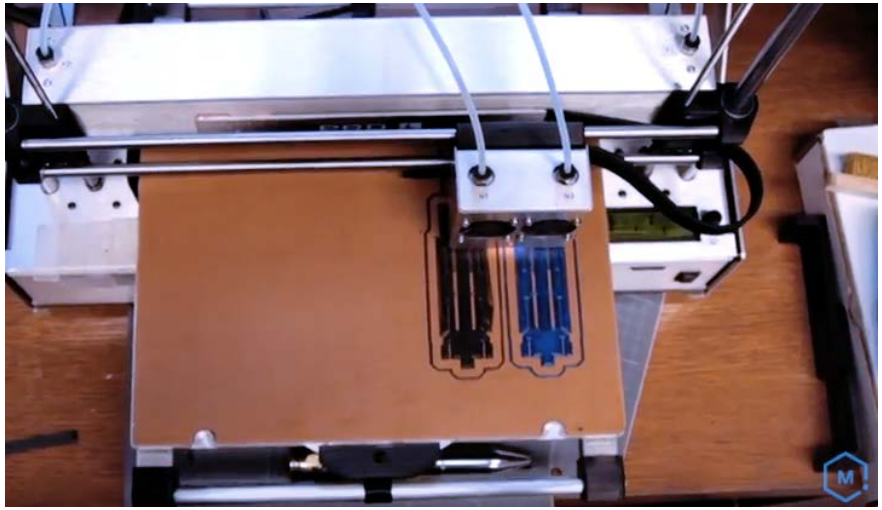
"3D printing developments result in a 91% cost reduction and 95% reduction in tool development time. Ultimaker makes it possible to improve tool ergonomics by 28% and the final product quality by 35%." **Helena Trincheiras,** Pilot Plant Engineer at Volkswagen Autoeuropa



Water Pik:

3D Printing Fixtures and Components

"The largest and most valuable benefit of the TAZ 6 3D Printers is that they have reduced our costs of printing fixture components dramatically," Paul Burdick, Engineering Machinist



Fabricating 3D printed jig for machining tool on a MAKEiT Pro-L

Fabcon Corporation:

Contract Manufacturing

"We use 3D printing for prototypes, conception design, production, and tooling." Bert Ohlig, Founder

Traditional Manufacturing

2 WEEKS

$820

3D Printed Manufacturing

1 Day

$19

Guardian Bikes:
Shrink Product Development Cycles

“With 3D printing we were able to take something from the screen and into physical part the same day. We then throw it on the bike and immediately see if it works, make changes, and have 5-6 design iterations in days versus months.” Brian Riley, CEO

SynDaver:
3D Printed Medical Simulator

"It's all about improving patient safety by having providers be more educated. With 3D printing, we are continuing the evolution of impacting patient lives by offering a training solution that is affordable and accessible." Kevin King, VP Global Marketing

Leading Simulation Mannequins:
$60,000 - $100,000
No customization options.

SAMM 3D Printed Mannequins:
$10,000 (includes 3D printer)
Open source files for customization.

Emerging Trends:

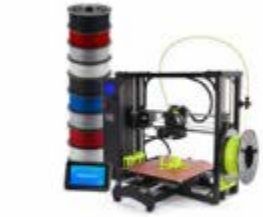
- Distributed printing
- High-temp materials
- Hybrid fabrication strategies
- Parts sourcing

The Right Tool For The Right Job

ECONOMICAL ADVANCED MANUFACTURING

Pulse XE
Build Volume: 10" x 8.5" x 8.5"

LARGE FORMAT WORKHORSE



LulzBot TAZ 6
Build Volume: 11" x 11" x 10"

PLUG AND PRINT RELIABILITY

Ultimaker 2 Extended +
Build Volume: 9" x 9" x 12"

REVOLUTIONARY DUAL EXTRUSION

BCN3D Sigma IDEX
Build Volume: 8" x 12" x 8"

LARGE FORMAT DUAL EXTRUSION

Raise3D N2 Plus Dual
Build Volume: 12" x 12" x 24"

INVENTABLES X-CARVE
1000MM 3D CARVER

Inventables X-Carve
Build Volume: 750mm x 750mm x 65mm
~~1,799~~ 1,599

CARBIDE
CNC MILLING MACHINE

Carbide 3D Nomad 883 Pro
Build Volume: 8" x 8" x 3"
~~2,799~~ 2,499

PEOPOLY MOAI
LASER SLA 3D PRINTER

Peopoly Moai Resin 3D Printer
Build Volume: 5.1" x 5.1" x 7"
~~$2230~~ $2073

Other Desktop Fabrication Options

Thanks & Happy Printing From

MatterHackers

Mara Hitner
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