Multilayer Concurrent Printing (MCP)

AGM Presentation by

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View CEO David Budge’s Formnext presentation video here: https://auroralabs3d.com/#/media/videos/20181130_01
Powder drop

Powder level lowers as
Bed is coated for layer 1

Lasing on operative surface
Layers 1, 3 and 4

Each layer increase distance to bed plate by a set height

Lasing on multiple levels

Part takes shape under powder bed

Completed part removed with build plate
A revolution in the high speed mass production of complex metal parts.

- Rapid Manufacturing Technology (RMT) commercially available in 2019
- Order of magnitude increase in printing speeds
- Large format version of RMT planned with 2.5m x 1.5m x 1m build volume – world’s largest
The cost equation

- Order of magnitude increase in production speed
- Leads to an order of magnitude drop in cost of parts

Part production costs based on manufacturing a Worthington 4LR or 6LR impeller ring.
A COMPLETE PRINTING ECOSYSTEM

Powder Production
- Developing production processes for AM quality, at much lower costs than current methods with higher production capacity.

Software
- Developing powerful software to manage designs and printers for optimised printing

Certification
- Building process to allow download of a certified part design with DNV-GL the world’s largest classification company

Online Parts Store
- Developing an online store for purchasing vetted digital designs to download directly to the printer for manufacture

Aurora’s aim is to transform how metal parts and products are manufactured.

Aurora Labs° auroralabs3d.com
Who is AdditiveNow?

AdditiveNow uses Aurora Labs’ rapid manufacturing metal 3D printing technology along with engineering expertise from Advisian Digital to design, produce and deploy complex components for energy and resources operators.