

Digital and Distributed Manufacturing

Automation

Matt Hunter

Product manager 3D printing

Konica Minolta

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Business Development Manager

Assett Professional Services



Assett Partners with Konica Minolta

Who Is Assett?

Assett is a technology company here in Wollongong who specialise in the supply and ongoing management of

Copier and Printer fleets – from office to industrial
IT and Communication Infrastructure
Cyber Security Solutions

Our clients are small to medium business and Government bodies
we keep up to date with the latest technologies and form
partnerships with the worlds best technology manufacturers and
developers to enable our clients to realise their full potential.

About Konica Minolta



KONICA MINOLTA

140-year-old history
Innovation is in our DNA

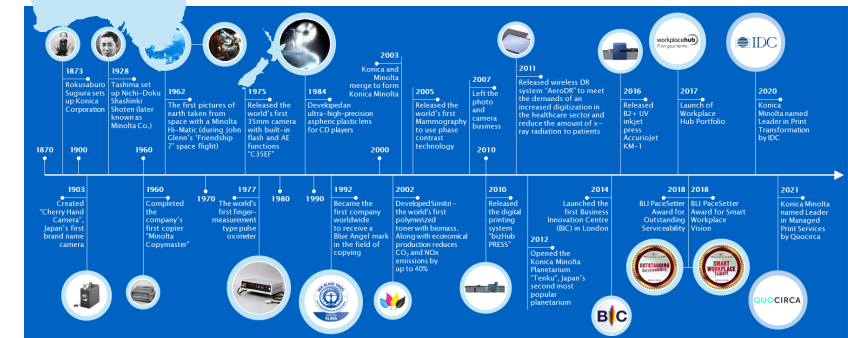
2 Million
CUSTOMERS
WORLDWIDE

Approx. 43,960 Employees worldwide as of 31st March 2020

150 countries

Consolidated
net sales
as of 31st March 2021

6.98 Billion €



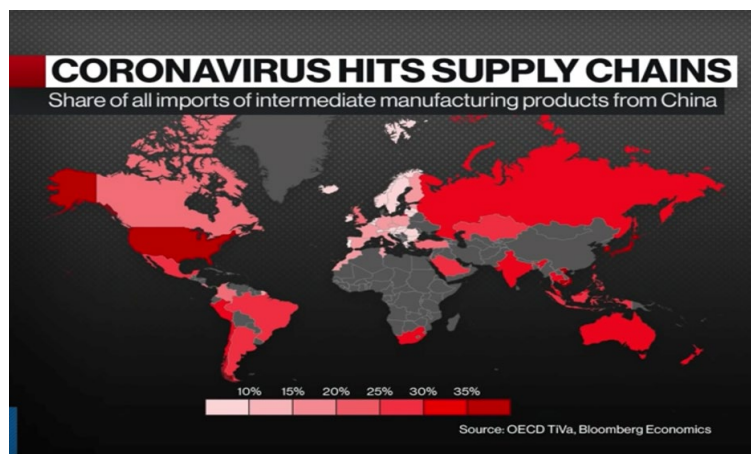
FRONTIERS

Is It Time to Rethink Globalized Supply Chains?

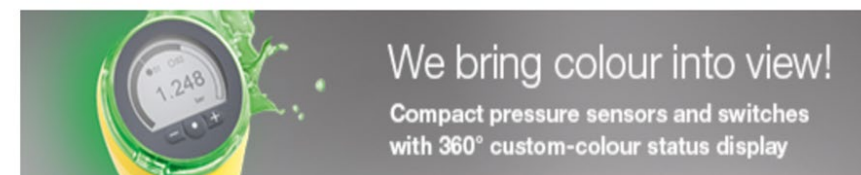
The COVID-19 pandemic should be a wake-up call for managers and prompt them to consider actions that will improve their resilience to future shocks.

Willy Shih • March 19, 2020

READING TIME:



Manufacturers' MONTHLY



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Coronavirus driving uptake of Australian manufactured products

🕒 March 6, 2020 📁 News

From toilet paper, to hand sanitiser, to a locally developed lightweight x-ray machine, the increased production of some local manufacturers is being attributed to the coronavirus outbreak.



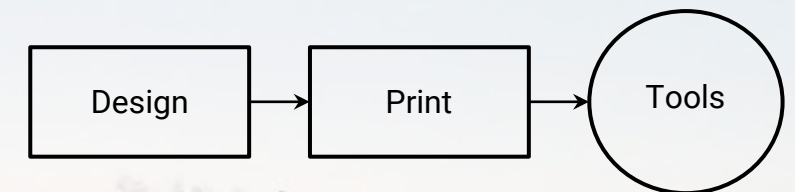
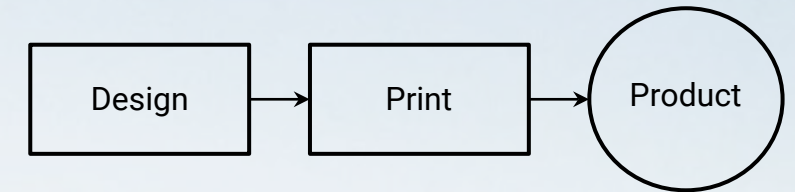
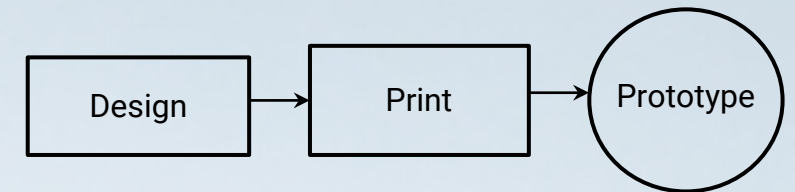
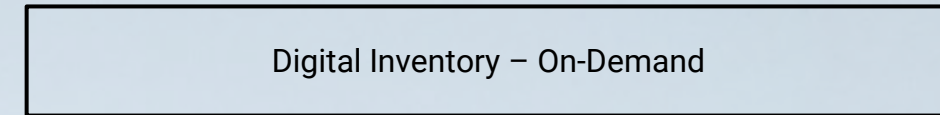
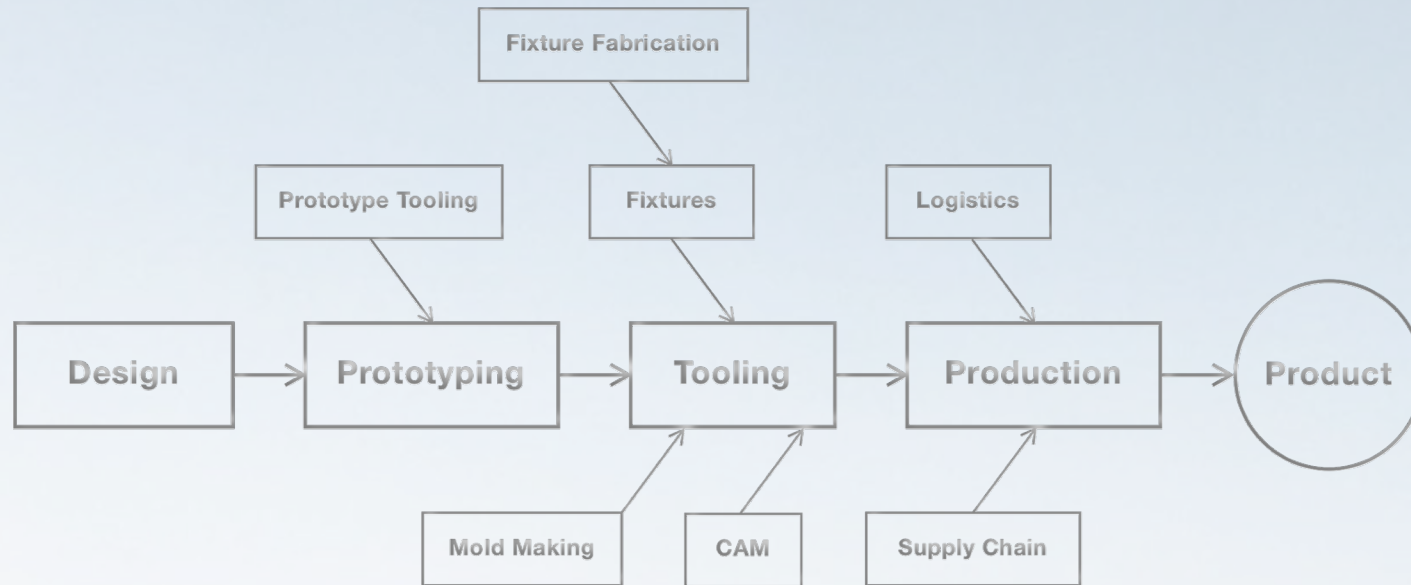
+100 years of Centralized Manufacturing



KONICA MINOLTA

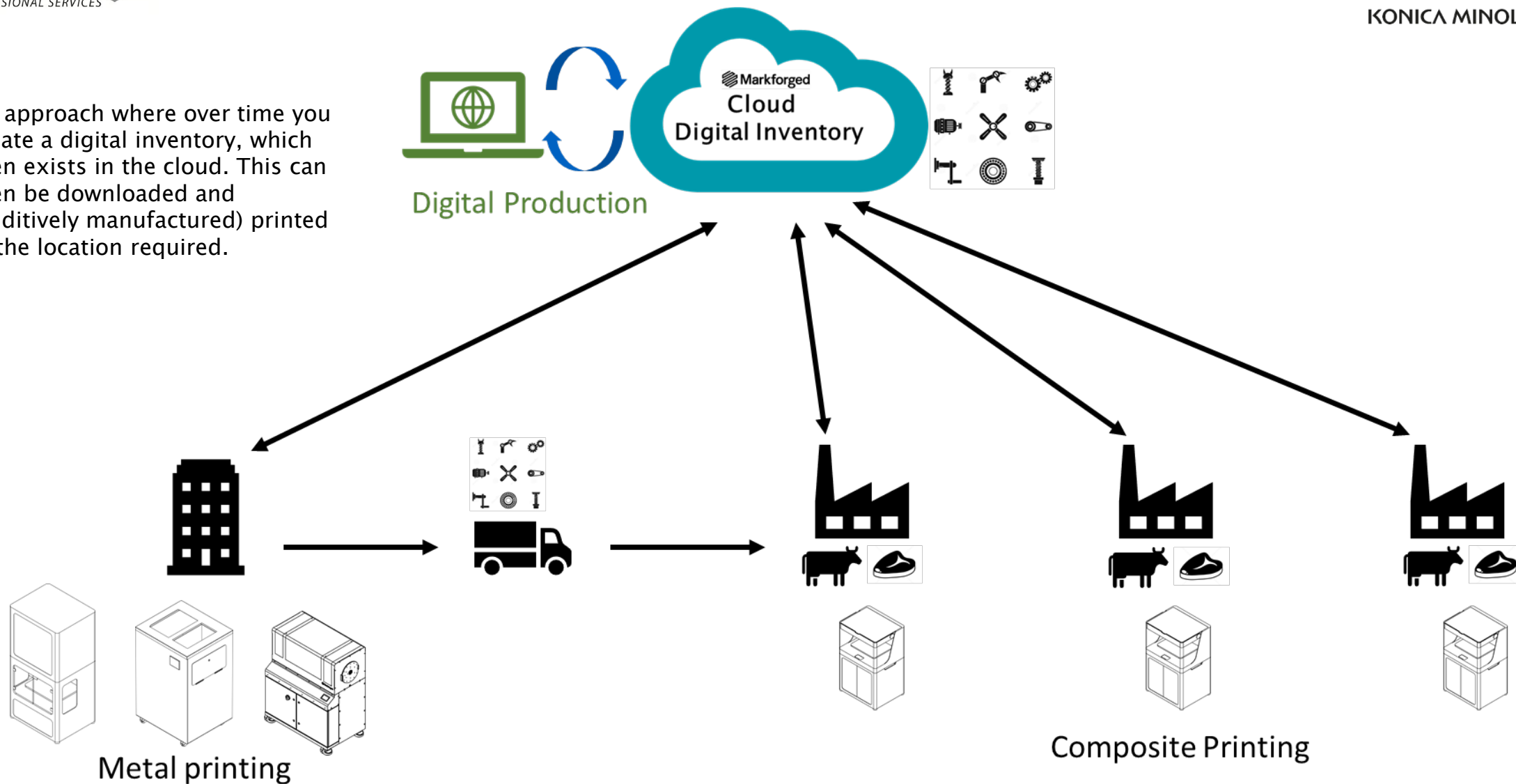


THE WAY THINGS ARE MADE IS CHANGING



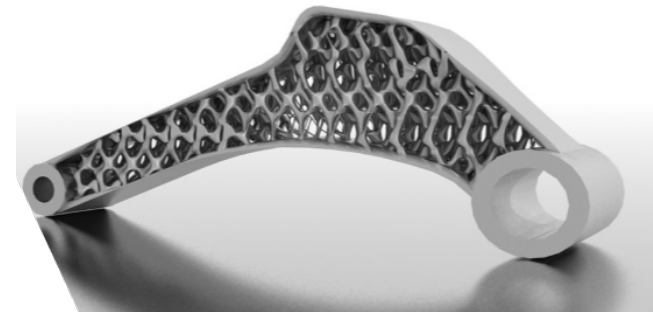
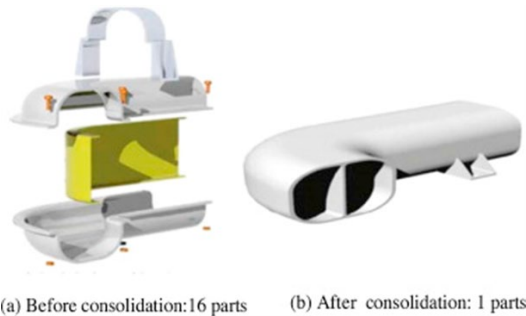
What is Digital & Distributed manufacturing?

An approach where over time you create a digital inventory, which then exists in the cloud. This can then be downloaded and (additively manufactured) printed in the location required.



Digital & Distributed Manufacturing is a constantly evolving ECO system.

- Design thinking principles.
- The perfect part.
- Redesigning parts to make them better taking advantage of the smart people you have on the ground (could be a part feature, Could be adding material like carbon fiber to increase structural integrity).



Light weighting can reduce load and increase performance

Less failure points

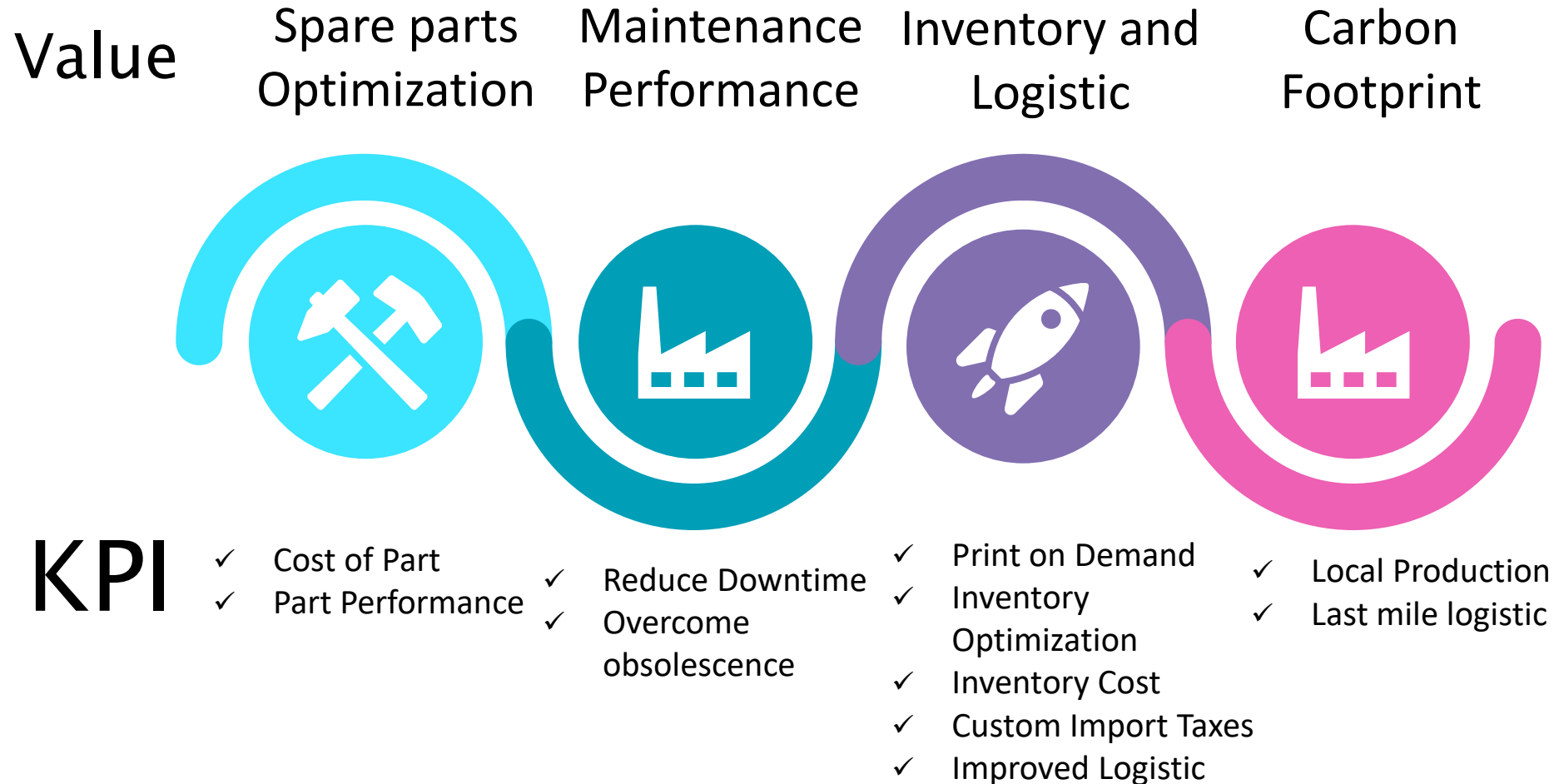
Less loading on bearings

Less inventory to manage

Less cost

More productivity

How does Digital manufacturing add value?



Wide Range of Proprietary Materials Unlocks Broad Set of Applications

Composites

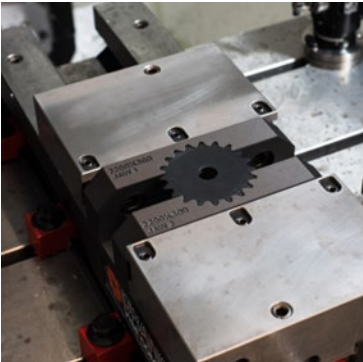


Carbon Fibers

Kevlar

Fiberglass

↓
Continuous Fiber

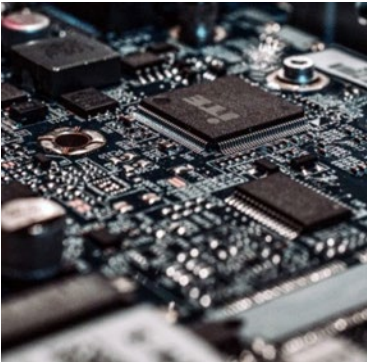


Onyx



Onyx FR (for Aerospace)

↓
Chopped Fiber



Onyx ESD (for Electronics)

Metals



17-4PH Stainless Steel



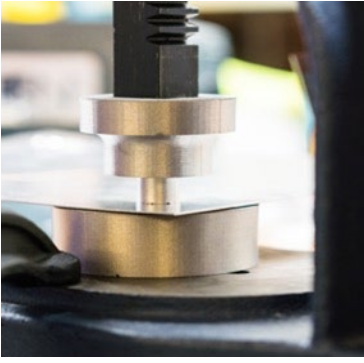
Inconel 625



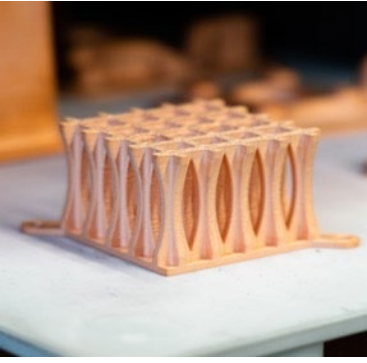
H13 Tool Steel



D2 Tool Steel



A2 Tool Steel



Copper



Large and Growing Customer-Base Across Key Verticals

Industrial Automation

Replacing traditional infrastructure.



Aerospace

Flying on business jets and military aircraft.



Military & Defense

Supporting troops in combat zones.



Space

Orbiting on the International Space Station.



Healthcare & Medical

Protecting lives with critical medical equipment.



Automotive

Enabling vehicle production.



Note: Select customers included. Not inclusive of entire customer base. Use of logos does not imply endorsement.



How do Markforged and Konica Minolta partner with you.



Local training,
service and support



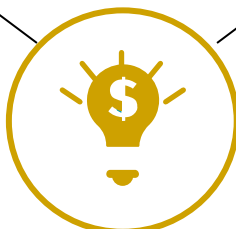
Consultation



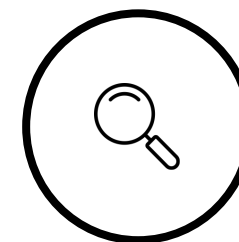
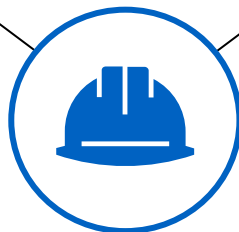
Access to
testing equipment



Innovative
finance products



Australian
regulatory
compliance and
OH&S
compatibility



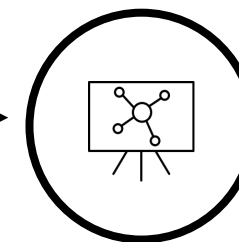
Discover

- __Identify business problem (done)
- __Form core team (done)
- __Identify technology candidate(s) (done)



Scope

- __Business Value Assessment
- __Technical Validation
- __Solution alignment



Execute

- __Installation & training
- __Markforged University
- __Value realization

Want To Learn More

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