

# Alloy Enterprises

*Series Production  
for Aluminum AM*

AMTC - 2021  
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# Two Pillars of Unmet Demand

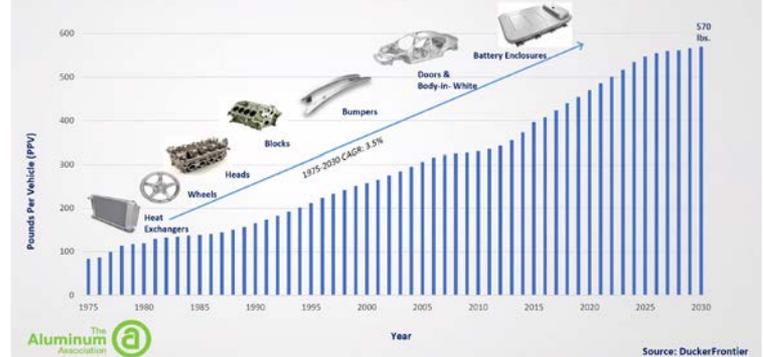
## Supply Chain Simplification



## Aluminum Part Growth



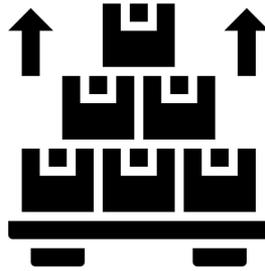
### 55 YEARS OF AUTO DEMAND GROWTH



# Why Isn't Aluminum AM Scaling to Production?



Feedstock  
Cost



End-to-end  
Process  
Throughput



Material  
Challenges

# Sheet Feedstock

Centuries-old manufacturing techniques

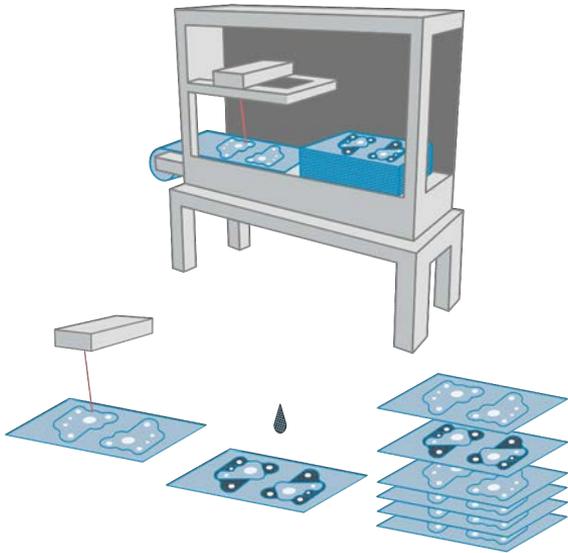


Inspired by → Laminated Object Manufacturing

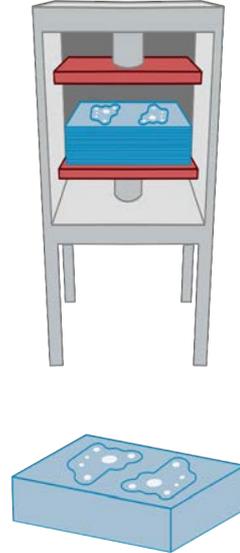


# A Simple, High Throughput Process

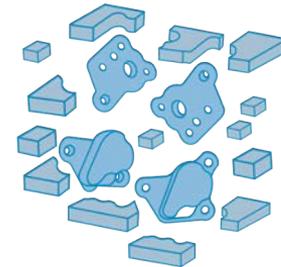
## Construct



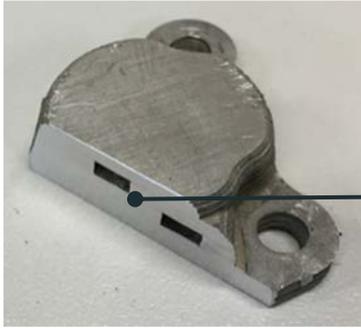
## Bond



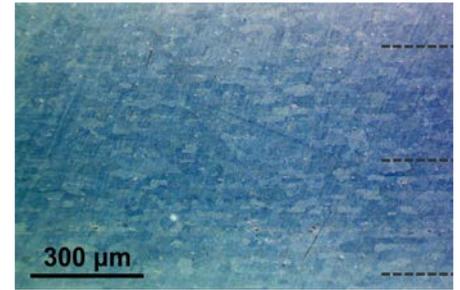
## Remove



# Series Production Material Properties



Fully-dense Parts



Homogeneous 6061

Established Alloys

Diffusion Bonding → Meant for Aluminum



# How Alloy Enterprises is Scaling?

Early 2020

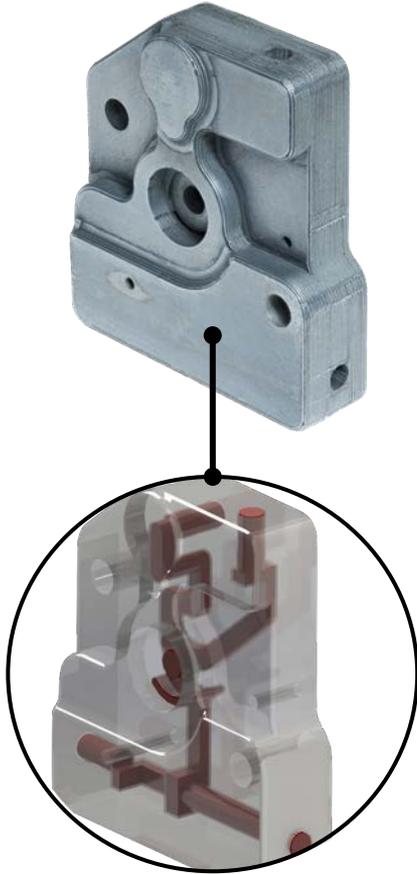


Fall 2021



## How do you fit in?

- Parts for Testing
- Pilot System Deployments



**Questions?**

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