



# SOFTWARE FOR COMPANIES USING AM

Optimize and Automate  
your End-to-End  
AM Workflows



# ENTERPRISE

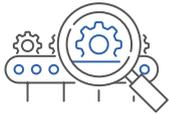
platform

**Are you getting the most out of your additive manufacturing?**

If your business wants to take full advantage of the benefits of AM, it needs to have a seamless workflow that runs throughout your entire production - one that is available to both your employees and your supplier networks at all times.



# REAP THE FULL BENEFITS OF AM



## IDENTIFY

the Parts that are Ready  
to Switch to AM



## COLLABORATE

Seamlessly Across  
your AM Workflow



## ORDER

from In-House  
and External Suppliers



## SCHEDULE

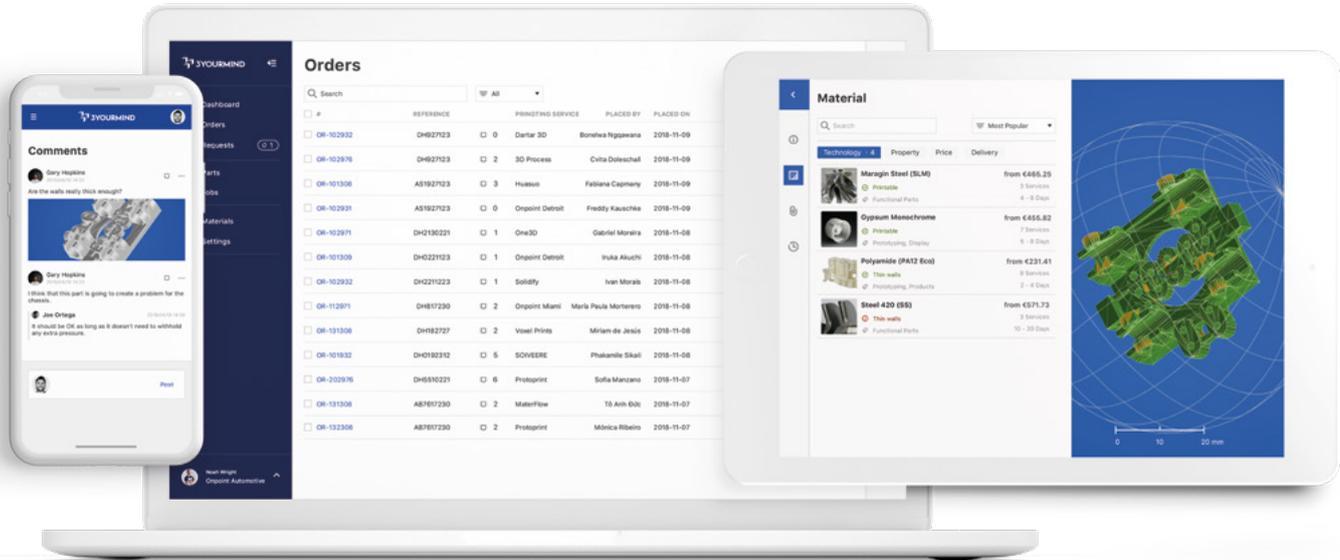
with Tools for Efficient  
Production Planning



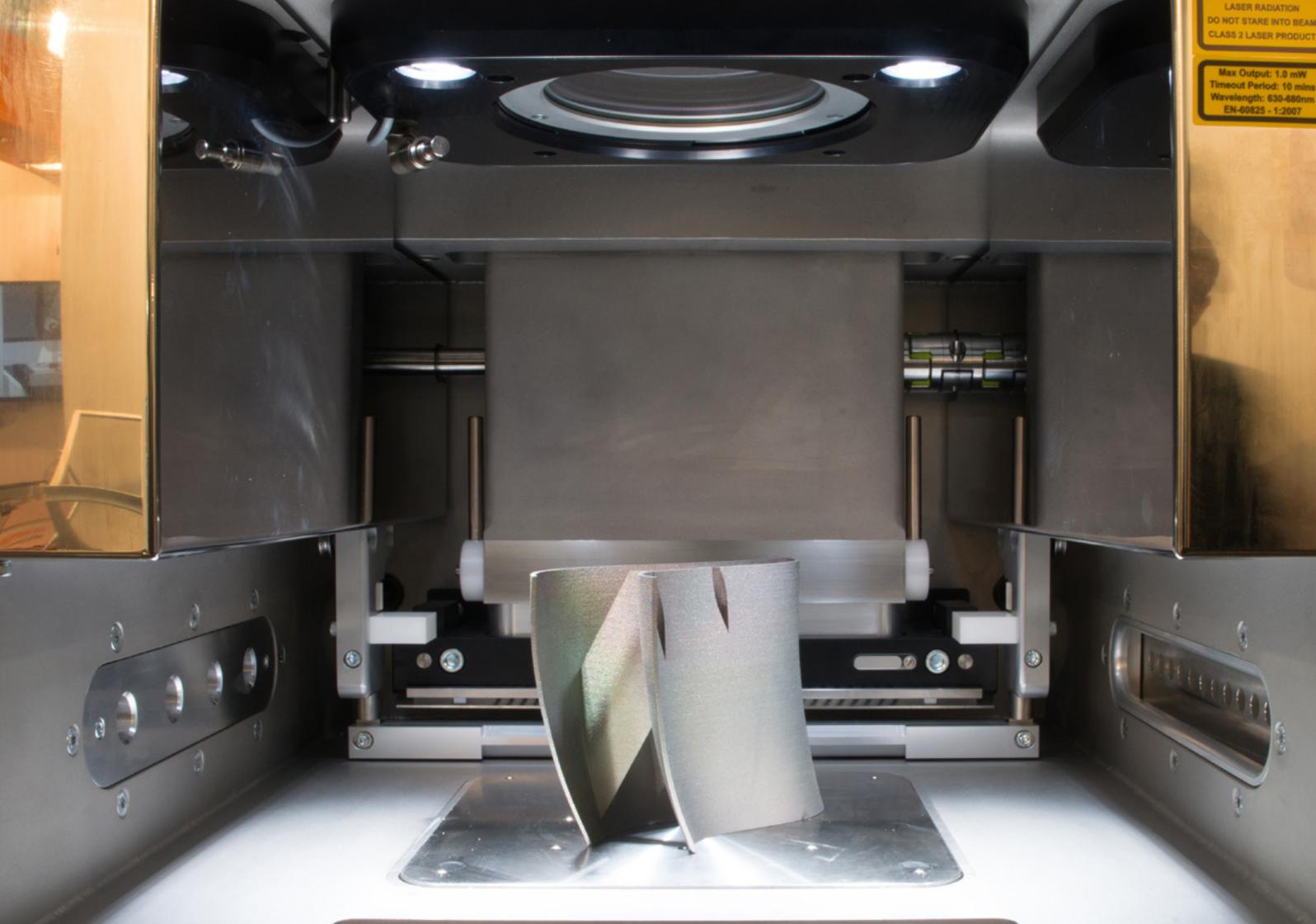
**ANALYZE** ROI on your Additive Manufacturing Investments



**SECURITY** using Enterprise-Level Data Protection across your Workflow



When a business unites every stage of production, its AM workflow can become truly optimized.



LASER RADIATION  
DO NOT STARE INTO BEAM  
CLASS 2 LASER PRODUCT

Max Output: 1.0 mW  
Timeout Period: 10 mins  
Wavelength: 630-690nm  
EN-60825 - 1:2007

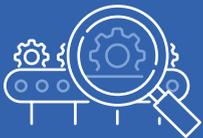


# IDENTIFY

with confidence which parts  
are ready for additive manufacturing.

Having our AM Part Identifier on your team is like having a personal AM expert on hand - it pinpoints the items in your company that are ripe for shifting to additive manufacturing. And because it's automated, there's nothing stopping you from reaping the benefits immediately.

AMPI uses a market-proven, structured analysis to bring out the value of your data by putting a spotlight on your inventory and identifying use cases from across your company. It collects the exact parts that are technologically feasible, cheaper and more efficient to produce with AM.



IDENTIFY

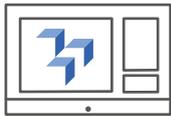
COLLABORATE

ORDER

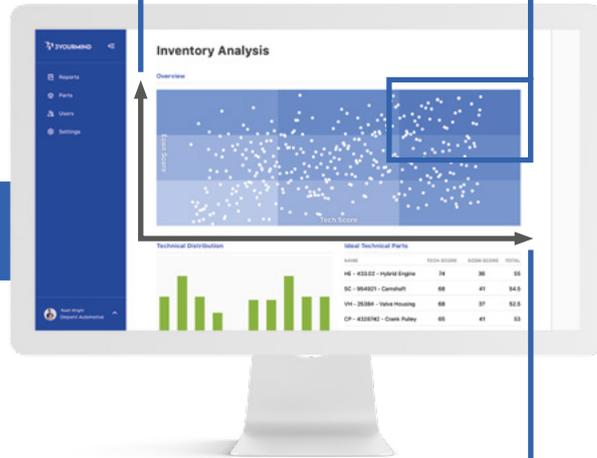
SCHEDULE



Inventory  
Analysis



Use Case  
Screening



Y axis  
Economic Score

Each new AM Use Case  
provides our clients a reduction  
in production costs of up to 80%.

X axis  
Technological Score



New AM  
Business Cases

# INVENTORY ANALYSIS

AMPI reveals the items hidden in your inventory that are ripe for AM.



## CONNECT

your existing ERP and SAP inventories.



## ANALYZE

part information, and CAD model metadata.



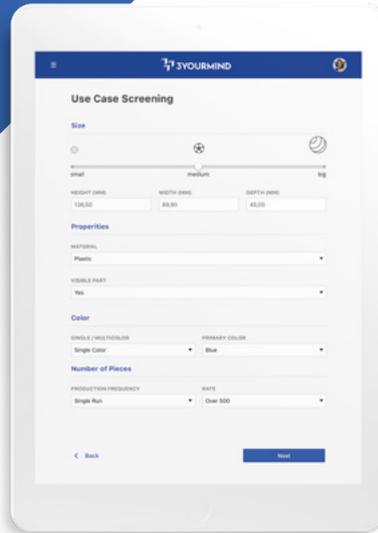
## TRACK

part life cycles for the point of AM-readiness.

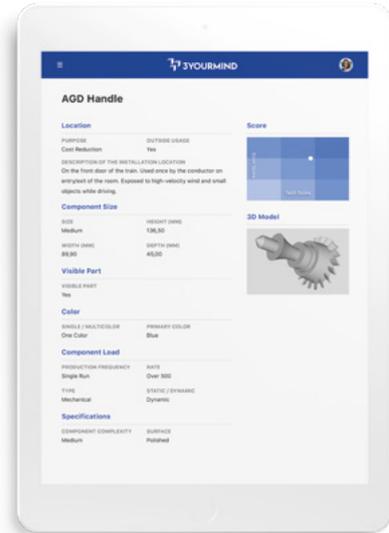


# USE CASE SCREENING

Gather AM use cases from every corner of your business.



Receive Potential Part Submissions



Automatic AM Suitability Assessment

# HOW OUR CLIENTS PUT AM USE CASE SCREENING INTO PRACTICE



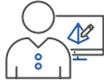
## EMPLOYEES

Adding the eyes and ears of your entire team ensures the best AM use cases are always identified so your company stays efficient and cost-effective well into the future.



## CUSTOMERS

As special requests come in, a quick AMPI screening can save hours or days of unnecessary phone calls and emails. Your sales team can verify in seconds whether that request can be executed using AM.



## DESIGNERS

AMPI is a boon for designers: knowing from the get-go that a part will be manufactured with AM enables them to tailor their designs. Better designs mean better parts.



## PURCHASING

AMPI provides that knowledge. The purchasing team can review specific parts for AM suitability using data points they already have on-hand. They also benefit from alerts based on AMPI's tracking of part life cycles. Armed with this information, purchasing departments can make well-informed decisions rather than filling in the gaps with guesswork.

**3YOURMIND**  
**ENTERPRISE**  
**IDENTIFY**



# COLLABORATE

on a single platform to bring all relevant departments on board.

Getting your whole team on the same page is pretty conventional advice, but when an organisation moves its entire design-to-production workflow to digital, they will experience how simple it can be to move parts into production.

The platform provides visibility from beginning to end, eliminating virtually all barriers to clear project communication. Discussion text and 3D data are accessible on a single page, so everyone can accomplish more by leveraging standardization.



IDENTIFY

COLLABORATE

ORDER

SCHEDULE

# TEAM COLLABORATION

adds clarity, transparency  
and efficiency at every step  
of the process.

The dialogue around coordinating production, adjusting 3D models and managing approvals is stored next to your 3D project and visible to all collaborators. Automatic notifications ensure that everyone stays up to date as each part moves down the production chain.



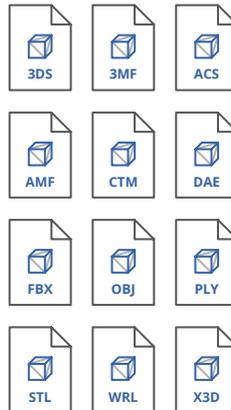
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ENTERPRISE  
COLLABORATE

# CENTRALIZED DATA STORAGE

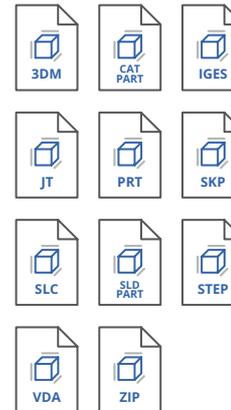
collects your AM inventory  
and production list  
in one access point.

The platform accepts models from more than 15 leading CAD file types displays them in one standardized viewer, and collects all supporting documentation into a single 3D project.

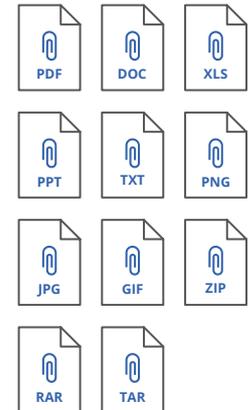
## Mesh formats



## CAD formats



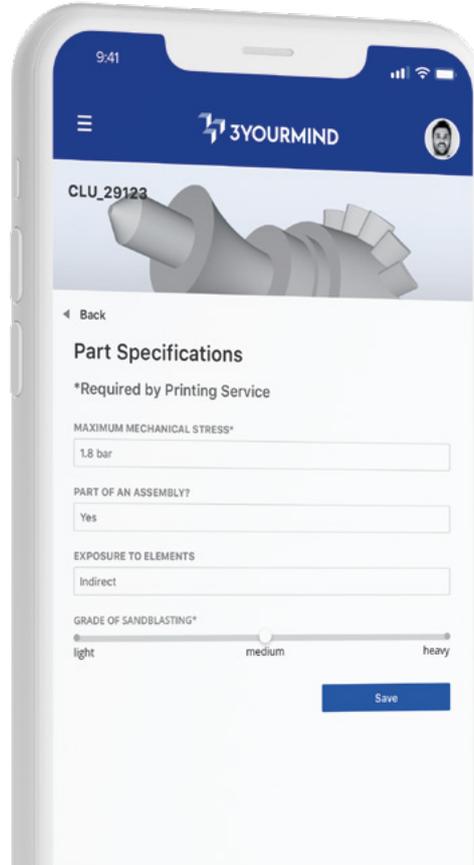
## Attachments



# CUSTOM PART REQUIREMENTS

align the specific need of your employees and customers.

Collecting production and part specifications during the order process helps to move parts more quickly into production and reduce potential errors.



The image shows a smartphone displaying a mobile application interface. At the top, the status bar shows the time 9:41, signal strength, Wi-Fi, and battery icons. The app header is dark blue with a white menu icon on the left, the 3YOURMIND logo in the center, and a user profile picture on the right. Below the header, the part ID 'CLU\_29123' is displayed above a 3D rendered image of a mechanical part. A 'Back' button is visible below the image. The main section is titled 'Part Specifications' and includes a note: '\*Required by Printing Service'. There are four input fields: 'MAXIMUM MECHANICAL STRESS\*' with the value '1.8 bar', 'PART OF AN ASSEMBLY?' with the value 'Yes', and 'EXPOSURE TO ELEMENTS' with the value 'Indirect'. At the bottom, there is a slider for 'GRADE OF SANDBLASTING\*' with markers for 'light', 'medium', and 'heavy', and a blue 'Save' button.

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ENTERPRISE  
COLLABORATE

# ORDER

with instant, accurate pricing and real-time comparison tools that make guesswork obsolete.

Once your file has been verified for printability and you've chosen your material and finishing technology, 3YOURMIND's Enterprise solution provides a list of matching in-house and external suppliers, each with pricing and delivery times.

In other words, we've eliminated the guesswork - you now have all the information you need to place a well-informed order. Simply choose the best print service for the job and let the automated ordering process begin.

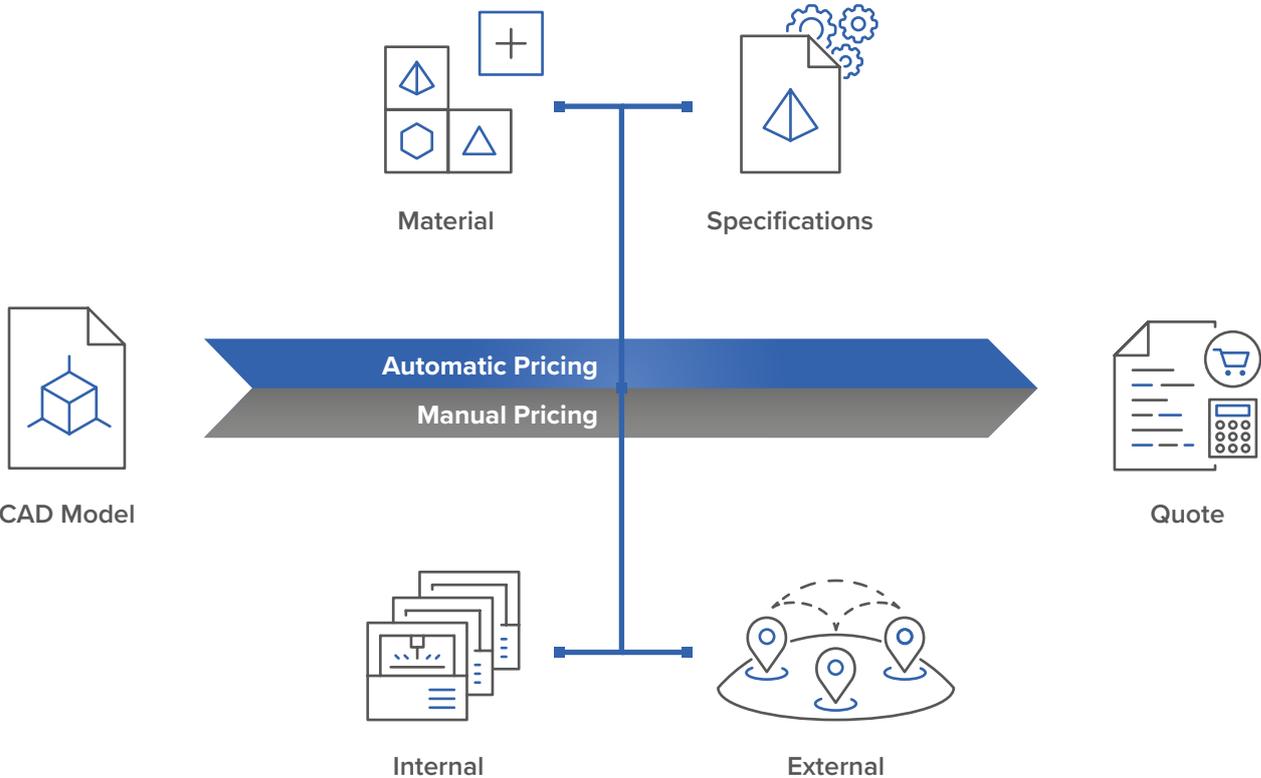


IDENTIFY

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ORDER

SCHEDULE



# PRINTABILITY CONFIRMATION

reveals only the files that  
are ready and optimized  
into production.



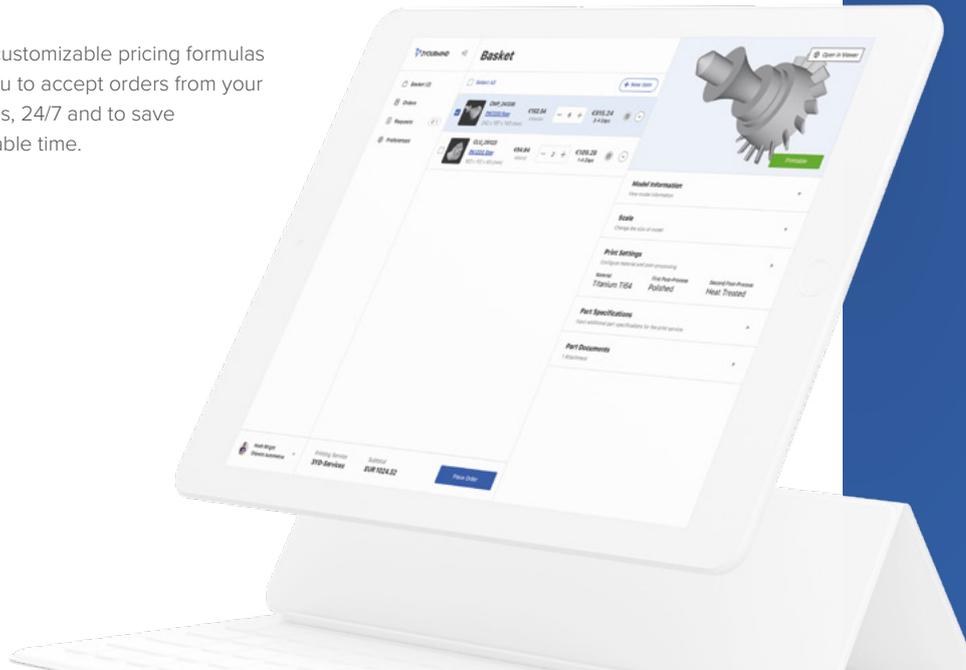
Weak points are shown  
in the 3D model viewer so your  
team knows exactly how  
they need to modify the file.  
Each model is further optimized  
by assuring the manifoldness  
of the input, fixing numerical  
and topological inconsistencies  
and removing digital artifacts  
to create a watertight mesh -  
all while maintaining the original  
part geometry.

3YOURMIND  
ENTERPRISE  
ORDER

# INSTANT, ACCURATE PRICING

Create pricing formulas based on all relevant factors including material type, post processing methods, required support material and orientation.

Our fully customizable pricing formulas enable you to accept orders from your employees, 24/7 and to save your valuable time.



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ORDER

# SINGLE ACCESS POINT FOR ALL SUPPLIERS

using a side-by-side comparison  
of in-house machines  
and outside suppliers.

External suppliers allow you to extend  
your material selection or temporarily  
add capacity without needing to invest  
in additional machines.

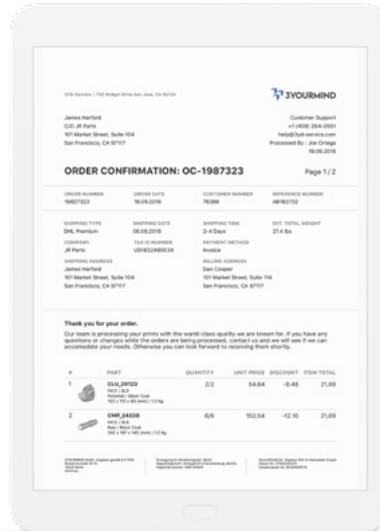


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ORDER

# AUTOMATIC ORDER MANAGEMENT

keeps all departments up to date on the status of production with automatic email updates or tracking online.

The platform automatically generates the routine project documentation such as quotations, delivery notes, invoices and shipping documents.



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ORDER

# SCHEDULE

using integrated tracking and agile recommendations to organize your production floor for maximum efficiency.

Are you leveraging all the available tools you need to scale manual processes?

3YOURMIND's Agile Manufacturing Execution System (MES) is the middleman between incoming orders and your production team. The software advises your machine operators on build recommendations and part prioritisation to keep your printers running strong.

Custom workflows handle task scheduling, workflow routing and part tracking based on the unique processes you have in-house. Our software ensures you can scale to match the ramp-up of additive manufacturing.



IDENTIFY

COLLABORATE

ORDER

SCHEDULE

# SMART PART PRIORITIZATION

provides automatic  
recommendations to give the most  
efficient job scheduling possible.

Your scheduling team can automatically generate job build lists based on material, delivery date and priority to quickly create their jobs without digging through orders and data. It's never been easier to maintain your delivery schedule.

**Create New Job**

**General**

WORKSTATION: EOS P380 | MATERIAL: Polyamide | JOB TYPE: Printing

**Parts**

<input type="checkbox"/>	PART NAME	PART #	MATERIAL	POST-PROCESS	ORDER DATE	AMOUNT
<input type="checkbox"/>	Alcomsat-1	343021	Polyamide	Raw	2018/02/13	— 3 / 20 +
<input type="checkbox"/>	Hylas-4	128391	Polyamide	Raw	2018/02/13	— 3 / 20 +
<input type="checkbox"/>	Dassault Falcon	123212	Polyamide	Raw	2018/02/13	— 3 / 20 +
<input type="checkbox"/>	Hylas-4	128391	Polyamide	Raw	2018/02/13	— 3 / 20 +
<input type="checkbox"/>	Boeing 737 MAX	368972	Polyamide	Raw	2018/02/13	— 3 / 20 +

Assign All Amounts | Add New Part

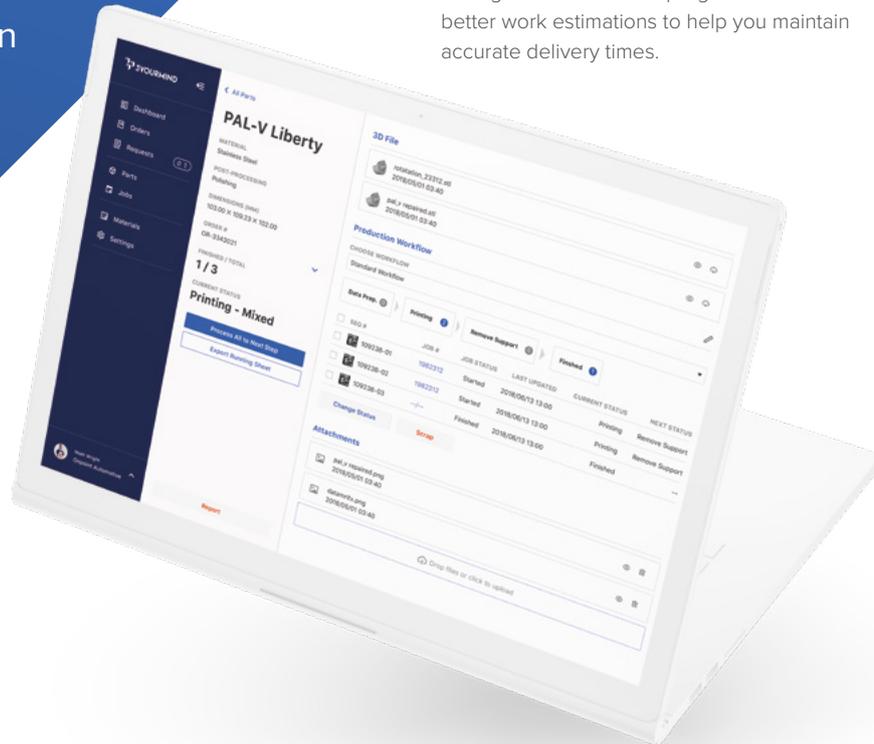
**Schedule**

START TIME: 2018/07/19 12:30 | FINISH TIME: 2018/07/20 14:30

# CUSTOM AM WORKFLOWS

matches scheduling and job assignment with your exact production and post-processing workflows.

By adding custom processes for each production scenario you handle, the Agile MES can track progress and make better work estimations to help you maintain accurate delivery times.





IDENTIFY

COLLABORATE

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SCHEDULE



**ANALYZE**

## **ANALYZE**

to optimize performance along your end-to-end AM workflow.

Understanding employee behavior allows you to adapt to their specific needs. The Enterprise Platform includes analytic tools to track exactly how employees are engaging throughout the ordering process.

Use analytic reports developed specifically for companies using AM to provide a framework to estimate upcoming demand and material use, and identify the types of orders and customers that increase your printer utilization and profit. The Enterprise Platform brings the advantages of data tracking to Additive Manufacturing.

# DATA-DRIVEN PERFORMANCE OPTIMIZATION

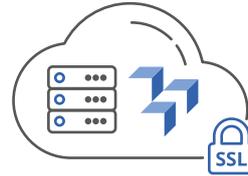
using clear reporting at every stage  
of the production cycle.



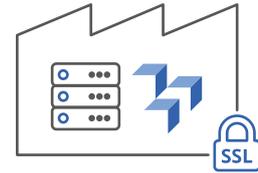
Our reports have been developed to match the specific needs of additive - from tracking platform usage to production volume to order processing.

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ENTERPRISE  
ANALYZE

# CHOOSE BETWEEN WEB-BASED AND ON-PREMISES SOLUTIONS



Web-Based



On-Premise



## CUSTOMIZE THE LOOK TO MATCH YOUR OWN BRAND

# SECURITY FEATURES

-  Multi-factor data authentication
-  Encryption in transit and at rest
-  Automatic system monitoring, direct alerts, instance logging
-  Layered platform permissions
-  Compliant with the GDPR-EU (General Data Protection Regulation)
-  Compliant with Federal Trade Commission Act (15 U.S.C. §§41-58)



## A Secure Platform Built for the Future of Production

We already provide secure platforms to some of the world's largest manufacturers in the Aerospace, Automotive, Medical and Logistic Industries.

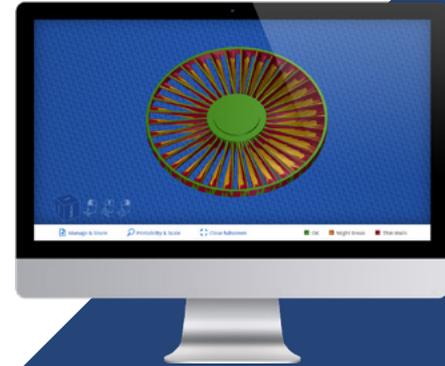
As they build the products of the future, we understand the importance of maintaining enterprise level security at every stage of their production process.

# TAKE ON THE FUTURE

Integrating automation within your AM workflow is critical to stay at the forefront of innovation. By adopting the right suite of tools to automate organizational details, your team can get on with what matters - manufacturing efficiently and creatively.

Optimized workflows do more than make you competitive - they make you a leader in one of the most exciting developments happening in the world today.

Additive manufacturing is just taking off, and there's no stopping it. With automation and optimization in your corner, you're ready to take on the future.



Experience  
an Optimized AM Workflow.

[3yourmind.com/enterprise-demo](https://3yourmind.com/enterprise-demo)



Is your business using ADDITIVE



to its fullest POTENTIAL?



3YD ENTERPRISE Oct 2018



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