



# Automated, Modular AM Production Line for High Mix High Volume 3D Printed Parts



# Introduction

Challenge & Ambition:

- End2End integrated & automated
- Continuous flow

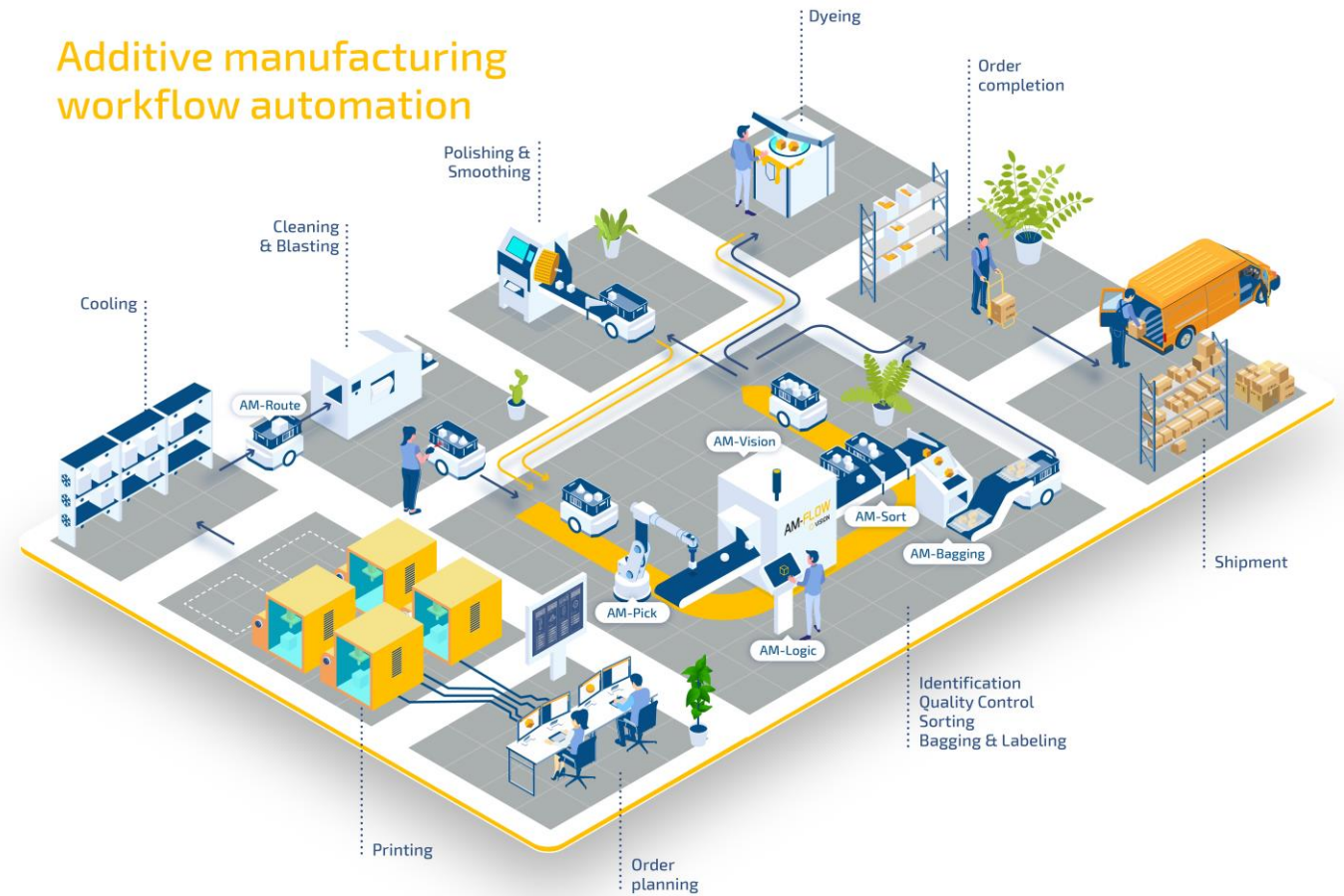
Objectives:

- 4 major automation modules post-production
- Testing & validation with end-users
- System Integration

High mix high volume:

- 3D Print Service Providers
- Contract Manufacturers
- Internal service providers of multinationals
- OEM / Product Vendors

## Additive manufacturing workflow automation



# Module 1: Identification & Sorting enhancement & compatible modules

## AM-Bagging



## AM-Feed



# Module 1: Identification & Sorting enhancement & compatible modules

## Pick2Light AM-Flow



## Pick2Light ZiggZagg



# Module 2: Bin-Pick

## PICK

### Hardware mechanical

- The gripper system is suitable for handling 3D printed parts.
- Pick-It camera system.
- Canopy, suitable for 2 loading and discharge positions.
- 1 output: Overflow output, Modular exit

### Robot

- ABB IRB 1200-7/0.9 robot
- I/O
- Multi-tasking
- Collision detection
- Network connection

### User interface

- DSQC 679 FlexPendant

### System

Dimensions (L x W x H): 1437x1519x2074 mm

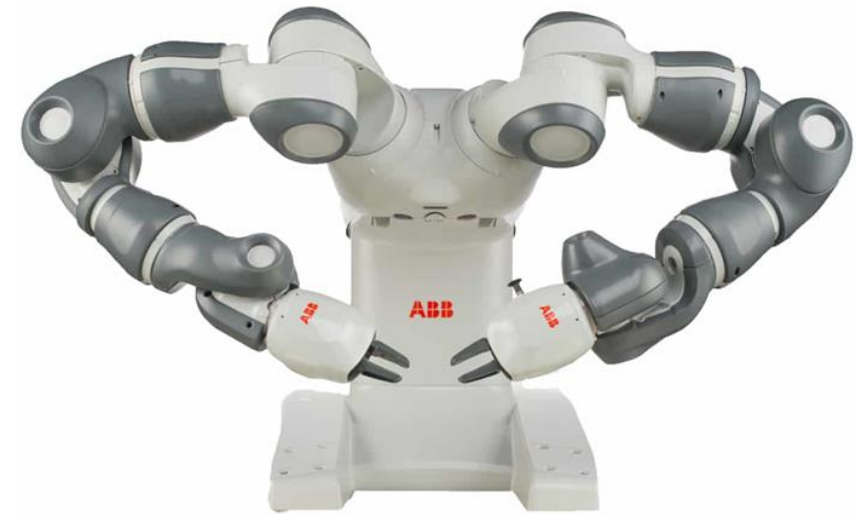
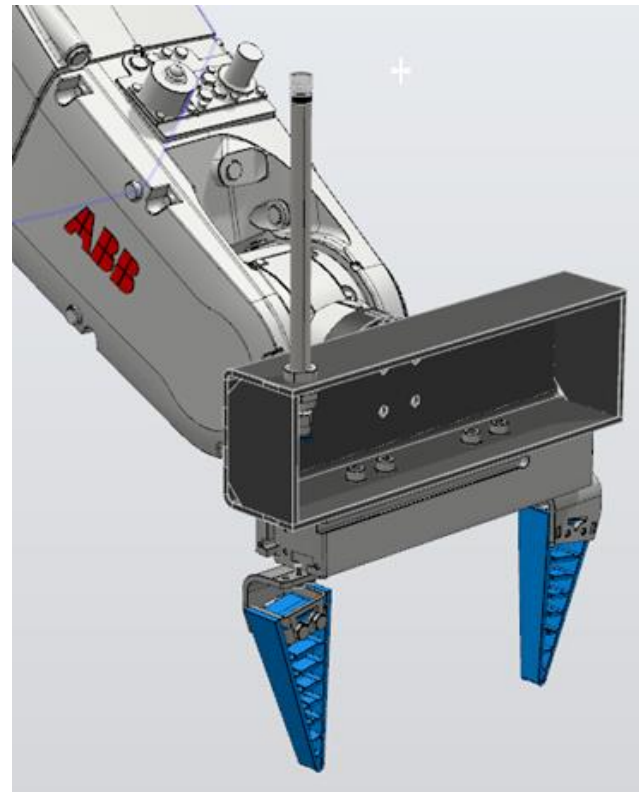
### Gripper

- Vacuum suction with a pliable skirt to ensure parts are not damaged by the gripper

### Technical requirements

Power supply: 400V 5P+N, 16A, 50Hz

Air supply: 5-8 bar



# Module 3: Dyeing



# Partners of a powerful consortium



## Strategic Suppliers



## System Integrator



## Co-creating End-Users



# Engagement & collaboration accelerated



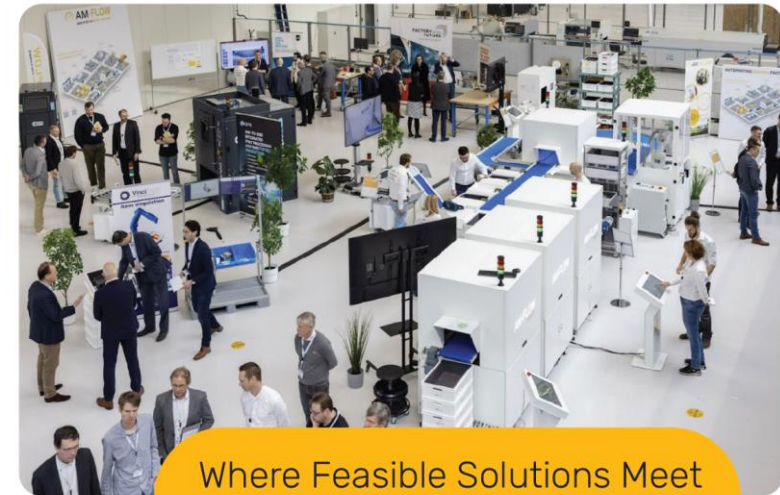
For practical visionairs working on an automated AM factory

- 3D Print Service Providers
- Contract Manufacturers
- OEM / Product Vendors

(3DOP) Technology Providers are invited to showcase their building blocks



Smart AM Factory Summit 2024



Where Feasible Solutions Meet Practical Knowledge Sharing

**Thursday, February 22, 2024**  
Brainport Industries Campus, Eindhoven  
The Netherlands





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