







Additive Manufacturing Technologies (AMT) is an automated postprocessing technology development and manufacturing company

Several years of technology development for Polypropylene smoothing

Processed over 50,000 Polypropylene components to date

AMT systems include automated post-processing cells including surface smoothing, de-powdering, vision and handling

Vision is to create technology and systems that deliver Industry 4.0 compliant industrialised 3D Printing







# POLYPROPYLENE SMOOTHING Game changing technology

Versatile polymer used for a variety of applications: automotive, aerospace, medical, and consumer industries.

Excellent chemical resistance, mechanical properties, cost and availability industry.

New window of opportunities for Additive Manufacturing industry.



# POLYPROPYLENE SMOOTHING

SMOOTHING METHODS

Mechanical abrasion techniques not suitable for many applications:

- May damage small features and/or structural integrity of the entire part
- Create plastic micro-fibers making parts unsuitable for respiratory aplications
- Do not seal the surface
- Discharge water waste



### AMT'S POLYPROPYLENE SMOOTHING

VAPOUR
SMOOTHING
TECHNOLOGY TO
SMOOTH AND SEAL
THE SURFACES OF
POLYPROPYLENE
PARTS

GREEN, NON-HAZARDOUS CHEMISTRY WIDE VARIETY OF POLYPROPYLENE GRADES WASTE

NO

ACCURATE AND REPEATABLE FINISH



#### EXAMPLE APPLICATIONS OF PP

Ricoh PP S5500P

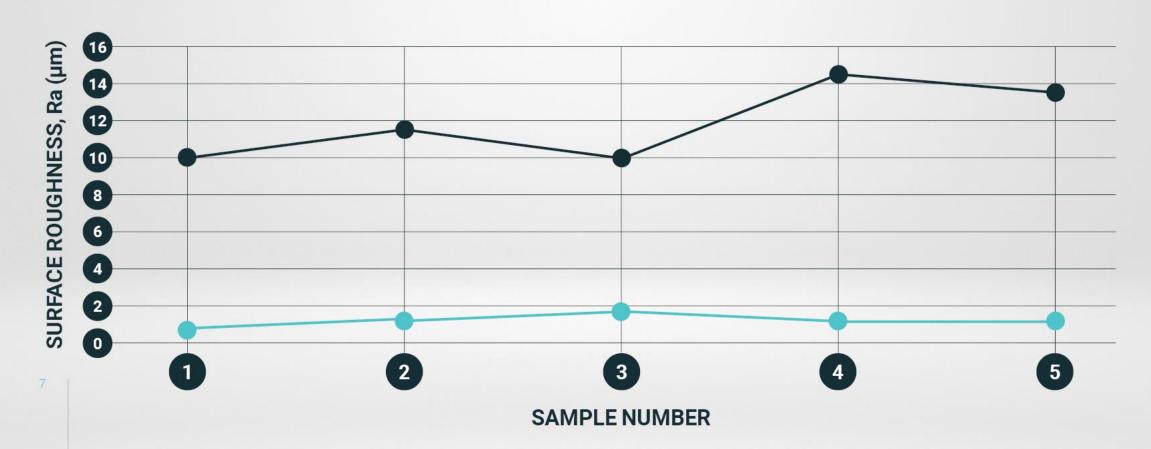


UNPROCESSED

PROCESSED



### SURFACE ROUGHNESS IMPROVEMENT





#### CONCLUSIONS

- ◆ Green non-hazardous chemistry
- ★ Enable sustainable and automated production



## THANKYOU

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