

THE NEXT GENERATION IN HIGH POWER ULTRA-SHORT PUI SF LASER SURFACE PROCESSING

HIGH POWER ULTRA-SHORT PULSE LASERS TO ENABLE THE PRECISE PERIODIC TEXTURING AT UNPRECEDENTED PROCESSING SPEEDS.

TECHNOLOGY USED ON A RANGE OF DIVERSE MATERIALS:

METALS / POLYMERS / CERAMICS AND CERMETS.

EXPECTED RESULTS OF END USER CASE STUDIES:



FMCG PACKAGING

- Improve product evacuation from packaging to avoid overfilling
- Improved customer satisfaction
- Improved sustainability as customers use more product from their purchases



DISHWASHER

- 26.7 GWh of electrical power saving per year
- The Offset of 11000 tonnes CO₂ per year



TUMBLEDRYER

- 6.16 GWh of electrical power saving per year
- The offset of 2538 tonnes of CO₂ per year



AUTOMOTIVE CYLINDER PISTON LINER

- 1.1% fuel economy due to reduced friction
- Potential to deliver savings of 49,611 tonnes of CO₂ per year



AUTOMOTIVE HIGH STRENGTH ALUMINIUM PRESSING

- 257 million litres of fuel saving per year
- The offset of 664 million tonnes of CO₂ per year



AESTHETIC CHROME COMPONENTS FOR AUTOMOTION

- Obtain super-hydrophobic textured surfaces
- Improve the easy-clean capability

BENEFITS OF THE PROJECT

- More than 1000 jobs will be created
- An increase of the investment in innovation
- Reduction of harmful chemical usage
- High-throughput efficient material removal at up to 5 m²/min.



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Partners:



























