



LMT Increases Parts Traceability by 40% for Firearms Maker

CASE STUDY

American Speedloaders, Caro, MI

INDUSTRY

Firearms

THE CHALLENGE

American Speedloaders (ASL) engineers speedloaders and a vast array of firearms accessories. However, the material they used to manufacture speedloaders (injection mold nylon 6 in black) wasn't compatible with laser marking. The marks, used for traceability purposes, would turn out too dark. They needed a solution to make the black injection mold laser friendly, while allowing it to turn white for permanent identification.

THE SOLUTION

Laser Marking Technologies enlisted the help of Uniform Custom Color, a plastics company that specializes in high performance color and additive masterbatches. Together, they devised a material that could absorb the infrared 1064nm wavelengths of the laser marking machine.

THE RESULT

After using the new material, ASL was able to effectively mark and trace their speedloaders.

MEASURABLE OUTCOMES

- ✓ Saved ASL money by decreasing cycle time by 150%
- ✓ Increased marking visibility and parts traceability by 40%
- ✓ Provided an unexpected solution for theft and security problems. The permanent mark could not be removed, ensuring units that came back for warranty are not counterfeit.



Laser Marking Technologies
1101 W. Sanilac Rd
Caro, MI 48723

Phone: (866) 799-0199

Contact an LMT sales engineer:
info@lmtgrp.com