



We Completely Sealed Reflective Decals From Outdoor Debris

Brand

OEM

Business Type

OEM

Services

Digital Cutting

Concept

A UTV manufacturer required reflective diamond grade decals for their equipment to improve safety and visibility in the field. A common flaw with this reflective material is that once cut, the exposed diamond rows allow debris and water to penetrate, which can compromise the decal's integrity over time. While this issue is typically contained along the outer edge, prolonged exposure can cause migration of contaminants into the part, leading to performance degradation and aesthetic concerns. They came to us to find a solution.

Challenge

Prevent moisture and debris from compromising the durability of diamond-grade reflective decals after cutting.



Solution

100%

Integration Rate For UTV Assembly

To address this, we proposed an edge-sealing process to enhance both the durability and appearance of the decals. By sealing the edges, we could effectively prevent moisture and debris infiltration, ensuring the decals maintained their reflectivity, longevity, and finish.

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Exposed Material Edges

This process simultaneously cut and sealed the material, eliminating the need for a separate sealing step and reducing costs. After extensive field testing comparing sealed and unsealed decals, the manufacturer concluded that edge sealed decals significantly outperformed their unsealed counterparts.