

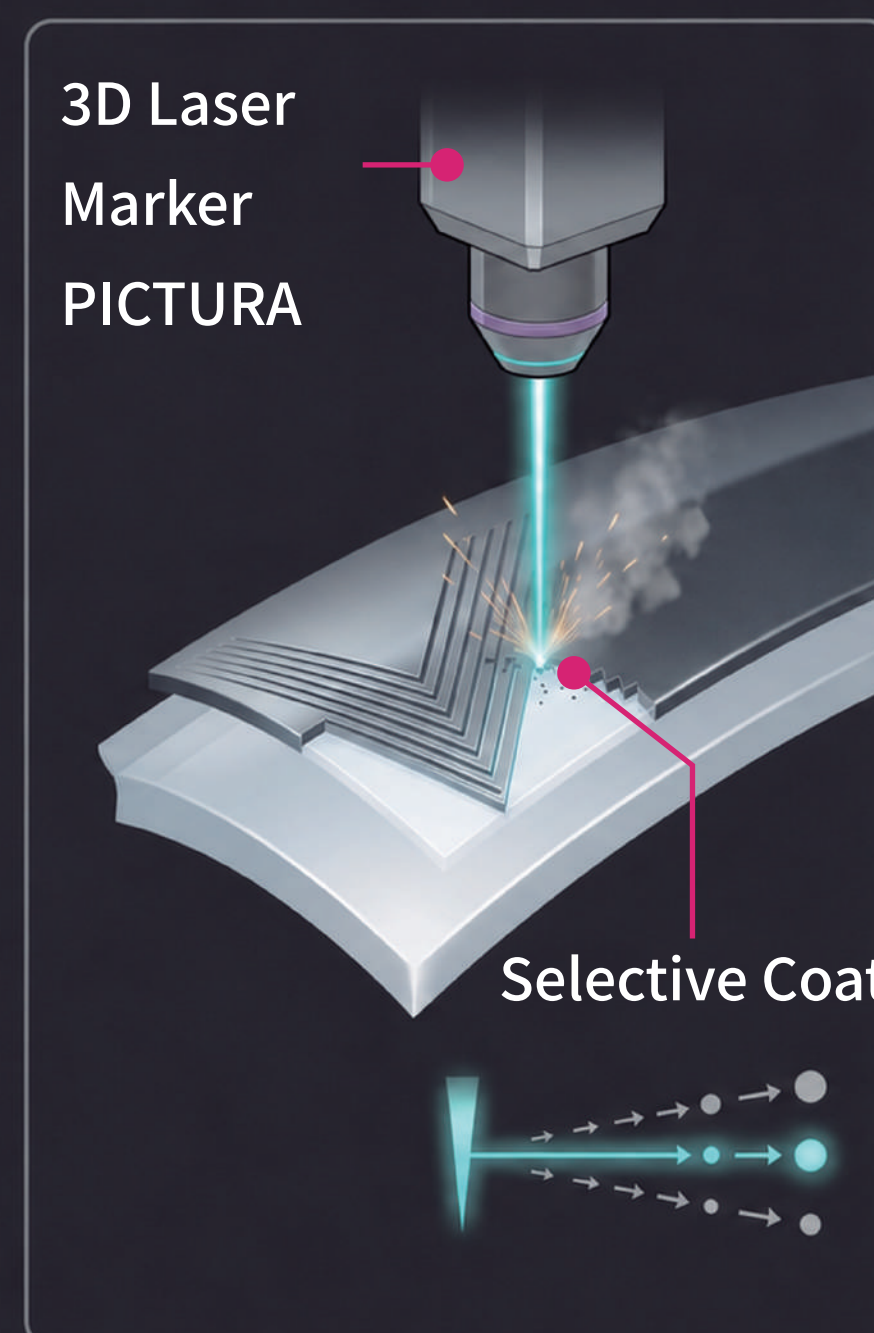
Front Panel Laser Coating Removal

STRUCTURE



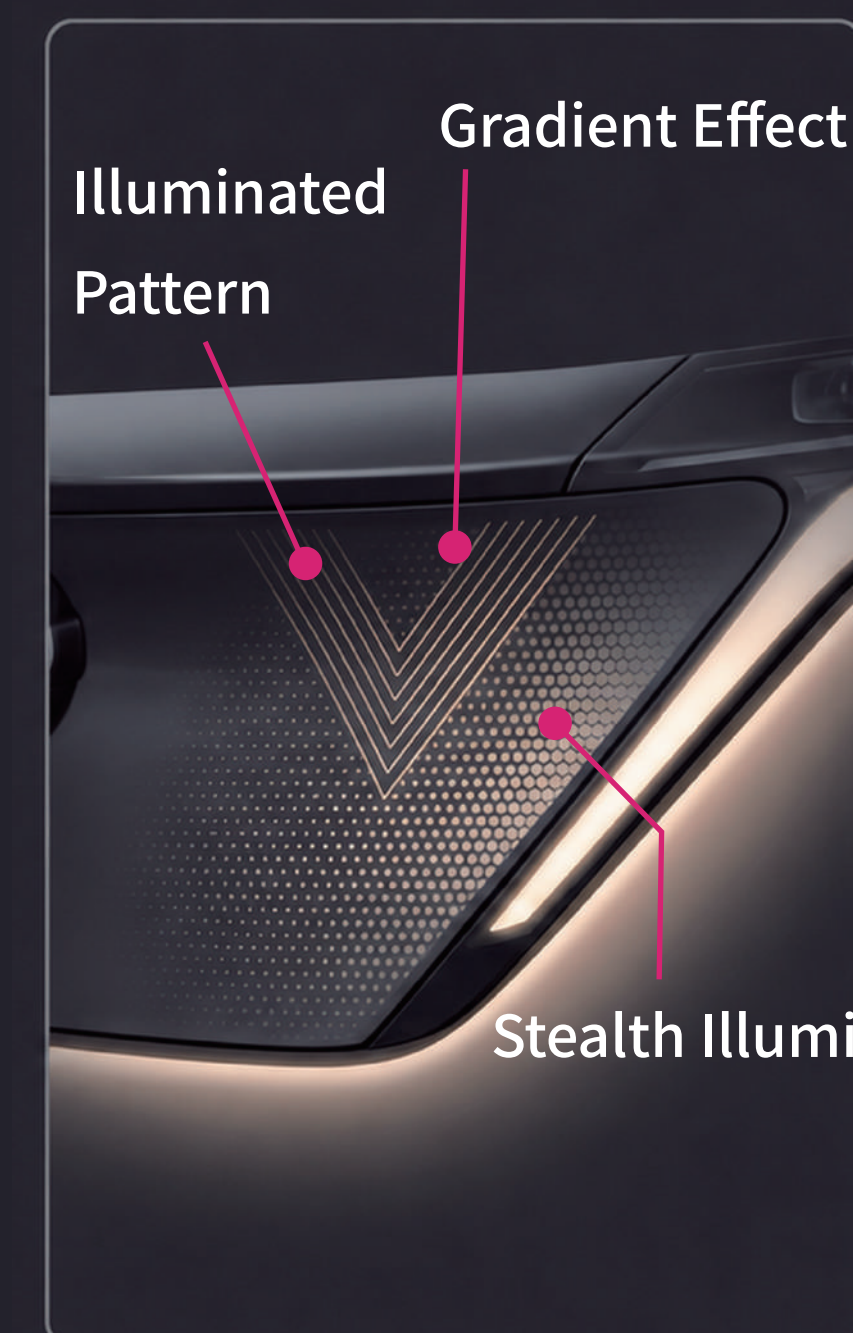
Metallic appearance in daylight

PROCESSING



Brightness control via dot density

RESULT



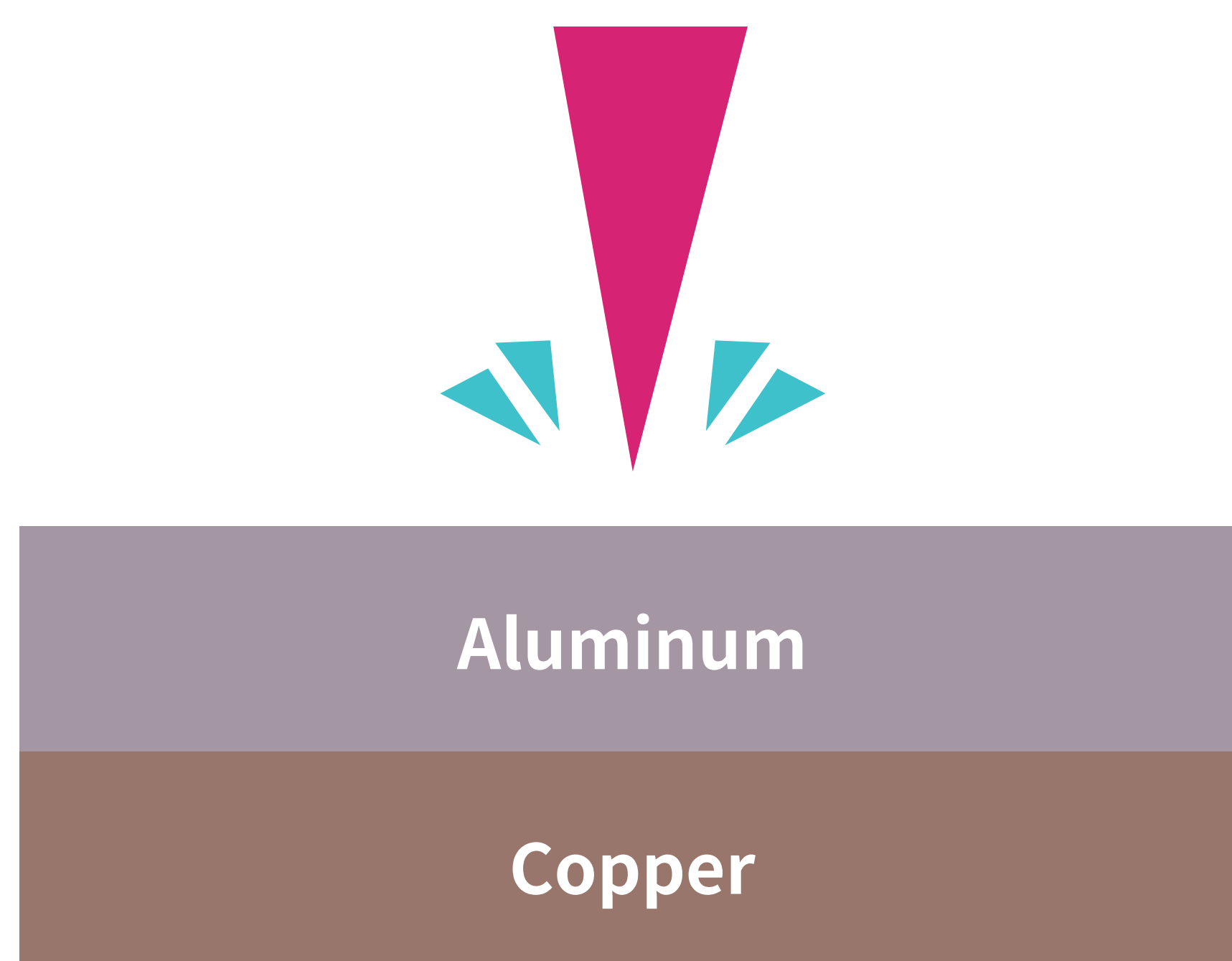
Illuminates at night

Using the 3D laser marker PICTURA, the opaque layer is selectively removed to achieve “stealth illumination”. Enables high-quality marking on large and curved surfaces.



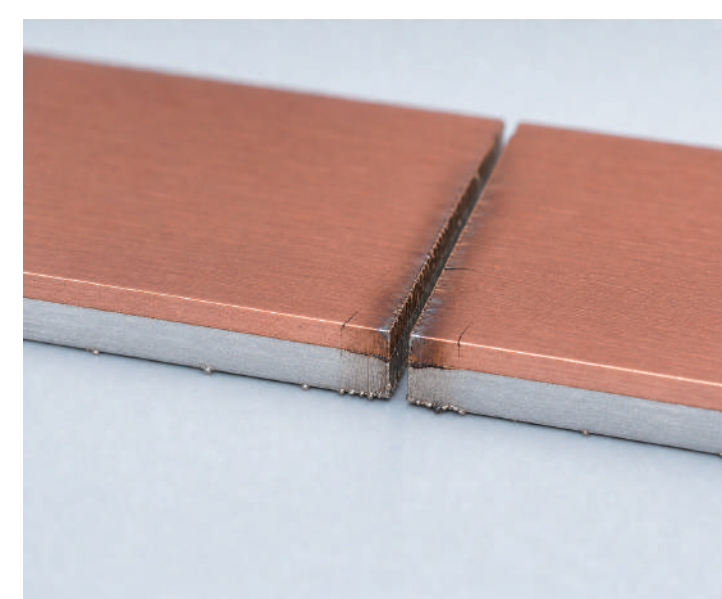
Final Result

Cu/Au Composite Cutting



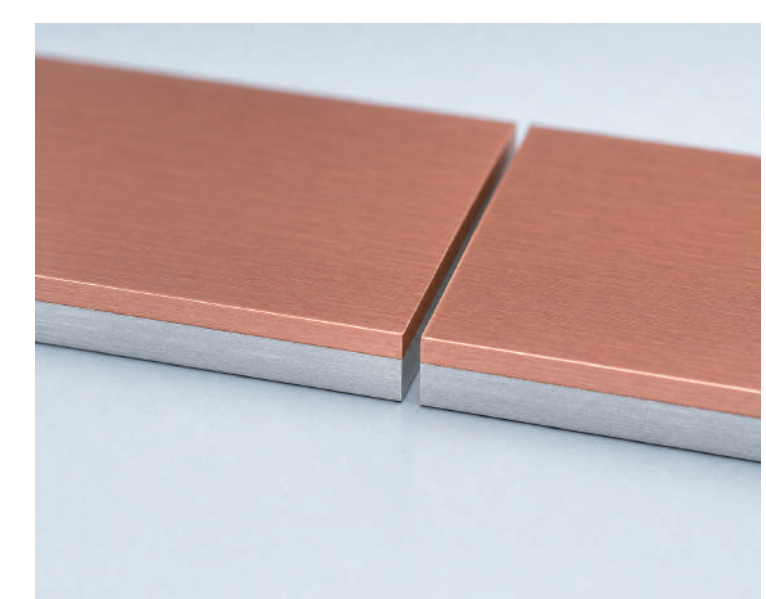
Cutting two metals with different melting points and reflectivities. Over-melting causes brittle intermetallic compounds and cracking.

NG

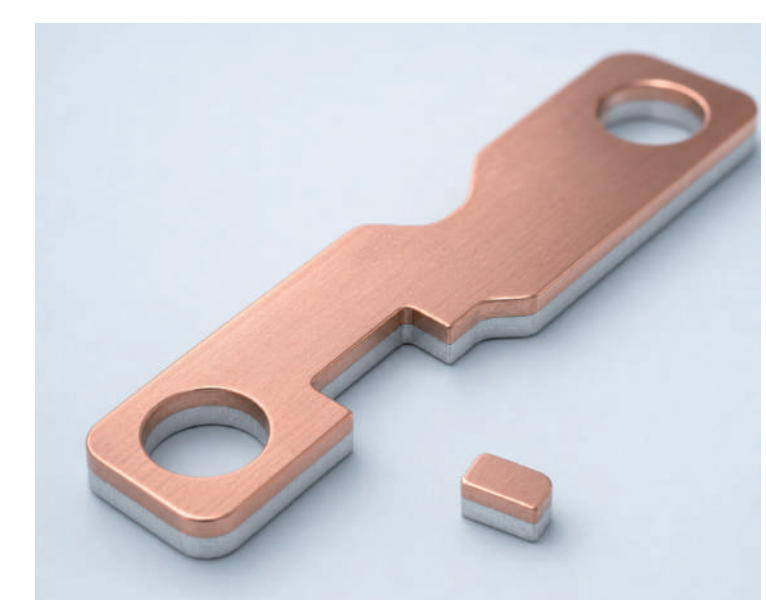


High risk of burrs, cracks, and delamination due to heat-affected zones (HAZ) at the metal interface.

OK



- Single-wavelength cutting for Cu/Al composites.
- Burr-free and crack-free processing.
- Tool-less shaping



Final Result

Enameled Wire Stripping

In Ev/FCV motor manufacturing, stripping enameled wire is a critical process that directly impacts TIG welding quality and electrical conductivity.

Challenges

- Mechanical Stripping: Over-cutting the copper core complicates subsequent welding.
- Conventional Laser: Requires two wavelengths to remove enamel without heat damage to the copper.

Quantec

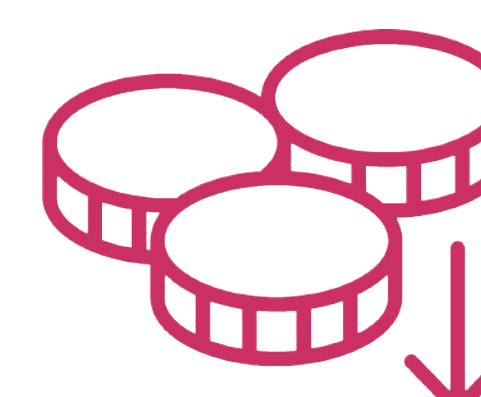
- High-quality stripping process and equipment using only a single wavelength

Benefits



Reduced Cycle Time

Faster processing due to fewer manufacturing steps.



Lower Cost

A single light source lowers both equipment costs and maintenance burdens.