Laser and Hybrid Technologies

Laser becomes a productive and cost-effective alternative to other additive or subtractive manufacturing processes. It is also one of methods for surface engineering. Laser engraving and texturing suits well especially for hard to machine materials. Laser cutting, welding and material cladding are effective and precise processes.

Benefits from using laser for engraving and texturing applications:
- Similar precision compared to mechanical engraving
- Guaranteed engraving repeatability
- A contactless technology
- Applicability to difficult-to-cut processed materials
- Increased hardness of the engraved surface

Benefits from using laser for cutting, welding and hybrid additive manufacturing:
- Cutting and welding of thin parts from different materials (Ti, Ni, Mo, etc.)
- Generation of new structures and functional surfaces
- Effective and precise processes

Laser texturing of the mold

Additive manufacturing by laser cladding

QR code engraving

Laser engraving and texturing of the cutting insert

Laser welding of turbine wheel cover

Holes by laser drilling