Laser Surface Engineering

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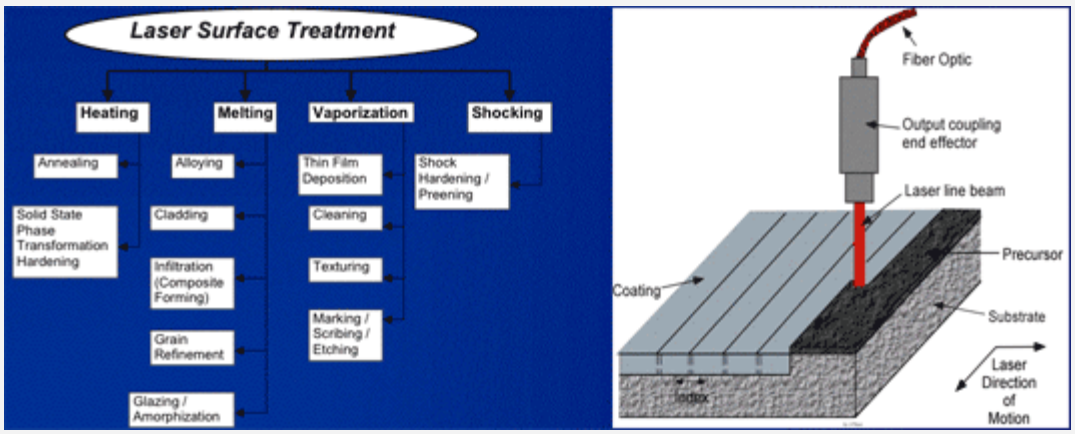
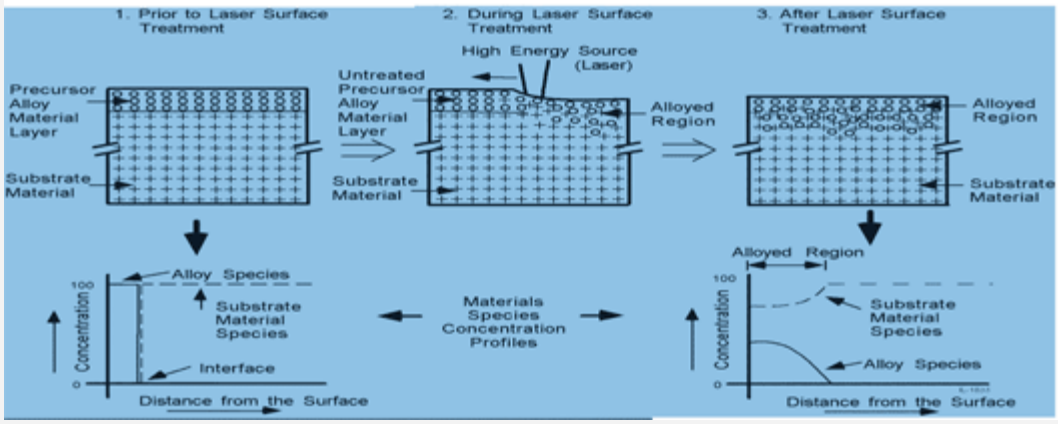
Features:

- High Coating Thickness (up to 0.8mm)
- Metallurgically Bonded Coating
- Non-equilibrium Synthesis Process Leading to the Development of Novel Phases
- Precise Control of Processing Parameters
  - Beam can be Shaped for a variety of energy distributions
  - High Flux Densities (>104 W/cm2)
- Laser Beam Transport to Remote Locations via Fiber Optics
  - Allows for the Processing of a Wide Variety of Part Configurations
  - Amenable to Automation

Theories and Methods



Laser Surface Enhancement/Coating/Alloying