

## Edm S Effect On Surface Integrity Part 2 Poco Graphite

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**Part Two of a Two-Part Series EDM's Effect on Surface ...**  
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 The aerospace industry discovered the EDM process damaged the surface of the components being machined. This damage was a result of the heat generated by the EDM process, and consisted of the recast layer, or white layer, and an annealed Heat Affected Zone (HAZ), which lay directly below the hard recast layer.

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**Electrical discharge machining - Wikipedia**  
 This study focused on the material removal rate (MRR), the surface roughness, and tool wear in a 304 stainless steel EDM. The composite electrode consisted of copper (Cu) and silicon carbide (SiC). The current effects imposed on the working material, as well as the pulses that change over time during the experiment.

**Effect of SiC-Cu Electrode on Material Removal Rate, Tool ...**  
 Among the above three processes wire EDM had shown detrimental effect on surface integrity. Ghanem et al. measured the surface residual stresses on hardenable (tool steel type X155CrMoV12 and high carbon content steel type C90) and non-hardenable steels (austeX2CrNiMo17-12-02 and ferritic steel type X6Cr17) which were machined by EDM.

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