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abstract the surface integrity of machined metal components is critical to their in service functionality longevity and overall performance surface defects induced by machining operations vary from the nano to macro scale which cause microstructural mechanical and chemical effects

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open access highlights the physical mechanisms employed to perform material removal influence the surface integrity induced to the machined part machining induced surface layers can play a primary role in determining the in service behaviour of machined components

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surface integrity refers to the influence of a component s surface properties on its

useful service life and performance the importance of surface condition is as old as forging heat treatment grinding and machining

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this paper presents an overview of the past research on surface integrity si studies in the context of machined components from a range of work materials including stainless steels ni and ti

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surface integrity machinability introduction first visual or tactile contact with the objects is through their surfaces we can feel surface roughness waviness reflectivity scratches cracks and discoloration a specific texture and several defects can exist on a surface depending on how the surface was generated

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investigation of surface integrity of conical hole in laser polishing 440c stainless steel by chuanqi zhang 1 2 yukui cai 1 2 haotian zhang 1 2 jiahang li 1 2 qinghua song 1 2 bing wang 1 2 and zhanqiang liu 1 2 school of mechanical engineering shandong university jinan 250014 china 2

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binderless tungsten carbide wc is preferred for manufacturing tools mould and wear resistant components however due to its high brittleness and hardness the machined binderless wc surface is prone to generate microcracks and the machining efficiency is extremely low aiming at this difficulty a clean and eco friendly dry electrical discharge assisted grinding dedag method without any

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