Presentazione attività

Settore scientifico disciplinare ING-IND/16 Tecnologie e sistemi di lavorazione

Roma 27.02.2017



DIPARTIMENTO DI ÎNGEGNERIA Meccanica e Aerospaziale



Drilling Turning Milling

Squeeze casting Foam fabrication & characterization

Powder characterization

Additive Manufacturing Digital Image Processing

CNC manufcturing

Roughness analysis

Mechanosynthesis

Ferrofluid fabrication

Citology

Pavement characterization

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High complex 3D object from its mathematical formulation











Non constant radius offset



Design 4 Manufacturing







Prediction models of attainable surface quality





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Integrated tool for product-process development





Reverse Engineering of manufactured components





Microgeometrical analysis





Morphological and morphometric analysis of powders



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Mass finishing

Almost every material and shape can be processed

A complete analysis can be undertaken to know which process parameters are needed for traditional and unusual aims: deburring, roughing, finishing, lustering, stress inducing, stress reliefing



Scientific approach: barrel finishing micromechanics

Experimental design



Now dedicated to AM parts conditioning



Foam fabrication and characterization

Replication casting









Squeeze casting





Drilling





Pavement characterization







Mechanosynthesis









































Dragonfly Srl





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