Abstract [1-3]

The decentralized manufacture leads to a new local strategy for manufacturing sector. An example is FabLab (an abbreviation of fabrication laboratory) which is a small workshop that contains a number of basic manufacturing equipment, typically 3-axis CNC Mill, vinyl cutter, laser cutter, 3D printer and circuit board production facilities. However, FabLabs house a plurality of machines, they are only enacted one at a time, with manual intervention and change. This requires a competent operator to be present. These shortcomings mean that accessibility for everyday user is inhibited by a lack of manufacturing knowledge. The Hybrid Manufacturing Platform is composed of several technologies that are usually classified in five technology categories and one measurement.

Sub-hybrid Platform [4-6]

In this case, the Hybrid Platform, which is studied, is the combination of milling and laser machining on the green ceramic.

- Micro-milling
- Nanosecond laser (IPG)
- Femtosecond laser

Devlopment Hybrid Platform

The development of Hybrid Platform is similar whatever the technologies composing the Platform.

- Specific cutting energy
- Roughness
- Influence of laser parameters
- Ablation threshold experimental
- Calibration

Material [7]

- Y-TZP ceramic
- Transformation toughening

Bibliography