Elaboración de una CNC de 3 ejes para el ruteo de pistas y taladrado de circuitos impresos (PCBs) [

2018

text (article)

Analítica

This research focuses on the development of a prototype computerized numerical control (CNC), taking into account the parameters of design, control and interface improving the layout and development of electronic boards PCBs, with a free software EMC2, significantly improving the methods traditional or artisanal improving quality, lowering production costs and increasing the repeatability of the same plates or series construction. The design is carried out in the Solidworks Educational software with a check of each element applying the efforts in the longitudinal translation or Y axis with normal load in this way to perform the static analysis and behavior of the elements according to the material to be manufactured having the main length dimensions: 520 mm, Width: 160 mm and Thickness: 15 mm. with a working area of 320 mm width. The prototype has a mechanical system, control system with a controller card JP-382 and programming system with the visualization of the trajectories and the location of the tip of the tool by generating the G codes, reducing the manufacture of these cards in 60% of the construction of a plate manually
This research focuses on the development of a prototype computerized numerical control (CNC), taking into account the parameters of design, control and interface improving the layout and development of electronic boards PCBs, with a free software EMC2, significantly improving the methods traditional or artisanal improving quality, lowering production costs and increasing the repeatability of the same plates or series construction. The design is carried out in the Solidworks Educational software with a check of each element applying the efforts in the longitudinal translation or Y axis with normal load in this way to perform the static analysis and behavior of the elements according to the material to be manufactured having the main length dimensions: 520 mm, Width: 160 mm and Thickness: 15 mm. with a working area of 320 mm width. The prototype has a mechanical system, control system with a controller card JP-382 and programming system with the visualization of the trajectories and the location of the tip of the tool by generating the G codes, reducing the manufacture of these cards in 60% of the construction of a plate manually

Título: Elaboración de una CNC de 3 ejes para el ruteo de pistas y taladrado de circuitos impresos (PCBs) electronic resource]

Editorial: 2018

Tipo Audiovisual: CNC Estático Solidworks Prototipo Ejes CNC Static Solidworks Prototype Axes

Documento fuente: 3c Tecnología: glosas de innovación aplicadas a la pyme, ISSN 2254-4143, Vol. 7, Nº. 2, 2018, pags. 28-47

Nota general: application/pdf

Lengua: Spanish

Enlace a fuente de información: 3c Tecnología: glosas de innovación aplicadas a la pyme, ISSN 2254-4143, Vol. 7, Nº. 2, 2018, pags. 28-47

Baratz Innovación Documental

- Gran Vía, 59 28013 Madrid
- (+34) 91 456 03 60
- informa@baratz.es