

عنوان مقاله:

Precise Positioning By Air Impact

محل انتشار:

اولین کنفرانس بین المللی و هفتمین کنفرانس ملی مهندسی ساخت و تولید (سال: 1384)

تعداد صفحات اصل مقاله: 9

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خلاصه مقاله:

It is practically known that the position of an object could be precisely adjusted by applying small impact to it. Based on this phenomenon, a method for precise positioning is developed. The impacts are generated by recoil of an ejected mass. In the experimental setup, an object is placed on a flat surface and there is a barrel inside the object. A bullet can move inside the barrel. The impulsive air shoots the bullet and the recoil of it, drives the object in opposite direction. The displacement is a function of the mass of the object, the mass of the bullet, the wave shape of the impulsive force and the friction between the object and the flat surface. By adjustment of the impulsive force, .displacement with fine or rough steps is obtainable

کلمات کلیدی: Precise Positioning, Impact, Impulsive Force, Recoil, Friction,Displacement

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