

Title (en)

Method and device for self-learning the position of electromechanical actuators, particularly for circular textile machines and the like

Title (de)

Verfahren und Vorrichtung zum Selbstlernen der Position von elektromechanischen Stellgliedern, insbesondere für Rundstrickmaschinen und dergleichen

Title (fr)

Procédé et dispositif pour l'autoapprentissage de la position d'actionneurs électromécaniques, notamment pour métiers à tricoter circulaires et similaire

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Application

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Abstract (en)

A method for self-learning the position of electromechanical actuators, particularly for circular textile machines provided with a needle cylinder with multiple circumferentially arranged actuators for actuating heels of flexible elements arranged at each needle of the needle cylinder, each one of the actuators being provided with a plurality of levers which are actuated electronically, each one of the levers being suitable to pass from an inactive position to a position for engagement with a corresponding heel of the needle cylinder, consisting in: sending a command to each one of the actuators in order to arrange all of the levers except one in the inactive position, inducing a contact between the lower lever and the heel of a flexible element, to generate an electrical signal; starting the rotation of the needle cylinder; measuring, by way of signals generated by an encoder which is rigidly coupled to the needle cylinder, and electrical signals generated by the contact between the lower lever of each actuator and a corresponding heel, the angle between the zero position of the encoder and each heel that makes contact with the corresponding lever. The device includes the actuators (1), supported on an insulating element, and arranged around the needle cylinder (3). <IMAGE>

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