

Title (en)
METHOD FOR DETERMINING COMPONENTS OF A MECHANICAL ACTION TORSOR AT THE GUIDING POINT OF A CUTTING BLADE FOR A CUTTING MACHINE

Title (de)
VERFAHREN ZUR BESTIMMUNG VON KOMPONENTEN EINES MECHANISCHEN AKTIONSTORSORS AM FÜHRUNGSPUNKT EINER SCHNEIDKLINGE FÜR EINE SCHNEIDEMASCHINE

Title (fr)
PROCÉDÉ DE DÉTERMINATION DE COMPOSANTES D'UN TORSEUR D'ACTIONS MÉCANIQUES AU POINT DE GUIDAGE D'UNE LAME DE COUPE POUR MACHINE DE COUPE

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Abstract (en)
[origin: WO2021198586A1] The invention relates to a method for determining components of a mechanical action torsor at the guiding point of a cutting blade (L) for a cutting machine, the blade being guided in a presser foot (P) of a cutting head of the machine, the method comprising the positioning of a five-component dynamometer on the presser foot, the dynamometer comprising a plurality of sensors for determining a frontal force, a lateral force, a rolling moment, a pitching moment and a yawing moment of the cutting blade, the establishment of a calibration matrix of the dynamometer, and the determination of the forces in three dimensions to which the cutting blade is subjected, on the basis of the measurements obtained by the sensors and the calibration matrix.

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