

Title (en)
METHOD FOR DEFINING A SAFETY ZONE

Title (de)
VERFAHREN ZUR FESTLEGUNG EINES SICHERHEITSBEREICHES

Title (fr)
PROCÉDÉ DE DÉTERMINATION D'UNE ZONE DE SÉCURITÉ

Publication
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Application
EP 22712863 A 20220228

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Abstract (en)
[origin: WO2022184639A1] The invention relates to a method for securing a safety zone (S) in the spatial zone surrounding a machine (2) which is operated automatically by means of a machine control (1) and has machine parts (3) which are moved extensively during a working cycle, in which method the entirety of the spatial positions assumed by the moving machine parts (3) over a working cycle is determined as the movement space, and an enveloping area (H) approximating the surface area of the movement space is determined for the movement space in the form of data points (Pi, i=1...N), from which an enveloping space surrounding the movement space is calculated which forms the safety zone (S). The safety zone (S) is thus obtained directly from the working process of the machine (2) and can be easily adapted in the event of retrospective changes to the working cycle. Furthermore, structural measures for the erection of physical barriers can be omitted and the dimensions of the safety zone (S) can be reduced to the immediately necessary extent.

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