

Title (en)

METHOD FOR SEPARATING PRINTED PRODUCTS THAT ARE PRINTED TOGETHER ONTO A SHEET

Title (de)

VERFAHREN ZUM VEREINZELN VON GEMEINSAM AUF EINEN BOGEN GEDRUCKTEN DRUCKPRODUKTEN

Title (fr)

PROCÉDÉ DE SÉPARATION DE PRODUITS IMPRIMÉS, IMPRIMÉS ENSEMBLE SUR UNE FEUILLE

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Application

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Abstract (en)

[origin: WO2021023421A1] The invention relates to a method for separating printed products (03) that are printed together onto a sheet (01), wherein printed products (03) printed onto the sheet (01) in a printing machine (06) are separated in a cutting system (07) using a cutting device (11), wherein each of said printed products (03) has a respective identification feature (09) identifying its respective position on the sheet (01), wherein the sheet (01) is deformed as it passes through the printing machine (06), wherein the separated printed products (03), that are also deformed as a result of the deformation of the sheet (01), are checked in a quality control device (08) arranged downstream of the cutting system (07) for adherence to a tolerance, at least in terms of their respective length (l03) and/or width (b03), wherein, for each printed product (03) that has been identified in terms of its position, the quality control device (08) determines information relating to an exceeding of the tolerance at least of the length (l03) and/or width (b03) of the relevant printed product (03) and transfers this information to a control unit (21) of the cutting system (07) in an allocation to the position determined on the sheet (01), wherein, according to the information transferred by the quality control device (08), for printed products (03) to be subsequently separated in the cutting system (07) and arranged in the same position on the sheet (01), the control unit (21) of the cutting system (07) adjusts the relevant sheet (01) and the cutting device (11) relative to one another in their respective positions, in such a way that the respective tolerance is adhered to for each of the printed products (03) to be separated, wherein the adherence to the tolerance occurs by calculating the respective position of the sheet (01) and cutting device (11) to be adjusted relative to one another in the control unit (21) using a mathematical optimisation method, wherein the sheet (01) is placed on a cutting table (13) in the cutting system (07), and wherein the control unit (21) of the cutting system (07) adjusts the position of said sheet (01) relative to the cutting device (11) according to the calculated position.

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