

Low-distortion welding method and device**ABSTRACT**

The invention relates to a low-distortion welding device comprising:
a mobile support carriage (2) intended to be moved in an advancing path with respect to two metallic components that are to be assembled and bearing:

a welding torch (3) for producing a weld bead between the two metallic components,

a cooling applicator (8) arranged behind the welding torch with respect to the advancing path so as to cool the weld bead by contact with an exterior surface of the weld bead, the cooling applicator being made up of a pad of mineral fibers, and a distribution head (15) designed to distribute a liquid coolant to the cooling applicator (8) so as to soak the pad of mineral fibers with the liquid coolant.

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