

Title (en)
LIGHT CENTRALIZER FOR FIBER LASER CUTTING MACHINES

Title (de)
LICHTZENTRIERVORRICHTUNG FÜR FASERLASERSCHNEIDMASCHINEN

Title (fr)
CENTREUR DE LUMIÈRE POUR MACHINES DE DÉCOUPE LASER À FIBRE

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Application
EP 21846543 A 20210625

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Abstract (en)
[origin: WO2022019865A1] The present invention is a centralizer mechanism (100) for automatically adjusting of laser light, produced for cutting metal and similar materials in fiber laser cutting machines (M), while the laser light is passing through the nozzle (121) of the processing head, wherein light axial adjustment motor box (110) is provided which is connected to the laser cutting head (120) and which has at least two sensitive step motors used for adjusting through the user screen (140) automatically or by the user in the direction of X and Y axes for centering the light; contactless automatically focused automatic laser light centralizer system (130) is provided which has light axial adjustment motor box (110) and laser cutting head (120) assembled one on the other and which corresponds and adjusts the laser cutting head (120) with the camera (133) by pushing the slide (132) connected to the spring (131) for centering the laser light; a user screen (140) is provided for corresponding the laser cutting light, which passes through the nozzle (121) and having reduced voltage, to the camera (134) as the centralizer mechanism (100) compresses the slide (132) connected to the spring (131) when the light centering command comes on the user side through the computer unit and for bringing the fiber cutting light source view (141), which is outside of the position area (142) where the fiber light source must exist in the nozzle diameter (143), to the position area (142) where the fiber light source must exist.

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