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(57) Abstract :

A workpiece joining device comprises of a housing 1 arranged with a motorized lid 2 accessed by a user for positioning a primary and secondary rod within a first and second hollow members 3, 4 constructed within housing 1, multiple iris apertures 5 to secure rods, a display panel 6 for enabling user to input details, an image capturing module 7 for detecting positioning of primary rod, a telescopic L-shaped bar 8 attached with multiple pneumatic pins 9 to position pins 9 on evaluated point, a touch sensor to aid pins 9 to acquire shape of surface, a telescopic link 10 arranged with a motorized cutter 11 to cut rod in accordance with evaluated angle, a motorized pivot joint to position cut secondary rod over evaluated point on primary rod, a telescopic L-shaped pole 12 mapped with welding unit 13 to weld rods in order to join at user-specified angle.

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