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(57) Abstract :

A workpiece shaping device, comprises a V-shaped frame 1 for holding workpiece, a handle 2 for proper gripping, a touch interactive display panel 3 for user to provide information regarding operation which is to be performed like straightening and bending, an artificial intelligence-based imaging unit 4 for determining thickness of workpiece based on thickness of workpiece, a motorized hinge joint 5 for providing movement to the frame 1 to allow entry of workpiece inside the frame 1, plurality of primary motorized rollers 6 pull the workpiece inside the frame 1 so that straightening operation performed, a telescopic rod 7 is attached with secondary motorized roller 8 to extend position of secondary roller 8 at appropriate angle to perform bending operation, a pair of plates hinged with frame 1 for positioning sharp bend in workpiece inside the frame 1 and telescopic rod 7 is operated by pneumatic unit 9.

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