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Abstract:

Mechatronics engineers leverage technology and innovative techniques to solve problems related to time, efficiency, and automation. Computer Numerical Control (CNC) machines play a crucial role in industrial applications, from small-scale workshops to large manufacturing facilities. The Goliath CNC introduces a revolutionary approach to CNC machining. This robotic router offers precision cutting and milling capabilities without the need for a fixed, bulky setup. Unlike traditional machines, Goliath is mobile, moving directly across the workpiece using patented sensor-guided technology. This abstract highlights the key features and potential applications of the Goliath CNC, emphasizing its impact on accessibility, flexibility, and efficiency in modern CNC machining.