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Design of The Ternary Link in Six-bar Mechanical Presses

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Summary

Different stamping tasks require different punch motions and always require different press machine. This paper uses a novel computer-aided design approach to study the role of ternary link (members with three revolute joints) in the Stephenson III six-bar mechanical press and its relationship with the punch motions. Based on the theory of three precision positions function and path generation synthesis for four-bar mechanism, a computer program have been developed to find the acceptable ternary link lengths according to the given ram displacement diagrams. The results show that to change the dimension of the ternary link can get various punch motions and fulfill most industrial requirements of the mechanical presses.