Design and construction of a 10-ton overhead crane system model for lifting and lowering goods.

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Abstract: This topic focuses on designing and building a 10-ton overhead crane system for lifting goods in an industrial environment. The research context is determined based on actual production requirements, aiming to meet the need for efficient and safe cargo transportation. The research method applies a combination of theory and experimentation, including technical analysis, selection of suitable materials, load calculation, and force durability testing. The expected result is the development of an overhead crane system capable of lifting 10 tons of goods stably and safely, contributing to the improvement of transportation technology in the manufacturing industry.

Keywords: Overhead crane, 10 tons, industrial, design, safety