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COMPUTER AIDED ANALYSIS AND DESIGN OF HOISTING MECHANISM ...

In this project an overall design of the hoisting mechanism of an EOT crane has been carried out. The dimensions of the main components have been determined for a load capacity of 50 ton crane having 8 rope falls . Various dimensions for cross sections of various shapes for crane hook have been found. After the system was designed ,the stress and deflection are calculated at critical points ...

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COMPUTER AIDED ANALYSIS AND DESIGN OF HOISTING MECHANISM OF AN EOT CRANE Shyam Lal Sharma^{1*}, Tasmeem Ahmad Khan ¹, Md. Parvez and Kamlesh Kumari²
*Corresponding Author: Shyam Lal Sharma, shyambash2009@yahoo.in In this project an overall design the hoists generally confirm to IS: 3177 of the hoisting mechanism of an EOT crane has been carried out.

COMPONENTS DESIGN OF HOISTING MECHANISM OF 5 TONNE EOT CRANE

A hoist is a device used for lifting or lowering a load by means of a drum or lift-wheel around which rope or chain wraps. It may be manually operated, electrically or pneumatically driven and may use chain, fiber or wire rope as its lifting medium. The most familiar form is an elevator, the car of which is raised and lowered by a hoist mechanism.

(PDF) Design of Automotive Engine Hoisting Device for ...

• Rope hoist • Mechanism group • Number of winding layers (1 to 7) • Number of parallel hoists (1 or 2) 26 If required: iteration of the determination of the mechanism if drum speed deviates strongly from design speed of gearbox ($n_T < 11 \text{ rpm}$ or $n_T > 17 \text{ rpm}$) Determination of the drum speed based on • Rope speed • Drum diameter

Components Design Of Hoisting Mechanism

components design of hoisting mechanism of 5 tonne eot crane January 2016 Conference: International conference on Futuristic trends in Engineering, Science, Humanities and Technology (FTESHT-16)

Computer aided analysis and design of hoisting mechanism ...

A Hoisting mechanism is one of the typical element mechanisms of the parts supply system. This section explains the hoisting mechanism using the Bingo Machine as an example. The hoisting unit of the Bingo Machine restores color balls collected back to the stock rotation table. Structure of the hoisting unit. Components of the hoisting ...

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The design efficiency obtained was 66.7% and the final engine hoisting design concept selected met all ... failure mechanisms in hoisting devices ... properties of solar collector components.

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In this project an overall design the hoists generally confirm to IS: 3177 of the hoisting mechanism of an EOT crane has been carried out. The dimensions of the main components have been determined for a load capacity of 50 ton crane having 8 rope

IS 6938 (2005): Design of rope drum and chain hoists for ...

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Mechanics and Machine Design, Equations and Calculators ...

This article was prepared for the Queen's University Mine Design Wiki Page.. The following article is regarding the design of underground mine hoisting systems Mine hoisting systems are comprised of five major components: hoists, conveyances, wire ropes, shafts, and headframes. Each of these components requires extensive design considerations.

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Mine hoisting systems - QueensMineDesignWiki

Heavy duty tasks such as engine replacement and dropping, involves engine rebuilds or upgrades, repairs, engine bay rehabs, and other complex operations that involves the movement of heavy engine parts in the workshop from one place to another. The

Hoist (device) - Wikipedia

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used in hoist mechanism. Motor power required depends on lifting speed and load applied. III. DESIGN PROCEDURE List of components used in Hoisting Mechanism of EOT Crane Design- 1. Crane Hook 2. Thrust ball bearing 3. Pulley 4. Wire rope 5. Drum 6. Gear box 7. Electric motor 8. Brake 1. DESIGN OF CRANE HOOK In this phase basic dimensions for ...

(PDF) Design of Automotive Engine Hoisting Device for ...

Typical hoisting arrangements for operation of various gates are shown in Fig. 1 and Fig. 2. ' 4 DESIGN OF MECHANICAL PARTS 4.1 General Requirements 4.1.1 The various components of hoist mechanism shall be so proportioned as to take the worst " load coming on individual component. 4.1.2 The stress in various components of hoist

COMPUTER AIDED ANALYSIS AND DESIGN OF HOISTING MECHANISM ...

have to design and analyze the gear with wound rope which is a key part of hoist at different loads. 3.1 Objective: 1) To Find the optimum design of lifting mechanism ,well equipped and efficient control mechanism to lift the gate. 2) To design and analyse the load at which the hoist can work & the load at which it works.

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