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Components Design Of Hoisting Mechanism

Following are components of hoisting mechanism in EOT crane such as crane hook, thrust ball bearing, pulley, wire rope, drum, gear box, electric motor brake etc. In this paper we have designed these components for 5 tonne crane. Same procedure can be used for heavy load cranes.

COMPONENTS DESIGN OF HOISTING MECHANISM OF 5 TONNE EOT CRANE

III. DESIGN PROCEDURE List of components used in Hoisting Mechanism of EOT Crane Design: 1. Crane Hook 2. Thrust ball

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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 crane hook are calculated like bed diameter, throat diameter, depth of crane hook.

Design of Components used in Hoisting Mechanism of an EOT ...

Following are components of hoisting mechanism in EOT crane such as crane hook, thrust ball bearing, pulley, wire rope, drum, gear box, electric motor brake etc.

(PDF) COMPONENTS DESIGN OF HOISTING MECHANISM OF 5 TONNE ...

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

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falls.

COMPUTER AIDED ANALYSIS AND DESIGN OF HOISTING MECHANISM ...

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

COMPUTER AIDED ANALYSIS AND DESIGN OF HOISTING MECHANISM ...

a) Use a lot of aluminum materials to reduce the weight of the hoisting parts. b) Reduce the number of parts by adopting a structural design that uses the weight of the color balls. c) Design the actuator with the single-acting air cylinder and do not adopt a vertical motion guide. If you are going to adopt a guide,...

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Low Cost Automation Tutorial | Technical Tutorial - MISUMI

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.

Mine hoisting systems - QueensMineDesignWiki

Enumerates the main types of material handling equipment. In second part, description of parts of hoisting machinery such as chains, ropes, pulleys, drums, braking gears, drives, hoisting, slewing jib and lifting mechanisms of cranes. Various types of crane are also the subjects for practical designing wok.

A Review on Design and Analysis of Hoisting Machinery in

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The most familiar form is an elevator, the car of which is raised and lowered by a hoist mechanism. Most hoists couple to their loads using a lifting hook .Today, there are a few governing bodies for the North American overhead hoist industry which include the Hoist Manufactures Institute (HMI), ASME, and the Occupational Safety and Health Administration (OSHA).

Hoist (device) - Wikipedia

Mechanics and Machine Design, Equations and Calculators, Design of Load Carrying Shaft With One Pulley & Supported by two Bearings, Flywheel Effect or Polar Moment of Inertia, Lifting Boom, Davits Application and Design Equations, Large and Small Diameter Lifting Pulley / Drums, Two Lifting Lifting Pulley's Mechanical Advantage, Multiple Pulley's Lifting Mechanical Advantage Mechanical ...

Mechanics and Machine Design, Equations and

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Calculators ...

Central Michigan University Overhead & Gantry Cranes, Underhung Cranes and Monorail Systems, and Sling and Hoist Safety Guidelines Purpose Many types of cranes, hoists, and rigging devices are used at Central Michigan University (CMU) for lifting and moving materials.

Cranes, Hoists, Rigging

Overhead crane components Electric Hoist. It is the lifting device of the crane, it moves along with the bridge on which it is located. The hoist, in turn, is housed on another rail that allows it to move to position itself between the two main rails. Chain hoists and trolleys. Chain hoists are chain motors used to lift loads.

OVERHEAD CRANE PARTS bridge crane parts and components

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A level-luffing crane is a crane mechanism where the hook remains at the same level whilst luffing; moving the jib up and down, so as to move the hook inwards and outwards relative to the base. [1] Usually the description is only applied to those with a luffing jib that have some additional mechanism applied to keep the hook level when luffing.

Level luffing crane - Wikipedia

A. Mechanical Design of the proposed crane. To achieve the mechanical design of the tower crane, initially technical specifications are required, both the mechanical and the electrical and electronic components, such as motors, sensors, circuit cards, etc. these general specifications are in Table I.

Design, construction, and control of a novel tower crane.

Components Design Of Hoisting Mechanism COMPONENTS

DESIGN OF HOISTING MECHANISM OF 5 ... Following are

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components of hoisting mechanism in EOT crane such as crane hook, thrust ball bearing, pulley, wire rope, drum, gear box, electric

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Rules for the design of cranes Part 2. Specification for classification, stress calculations and design of mechanisms 1. Scope This Part of BS 2573 provides the basis for calculating stresses in components of crane mechanisms and specifies the way in which permissible stresses shall be determined.

Rules for the design of cranes - gost-snip.su

- 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 $n_T >$

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17 rpm) Determination of the drum speed based on • Rope speed • Drum diameter

Design Manual for Winch Systems - Liebherr Group

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Components Design Of Hoisting Mechanism Of 5 Tonne Eot Crane

The article describes the basic principles of operation of the Overhead cranes and the design selection criteria for the various components of the overhead crane. The major components of the Overhead crane are: a traveling base with a traveling rail on either side. Imagine the railway tracks; it is quite similar to the

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same except for the distance. The End carriage on both sides which houses ...

Design Guide for Overhead Cranes - Brighthub Engineering

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.

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