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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.[eBooks] Components Design Of Hoisting 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. 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 iHoist (device) - Wikipedia • 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 (  $n T < 11$  rpm or  $n T > 17$  rpm) Determination of the drum speed based on

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#### **1:- Design of Rope**

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- Rope hoist
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COMPONENTS DESIGN OF HOISTING MECHANISM OF 5 TONNE EOT CRANE

Pooran Singh Dhakar<sup>1</sup>, S.G.Mishra<sup>2</sup>, K.C.Arora<sup>3</sup>

components design of hoisting mechanism

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