DESIGN OF MACHINE ELEMENT (SHAFT, BEARING, KEY) IN SALT CARRIER MACHINE

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Abstract

Process of displacement of salt from crystal table to place of relocation of whereas in this time relatively tardy, because done by the way of shouldered, every shouldering 40 kg. So that less efisien. For overcome this problem of writer feel important to plan a[n salt carrier device to process this displacement of salt crystal become more efficient. Freight device which planned can transport 250 kg.

The first step in designing this machine is doing an observer in salt industry, and then designing the machine as it needed., the next step is calculating the component of machine element of it, wich is done on the shaft, bearing and keys of the machine. The last step is evaluating the calculating result that have been done.

From result we can conclude that the design and calculation processesof salt carrier machine designed have fullfil the paramaters and the criteria the shaft materials used in this machinme is Carbon Steel AISI 9255 with d=40mm for the front wheel and d=35 mm for shaft on pulley..

Keyword : salt carrier machine, shaft, key, bearing