

## HOT AND GRIPLESS BLOCK LIFTER

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### Abstract

India is well developing country and highly secured in other things.As India is a fast growing country the people are becoming too busy and they are not showing intrest on the low class people problems so we planned to check out the problems in our area Hereby we brought a problem together from a low scale industry people and we planned to make a tool and the tool is GRIPLESS and HEAT METAL weight lifter We observed this problem faced while making a metal heated they can't lift it with any tool by this tool they can lift a heated metal block upto 8kg As we all know that there are many elder people in welding shops they can't lift the heat metal blocks and there is a risk in that job so this tool can be secured and easy to use.

### 1. INTRODUCTION

Metals are used for many purposes. They are converted as per required shapes and they are such things which are strong .They are used to prepare the hydraulic which are used to lift the heavy weight materials.They are also used to carry the hot materials or blocks.So in this project we are used metal rods and angulars which is support to the metal blocks easily to lift.And with out power source this tool will be operated by a human being and it is made by low cost every one can affadable.Now a days in small scale industries using hydraulic lifters which is used by liquid air pressure .But this tool is

helpful for lifting hot and gripless blocks with the help of wheel(Bearing).

### 2. RELATED WORK

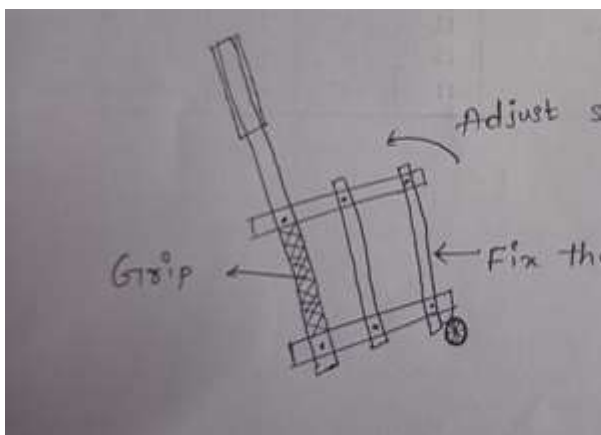
A hydraulic lift is a device for moving objects one place to another place using upward force created by pressure on a liquid inside a cylinder that moves a piston upward. Incompressible oil is pumped into the cylinder, which forces the piston upward. . Hydraulic weight lift are cheaper than other elevator types. This occupy less space, A Handle pulley cart is pulled or pushed by one or two persons. To pull loads on the device which is easy to pull or push by one person.

### 3. IMPLEMENTATION

We decided to design a tool. It is helpful for lifting hot and grippless blocks and it consists of metal rods and screws. This tool is low cost in between 1000-1500rs. No power source is required. Any kind of blocks can be lifted. It will carry up to 10 kgs to 50 kgs grippless metal blocks. Or any kind of blocks and heat metal blocks it will be made by several rods, and nuts. The tool must be easily used by everyone. The cost should be economical. If any problem arises by this tool, it should be easily repaired, easily portable. Our idea is to solve the problems of low scale industries. The labours are afford in low cost and it is easily operate by one person

#### 4. EXPERIMENTAL RESULTS

This design is made by very simple mechanism. This type of design is shown below in the fig. And making this tool is used to lift hot and grippless blocks.



In this paper contains the construction of hot and grippless block lifter. First we have to take 2 metal angulars then we have to drill at the end of the metal angulars with

the help of drill machine. Then we have to take two metal scales then we have to drill three holes in it. Then after that we have to tighten metal angles in metal scales with the help of screw and nuts. Then after that we weld wheel at one of the end of the rod and angular so that the object which is carried by it can be move easily.



#### 5. CONCLUSION

We conclude that hot and grippless block lifter is helpful for lift the blocks and this tool doesn't require any power source and it is less cost and any unskilled labour also easy to use this tool. By this tool mostly help in low scale industries. This portable tool is useful for metal blocks lifter.

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