

Hydraulic Manipulator

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You are the manager of an engineering firm that has been hired by a local manufacturer of spinner rims. The manufacturer has reported the following problem: *The rim manufacturer pays a substantial amount of money to*

workers' compensation due to muscle strain. The strain injuries occur when workers lift rims from the CNC mill to the conveyor belt. The rims weigh 47 lb and the conveyor is 40 inches above the mill where the rims are completed.

In this project you will form a company (3 individuals) to design, build, test, and present a system that will eliminate the problem. Your company **must use hydraulic power for at least one movement.**

Utilizing the information you just learned about hydraulic power and your background knowledge on designing and coding you are going to create a Hydraulic Manipulator to pick up objects, move them to a new location and drop them off.