

# ABSTRACT

## FABRICATION OF POWER SAVING REGENERATIVE HYDRAULIC CIRCUIT

The main object of this project is to increase the efficiency of a hydraulic circuit by introducing a concept of regenerative circuit. A Regenerative circuit is a system that is used to speed up the extension stroke of the double acting single rod hydraulic cylinder.

The output is connected to the input in the directional control valve. By this concept, Increase in velocity of the piston and decrease the cycle time. The basic hydraulic circuit and a regenerative circuit are designated and compared both with their results. The analysis was based on their time taken for extension and retraction of the piston.

From the detailed analysis of both the hydraulic circuits, it is found that the efficiency by introducing hydraulic regenerative circuit increased by is 5.3%. The obtained results conclude that, implementing hydraulic regenerative circuit in a hydraulic power pack decreases power Consumption, reduces cycle time and increases productivity in a longer run.

**NOTE-2021 Latest Best Mechanical Final year Project Ideas, Guidelines and Technical information can be provided.**

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