

FABRICATION OF HYDRAULIC PULLER



PROJECT REPORT

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ABSTRACT

The present work deals with fabrication of bearing puller with the help of hydraulic operations. A “hydraulic operated bearing puller” is a device which provides easy removal of bearing from shaft with less human efforts by using the puller arrangement and supporting device. The hydraulic bearing puller based on hydraulic system which is working on the principle of Pascal’s law which states that “Pressure distribution in enclosed cylinder is uniform in all direction. In present day’s the hydraulic system plays very significant role in automobile, aircraft industries as well as in small service centers and also used where precision is required. Traditional method of bearing removal is hammering but unnecessary hammering causes several problems. The unsafe and excessive hammering cause’s damage to bearing surface or sometimes chance to failure and excessive human effort is required. In order to remove installed bearing safely, some modifications has made in traditional method. The purpose of modifications is to reduce human efforts, simplicity in operation and removing of bearing without damaging the bearing surface.