

FABRICATION OF ROPE SAW

A project report in partial fulfilment of the requirements for the award of the
Degree of

BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING

SUBMITTED BY

K. LAXMAN SUNIL	(16815A0315)
B.VARAHALU DORA	(16815A0304)
K.UDAY KUMAR	(16815A0320)
T. AKHIL	(15811A03C8)

Under the guidance of

Mr. A. PREM KUMAR M.Tech

(Assistant professor)



DEPARTMENT OF MECHANICAL ENGINEERING

AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF MECHANICAL ENGINEERING

(Permanently affiliated to Jawaharlal Nehru Technology University, Kakinada, AP)

(N.B.A Accredited & NAAC with B+ grade, approved by AICTE New Delhi)

Tamaram, Makavarapalem, Narsipatnam Revenue division,
Visakhapatnam-531113

(2015-2019)

AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY

(APPROVED BY AICTE AFFILIATED TO JNTU-KAKINADA)

(AN NACC & N.B.A ACCREDITED INSTITUTION)

TAMARAM, MAKAVARAPALLEM, VISAKHAPATNAM-531113

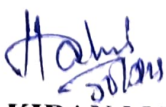
DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the project report is entitled “**FABRICATION OF ROPE SAW** ” was carried out by **K. LAXMAN SUNIL (16815A0315), B.VARAHALU DORA (16815A0304) , K.UDAY KUMAR (15811A0320),T.AKHIL(16815A03C8)** in partial fulfilment of the requirements for the award of the Degree of Bachelor of Technology in **MECHANICAL ENGINEERING** by JNTUK University at **AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY**, during the academic year 2015-2019.


Sri. A. PREM KUMAR (M.Tech)
(PROJECT GUIDE)


Sri. V.HARI KIRAN M.Tech,(PhD)
(HEAD OF THE DEPARTMENT)


EXTERNAL EXAMINER

ABSTRACT

A rope saw is a small electric or pedal operated saw used to cut intricate curves in wood, plastic, or other materials like fibers. The fineness of its blade allows it to cut more delicately than a power jigsaw, and more easily than a hand coping saw or fretsaw. Like those tools, it is capable of creating curves with edges, by providing its table. There are several types of rope saws. The most common design is the parallel arm, in which a motor is attached near the back of the arms and the two arms always remain parallel to each other. The C-arm variant uses a solid "C" shaped arm with the blade being mounted between the two ends of "C". The parallel link type, used by hawk, Excalibur and dewalt, has rods in the upper and lower arms that are "pushed" by the motor to move short articulated arms which hold the blade. The working of rope saw is consists of a single piece of cast iron frame. The blade is attached to a pitman arm on the bottom, which plus the blade down. A spring is in the upper arm pulls the blade back up again. This design has a significant weakness in that the tension on the blade changes with every stroke.

In this multipurpose saw, you will have the freedom you have been looking for in a saw and be amazed at the capabilities that a rope saw can offer.

KEYWORDS:

Rope wire, table, C-type frames, base, surface accuracy.