

DESIGN, DEVELOPMENT AND FABRICATION OF ADVANCE WIRE ROPE MAKING MACHINE

**S. N. WAGHMARE, M. S. BASESHANKAR, C. N. SAKHALE,
M. S. GIRIPUNJE, S. K. UNDIRWADE AND V. M. SONDE**

Abstract

A wire rope making machine is used for production of different types of wires such as accelerator wires, power transmission wires, etc. depending on applications and sizes of machines. In conventional machine, number of gears and space required is more. Also it is robust in construction. In our modified machine, we use the synchronous AC motor to transmit power to frame, which is attached to the other end of synchronous motor. An epicyclic gear system is attached to the frame which provides rotation to the bevel gear system due to which spindle get rotated and winds the wire over it. Due to the rotation of frame wire get twisted. Because of simultaneous operation of twisting and winding of wires, the wire rope get produced.

Keywords: Aerial cableways, wire rope, spur gears, load distribution, Epicyclic gear train