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75 PROJECT

MULTI- PURPOSE MACHINE IN PRODUCTION UNITS



This project explores the concept of **Multi-Purpose Operating Machine** in production-based industries. Today, every task can be completed much faster due to technological advancement. But this advancement also demands huge investments. Production industries aim to achieve high productivity rate at low average costs, while maintaining the quality and standard of the product.

This project has developed a conceptual model of a machine capable of performing different operations simultaneously, economically and efficiently. In this machine, the drive is attached to the main shaft, which in turn is directly connected to the scotch yoke mechanism (used for sawing operation). On the main shaft, a bevel gear system transmits power at two locations and drives the drilling and grinding centres. The model facilitates operational performance at different working centres simultaneously with a single power source.

Objectives of this model are conservation of electricity, reduction in cost associated with power usage, increase in productivity, reduced floorspace.