ABSTRACT

The scope of the project is to automate the paint spraying process using IR sensor .An automatic spray-painting equipment using Infrared sensor is used to detect the objects moving in the conveyor belt and to spray paint .The painting process is done pneumatically through spray guns which is controlled by timer unit .The timer unit is designed for transmitting signals to dc motor and solenoid valve. DC motor is used for conveyor belt rotation and solenoid valve is meant for spray painting application by spray guns. An automatic spray-painting equipment with sensor has advantages, like increasing production speed, improving quality of painting there by reducing uneven painting on objects and reduction in labor wages. It is commonly used in industries such as automotive, aerospace, and consumer goods manufacturing. This technology has significantly improved the painting process by providing a more efficient, and reliable method of applying paint to objects.