



SELF GUIDED RETRIEVAL SYSTEM

With the help of Mitsubishi FA products, PGV and LiDAR sensor the vehicle will do the storage and retrieval of the product from the managed warehouse of the factory. When the stack of product arrives after packaging , AGV will pick up the product stack and drop the stack at specified storage rack. The position of the product is stored in the memory. The AGV will receive the command to take the product from the stock available at automated warehouse. After receiving the instruction , AGV will plan its path to the product where it is stored. Using the LiDAR or PGV sensor the system is guided to the storage. It is capable of detect the presence of other AGV present nearby and if there is any other obstacles is the path of AGV, it has the capability to avoid such obstacle itself and reach to storage house. Now with the help of RFID tags AGV will identify that which product is to be retrieved. Once the product is identified the lift mechanism will come in action. Using the channel arrangement, it will lift and send the product stack to the required section of the warehouse.