

2 Wheel Drive Forklift for Industry Warehouses

Factories, industries and storage go downs need forklifts and cranes for storage and moving large goods. Also there are a number of goods weighing around 40 – 60 kgs that are comparatively lighter but cannot be moved around easily by human labor. To fill this need we here propose a 2 wheel drive forklift to lift and transport such medium weight goods across factories & industrial warehouses. The 2 wheel drive is a fast, efficient and low power consumption vehicle that does not require much space to move around. The mini forklift will run on 2 dc motors and can drive small weight with pickup arrangement across small distances easily. For this we use a mini 2 wheel vehicle body frame designed with a platform with 2 motorized wheel mounts. It has a perpendicular handle ahead to hold on as well as take turns. Also we design a forklift type mechanism on the front handle of vehicle using 2 bent metal strips and lifting mechanism. The lift mechanism comprises of large rotating chain mechanism. This mechanism is connected to a high power motor. We now mount the control circuitry on the vehicle with wireless controllers that allow the vehicle to be controlled by person on it as well as by operating it remotely from 5-6 meters range. Thus we provide a remote controlled forklift for small goods transportation in industrial sector. The demonstration version can lift 10 – 20 kgs to demonstrate the concept.

Components

- Wheel Hub
- Wheel Axcel & Supporting Frame
- Handle Rods
- Vehicle Motor
- Chain & Sprockets

- Lifter Motor
- Lifter bearings
- Supporting Rods & Bearings
- Pulley & Belt
- Tires
- Shaft & Bearings
- Wires
- Mounts, Fixtures & Screws
- Supporting Frame

Advantages

- Easily Attachable & Detachable
- Industrial Goods Transport
- Warehouse Internal Transport