

0.1 Technical requirements

In order to select certain parts for the project some technical requirements have to be estimated. These include, but are not limited to the mass of the payload, the mass of the vehicle and the desired operating speed of the forklift.

0.1.1 Payload

The group agreed that the payload, for modeling purposes, will be cans of soda.

1. Forklift can lift a pallet of 4 european standard sized cans. Individual can dimensions: Width: 66.1 mm; Height: 115.2 mm; Volume: 0.33 L.
2. Forklift can lift 3.5 kg of mass. This includes 8 cans and a pallet.
3. Dimensions of the pallet should be 150 mm by 150 mm.
4. Payload can be lifted at least 150 mm high.