

container tipping installation

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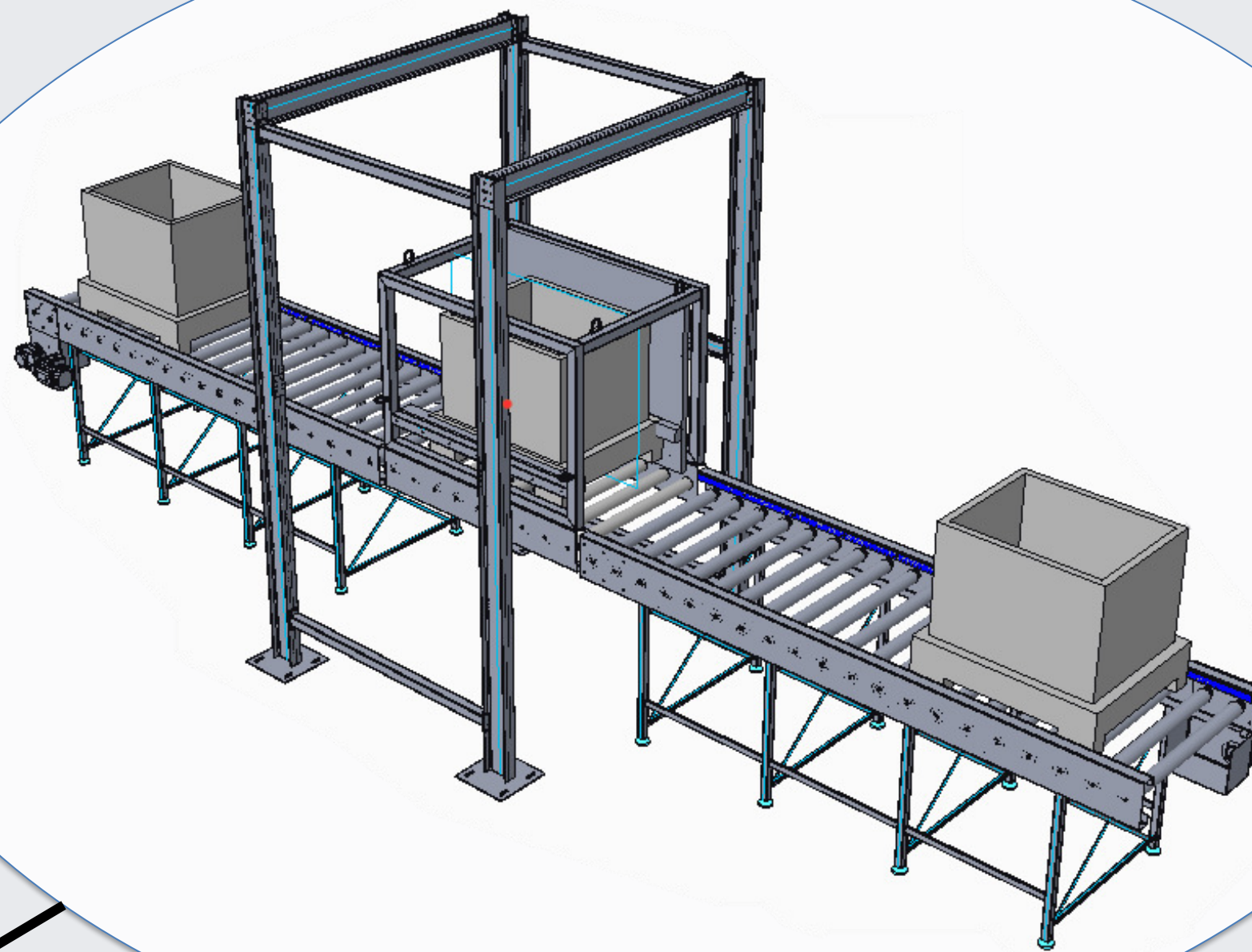
Specialization Preparation programme for Master of Electromechanical Engineering Technology

Problem/ situation

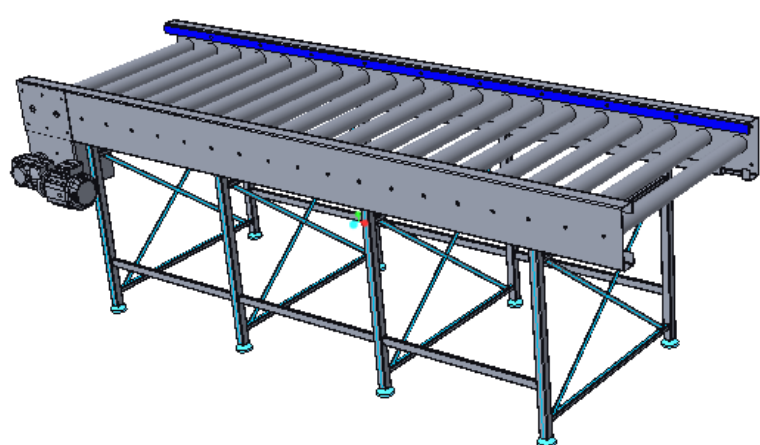
The company Bebat wants a new tipping installation for tilting containers. After this tipping installation, the batteries will be sorted.

Requirement

- ergonomics
- no electrical contact between batteries and installation
- maintenance-friendly
- buffer installation

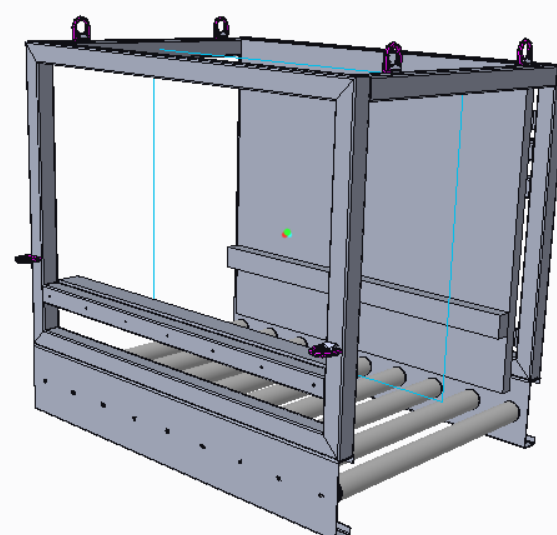


Roller conveyor



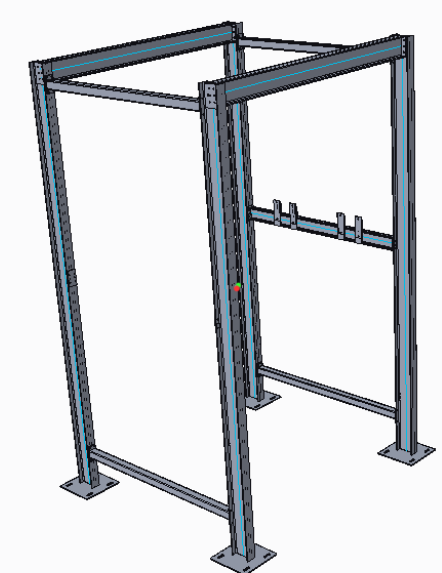
The roller conveyor serves as a buffer and for the supply and removal of the containers. This roller conveyor consists of a frame, folded C-profile, standard profiles cut to size and rollers. The rollers are connected to each other by a chain and are driven by a motor with a reduction gearbox.

Tipping container



This tipping container tilts by means of a pulley system. The container is secured by two plastic stops, so that no electrical contact can occur between the batteries and the installation.

The frame



The frame consists of several welded assemblies. These are welded together and then machined so that the parts in the structure retain their accuracy. These sub-assemblies are finally bolted together to create the frame.

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