

Modular buffer unit

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Specialization Bridging programme for Master of Electromechanical Engineering Technology

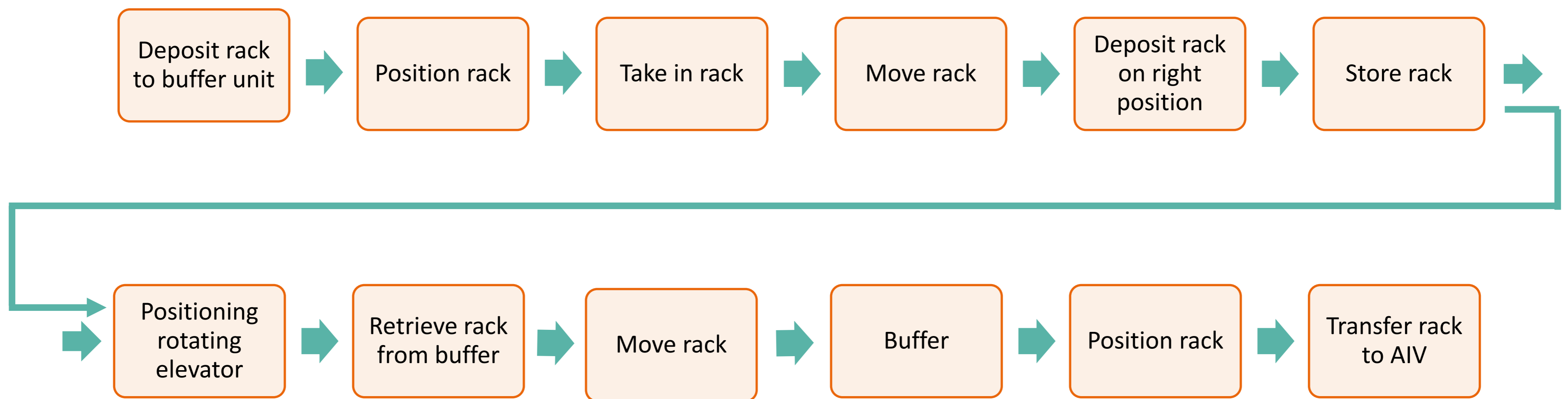
Company

IPTE is a company globally located with headquarters in Genk. They build machines for the production of printed circuit boards (PCB).

Situation

For the storage of the PCB, IPTE designs buffer units that operate by the first-in-first-out (FIFO) principle and the last-in-first-out (LIFO) principle.

Procedure



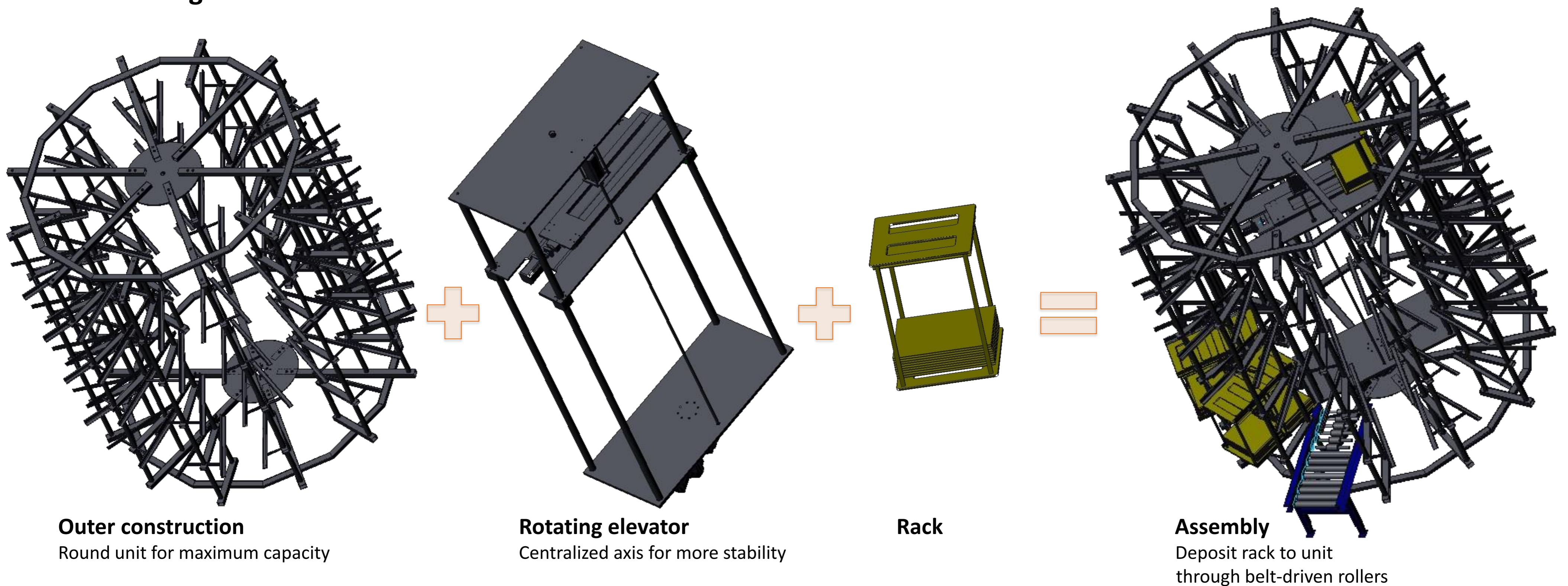
Problem definition

Desining a buffer unit for the storage of racks containing PCB's without making use of the FIFO- and LIFO-principle.

Objectives

- Modularity of the capacity
- Modularity of types of racks
- Transfer height AIV is 550 mm

Mechanical design



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