

Remanufacturing of Refrigerators



Arçelik

Location: Karaağaç Caddesi 2-6
Sütlüce 34445 İstanbul,
Turkey

Web: www.arcelikglobal.com

Product

Refrigerator

Challenges

- Manual disassembly with repetitive tasks.
- Heavy-duty operations with ergonomic risks.
- Difficult estimation of returned products' lifetime.



Remanufacturing Business Model

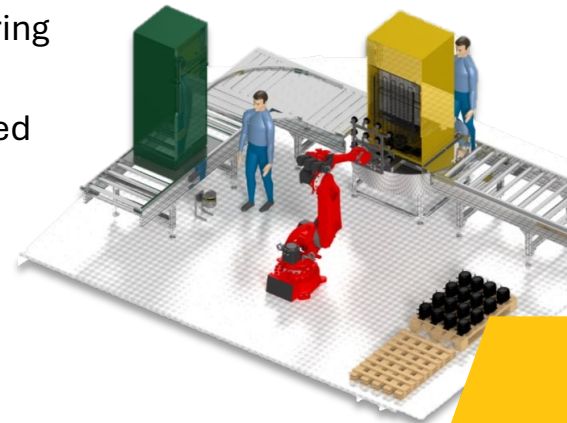
RENEE will shift ARCELIK's approach from reselling second-hand products to a sustainable remanufacturing model. Returned refrigerators will be remanufactured to extend lifecycles and ensure high quality. Valuable components will be recovered for resource efficiency. This model will provide consumers with reliable, cost-effective alternatives to new products.

RENEE Technology Advancements

- Implementation of collaborative workstation consisting of high payload robots and customized mechatronic devices.
- Smart AI and probabilistic models for data analysis to estimate the remaining lifetime of critical components.

Impact

- Improved working conditions for operators by improving ergonomic indicators.
- Increase the automation in the remanufacturing processes, reducing manual processes.
- Increased number of annually remanufactured refrigerators.



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