

Rollerjet

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Rollerjet

Paper roll printer for the digitalised world

Functional Mockup

June 2021

Diploma Project at ECAL

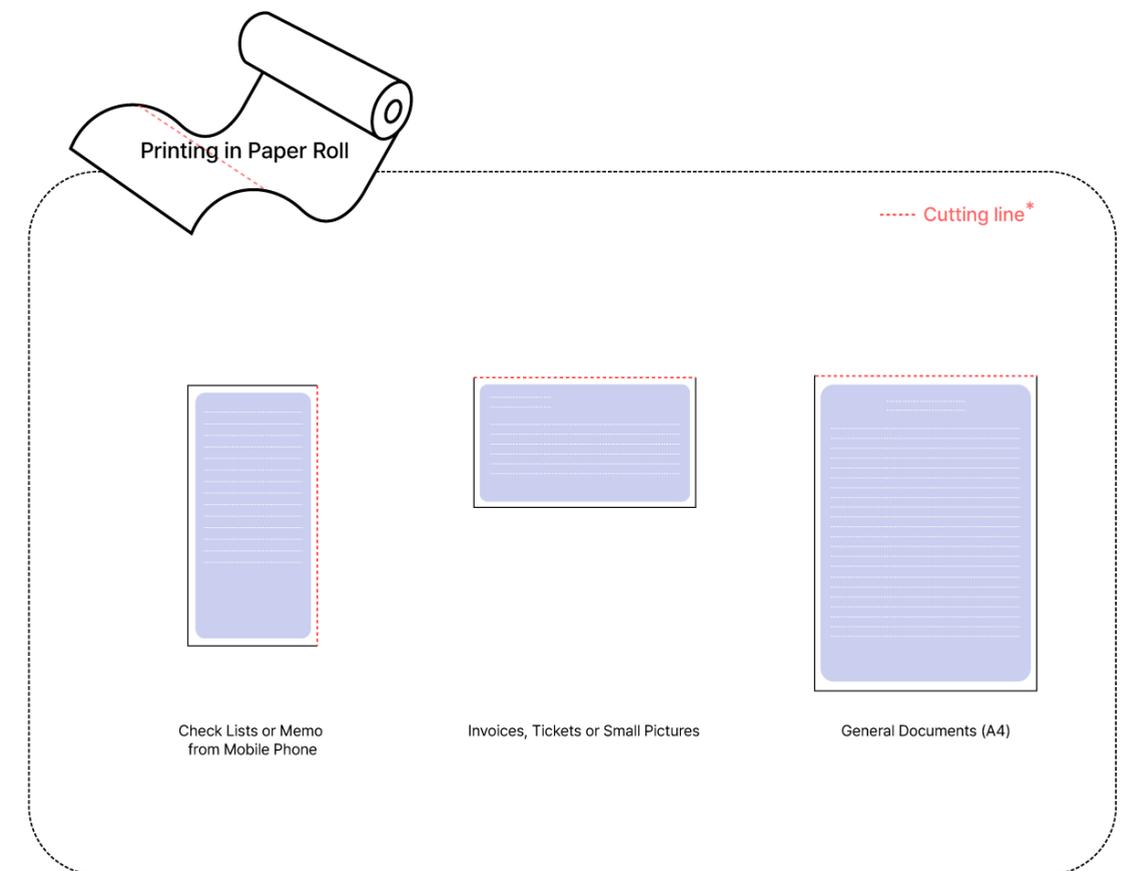
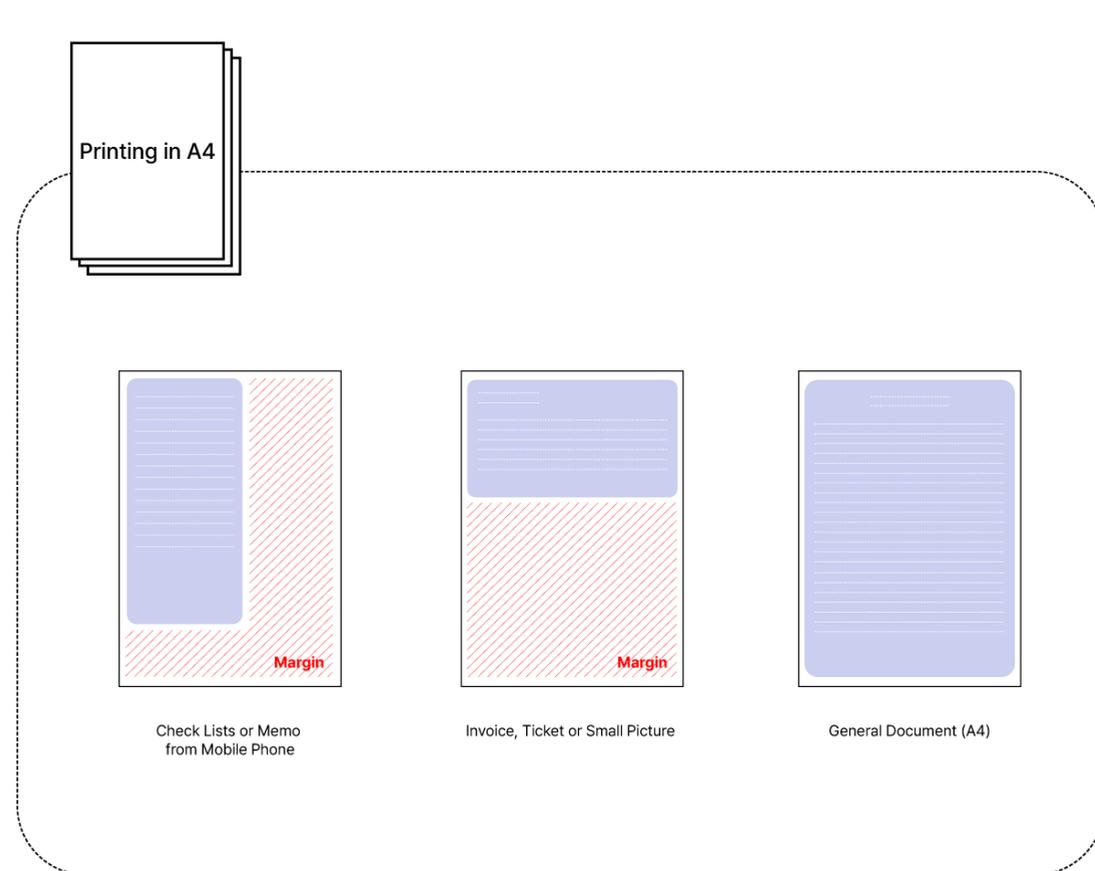
Photographed by Noe Cotter

In many places, printed paper has been replaced by screens, changing the role of home printers. Yet, at the same time, we enjoy tangible interactions - such as taking notes on printouts and simply carrying them around for reference. Rollerjet proposes new use-cases for home printers in this digitalised world. Using a roll of paper instead of sheets, it can print out any length you want - from small sizes for tickets, check-lists, daily schedules, grid lines or gift wraps to A4 size or larger for documents. After printing, the paper can be easily torn off with a single hand.



Concept

Printing out small-sized documents for daily use, such as checklists and memos, invoices, and tickets with traditional printers often results in large margins, which is inconvenient and a waste of resources. Rollerjet is designed to address this problem with a roll of paper, allowing users to cut it at any length they want.







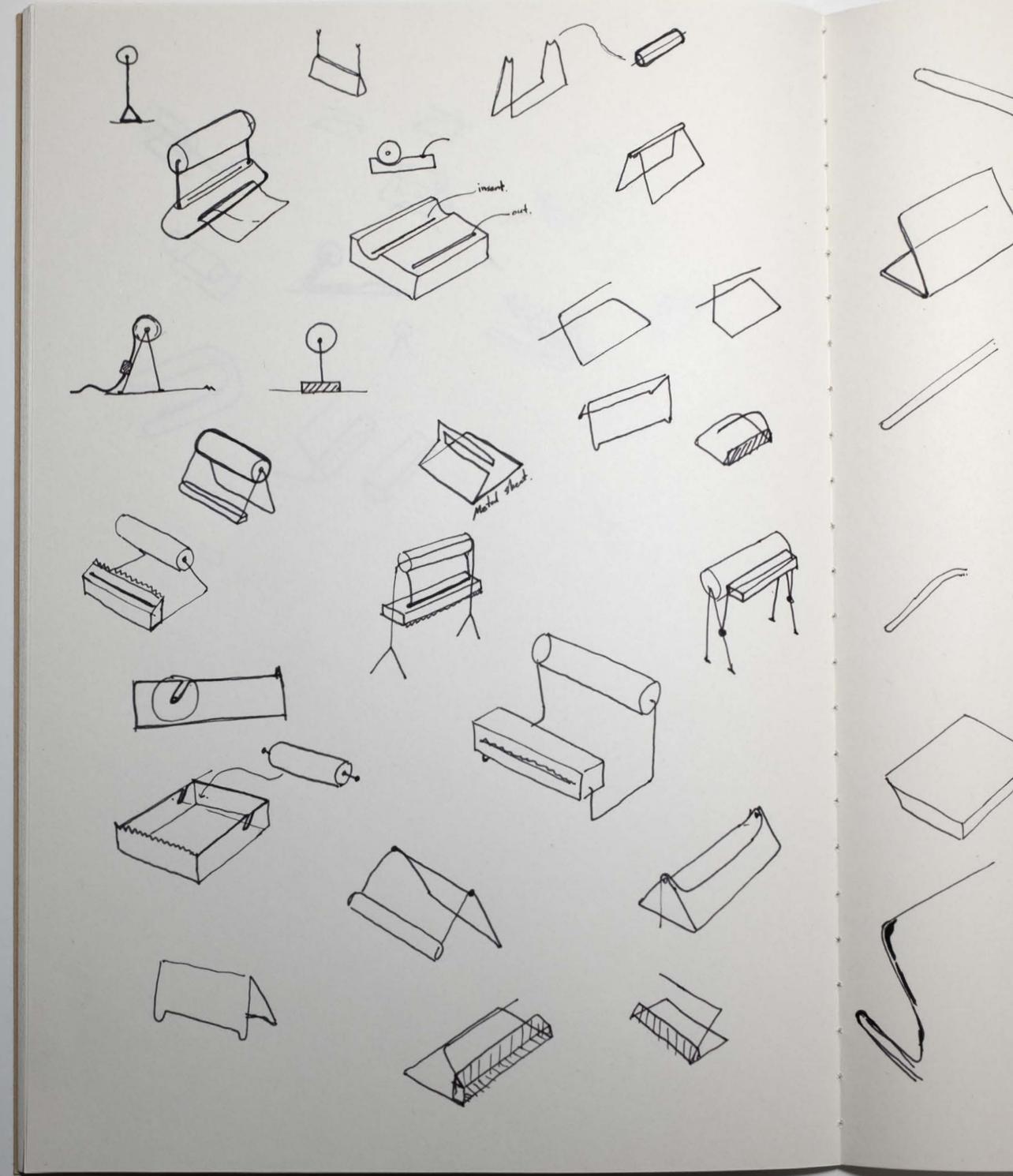
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Design Language: Tool-looking electronic device

The iconic single bent-metal rod breaks the stereotype of electronic device design: made out of plastic cases considering fast-paced industries.

Unlike the typical plastic gadgets with on-trend technology that would disappear soon, it consists of big metal rods in order to manifest that the printer is NOT a gadget but a handy tool for daily use and a robust tool that can be used for a long time.



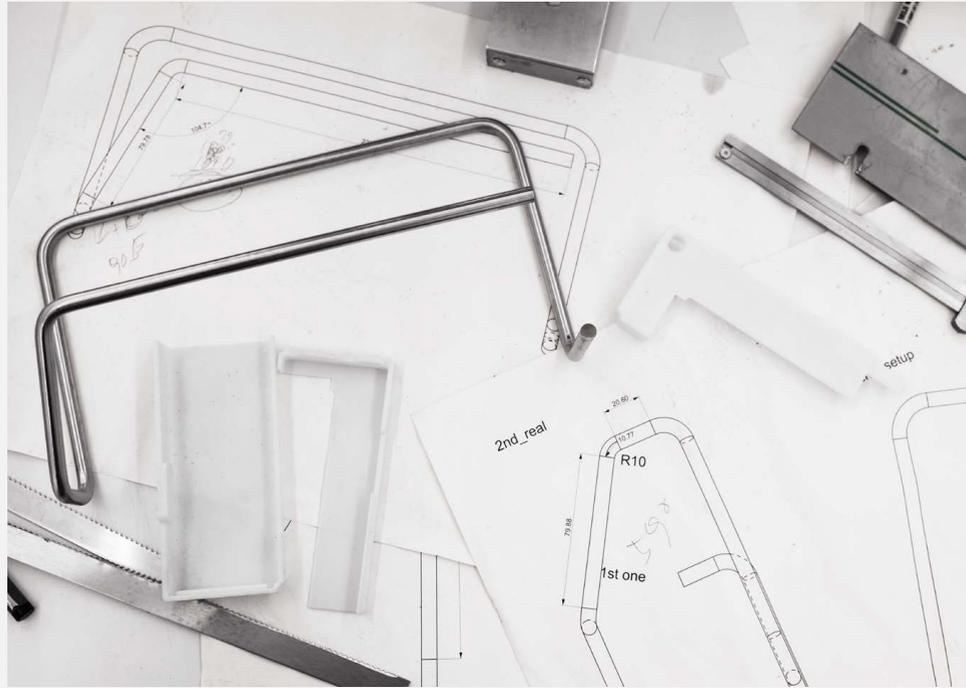


Details

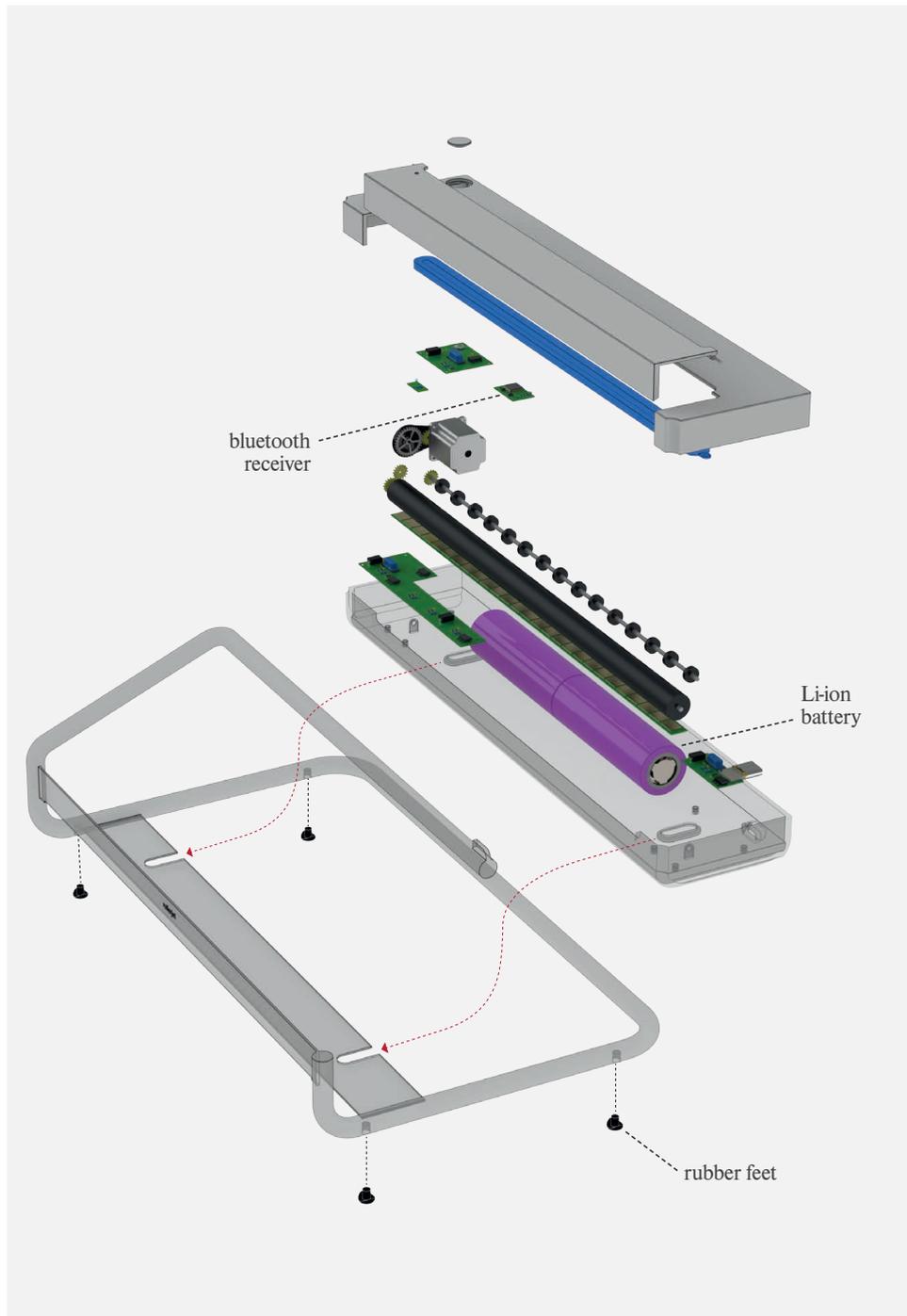
Thoughtful details can be found in the product such as a lump for a paper roll and a cutter for the paper. These enhance its functionality and practicality. And by removing or minimalizing all the elements, it keeps its simplicity of use.







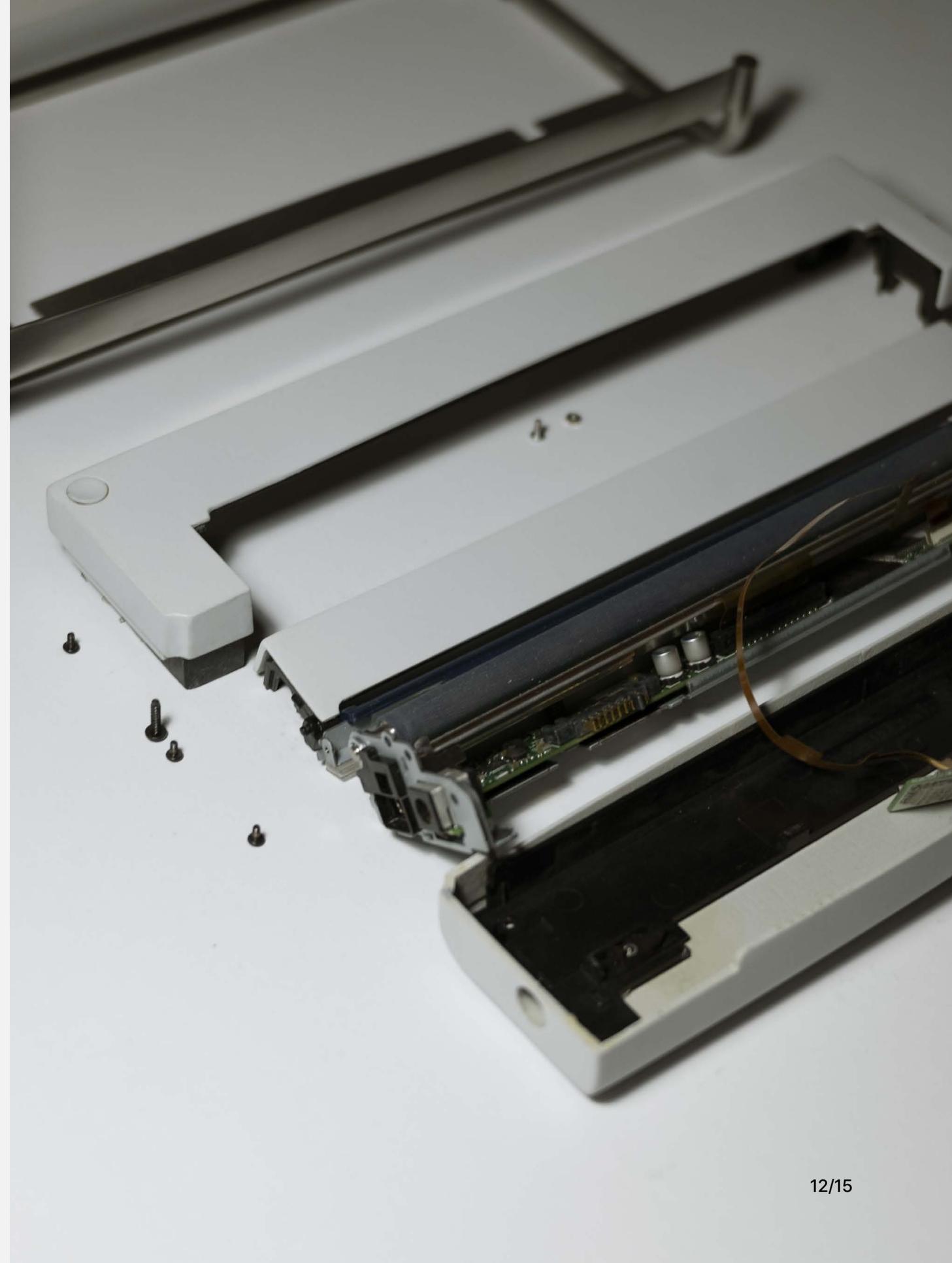




Technology & Engineering

For printing, it uses Direct-Thermal which does NOT require any consumables. And this technology helps to make the printer compact so that it could be placed anywhere in your home.

It has Bluetooth and battery which enables you to use it wirelessly and the product is fully functional.



Sustainability

Since it does NOT require any consumables such as an ink cartridge or a toner cartridge, it can reduce the waste of plastic. And at the same time, it could reduce the waste of printing material as it ONLY prints out everything in proper sizes.



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Thank you

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