World's First Dry Process Office Papermaking System Comes to Europe

PaperLab revolutionises office recycling by turning waste paper into printable office paper using a dry process

Epson, the global technology leader and innovator, will showcase PaperLab - the world's first fast dry process compact office papermaking system in Europe for the first time this year. PaperLab is capable of producing new paper from securely destroyed waste paper using a dry process and can produce thousands of sheets of recycled paper a day.

PaperLab is ideal for organisations that need to securely destroy confidential information as well as recycle paper in an environmentally friendly, eco-efficient and sustainable way. PaperLab will be shown for the first time in Europe at CeBIT (Hannover, 20-24 March) as part of a major exhibition of Epson's innovative efficient, compact and precision workplace technologies.

Epson's global president, Mr Minoru Usui, will attend CeBIT where he is due to present PaperLab along with Epson's latest range of technologies designed for the workplace. Mr Usui will also be giving a keynote speech on the future of technology in the workplace and will explain how Epson's technology and future vision will enhance the workplace and improve the quality of people's lives.

Mr Usui commented, "I'm enormously proud to be able to present PaperLab, the world's first office papermaking system using a dry process. PaperLab is capable of producing new paper from securely destroyed waste paper and can produce thousands of sheets of recycled paper a day.

"Launched in Japan late last year, we plan to start selling PaperLab in Europe by the Autumn of 2018. Our aim is to create a new office printing ecosystem where customers can enjoy high-speed inkjet printers using paper recycled by PaperLab. PaperLab is ideal for organisations that need to securely destroy confidential information while recycling.

information and recycle paper using a sustainable process.

“My vision is for a world in which you can print and then recycle all the paper you want. One day I hope we can develop PaperLabs of all sizes and see them used in factories, in offices and even in your home.”

Organisations will be able to use PaperLab to produce paper of various sizes, thickness and types, from office paper to business card and coloured paper.

As part of its commitment to sustainability, Epson has outlined its Environmental Vision 2050, targeting a 90% reduction in CO2 emissions across the life cycle of all its products and services by 2050.

**PaperLab Features**

1. **Dry Fibre technology**

**Defibration**

A defibration unit developed by Epson mechanically breaks down used paper into long, thin fibres without using water. All traces of information are completely and securely destroyed instantaneously.

**Binding**

The fibres from the used paper are binded together using a binding material. This material is available in a number of different colors to allow PaperLab users to produce paper in an array of colours or to increase paper whiteness.

**Forming**

Pressure is applied to the binded fibres to form new sheets of paper. PaperLab users can produce A4- and A3-sized sheets in various thicknesses by setting controls for paper density, thickness, and shape.

2. **Enhanced security**

PaperLab enhances information security by completely destroying confidential documents. Instead of being transported off-site by a contractor, waste paper is reduced to fine fibres on site. Unlike paper that has been run through a shredder, the fibres carry no discernible information whatsoever. PaperLab is therefore an ideal solution for local government offices and other institutions that handle large volumes of confidential documents. It protects personal data while giving institutions, residents, and customers peace of mind.

3. **Fast production of various types of paper**

PaperLab produces the first new sheet of paper in about three minutes of having loaded it with waste paper and pressing the Start button. It can produce about 720 sheets of A4 paper per hour. By upcycling used paper into paper that has higher value, such as copier paper, cardstock for business cards, or colored paper for handbills, companies and local governments can produce whatever kind of new paper products they want, whenever they need them.

4. **Lower environmental impacts**

PaperLab creates paper in a waterless papemaking process. Ordinarily it takes about a cup of water to make a single A4 sheet of paper. Given that water is a precious global resource, Epson felt a dry process was needed.
Note: A small amount of water is used to maintain a certain level of humidity inside the system.

**PaperLab Engineer Biography - Fujita**

Born on January 21, 1989, Mr. Fujita was brought up in Osaka, Japan. After studying marine engineering at the Faculty of Engineering at Toyohashi University, he worked as a senior engineer in the same field before joining Epson in 2010. His first position at Epson involved monitoring ocean waves before he moved to Nagaoka in 2012 to begin working on the PaperLab development project.

Mr. Fujita enjoys 3D printing and renovating the cottage house he bought. He also enjoys gardening and trying to grow different types of plants every year.

(As of March 2017)
About Epson

Epson is a global technology leader dedicated to connecting people, things and information with its original efficient, compact and precision technologies. With a line-up that ranges from inkjet printers and digital printing systems to 3LCD projectors, smart glasses, sensing systems and industrial robots, the company is focused on driving innovations and exceeding customer expectations in inkjet, visual communications, wearables and robotics.

www.epson.eu

Led by the Japan-based Seiko Epson Corporation, the Epson Group comprises more than 67,000 employees in 90 companies around the world, and is proud of its contributions to the communities in which it operates and its ongoing efforts to reduce environmental impacts.

https://global.epson.com/

Environmental Vision 2050

http://eco.epson.com/

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*1 PaperLab is the first in-office papermaking system to use a dry process, according to Seiko Epson’s global research as of November 2016.
*2 The system can use ordinary A3- and A4-sized copy paper as raw material.
*3 A small amount of water is used to maintain a certain level of humidity inside the system.

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