

PaperLab A-8000 In-office dry papermaking system

The sustainable way to securely destroy and upcycle paper



EPSON[®]
EXCEED YOUR VISION

Benefit from a revolutionary technology

PaperLab is the world's first¹ in-office paper secure recycler that turns waste paper² into new paper using a virtually dry process³ powered by Epson's unique Dry Fiber Technology. This revolutionary on-demand solution enables your business to securely destroy sensitive information, recycle, reduce its societal and environmental impact and take control of paper supplies.

Completely destroy sensitive information

Highest security certification (Level P7)

Turn waste paper² into new paper – on demand

Produce up to 720 sheets per hour

Produce different stocks up to 240g/m²

Produce different colours

Assist with Sustainable Developmental Goals

Contribute to the circular economy

Responsible water usage

Reduce your CO₂ footprint

Remove the supply chain

Powered by Dry Fiber Technology

A combination of three processes is used to turn waste paper² into new paper – defibrating, binding and forming. Unlike conventional papermaking, PaperLab uses virtually no water from start to finish. This virtually dry process³ makes it possible to produce new paper in a small, localised cycle.



Used printed paper



Defibration

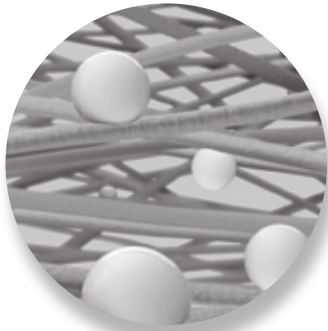
Removes all ink and toner and reduces the waste paper² to its fibers.





Binding

Brings the clean fibers back together, strengthening them and forming new paper to a specified colour and weight.



Forming

Forms by pressing then cuts the new paper into A4 or A3 sheets.



New paper
Dry Fiber Paper

Destroy and recycle sensitive documents on demand

When data security is crucial for your business, PaperLab delivers absolute certainty that key confidential waste is safely and effectively destroyed. It removes toner and inks and takes the waste paper² back to its fibers.

Your information stays safely on site is never entrusted to external contractors.

This new solution goes way beyond conventional levels of information destruction, with a rating of P7.

ISO/IEC 21964-2 Security Level P7: Destruction of data carriers in such a way that the data on them cannot be reproduced with current technology or scientific knowledge (<5 mm² particle size).



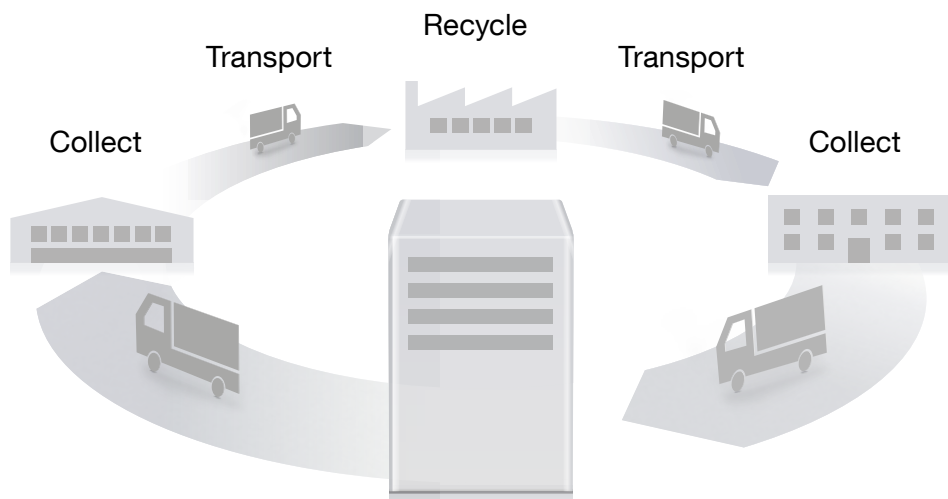
Standard shredding solution - traditional process

The traditional process to destroy confidential office paper is by shredding. This involves bagging up the waste paper which then needs to be collected or delivered to the shredding plant.

Shredded paper is only partially destroyed, despite undergoing a time-consuming process. It also needs to be processed and collected.

External specialist confidential waste paper processing plants can be expensive, require logistical organisation and have a large CO₂ footprint.

New paper must be sourced, purchased and delivered, requiring more planning and logistics.



The traditional process



**PaperLab in-house solution -
small paper cycle**

The waste paper is collected or dropped off,
then stacked securely in-house, ready for
PaperLab.

Within 3 minutes, the new paper emerges
from PaperLab⁴ (after the first sheet feeding
started).



The PaperLab solution

Contribute to a circular economy



Preservation of Water Resources
PaperLab paper requires 95 to 96%
less water*, calculation method
verified by TÜV Rheinland



Reduction of CO₂



Saving wood resources



*compared to fresh fibre paper & recycled paper produced in Germany: October 2019.

Upcycle and create paper on demand

PaperLab has the versatility your business needs, being able to produce paper at high speed and in a range of formats and finishes on demand:

Size A4 and A3

Plain paper stock at 90g/m²

Card stock from 150-240g/m²

A range of colours

Business cards

Notepads

PaperLab can handle waste paper² in A4 or optional A3 sizes, and copy paper from 64g/m² to 108g/m².

PaperLab can produce up to 720 A4 sheets or 360 A3 sheets per hour⁴ after the first sheet has been produced, which equates to 5,760 sheets per 8-hour work cycle.

First sheet out time is 3 minutes⁴. This recycled paper can be used with ordinary laser printers, inkjet printers and copiers.



Model		PaperLab A-8000
Production performance		A4 size plain paper: Max 720 sheets/hour A3 size plain paper: Max 360 sheets/hour (Media Support Mode) A4 size: 600 sheets/hour
Produced paper (Dry Fiber Paper) specification	Size	A4 / A3
	Thickness	Plain paper: 90g/m ² , 100g/m ² and 110g/m ² Thickness paper: 150g/m ² to 240g/m ²
	Colour support	Available with mixing Paper Plus (White, cyan, magenta, yellow)
Paper feeding specification	Size	A4 / A3
	Thickness	Plain paper copier from 64g/m ² to 108g/m ²
Repeat recycling		DFP mixing 10%
Electrical specification	Power supply	200V 3 phase AC
	Power consumption	6.5kW
Dimensions		2.85 (W) x 1.43 (D) x 2.01 (H) m (Excluding external units such as paper feed unit, stacker, etc.) Height including silencer
Weight		1,750kg
Noise		65dB or lower
Environmental specification	Operating	Temperature: 12°C to 28°C Humidity: 30% RH to 70 RH
	Storage	Temperature: 4°C to 40°C Humidity: 10% RH to 70 RH

1 Source: Epson research conducted in November 2016.

2 PaperLab 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.

4 Approximate values. Output speed, first sheet out time may vary depending on environmental conditions.

5 DIN 6738 standard classifies the lifespan of papers and is based entirely on the effect of accelerated aging on the strength of the paper. Standard approved by The Deutsches Institut für Normung (German Standards Institute).

LDK 24-85 is the highest lifespan class. Papers in this lifespan class may be called 'non-aging' as according to today's level of knowledge and with gentle handling and storage, they are expected to have a lifespan that can meet the highest requirements.

For more information, visit <http://www.epson.eu/workforce-enterprise>. All specifications are subject to change. For the latest specifications please visit www.epson.eu

For further information please contact your local Epson office or visit www.epson.eu/contact-us

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