

Shaping the future of printing with Heat-Free Technology

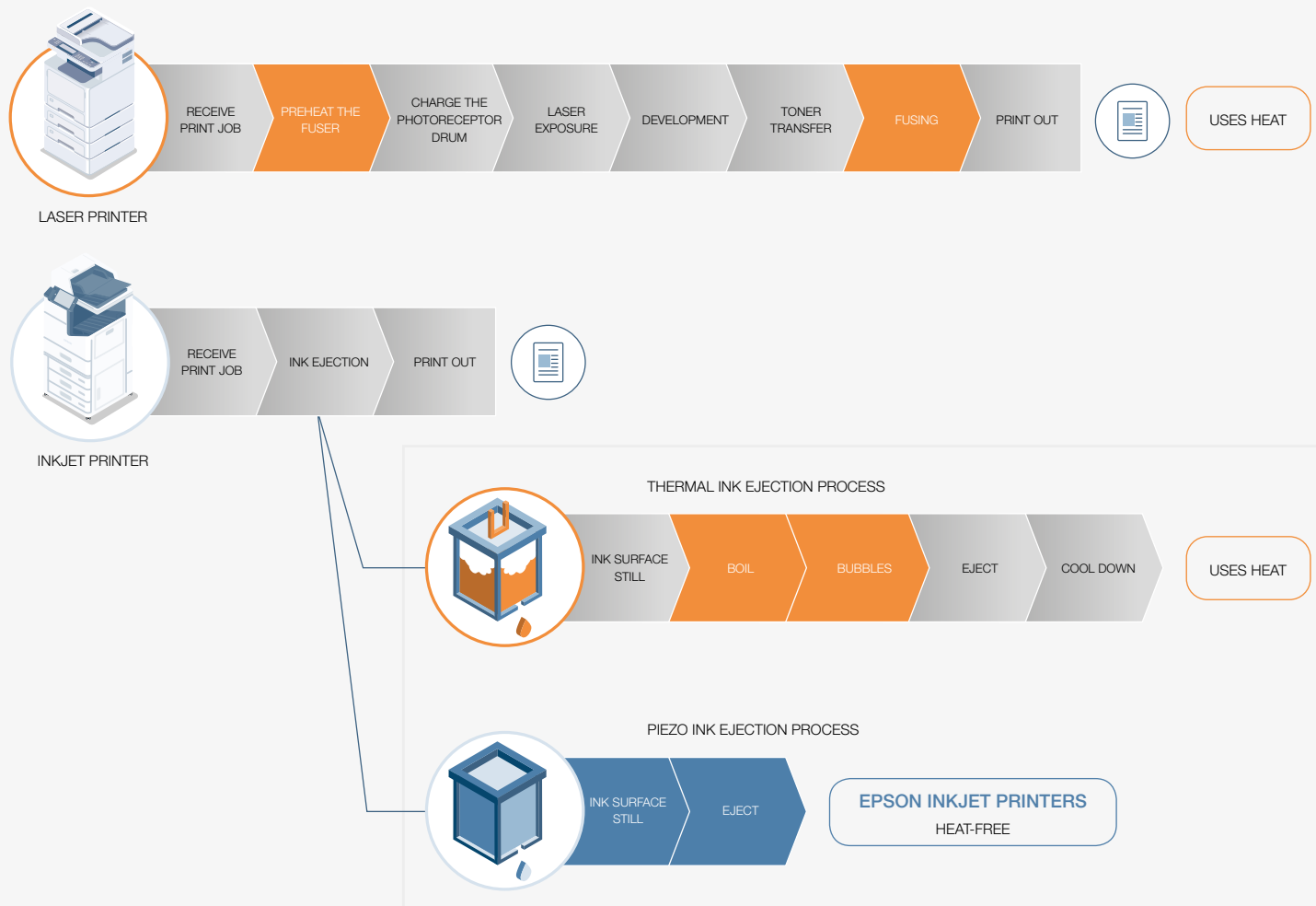


Increase productivity and reduce environmental impact without compromise

Epson inkjet printers use Heat-Free Technology to deliver advanced customer benefits over laser and thermal inkjet technology.

Epson Heat-Free Technology does not require heat in the ink ejection process. Instead pressure is applied to the Piezo element, which flexes backwards and forwards firing the ink from the printhead.

In contrast, other technologies work with heat. Laser printers need to heat the fuser unit to enable printing, and thermal inkjet technology applies an electrical current to warm the ink to fire it through the printhead.



The benefits of Heat-Free Technology



Save time with consistent high speed printing

Epson Heat-Free Technology requires no heat to warm up when it is switched on or awoken from sleep. This means it can deliver a fast first page out time (FPOT) compared to laser printers, which need to preheat the fuser to print. And unlike thermal inkjet technology, the Epson Heat-Free Technology does not need to wait for the ink to cool down between ink firings. This can result in faster printing and significantly time savings.



Use less power and save money

Epson Heat-Free Technology uses less power than laser technology because it does not use heat to warm up. As inkjets have no fuser unit to heat, this results in significantly less energy consumption. And unlike thermal inkjet technology, the Epson Heat-Free Technology enables consistent ink ejection, so the printer can print at consistently fast speed. This can lead to the printer being in action for less time and as a result, helps to reduce running costs.



Fewer replacement parts, lower environmental impact

Laser printers typically have more consumables and require periodic replacement of the drum, transfer belt and fuser in many cases. Thanks to Heat-Free Technology, our inkjet printers use fewer parts that need replacing than in a laser printer, and, unlike thermal printers, our printheads are not a consumable. This reduces the environmental burden of manufacturing and recycling the additional resources.



Less intervention increases productivity

The Heat-Free structure of Epson inkjet printers means that there are fewer parts that can fail, which reduces the amount of intervention required. The Heat-Free ink ejection process means that, unlike thermal printers, there is no heat damage to the printheads, so they last longer. As a result, Epson inkjet printers offer improved reliability and significantly reduced downtime.



Committed to corporate and social responsibility

Epson is committed to developing environmentally conscious products, which means that sustainability is considered from conception to completion. We help customers recognise the environmental gains brought on by technology, whether it is redefining manufacturing through innovative robotics, saving energy with our office printing technology or revolutionising textile printing with digital solutions.

We are committed to all 17 United Nations' sustainable development goals and to the aims of the circular economy. We offer sustainable innovations because we recognise that the choices we make as organisations, individuals or a society will be essential to our shared success.

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