



# SUSTAINABILITY WITH THE ARIZONA

**Canon**

# REDUCING ENVIRONMENTAL IMPACTS THROUGHOUT THE PRODUCT LIFECYCLE

## 01 Design

Reducing CO<sub>2</sub> emissions starts with R&D and design.

## 02 Manufacturing

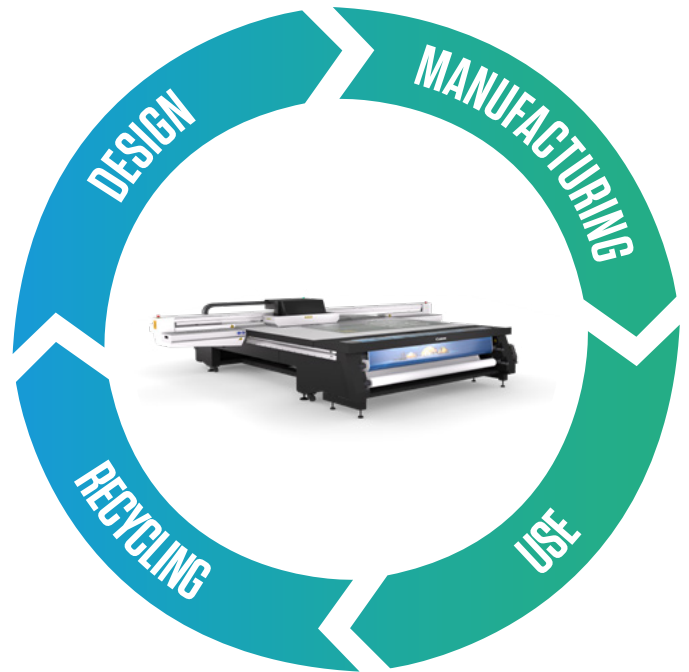
Facilities and processes are designed to minimise waste and save energy, with a 2.4% CO<sub>2</sub> emissions reduction target per year. CPP Germany uses 100% renewable energy.

## 03 Use

The Arizona offers 15% higher energy efficiency than printers using UV-halide technology, 50% less ink used than fixed dot 6 colour flatbed printers, and GREENGUARD Gold certified inks.

## 04 Recycling

Our Circular Economy Manufacturing sites remanufacture end-of-life printers, offering a 32% lower carbon footprint in terms of materials than newly built models.



## DESIGNED WITH SUSTAINABILITY IN MIND

We've focused on sustainable design choices for many years, as well as building machines to last. That's how we've achieved a 44.4% cumulative reduction in lifecycle CO<sub>2</sub> emissions per product by 2023 compared to the 2008 baseline year.

For the Arizona, we reduced environmental impacts by:

- **Improving energy efficiency:** we redesigned the vacuum ink pumps and introduced LED curing
- **Embracing circular design:** Arizona devices are repairable and easily disassembled, enabling reuse and recycling of materials
- **Reducing ink consumption:** our VariaDot technology enables efficient ink placement

# SUSTAINABILITY IN USE

Our Arizona devices follow our sustainable approach to design.



## Energy

- Arizona vacuum pumps use up to 70% less energy compared to other manufacturers
- Arizona LED printers use 15% less energy than Arizona UV-halide printers



## Ink

- VariaDot technology enables 50% less ink consumption than a fixed dot 6 colour flatbed printer
- All Arizona inks are safe for use in public environments – even hospitals and schools
- All Arizona inks are GREENGUARD Gold certified and free of Hazardous Air Pollutants and Volatile Organic Components
- With robust ink, there's no need for lamination, reducing plastic use and costs



## Health

- Air filtration option results in pollutant emissions five times lower than the Occupational Exposure Limit
- Radiation emitted during use is below the Threshold Limit Values for UV, and Visible radiation according to ACGIH institute standards
- Acoustic emission levels mean no noise protection is needed. Tested according to ISO7779/EN27779



## Waste

- Accurate printing ensures less waste, including edge-to-edge printing to minimise waste from cutting
- The intuitive UI reduces human error, avoiding costly and wasteful misprints
- Our workflow software such as PRISMAguide XL and PRISMAelevate XL allow operators to preview prints on a 'what you see is what you get' basis, minimising misprints further

# RESPONSIBLY MANUFACTURED

We work to reduce the environmental impact of our manufacturing activities on a global scale, from reducing energy and water use to minimising material waste.

We manufacture Arizona devices at our site in Poing, Germany:

- We use 100% renewable energy to make each device
- Our site has the largest solar array of its kind in Germany, with optimised "SolarEdge" panels reducing carbon emissions by up to 976 tons a year
- There are 60 hybrid or e-cars in our company car fleet
- The site has 10 bee hives with 400,000 bees, producing 550kg of honey in 2022
- We follow Green Procurement Standards when buying parts and materials
- We use reusable wooden crates for shipping

# SECOND LIFE AND BEYOND

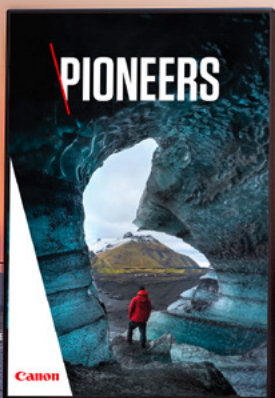
When an Arizona printer reaches the end of its first lifecycle, we can give it a new lease of life at the Circular Economy Manufacturing centre in Venlo, the Netherlands.

The printer undergoes a rigorous remanufacturing programme, starting with collecting fully functioning printers from customers and transporting them to Venlo.

Then, they are remanufactured:

1. The parts are thoroughly checked
2. Some parts are replaced as standard, while others are replaced if needed
3. Parts are cleaned
4. The latest safety features are added
5. Each printer is tested and inspected
6. The resulting remanufactured Arizona printer is issued with a certificate confirming its quality

Remanufactured Arizona printers match the quality of a brand-new Arizona with up to 32% lower carbon footprint, while extending the lifetime to more than 15 years.



## CONTACT

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