



CARBON FOOTPRINT AND CIRCULAR ECONOMY REPORT: REDEFINING THE LIFE CYCLE OF COMPUTERS



HYPERTECHNOLOGIE CIARA INC.

OUR DRIVE

Leading our way to innovation, Ciara proudly **delivers EPEAT Gold certified IT solutions**, showcasing our dedication to eco-friendly practices and a circular economy. **From product conception, our teams focus on reducing pollution, circulating materials, and regenerating natural resources.** This approach redefines the life cycle of CIARA IT solutions, driving us towards a greener, more sustainable future.

OUR APPROACH TO

Tracking environmental impact centers on sustainability, energy efficiency, and a circular economy. **Life Cycle Assessment (LCA), for us a 'cradle-to-grave' analysis**, evaluates a product's environmental footprint across its entire life cycle. This encompasses **every stage—pre-manufacturing, manufacturing, packaging and shipping, product use, and end-of-life management**. By assessing these phases, we can better understand and reduce the carbon footprint, reinforcing our commitment to eco-friendly practices and sustainable design.

ESTIMATED CARBON FOOTPRINT OF THIS PRODUCT:

We present the total carbon emissions for the product's life cycle, using clear comparisons to help users easily understand its environmental impact.

PRODUCT: Kronos 545

WEIGHT: 12.25 kg

TRADE/BRAND: Ciara

LIFETIME: 5 years

REPORT PRODUCED: Year of 2024

TARGET MARKET: North America

MADE WITH BETTER MATERIALS

90% reusable or recyclable materials

Up to 35% PCR Plastic in the chassis

ENERGY EFFICIENT

80 PLUS® Gold PSU

Energy Star® Qualified

Compliant with Canadian Electrical Code

RESPONSIBLE PACKAGING

Recycled & recyclable materials in our packaging



6443.45 KG CO₂E

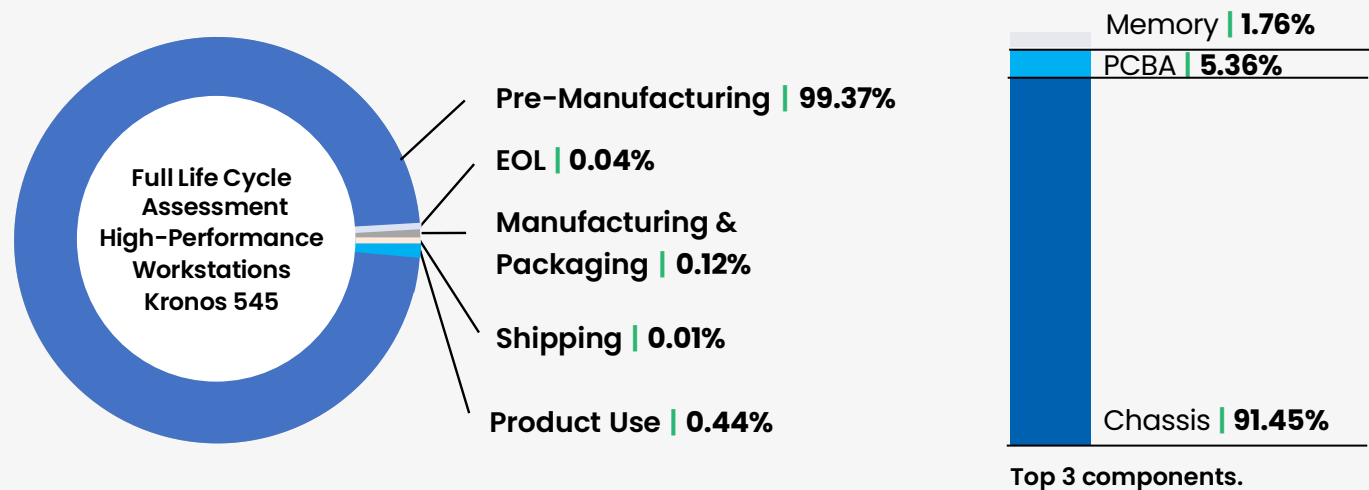
OUR SUSTAINABLE WAY

Ciara aligns with international best practices by adhering to key **ISO standards** such as **14040, 14044, 14067, 14025, and 14064**, ensuring robust environmental management, precise carbon footprint tracking, and transparent eco-labelling. The adoption of **ISO 14025 is particularly vital for clear product labelling**, enabling us to effectively communicate the environmental impact of our products. These standards allow us to support a circular economy by using resources efficiently, reducing emissions, and designing eco-friendly products, making it easier for consumers to make sustainable choices.

In addition to these standards, Ciara integrates other internationally recognized certifications such as EPEAT and ENERGY STAR® to ensure top-tier energy efficiency and environmental performance. Our management system is further strengthened by adherence to SA8000 for social accountability, ISO 9001 for quality management, ISO 14001 for environmental management, ISO 27001 for information security, ISO 45001 for occupational health and safety, and ISO 50001 for energy management. Together, these standards guide our operations, helping us deliver high-quality, sustainable, and socially responsible solutions.



ESTIMATED CARBON FOOTPRINT BREAKDOWN:



THIS IS EQUIVALENT TO CO₂ EMISSIONS FROM :

725 gallons of gasoline consumed
296 propane cylinders used for home barbeques
1.3 home's energy use for one year



1. PRE-MANUFACTURING

This phase represents **97.37%** with **6404.0725 Kg CO₂e**

Ciara ensures **compliance with hazardous substance regulations (EU RoHS)** and **promotes labor rights through our membership in the Responsible Business Alliance**. We require our **suppliers to follow the CIARA RBA Supplier Code of Conduct** and comply with laws regarding conflict minerals, emphasizing responsible sourcing. Our commitment to sustainability includes increasing the use of recycled materials and reinforcing our sustainable way. **The natural resources as water, fossil fuels, minerals, and virgin forest products are managed by modifying production processes, materials substitution, reuse, conservation, and recycling.** Additionally, we pledge to **publicly share the summary of our Life Cycle Assessment (LCA) results** on Global Warming Potential, Water Consumption, and Primary Energy Demand to enhance transparency regarding our environmental impact.



2. MANUFACTURING & PACKAGING

This phase represents **0.12%** with **7.9347 Kg CO₂e**

We carefully manage all materials used in product manufacturing, including metals procurement, **ensuring compliance with ethical sourcing and legal standards through third-party verification**. Our best practices for substance management are supported by lab analysis to guarantee the quality and integrity of our raw materials. We manufacture eco-friendly products using clean renewable energy and energy-efficient facilities, and we are **proud members of Hydro-Québec Energy Saver's Circle**, which helps us monitor and share our energy efficiency initiatives. Our production recycles over 90% of materials used in manufacturing, replacing most foam inserts with pulp and paper products and reusing packaging materials. Components such as memory, CPUs, HDDs, and SSDs are transformed into plastic pellets to support our recycling initiatives.



3. SHIPPING

This phase represents **0.01%** with **0.5728 Kg CO₂e**

Ciara designs its packaging to minimize weight and volume, conserving natural resources and facilitating more efficient shipping. **Our latest model incorporates over 95% recycled content by total weight of wood-based materials.** We also prioritize our transportation footprint during production and delivery. Consequently, we significantly decreased our transportation vehicle usage. We ensure that all our vehicles comply with applicable laws and regulations and actively seek alternatives such as using renewable energy, reducing the number of vehicles, and promoting the sharing of renewable energy resources.



4. PRODUCT USE

This phase represents **0.44%** with **28.2317 Kg CO₂e**

Currently, we assess the impact of our devices based on an **average usage of 6 hours per day**. Our energy-efficient designs comply with the latest **Energy Star Standard (ESS) 8.0**, as their average energy consumption falls below the standard. At Ciara, we focus on creating products that are durable, safe, and **compliant with the Canadian Electrical Code** and all other relevant regulations.



5. END OF LIFE MANAGEMENT

This phase represents **0.04%** with **2.6366 Kg CO₂e**

We recognize that our devices are **designed for dismantling and recycling**; however, the environmental benefits of recycling have not been included within the system boundary. Additionally, landfilling is accounted for in relation to packaging waste.



Get In Touch



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