HEXAGON

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Leica RTC Series

Product sustainability information

Sourcing and manufacturing
Our products include many components from mechanical, optical and electronic aspects. We have a Sustainable Sourcing Policy in place to ensure our commitment to sustainability towards our and our customers' goals.
The majority of the product's weight comes from metal and mechanical parts representing around 82% of the total product weight and are mainly manufactured in our facilities using 100% Renewable Energy onsite with a minimum 50% recycled content as pre-consumer material. As a company, we comply with Conflict Mineral regulations and engage our key suppliers to do the same through our Supplier Engagement Program.

Product design and packaging
We have designed our products for high performance and durability with a serviceability concept in place. Our products are repaired at our technical service centres and/or licensed repair partners to extend their lifespans and ensure high performance.

We care about the reusability of components; therefore, the Leica RTC300/500/700 has 15% of its components compatible with previous models to ensure reusability for repairs, reduce waste, and maintain our performance and quality values. This enables us and/or our service partners to service newer and older generations with compatible components. Our product can be refurbished as part of our service concept, extending its lifespan.

Leica RTC300/500/700 can be recycled at the end of its lifespan at a material level, achieving 90% through the right disposal approach outlined in the user manuals. This information is also available through the product's recycling passport.

Red transportation product packaging boxes are made from recycled materials and are 100% recyclable at the end of life. We have also reduced packaging content by introducing a QR code and reducing the amount of materials/paper. Our logistics packaging materials (e.g., carton boxes) are FSC certified.

Environmental performance
Leica RTC300/500/700 has 176 kgCO2-eq based on the internal product carbon footprint analysis we have conducted A1-A2-A3 scope using material composition and internal process knowledge. Our product consumes 55.4 Wh of energy*, which can be used to calculate use-stage emissions and performance.

** Energy consumption is calculated per hour with average workflow usage, and we assume that the lifespan calculation can consider the details such as 3 hours, 220 days, for 10 years. Depending on the customers' usage and needs, this assumption might vary.*
Note: Product Carbon Footprint Assessment, Recycling Passport, Repair Manual, CMRT and other documentation are available on request.

35%
Recycled content

90%
Recyclability of product materials
based on Recycling Passport

100%
Renewable energy onsite
used at our own facilities

55.4 Wh
Hourly energy consumption*



Leica RTC300/500/700
Product recap

- 40% more accuracy (3D accuracy) compared to its predecessor
- Improved tilt and angular accuracy, range noise and image quality
- 2x faster image and up to 16x faster point cloud acquisition than older generations

Increased operational:
- Temperature range and IP rating
- Fully automatic self-calibration
- Dedicated surveying functionalities and higher efficiency

Leica RTC300/500/700
Designed with sustainability in mind

- Compared to previous generation products, our product has approximately 42% less embodied carbon emissions.

- With new generation products, we have reduced material consumption by approximately 58%, driven by compact size design and less raw material needed for production.

- Additionally, we have taken certain materials out of our design, such as oils within the product used for tilt-measuring, eventually creating a better recycling opportunity and less water contamination risk during the disposal process.

- Designing for energy efficiency in mind, we have ensured that the new generation products work up to 16 times faster with higher data capturing capability, enabling a better energy intensity ratio with the same amount of energy consumption compared to the previous generation.

- Improved cooling technology ensures less heating of the product for higher efficiency during operations.

- With its fully automatic self-calibration capability, we reduce the unproductive time for field and service calibration as well as related logistic emissions.

- Our product is compatible with previous generation product accessories, which enables modular usage for our customers and helps us streamline the design of our products. One accessory can serve our customers by being used with multiple products, reducing their emissions associated to any additional accessory needs.

- Our product can be recycled at the end of its lifetime with over 90% material recyclability based on Recycling Passport analysis.

- Our product reusability rate of 15% refers to components that are compatible with new and older generation products, which ensure a better repair and component reuse opportunity during their lifespan.

- Higher adaptability and upgradability of software ensures our customers get their work done without the need for updating hardware constantly.

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