



CARRINGTON
TEXTILES

Sustainability in action

Our commitment to the environment,
sustainability & corporate social
responsibility.

**ENVIRONMENTAL
RESPONSIBILITY**

Our Environmental performance is in line with the ISO 14001 certification at our main production facility, Pincroft Dyeing & Printing Co. Ltd and have placed a great deal of importance on the environment having signed up to the Climate Change Charter in 2006.

We have not only implemented the basic measures, but continuously strive to identify new and positive steps towards improving our environmental performance.

Firstly by dramatically reducing the environmental impact of our fabric preparation, dyeing and finishing – which has been achieved through utilising advanced effluent treatment technology to recycle chemical residues and minimise water consumption.

This involves operating one of the largest heat recovery systems of its type in the world supplied by Koenig, the leading Swiss energy specialist. By investing in this technology, year on year we reduce our CO2 emissions by over 4,000 tonnes.



We are also pro-active in our approach to emerging and anticipated changes in international standards. Our fabrics are OEKO-TEX CERTIFIED, and all the chemicals used in their production have been pre-registered ahead of the requirements set out by REACH - the European Union regulation concerning the Registration, Evaluation, Authorisation and restriction of Chemicals. We also observe the stringent Ethical and Environmental policies of the global chemical giants we work closely with, including BASF and Dystar.

These tangible facts demonstrate how conscious we are of our obligations to sustainability, and how firmly we believe that investment in technology and production goes hand in hand with ecology and sustainability. We also understand that environmental concerns are an international issue and that we must all encourage and support each other.

Our aim is to always work with suppliers who are ISO 14001 accredited and share our deeply held environmental principles.

Welcome

In the ever-changing world of textile manufacturing one topic has remained at the forefront of people's mind – sustainability.

At Carrington Textiles, we take this seriously and are very conscious of our responsibility. To our customers, to end users, and most importantly to our planet. So over the next few pages you can read about the work we're doing to address the issue. Whether it be through our fabrics, processing or associated initiatives.

I hope this information shows our commitment, and that both our staff and myself are working hard to make sure Carrington Textiles is one of the very best sustainable and environmentally friendly companies in the textile world.

Realising the importance of the reporting process, we intend to issue regular updates on this commitment and the continuing progress we're making on our journey of sustainable development. A journey that has seen us introduce increasingly advanced, safe, reliable and sustainable products in response to a growing textile demand throughout the world.

Over the past year, there have been significant advances, as you'll see throughout the pages of this report. By adding new purpose-built facilities we've been able to intensify our research and development programme. This activity is complemented by our involvement with national and EU institutions - and by promoting technological and managerial training in partnership with universities.

Apart from increasing our economic value as a company, these considerable investments are key to developing new solutions for our customers, and making a contribution of worth to society. Working closely with them, we are helping to create safer workplaces by offering better protection to millions of people around the world.

John Vareldzis
CEO

Carrington Textiles is totally committed to sound environmental practices, sustainable procurement and corporate social responsibility.

We have made good progress, but we are determined to do more every day.

Mission

To improve people's quality of life with high-performance, long-lasting fabrics that guarantee the greatest wearer protection and comfort.

Vision

To produce a broad and innovative choice of the best workwear, flame retardant, waterproof and defence fabrics.

Objectives

To be the leading workwear textile brand reference across all sectors, maintain our leadership in the European market, and continuously strengthen our worldwide brand.



Certificates & memberships

Our R&D departments and our production engineers constantly work towards the minimisation of toxic substances, finding alternatives for existing raw materials, waste reduction, reduction of energy use overall and sourcing more renewable energy.

BSI

Sets out the criteria for an Environmental Management System (EMS). It maps out a framework that a company or organization can follow to set up an effective EMS while ensuring products and processes that are environmentally safe.

It provides assurance to company management and employees as well as external stakeholders that environmental impact is being measured and improved.



OEKO-TEX

Carrington fabrics are OEKO-TEX certified. The Oeko-Tex standard regulates and controls the use of harmful substances in textile production. Approval under this standard ensures fabric poses no risk to human health and will provide 'skin friendly' clothing.

BLUESIGN®

The bluesign® system is the solution for a sustainable textile production. It eliminates harmful substances right from the beginning of the manufacturing process and sets and controls standards for an environmentally friendly and safe production. This not only ensures that the final textile product meets very stringent consumer safety requirements worldwide but also provides confidence to the consumer to acquire a sustainable product.



REACH

Carrington is also REACH compliant. REACH is a regulation of the European Union, adopted to improve the protection of human health and the environment from the risks that can be posed by chemicals, while enhancing the competitiveness of the EU chemicals industry. It also promotes alternative methods for the hazard assessment of substances in order to reduce the number of tests on animals.

POPFREE

POPFREE is a three year project with the overall goal to create a transition in sectors using PFAS to feasible non-fluorinated alternatives. While some PFAS are already under regulation, others are targeted by a clear political agenda towards reducing their use in the market place.



ETSA

ETSA's mission is to promote the textile services industry and the interests of member companies, in cooperation with national textile services associations from across Europe.

Companies within this group are committed to providing services for a healthy and safe workplace, while maintaining the greatest possible concern for the environment.



Fabric and fibres

We innovate new fabrics - To demonstrate Carrington are proud to be a partner in the launch of the sustainable Cradle to Cradle concept workwear with DutchTextile leaders, Van Puijenbroek Textile.

Working with the vertical supply chain, Carrington adopted the principles of guru Micheal Braungart's Cradle to Cradle philosophy to supply fabric for garments that have a full biological life cycle. The fabric embraces the principles of renewable sources whereby all component parts are viewed as nutrients in the environment that enable production of new resources. The non toxic fabric is beneficial both to humans and the eco system throughout the biological cycle.

New yarns are spun or compost is made from the old workwear clothing, supporting both innovation and sustainability with a recognisable quality.

Current fabrics and fibres we have worked on in the past 12 months in Carrington

- Recycled polyester Our current supply partner is Repreve from Unifi
- REMO (recycle movement) we are one of the partners
- BCI cotton
- TENCEL
- MVS Vortex spinning



Products



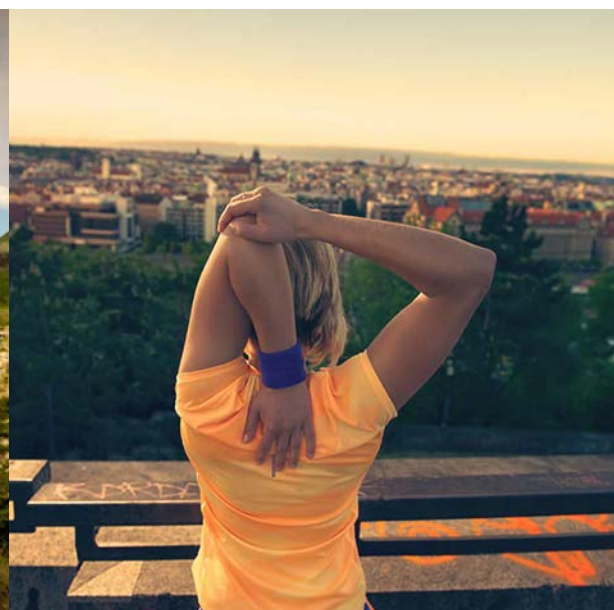
Repreve

Billions of plastic bottles go into landfills every year. But now you can do something about it. REPREVE is the leading, most trusted, branded performance fiber made from recycled materials (including plastic bottles).

We transform recycled bottles into an amazing fiber, used by the world's leading brands to make athletic and fashion apparel and more. Our process embeds properties like wicking, adaptive warming and cooling, water repellency, and more at the fiber level. For reliable, durable quality.

Unifi has recycled more than 10 billion plastic bottles through partnerships with some of the world's leading fashion apparel, automotive, sports apparel and home goods brands. Unifi is continuing their eco-friendly efforts by announcing a goal to recycle another 10 billion bottles by 2020, and launching a one-of-a-kind awards program to recognize companies that are committed to sustainability and REPREVE.

The recycled polyester solution.





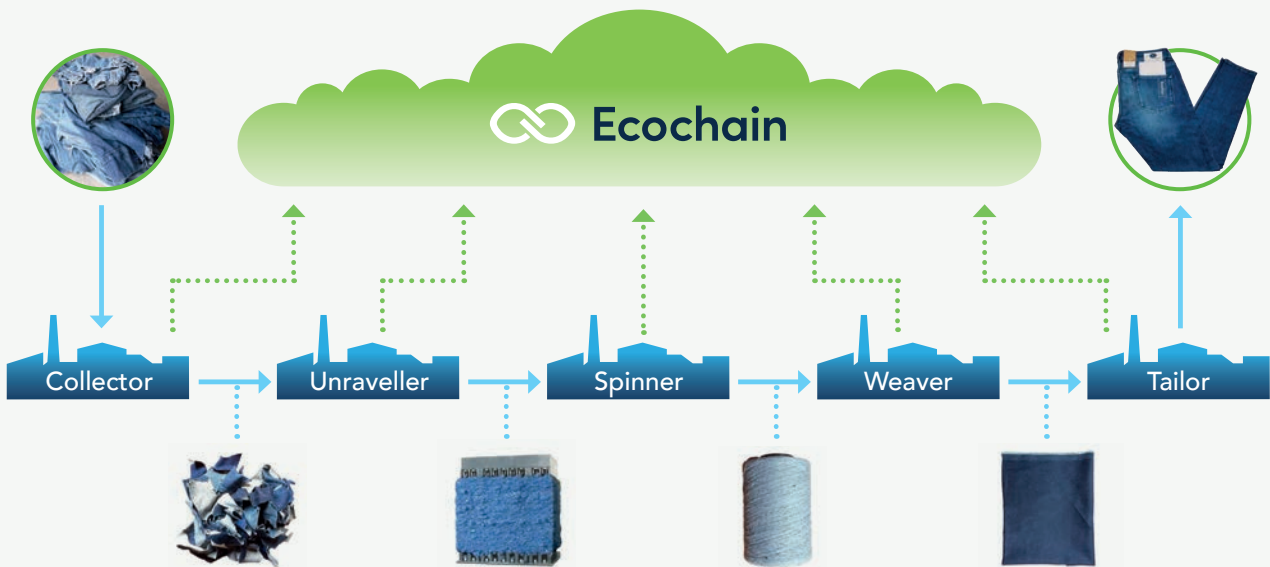
REMO

- A unique and independent guarantee of recycled content in the end-product
- A powerful system built on Life Cycle Assessment, providing transparency in a complex chain
- Exact information about an item's origin, footprint calculations and the precise percentage of its recycled content
- The resulting environmental savings on Energy, Water and CO2
- Powered by intelligent Ecochain technology, charting the journey of recycled fibres through the production chain
- Smart visual communication by REMOkey label and linked product webpage, to provide full transparent information to customer

Carrington are proud to be a system partner in this movement.



For more information on Remo visit remokey.com





Better Cotton Initiative

The Better Cotton Standard System is a holistic approach to sustainable cotton production which covers all three pillars of sustainability: environmental, social and economic.

Each of the elements – from the Principles and Criteria to the monitoring mechanisms which show results and impact – work together to support the Better Cotton Standard System, and the credibility of Better Cotton and BCI.

The system is designed to ensure the exchange of good practices, and to encourage the scaling up of collective action to establish Better Cotton as a sustainable mainstream commodity.

The BCI has made significant progress in making Better Cotton a mainstream commodity, with 1.3 million BCI Farmers growing 3.3 million metric tonnes of Better Cotton in 2017, in 21 countries. That is 14% of global cotton production.





TENCEL™

TENCEL™ branded lyocell and modal fibers are produced by environmentally responsible processes from the sustainably sourced natural raw material wood. TENCEL™ fibers are found in the collections of many leading designers and renowned retailers.

Known for their natural comfort, TENCEL™ Lyocell fibers are versatile and can be combined with a wide range of textile fibers such as cotton, polyester, acrylic, wool, and silk to enhance the aesthetics and functionality of fabrics. Unique physical properties of TENCEL™ Lyocell fibers lead to their great strength, efficient moisture absorption and gentleness to skin.



Wood

Pulp

Tencel™

Fabric



VORTEX®

The overall advantages of vortex yarn over the ring and rotor yarns

- Better resistance to pilling and abrasion: this gives longer-lasting fabric performance through a greater number of washing cycles. Uses less chemicals in finishing
- Less hairiness: this reduces potential problems in fabric production and gives a smooth appearance to the fabric
- Less shrinkage: unlike ring spun yarn, the structure of vortex yarns means they are less prone to shrink
- Moisture absorption and drying: the looser structure of fibres at the center of vortex yarns means that they absorb moisture and dry quickly
- Like ring yarns MVS yarns can have a wide range of counts (not quite as big as ring spun but well within the range of workwear and PPE fabrics)

VORTEX



RING

There is no untwisted part. Twist of some degree is present in the entire yarn from the center to the surface. In areas of uneven yarn thickness, the twist will be high at the thinner sections, and low at the thicker sections where hairiness tends to be high.



RING

The inside and the outside of yarn are made of different fibers



VORTEX

All fibers start from the center of the yarn and run outward

PILLING RATE
OE 3.0

PILLING RATE
MVS 3.5

PILLING RATE
RING 1.5



The Balance Range

Because we understand our customers commitment to a more sustainable and responsible world, and what this means to the end user, we have developed the Balance Range by Carrington, a selection of fabrics that are manufactured using environmentally friendly processes without compromising on the quality of our products.

The Balance Range utilises all five main technologies:



REPREVE®

This is a fibre made by transforming recycled materials (including bottles). These fibres have embedded properties like wicking, adaptive cooling and water repellency, for a comfortable and durable fabric.



TENCEL™

Branded lyocell and modal fibres produced by environmentally responsible processes from the sustainably sourced natural raw material wood. This technology is known for its natural comfort, great strength and moisture absorption properties.



VORTEX®

With Vortex spun yarns there is no untwisted part. Twist of some degree is present in the entire yarn offering better resistance to pilling and abrasion, less shrinkage and hairiness, as well as greater moisture absorption and drying.



REMO®

We have partnered with REMO in order to track and trace the cotton used in garments throughout the whole supply chain and product life cycle, helping save energy, CO2 and water consumption.



BCI

The Better Cotton Initiative is a holistic approach to sustainable cotton production covering the three pillars of sustainability: environmental, social and economic. This initiative helps reduce water consumption, soil acidification and the impact on global warming.

The company

Sustainability projects being implemented at Carrington

These are the areas Carrington Textiles is working towards making a more sustainable and environmentally friendly company to work in for everybody:

Machinery

- Installation of the Combined Heat and Power unit - **(2020)**
- Power Radar® software installation, to help us monitor and lessen our energy consumption to ultimately reduce waste - **(2020)**
- Benninger 1 pad steam upgrade – better wash off for increased colour fastness - **(Implemented)**

IT functionality

- iPads production monitoring
- Group wide ERP system **(2020)**



Consumables

From the use of chemicals to our packaging policy, we have taken important steps to ensure our operations are more sustainable and friendly with the environment and will continue to do so.



Run to dry residual bath project

Cross department project to reduce the amount of finishing liquor going to waste **(Implemented)**



Ammonia cure control

This provides better control to regulate the amount of ammonia used per item **(Implemented)**



Marketing materials

We work hard to make sure most of our marketing materials are fully recyclable and will continue to do so



Packaging

Our textile material wrapped in polythene is 100% recyclable. Cardboard delivered to site with goods supplied is reused for protecting textile products destined for the customer, reducing the amount of cardboard required to be procured. Cardboard slats for stabilising textile rolls on pallets have replaced wooden slats, providing the customer packaging that is 100% recyclable

Utilities

To demonstrate our ongoing commitment to responsible and sustainable manufacturing processes, we have shared below some of our achievements to date:

LED Lighting

Lighting replacement to LED - completed - reduces CO2 emissions for lighting by 40%

Carbon Emissions

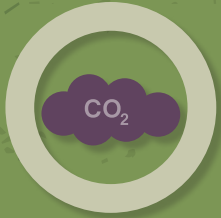
Work with Utility Wise (external auditor) to reduce our carbon emissions as per the Climate Change Agreement

Water/Effluent

Replacement of water filters which helped reduce solids removal by 43%

ISO 50001

Energy Management System - **Certified**



SHEQ

Our Safety, Health, Environment and Quality (SHEQ) has been growing year on year to cope with the demand of the new projects the organisation has been involved in to lessen our impact on the environment, improve our quality, lower levels of waste, increase customer satisfaction and reduce accidents at work.



Sustained action. A total approach, a continuing commitment

We hope this report has shown how Carrington is reducing its impact on the environment every day, with increasingly efficient techniques, processes and production systems. This is evidenced by hard facts. For example, the conservation of energy that we've achieved by installing one of the largest heat recovery systems of its type in the world. This alone has reduced our annual CO2 emissions by over 4,000 tonnes, and will continue to do so for many years to come.

We will sustain our positive action on every front, because looking to the future, we see a very different workwear world. One in which the conventional linear business model will be transformed to become circular in the way it operates. As demand for products increases, those products will have to be better designed and manufactured in better materials. These will be made with more effective use of fewer resources – and in a way that means they can easily be recycled into new products. Something that we are already seeing in our own approach.

From our leading position in Europe – and our presence around the globe – we will move forward confidently towards a brighter tomorrow. Helping to create a more sustainable business and a more sustainable planet. Not only by the way we think, but the way we act.



CARRINGTON TEXTILES



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