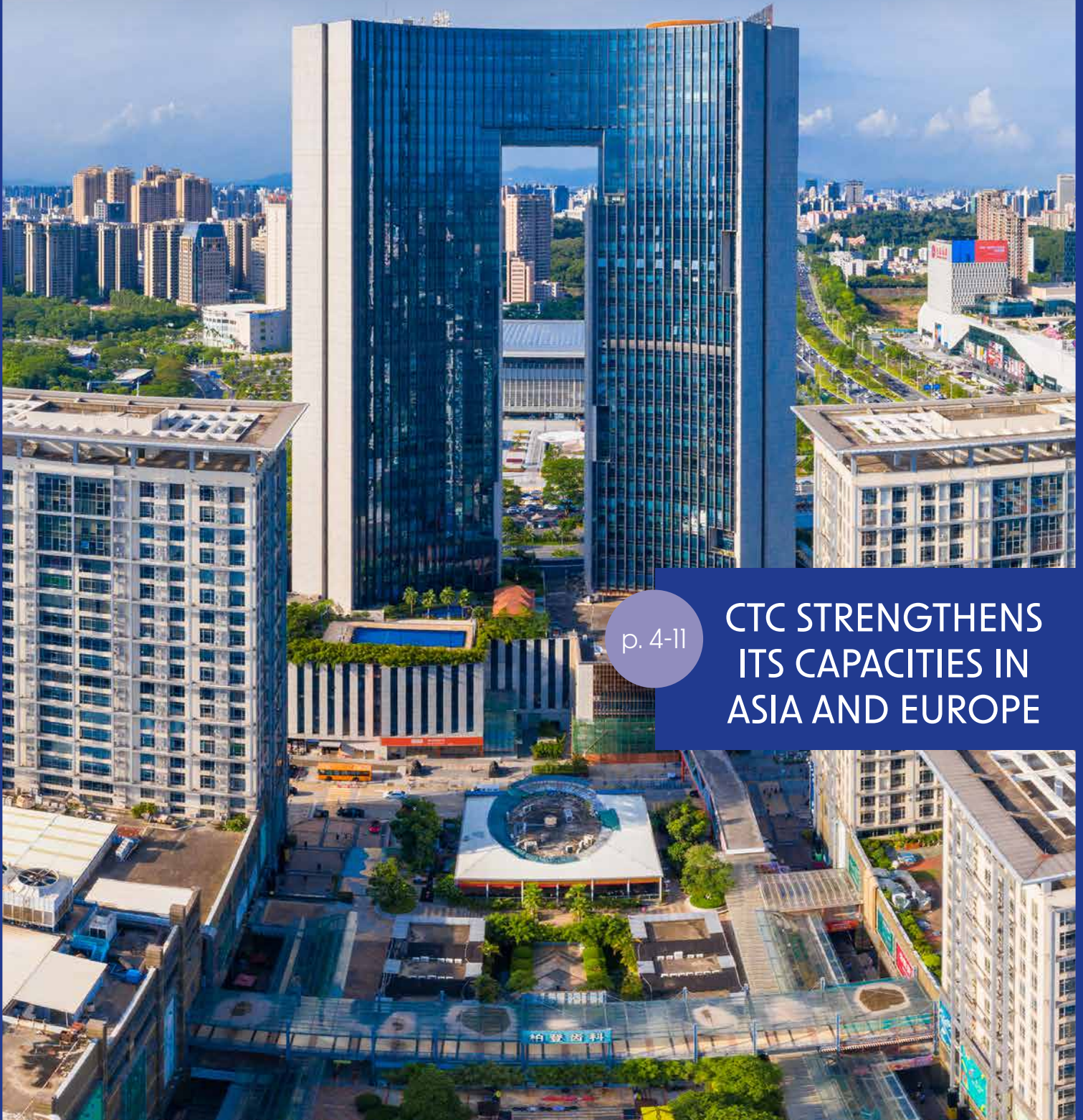


CTC international



p. 4-11

**CTC STRENGTHENS
ITS CAPACITIES IN
ASIA AND EUROPE**

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Editorial

Summary

INTERNATIONAL DEVELOPMENT

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Since 1899, CTC has been supporting you in leather, leather goods, shoes and gloves. We are your

partner and provide you with quality control, certification, consulting, training and sustainable development services for these products.

While global consumption of footwear and leather goods remains generally positive, consumer and regulatory expectations are changing significantly. Post-COVID, international economic relations and consumer expectations with regard to sustainable products coming from environmentally friendly processes have accelerated and intensified considerably. To remain competitive, manufacturers must optimize their productivity and quality. Buyers or brands must be able to rely on a reliable and sustainable supply chain if they are to ensure an optimal level of quality and service for their customers.

The need for information and transparency on the part of end consumers is very important. Companies must therefore manage the various links in their supply chain (quality, environmental, social, etc.) and the traceability of their materials and products (leather and textile origin, etc.)

In order to meet the needs of your customers, regulatory changes, societal and environmental changes, the responsiveness and robustness of your supply chain and product marketing are key points. Ramping up and the involvement of your partners or suppliers in this process are necessary, to ensure that all the energy of your partners and staff is moving in the same direction. CTC is continuing to develop/optimize its service offering to address these concerns.

We remain at your disposal to support you in your developments and prevent these various risks.

Thanks again for your confidence.

Enjoy reading this. ●

Jean-Luc Chaverot

CTC Development & International Director



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From September, CTC will be participating in key industry events in France, Italy and Germany. Our team of experts will be happy to meet you there to discuss your needs as well as our sustainability and PPE solutions.

Diary

CTC X Fairs

SIMAC



19-21 September 2023

CTC Booth: Hall 18 / Go1 Ho1

Fiera Milano, Strada Statale del Sempione,
28 20017 Rho, Milan, Italy



Simac Tanning Tech is the reference event for the footwear, leather goods, tanning machines and technologies sectors. If you visit Lineapelle, UITIC Congress or SIMAC, come and meet CTC and its partner Ars Tinctoria.

www.simactanningtech.it

A+A



24-28 October 2023

CTC Booth: Hall 16 - n°16C38

Messe Düsseldorf, Stockumer Kirchstraße 61,
40474 Düsseldorf, Germany

A+A is the world's largest and most important event when it comes to safety, security and health at work: one of CTC's key areas of expertise. As usual, the exhibition is taking place in Düsseldorf's huge exhibition centre: come et visit us!



© ctilmann

www.aplus-online.com

CTC X Congress / Conferences

Sustainable Leather Forum (SLF)



11 September 2023

5th edition

Paris, France

Created by the National Leather Council, the SLF is a major international event dedicated to CSR (corporate social responsibility) in the leather industries. CTC has supported this event since its creation and our teams regularly participate in discussions. This year, Martin Poupard, sustainable development project manager at CTC, will speak about the maintenance and repair of footwear, gloves and leather goods products that are key factors in the implementation of a more sustainable circular fashion.

<https://slf-paris.com>

UITIC International Footwear Congress



19-22 September 2023

19th: Preliminary Program / 20st- 22nd Congress

Milan, Italy



The 21st UITIC International Footwear Congress will take place in Milan and Vigevano, Italy. The congress will be dedicated to "Moving towards Sustainability Through Innovation".

This year, Françoise Nicolas, CTC chief executive officer, is filling the role of Chair of the UITIC Congress Scientific Committee and two of CTC's associates, Matthieu Vicard, sustainable development project manager -footwear and Valantin Louis, head of innovative technologies department, participate in the conferences.

More info pages 8-9.

www.uitic-italy2023.com

The expansion of the CTC Dongguan laboratory

Arnaud Dyduck
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Jean-Luc Chaverot
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Open since 2010, CTC Dongguan is a growing subsidiary of the CTC Group. Major expansion work is now underway in the laboratory.

THE HISTORY OF CTC'S SUBSIDIARIES IN CHINA

1997 Opening of CTC Asia in Hong Kong to serve our French, European, American and worldwide customers who were starting to develop outsourcing in China. CTC Asia was also the 1st company to offer protective gloves testing and CE certification to the China market.

2005 Opening of CTC Shanghai to further provide support to our customers. Thanks to this new facility and an efficient PPE sales and technical team, CTC China became the reference lab for protective gloves. At the same time, it added resourceful services in the fashion, sports, luxury and retail fields.

CTC Shanghai moved to a brand-new location in 2019. The lab enhanced its capacity in terms of physical testing and chemical analysis. It is also the hub of our Inspection & Audit coordination and management.

2010 Opening of CTC Dongguan, a subsidiary of CTC Shanghai, with the aim of making it a testing hub for footwear, leather goods and PPE footwear. Having taken market leadership for protective gloves in China, CTC China's next target was to become a leader for safety footwear testing and certification.

Thanks to its proximity to Shenzhen (the 1st special economic zone in the early 80's), in 2010, **Dongguan became the largest footwear manufacturing area in the world** with several thousand shoe factories from huge Taiwanese groups to individually owned workshops. The city of 10 million people also boasted a great number of leather and shoe material suppliers, designers, traders and thousands of footwear technicians from Taiwan, Brazil, Italy and other countries.

Dongguan was indeed the place to be for a new CTC laboratory with a focus on shoes, bags and PPE footwear.



CTC Dongguan employees



Adobe Stock © sergii_kopotov

CTC DONGGUAN'S ACHIEVEMENTS SINCE 2010

- Successful use of STARLIMS laboratory tool moving from the production of 1,000 reports to around 30,000 reports issued per year currently
- CNAS accredited by 2012 and CMA accredited by 2013
- Serving a great number of French clients but also many European, American and Chinese customers including very well-known international brands
- Close to 10,000 CE certificates issued for PPE footwear

Such successful growth overstretched our present facilities, meaning that enlargement was essential. At the end of 2022, the CTC board of directors approved the expansion of CTC Dongguan.

KEY ELEMENTS OF THE PROJECT

- Full rebuilding of the chemical lab moving from ground to 1st floor.
- Expansion of the physical lab on the ground floor.
- Use of RFID technology to track samples in the testing process.
- New decoration and improved staff facilities. •

BENEFITS TO STAFF AND CLIENTS

- > A higher volume of tests can be handled thanks to increased amount of equipment and staff.
- > Greater efficiency due to improved working process, sample flow and use of RFID.
- > Increased laboratory capacity will lead to the improved optimization of services provided to customers.

Discover our new facilities: latest-generation equipment, functional meeting spaces and design... almost as if you were there!



Would you like to learn more about our services in Donguan?

Contact:

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CTC Vietnam gets bigger!

Arnaud Dyduck
Executive director - CTC Greater China and Vietnam
adyduck@ctcgroupe.com



Jean-Luc Chaverot
CTC development & international director
jlchaverot@ctcgroupe.com



CTC's new laboratory offices in Ho Chi Minh City will be strategic in further supporting the growth of the footwear, leather goods and apparel industries not only in Vietnam, but also in Southeast Asia.

sales increased by 20% and by 40% between 2022 and 2021. With such growth, our current facilities have become too small and it is now necessary to move to new premises to continue to offer the high quality of service for which CTC is renowned. With the aim of opening the new laboratory in autumn 2023.

HISTORY OF CTC'S SUBSIDIARIES IN VIETNAM

After opening a laboratory in Hong Kong in 1997 and in order to provide additional services to customers sourcing in Asia, CTC opened an office in Ho Chi Minh City in 2001.

Initially, only footwear and garment inspection was offered. But to support our customers even further, a physical laboratory for footwear was opened in 2012. The customer portfolio began with French companies, but quickly expanded to include customers in other European countries and even covers some American brands.

While carrying out more and more tests, we also continued to develop inspection in Vietnam as well as in neighbouring countries such as Cambodia, Myanmar, Indonesia, Thailand and Bangladesh. To guarantee total quality, inspection is focused solely on footwear, textiles and leather goods.

In the 2010s, importers concentrated on Chinese production and Vietnam remained a minor source of supply for the world. Vietnam's position as a global supplier changed dramatically after the US imposed punitive tariffs in 2018 and 2019, adding taxes of 7.5% to 25% on Chinese products. Even more so during the pandemic, when supply chains from China were severely disrupted. Eventually, Vietnam became a major supplier of footwear worldwide.



Vietnam has thus seen a significant growth in the presence of purchasing offices for the textile and footwear industry. As a leading manufacturing center for these products, Vietnam has attracted the attention of major international brands and retailers looking to leverage the country's competitive advantages in production and supply chain management.

CTC Vietnam has benefited greatly from the country's improved supplier status. Between 2020 and 2021, our

HIGHLIGHTS OF THE NEW FACILITY - NEW LOCATION AND LARGER SIZE

- While the current laboratory is located in downtown Ho Chi Minh City, the new premises will be outside the city center in a location close to communication routes leading to the various regions and provinces considered to be the main manufacturing centers of South Vietnam. This will mean faster sample shipment and easier access for customers from these manufacturing areas.
- A new laboratory approximately 2.5 times larger than the current one. We will have more complete coverage of physical testing for footwear, with the capacity to handle at least 50% more volume than in 2022. We have also invested in new slip-resistance testing equipment, as well as more machines for important and time-consuming tests such as ageing ovens, heel fatigue, outsole abrasion, color fastness to rubbing, etc.
- Improved working conditions for our staff.
- Additional storage areas.

With our new laboratory, our existing customers will benefit from greater testing capacity and improved turnaround times, and we will be able to provide the same quality of service with an even higher volume of business, as Vietnam will continue to grow as a supplier of footwear, gloves (including PPE products) and clothing too. ●

A VERY POSITIVE OUTLOOK FOR THE VIETNAMESE INDUSTRY DUE TO

- > An increase in the number of purchasing offices, as the country is a major player among other Southeast Asian countries.
- > The signing of various international trade agreements, such as the Comprehensive and Progressive Trans-Pacific Partnership Agreement (CPTPP) and the EU-Vietnam Free Trade Agreement (EVFTA).
 - > Skilled, hard-working workforce.
 - > Favorable import duties in many countries.
 - > Need for companies and brands to better balance sourcing zones.

CTC VIETNAM, THE QUALITY HUB OF CTC IN SOUTH EAST ASIA



Audit, QA, inspection, chemical laboratory and physical testing for footwear, leather goods and gloves



The major development area for **footwear & leather good industry** since the past 10 years which also covers specific industrial zone around Hanoi.

The newest location in central Vietnam offering the best coverage of all Vietnam's geographical zones and to follow new industrial needs specifically supporting quality of **fabrics and textile products**.

Our "Regional Laboratory Hub". In direct connection with the most important buying offices and economic actors of **Vietnam Fashion industry**.

To better service our clients and capture new opportunities, CTC Vietnam continues its effort in supporting:

- ▶ International testing capacity & laboratory environment for vendors & local suppliers
- ▶ Specific order traceability program
- ▶ Quality Assurance program & production coaching
- ▶ Inspection of final products, during and at the end of production
- ▶ Technical audit

Would you like to learn more about our services in Vietnam?

Contact:

Ms. Pham Minh Huong
mhpham@ctcgroupe.com



www.ctcgroupe.com



CTC and the UITIC Congress a strong, ongoing collaboration

21st UITIC
INTERNATIONAL
TECHNICAL FOOTWEAR
CONGRESS
INNOVATION & SUSTAINABILITY
20-22 September 2023
MILAN-VIGEVANO | ITALY



Moving towards sustainability through innovation



The International Union of Shoe Industry Technicians (UITIC),

established in 1972, is an organization which aims to develop technical knowledge in the footwear industry by organizing international conferences on a regular basis and by taking the initiative in setting up information exchanges between its members, mainly in the field of technology.



This year, the organization is celebrating its 50th anniversary and CTC's communications department has designed a logo for the occasion!

CTC has closely collaborated with the UITIC for over 13 years and it helps to organise its Congress: an international event that brings together footwear industry experts, researchers and professionals to exchange knowledge and best practices.

This 21st edition takes place on **September 19th to 22nd** in **Milan and Vigevano, Italy.**

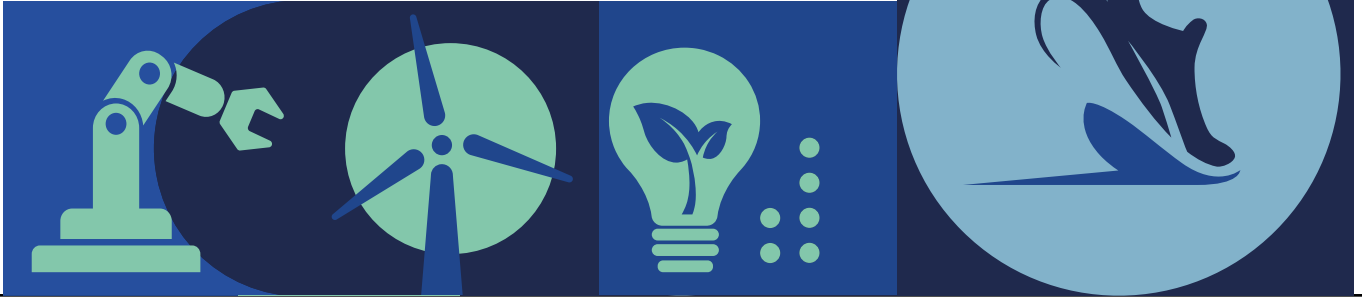
On the agenda: two days of dedicated presentations with Keynote speeches, 4 technical sessions and 2 thematic panels in which CTC's experts will participate. ●



Françoise Nicolas CTC chief executive officer

The UITIC Congress is a key event for CTC as a sponsor of the event. Françoise Nicolas will also be playing dual roles, as general secretary and chair of the UITIC congress scientific committee.

She declares "The congress will be an occasion to focus on important technological innovations that have helped footwear companies modernize and become more sustainable. It is therefore an event that is not to be missed."



The 21st congress of the UITIC brings together many world-wide experts, but also shoe brands and industry leaders, all gathered to discuss an essential theme for the future of the profession:

“Moving Towards Sustainability Through Innovation”

The innovation and sustainable development teams of CTC, whose expertise is recognized in the international sphere, will lead two prospective conferences, allowing us to anticipate innovative and operational solutions for the future of the footwear sector in all areas of CSR. Discover the topics covered by our two experts: Matthieu and Valantin.

FAST FASHION AND SUSTAINABILITY FOR THE FOOTWEAR INDUSTRY, HOW TO CHOOSE?

Products, Materials and Consumers of Tomorrow Session



Matthieu Vicard

CTC sustainable development project manager - footwear
mvicard@ctcgroupe.com

In a world where environmental issues are at the center of all attention, the awareness of all citizens is growing. On a planet with finite resources, it is no longer conceivable to continue to consume as if nothing had happened.

Overconsumption, the depletion of resources and global warming are the new societal challenges. Public authorities are also thinking and acting. Initiatives and bills are being published regularly, both at the European and national levels.

In this context, consumer information, particularly through environmental labelling, takes on its full meaning. Better consumption will require more sustainable products. Environmental impact measurements are mainly based on LCA methods which show, beyond the values, the relative importance of the different stages of the life cycle of a shoe. These impacts are only relevant when associated with the notion of product sustainability. To this end, much work is underway to determine the categorization of comparable products for the footwear industry.

A list of standardized physical-mechanical tests and associated thresholds that reflect the intrinsic durability of a product in its use are being validated. This work is structuring the footwear industry to take the necessary turn towards the ecological transition.

FEEDBACK FROM BIO MECHANIC TO ROBOTIC: AN ACCELERATOR PROCESS FOR INNOVATING PRODUCTS TESTING

Digital Transformation Session



Valantin Louis

CTC head of innovative technologies department
vlouis@ctcgroupe.com

CTC’s innovation department has been focusing on innovative projects aimed at conducting quality tests that closely mimic human product usage. One key asset is their biomechanical laboratory, known the “the living lab” which is equipped with various tools such as instrumented treadmills, motion capture devices, accelerometers, electromyography systems and power platforms. Utilizing these tools, CTC can analyze the performance of different products, including footwear and handbags, during actual usage scenarios. The platform facilitates the benchmarking of product designs.

The “living lab” enables the collection of data on trajectories and forces exerted when using leather goods. Testers within the laboratory employ the products while motion capture, accelerometers and pressure sensors record the technical parameters that reflect typical usage. These parameters are then fed into a robotic cell developed by CTC, which rapidly tests products under accelerated usage conditions. Unlike conventional component or long-range tests that can be time-consuming and inconsistent, CTC’s robotic cell replicates human movements, providing significantly faster results.

In addition to biomechanical measurements, CTC has developed a walking and running simulator, a specialized machine used to test shoes. This simulator incorporates biomechanical parameters such as user’s mass, walking or running style, speed and distance covered. The machine then measures technical shoe parameters like cushioning, grip and dynamism while simulating human usage. This patented system is unique worldwide.

CTC’s innovative approaches enable accelerated comparisons of different product uses and designs. This empowers shoe and leather goods manufacturers to expedite their product development processes in response to ever-increasing collection and development demands.

www.uitic.org

CTC and Ars Tinctoria a growing partnership

In 2021, CTC, leader in quality assurance and consulting services for the leather, leather goods and footwear sectors and Ars Tinctoria S.r.l., the Italian laboratory specialized in organic analytical research, color and light, signed a partnership agreement to mutualize their actions in Italy so that their customers fully benefit from this cooperation.

Since then, the partners, who are working together for a more responsible leather industry, have developed a reliable, innovative and scientific method (based on the EN16640 standard) capable of assessing the carbon content (fossil or organic) of materials used to produce consumer goods such as footwear, leather goods, clothing, gloves, furniture and so on. The method is based on the EN16640 standard.



CTC and Ars Tinctoria at Simac Tanning Tech 2022

After a shared stand at **SIMAC Tanning Tech** in Italy in 2022, CTC and Ars Tinctoria will be back at the fair this year to promote their services and their common offering. From 19-21 September, you'll find CTC and Ars Tinctoria in **Hall 18, Booth Go1 Ho1**.



From left to right: Jean-Luc Chaverot, Massimo Mancuso, Reno Spinosi, Thierry Poncet, Gustavo Defeo, Patrice Mignon and Pierre Beaupoil.

ABOUT ARS TINCTORIA



ars tinctoria

Ars Tinctoria S.r.l. is a laboratory specialized in organic analytical research, color and light. The laboratory, based in Santa Croce sull'Arno, is equipped with the latest generation of instruments and is active in various fields including synthesis, analytical research and study of the molecular structures of dyes, research into substances that are hazardous to humans and the environment and finally the measurement and standardization of color.

Ars Tinctoria S.r.l. laboratory is accredited in accordance with UNI EN ISO/IEC 17025:2005, which implies formal recognition of the laboratory's compliance with the requirements of the system for testing activities and the technical competence of the accredited tests.

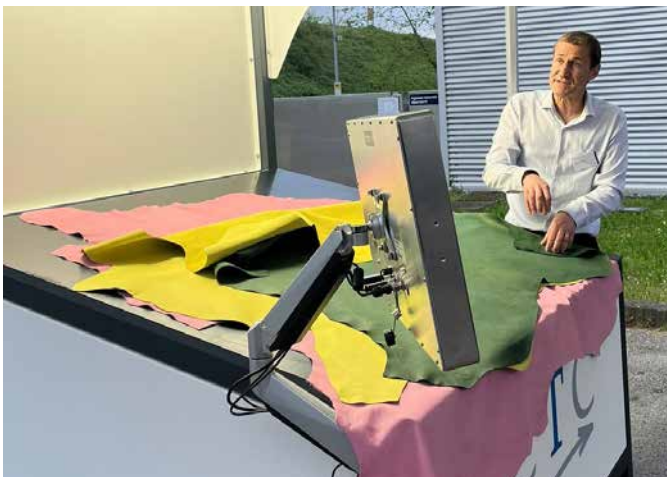


A SUCCESSFUL EVENT IN ARZIGNANO

As proof of a growing partnership, in April 2023, CTC and Ars Tinctoria hosted an unprecedented event in the renowned tanning district of Vicenza to present their latest development solutions. The event took place at the headquarters of the Acque del Chiampo company (district water resource treatment) and brought together more than 54 companies from the leather industry: slaughterhouses, tanneries, traders (from skin to product), luxury brands, etc.

Two current topics related to sustainable development and CSR in the leather industry were discussed: The traceability of skins and the quantification of fossil carbon (from oil fields) vs organic (from biomass) of biobased materials.

CTC and Ars Tinctoria can provide innovative solutions to enable supply chain players to face CSR challenges and meet the increasingly growing expectations of principals, certification/regulatory bodies, associations and end consumers. These solutions are available now and represent unique CSR tools for business competitiveness. ●



Demonstration of CTC's "ALIS" traceability solution in Arzignano, April 2023

A TEAM OF EXPERT SPEAKERS

An incredible team of speakers, experts in traceability, innovation, R&D and leather were present to testify and share their knowledge and experiences during this seminar.



Gustavo Adrián Defeo
Ars Tinctoria CEO



Sabrina Frontini
ICEC Director



Erik Heller
SLCR Project Sales Engineer



Christophe Dehard
SVA Jean Rozé



Cédric Vigier
CTC Innovation Director



Paul D'Arras
CTC Innovation Project Manager

Would you like to know more about
our sustainability solutions?

Contact us:
contactcommercial@ctcgrupe.com

ALIS, CTC's groundbreaking traceability innovation is available

Pierre Beaupoil
Vice-director for development
pbeaupoil@ctcgroupe.com



Cédric Vigier
Innovation director
cvigier@ctcgroupe.com



CTC has the capacity to offer the European market an industrial solution for global traceability of the leather supply chain: ALIS.

Traceability is a major challenge and one that will become a necessity for the entire industry, both to deal with the problems of improving hide quality and to clearly and formally identify the origin of raw materials by determining the various players in the processing chain. In fact, mastering the traceability of skins is becoming increasingly important in order to respond to issues of animal welfare, natural resource conservation, preservation of natural environments, product safety and the duty of vigilance in the fight against deforestation.

ALIS is a **unique technological solution** that allows for the complete traceability of hides. By identifying the origin and reconstructing the route of the raw material, throughout the whole transformation process, from raw hide to the finished product, ALIS is a **groundbreaking global leather traceability system** that meets all the challenges of CSR (animal well-being, the environmental impact of a product/process, deforestation, hide quality, etc.).

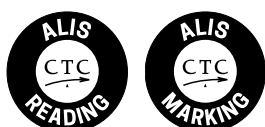
ALIS offers companies a secure industrial solution for the unitary and physical tracking of each hide. This technology, which was invented and designed by CTC's R&D experts, is made up of two complementary blocks: ALIS Marking & ALIS Reading.

ALIS MARKING

ALIS Marking uses a high-power CO2 laser system to make a mark with the unique identification code for each animal (code in force in Europe and North America) deep in the raw hide. This marking can be made in all types of hides (cattle or big cattle) on the collar, at the raw, fresh, or salted stage. It has been designed and patented to withstand the leather transformation process.

ALIS READING

ALIS Reading is an industrial tool that ensures the automatic and secure reading of markings despite the deformations induced by the tanning and leather transformation processes. This device is based on a camera acquisition system and Artificial Intelligence algorithms. Information related to the quality and origin of each hide is automatically retained and stored in a database, which makes it possible to share information between the different sectors, from breeding to finished leather.



The technology behind ALIS Marking and ALIS Reading is patented in Europe.

THE BENEFITS OF ALIS

A high-performance and secure tool designed to address the industry's constraints:

- > Autonomous devices adapted to wet and saline industrial environments that can be integrated into existing production lines
- > Marking and reading operations are carried out as background tasks and are completed in one second
- > Operator safety is guaranteed: smoke is aspirated at the source, laser shot protection and isolation cover

A reliable monitoring and checking tool:

- > Precise knowledge of the origin and the supply chain of the raw material
- > Improving and controlling leather quality

A tool that addresses the challenges of CSR:

- > Knowledge of the environmental and social impact of the product and the industrial processes
- > Securing the supply chain and meeting client/customer key expectations

IN PRACTICE

ALIS addresses the multiple and growing challenges of CSR (animal welfare, environmental impact of the product/process, deforestation, etc.) and contributes to the improvement of leather quality.

In France, a dozen companies (slaughterhouses and tanners) are already equipped with the ALIS traceability system. ●

See the presentation video



Would you like to know more about Alis?

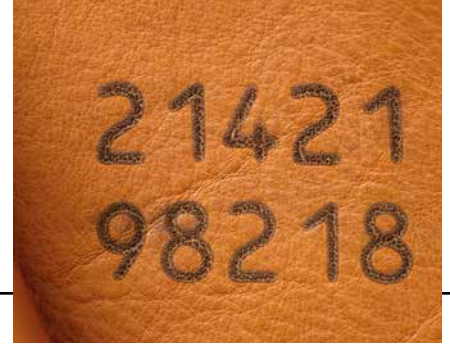
Contact us:
contactcommercial@ctcgroupe.com



Paper label: traceability up to the manufacturer cutting process



ALIS automatic reading



ALIS finished laser marking



ALIS laser marking system on skin conveyor

CTC expands its range of CSR-related services

Today, CSR plays a full role in corporate strategy. There are many reasons: compliance with regulations, meeting customer expectations, social motivations or simply to mark commitment to the fight against climate change. To best support you in this process, CTC has developed new CSR-related services and methods.

Bio-based material assessment

CTC-ARS is pleased to offer a brand-new method to assess the bio-based carbon content of materials (leather, textile, plastics, alternative material using recycled plant waste, etc.), that are used for consumer goods such as shoes, leather goods, apparel, gloves and furniture, among others. The bio-based material assessment is the response to the consumers' needs for information on renewable materials.

PURPOSE

According to European regulations, there is an absolute need to inform consumers on the characteristics, quality and environmental impact of consumer goods.

RESPONSE

CTC-ARS offers a methodology on the basis of EN16640 standards for the assessment and the classification of materials according to their bio-based carbon content.

EVALUATION GRID OF BIOMASS CARBON LEVEL

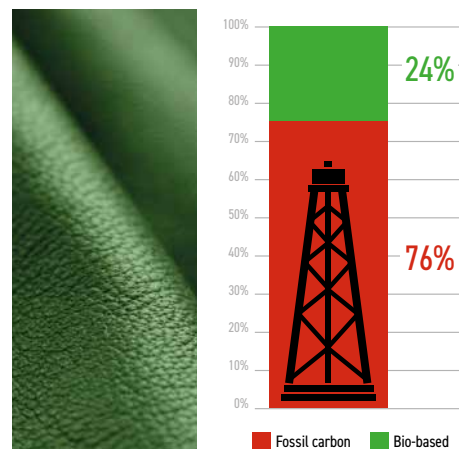
Letter/Color	Percentage	Meaning
A	Above 80%	Mainly Biomass carbon
B	60% - 80%	
C	40% - 60%	Intermediate material (half Biomass / half fossil)
D	20% - 40%	
E	0% - 20%	Mainly fossil carbon

Contact us:
 CTC Sample reception center
serviceclientsproduit@ctcgroupe.com
 ARS TINCTORIA Customer service
info@arstinctoria.it

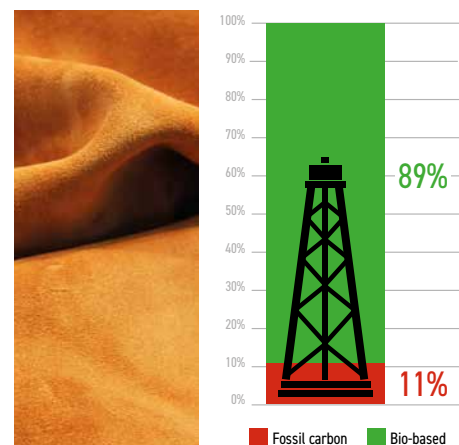


EXAMPLE OF RESULTS

"Cactus-Based alternative material"



Chrome tanned nubuck leather



CTC longevity & performance tests

The more resistant the shoe, the longer it lasts. A shoe will be considered as high-performing if its test results are above 80% of the range value on the market.

CTC offers a Performance pack for women's, men's and children's city shoes, sport shoes, belts, etc.

Check the resistance of your product, run benchmark tests to compare the performance of your shoe with its market range of products.

- Flexing performance: various cycles of flexion on the whole shoe
- Cushioning on new shoe and after ageing
- Sole abrasion resistance
- Upper tear strength
- Wet and dry abrasion of the lining and insock
- Sole /Upper bond strength



Belt flexion performance

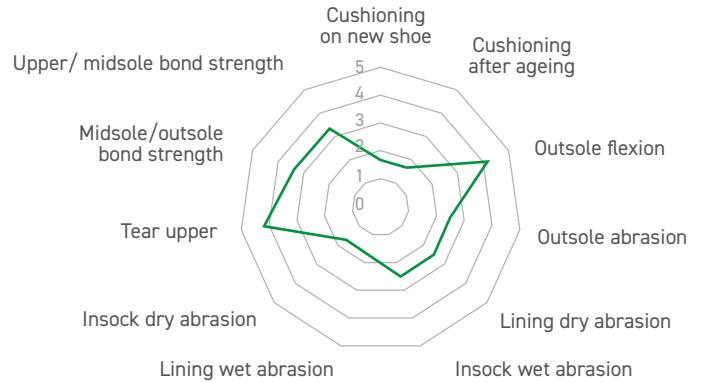


Would you like to know more about our sustainability solutions?

Contact us:
contactcommercial@ctcgroup.com

EXAMPLES OF CTC LONGEVITY PERFORMANCE TESTS

SPORT SHOE



MEN'S CITY SHOES

UPPER	Tear strength resistance (N)	EN ISO 17696
WHOLE SHOE	Flex resistance (cycles)	EN ISO 24266
	Determination of the adhesion between outsole and upper bond (N/mm)	EN 12770 ISO 20871
OUTSOLE	Abrasion resistance (mm ³)	EN ISO 17708
LINING	Wet abrasion resistance (cycles)	EN 13520 ISO 17704

BELTS

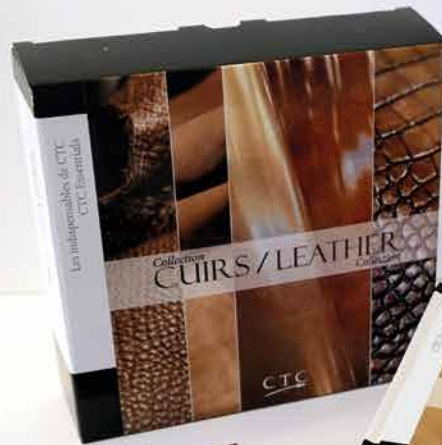
Tear resistance - longitudinal cut	EN ISO 3377-1
Flex resistance under load	BS 5131 § 4.2
Color fastness to rubbing	EN ISO 11640
Spring resistance/reversibility ressort	CTC-P-MA-015
Resistance of the belt barb/buckle	CTC-P-MA-015
Damp heat - 40°C - 96% RH (72 hours) with intermediate rating	CTC-P-P-025
Corrosion of metal accessories	EN ISO 22775



Discover CTC's English publications

LEATHER Collection

This collection gathers 35 samples of some of the most commonly used or remarkable leathers with technical information



SHOES from heel to toe

The history of footwear, design and manufacture, models, notions of comfort and quality, the art of fitting and care...



The multiple facets of LEATHER

Discover leather at all stages of its life. Includes 16 leather samples



Last secrets

A technical basis for every type of footwear



Technical Vocabulary of the Footwear Industry

This multilingual glossary of footwear manufacturing terms contains definitions in English and French, with translations in German, Italian and Spanish. The two-part segmentation offers an entry point in either French or English.



Technical glossary of leather goods

The first French-English glossary of terms used in manufacturing focuses on essential technical terms. The two-part segmentation offers an entry point in either French or English.

Would you like to learn more about our publications?

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