

MiCROTEC

Be MiCROTEC

A new challenge. Every day.



LET'S INNOVATE TOGETHER

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Be MiCROTEC

EN Do you love **technology and innovation?** Are you curious and dynamic? Then MiCROTEC is the right company for you.

Join MiCROTEC - a young, innovative and international company.

Come and **discover MiCROTEC** with us.

DE Begeistern Sie sich für **Technik und Innovationen?** Sind Sie neugierig und dynamisch? Dann ist MiCROTEC das richtige Unternehmen!

Werden Sie Teil von MiCROTEC, einem jungen, innovativen und internationalen Unternehmen.

Willkommen in der **Welt von MiCROTEC**.

IT Ami la **tecnologia e l'innovazione?** Sei curioso e dinamico? Allora MiCROTEC è l'azienda che fa per te!

Entra a far parte di MiCROTEC un'azienda giovane, innovativa e internazionale.

Vieni a scoprire il **mondo di MiCROTEC** con noi.



Who we are

EN MiCROTEC is the **global technology** and **market leader** in intelligent wood characteristics recognition. Our aim is to optimize the **wood processing industry** and we have been setting the standards in this market **since 1980**.

DE MiCROTEC ist **weltweiter Technologie- und Marktführer** in der intelligenten Erkennung von Holzeigenschaften zur Optimierung des Einsatzes in der **holzverarbeitenden Industrie** und setzt seit **1980** Maßstäbe in diesem Markt.

IT MiCROTEC è **leader mondiale** nella **tecnologia e nel mercato** del riconoscimento intelligente delle caratteristiche del legno. Il nostro obiettivo è l'ottimizzazione dell'**industria della lavorazione del legno** e stabiliamo gli standard in questo mercato dal **1980**.

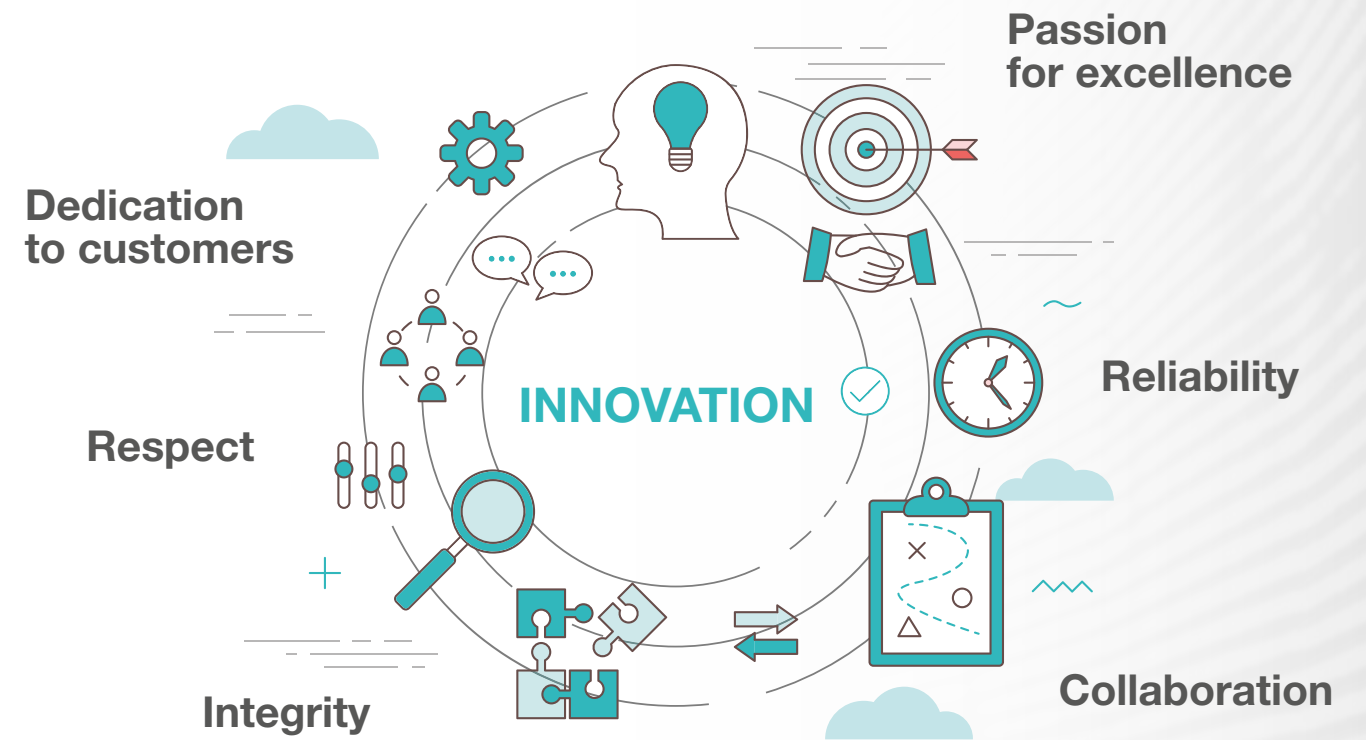
What we do

EN With a **solid foundation** and a **dedicated passion**, MiCROTEC brings excellent service and **world leading scanning solutions** to the wood processing industry.

DE Mit einem **soliden Fundament** und **unerschütterlicher Leidenschaft** bietet MiCROTEC einen hervorragenden Service und **weltweit führende Scanlösungen** für die holzverarbeitende Industrie.

IT Con una **base solida** e una **passione costante**, MiCROTEC offre un servizio eccellente e soluzioni di **scansione leader a livello mondiale** all'industria della lavorazione del legno.

Our core values



Federico Giudiceandrea
President & Founder

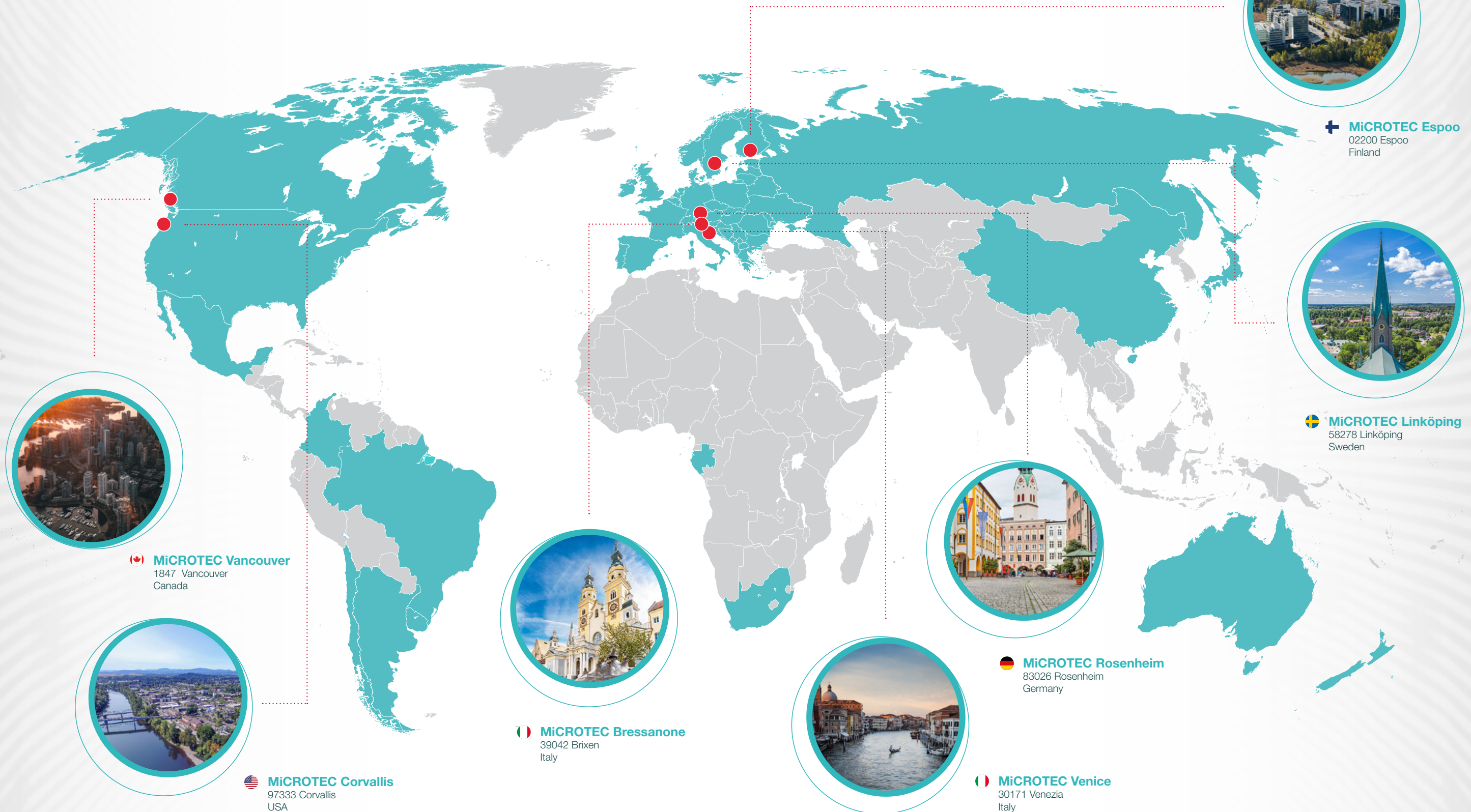
“Everything we do is driven by the passion of introducing new technologies and innovation to our industry”



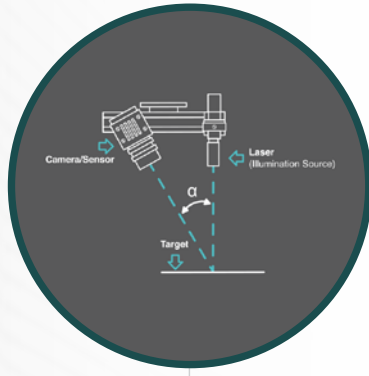
Frank Jöst
Chief Executive Officer

“MiCROTEC’s team members constantly create new solutions to boost value in wood processing for our customers”

Worldwide Locations



Milestones of Innovation



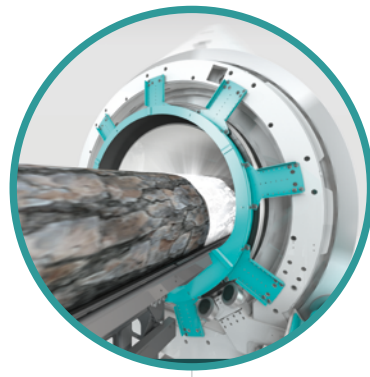
1980

MiCROTEC is founded on March 17th, 1980, by Paul Durst, Hansjörg Thaler and Federico Giudiceandrea



1995

Implementation of X-ray technology for the support of image processing of knot recognition



2001

First tests with X-ray computed tomography and radioscopy scanners for logs



2013

Introduction of the in-house developed Crometic Digital Camera with digital sensors providing full HD images at ultra-high speed for all applications



2020

Introduction of the in-house developed hyperspectral camera for applications in the quality scanning of wood and food

1985

Introduction of the laser triangulation technique for the 3D reconstruction of surfaces



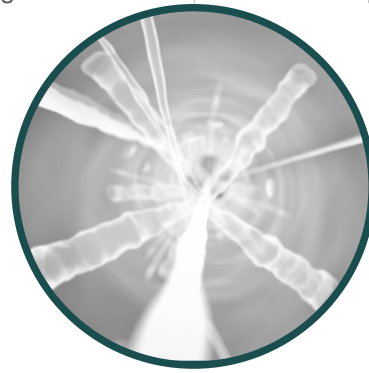
1999

First application of machine learning methods based on neural networks in image processing



2007

MiCROTEC officially presents the prototype of CT Log, the Computed Tomography scanner for logs



2019

Introduction of the Digital Fingerprint concept and installation of deep learning AI into all quality scanning systems



2021

MiCROTEC officially presents Mill Manager, the optimization suite for overall mill processes and operations. Introduction of the new product lines Goldeneye and Woodeye

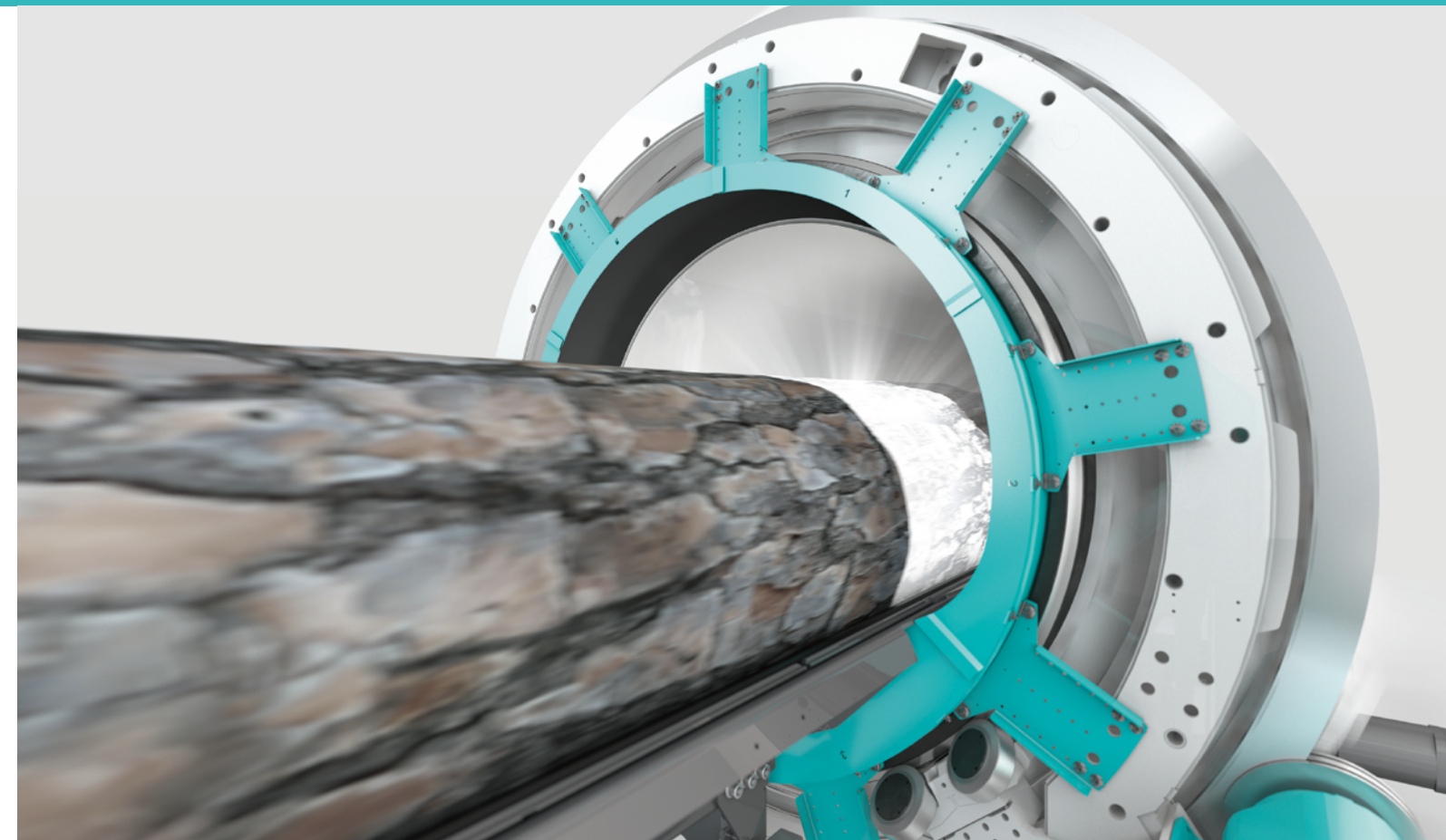


What does MiCROTEC do?

EN Many people ask themselves this question before joining the company. Here is the very simple answer: **MiCROTEC scans wood**, or rather **develops scanner and optimization solutions** for the **entire wood industry**. How? Using a variety of **state-of-the-art** and in-house developed technologies, a digital twin of the log / timber board is created in real time and artificial intelligence is used to determine the properties of the timber. Why? To get the best out of wood.

DE Diese Frage stellen sich viele, bevor Sie in das Unternehmen eintreten. Hier die ganz einfache Antwort: **MiCROTEC scannt Holz**, bzw. entwickelt **Scanner- und Optimierungslösungen** für die **gesamte Holzindustrie**. Wie? Unter Einsatz verschiedenster moderner und inhouse entwickelter Technologien wird in Echtzeit ein digitaler Zwilling des Holzstammes / Holzbrettes erzeugt und mit künstlicher Intelligenz die Eigenschaften des Holzes ermittelt. Warum? Um das Beste aus dem Holz herauszuholen.

IT È una domanda che molti si pongono prima di entrare in azienda. La risposta è molto semplice: **MiCROTEC scansiona il legno**, o meglio, **sviluppa soluzioni di scansione e ottimizzazione** per l'intera **industria del legno**. Come? Utilizzando una serie di tecnologie all'avanguardia e sviluppate internamente, viene creato in tempo reale una copia digitale del tronco o della tavola di legno e l'intelligenza artificiale viene utilizzata per determinare le loro proprietà. Perché? Per ottenere il meglio dal legno.



Log Scanning Applications



Logeye
Lineal Multi-Sensor and Quality Scanner



CT Log
Computed Tomography for the sawmill of the future

Board Scanning Applications



Goldeneye
High-Speed Multi-Sensor Quality Scanner for softwood lumber grading, chopping and sorting



Woodeye
Scanner for cut optimizing and component manufacturing applications for hardwood

Software Applications



Winlog
Optimized log sorting and control of the log and merchandising yard.



Maxicut
Cutting pattern optimization for logs based on final product quality and value.



Who we are

EN BIOMETiC emerges in 2012 as a spin-off of MiCROTEC. The **technology** of the solutions MiCROTEC uses for scanning wood has been **adapted to inspect fruit & food**. In this way BIOMETiC provides the fruit & food industry with **innovative solutions** for the process and production optimization, which **increases the added value** of the final product.

DE BIOMETiC ging 2012 als Lebensmittel Spin-Off von MiCROTEC hervor. Die **Technologie** der Qualitätslösungen, die MiCROTEC für das Scannen von Holz verwendet, wurde an das **Scannen von Obst, Gemüse und verarbeitete Lebensmitteln** angepasst. Auf diese Weise bietet BIOMETiC der Obst- und Lebensmittelindustries innovative Lösungen für die Automatisierung von Produktionsprozessen, die den Mehrwert des Endprodukts steigern.

IT BIOMETiC nasce nel 2012 come spin-off di MiCROTEC. La **tecnologia** di soluzioni di qualità che MiCROTEC utilizza per la scansione del legno è stata adattata alla **scansione di alimenti lavorati e ortofrutta**. BIOMETiC offre soluzioni innovative per l'automazione e l'ottimizzazione dei processi produttivi nell'industria alimentare e ortofrutticola, che aumentano il valore aggiunto del prodotto finale.

What we do

EN As a **high-tech company** with **passionate** people, BIOMETiC develops **innovative** food inspection systems, fruit sorting solutions, and software products for food safety and fruit quality control.

DE Als **Hightech-Unternehmen** mit **engagierten** Mitarbeitern entwickelt BIOMETiC **innovative** Lebensmittel-Inspektionssysteme, Lösungen zur Obstsortierung und Softwareprodukte für die Lebensmittelsicherheit und Qualitätskontrolle.

IT BIOMETiC, azienda **altamente tecnologica** con persone appassionate, realizza **innovativi** sistemi di ispezione alimentare, soluzioni per la selezione della frutta e prodotti software per il controllo della sicurezza alimentare e qualità della frutta.

Our products

EN BIOMETiC offers **customized solutions** made with **cutting-edge technologies** that involve in-line computed tomography and artificial intelligence.

DE BIOMETiC bietet **personalisierte Lösungen** mit **modernsten Technologien**, die auf In-line-Computertomographie und künstlicher Intelligenz basieren.

IT BIOMETiC offre **soluzioni personalizzate** realizzate con **tecnologie all'avanguardia** che coinvolgono la tomografia computerizzata in linea e l'intelligenza artificiale.



Mito

EN The unique 3D X-ray food inspection system

DE Das einzige 3D-Röntgeninspektionssystem für Lebensmittel

IT L'unico sistema di ispezione 3D a raggi X per l'ispezione alimentare



powered by
BIOMETiC Ai

Q Eye Smart

EN Smart optical sorter with artificial intelligence (BIOMETiC Ai)

DE Intelligenter optischer Sortierer mit künstlicher Intelligenz (BIOMETiC Ai)

IT La selezionatrice ottica intelligente con intelligenza artificiale (BIOMETiC Ai)



F Trace

EN A single software suite for complete food traceability

DE Ein einziges Softwarepaket für die vollständige Rückverfolgbarkeit von Lebensmitteln

IT Un unico pacchetto software per la completa tracciabilità

Some of our Applications in the Fruit and Food Industries



Cannery



Cheese & Dairy



Beverages



Olives & Dry Fruits



Confectionery



Bakery



Ready Meals

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Corporate Benefits

1.) International Company



EN MiCROTEC is an international company giving the possibility to travel around the world, getting to know new cultures and to work with colleagues from other countries.

DE MiCROTEC ist ein international agierendes Unternehmen, das die Möglichkeit bietet, um die ganze Welt zu reisen, neue Kulturen kennenzulernen und mit Mitarbeiter:innen aus anderen Ländern zu arbeiten.

IT MiCROTEC è un'azienda internazionale che offre la possibilità di viaggiare in tutto il mondo, conoscere nuove culture e lavorare con colleghi di altri paesi.

2.) Individual Growth Opportunities



EN MiCROTEC's strength is in the potential of each employee. Therefore, we attach great importance to the possibility of individual and professional growth of our employees: we offer them the chance to develop themselves and grow professionally.

DE Die Stärke von MiCROTEC liegt im Potenzial seiner Mitarbeiter:innen. Daher legen wir großen Wert auf die Möglichkeit des individuellen Wachstums unserer Mitarbeiter:innen: wir bieten jedem einzelnen die Chance, die eigenen Fähigkeiten zu entwickeln und professionell zu wachsen.

IT La forza di MiCROTEC è data dal potenziale dei suoi dipendenti. Per questo motivo, attribuiamo

grande importanza alla crescita individuale dei nostri dipendenti ed offriamo a ciascuno di loro la possibilità di svilupparsi professionalmente.

3.) Training & education



EN Our success is due not only to investments in new technologies, but also to the commitment of every single employee and their knowledge. For this reason, the company regularly provides training and specialisation courses.

DE Unser Erfolg ist nicht nur auf Investitionen in neue Technologien zurückzuführen, sondern auch auf das Engagement aller Mitarbeiter:innen und auf ihr Wissen. Aus diesem Grund bieten wir immer wieder Schulungs- und Spezialisierungskurse an.

IT Il nostro successo non è dovuto solo ai numerosi investimenti in nuove tecnologie, ma anche all'impegno di tutti i dipendenti e alle loro conoscenze. Per questa ragione, l'azienda permette regolarmente di svolgere corsi di formazione e specializzazione.

4.) Flexible Working Hours & Home Office



EN For a better work-life balance, our employees have the option of flexible working hours or even to work from home a few days a week.

DE Für eine bessere work-life-balance haben unsere Mitarbeiter:innen die Möglichkeit, die Arbeitszeiten flexibel einzuteilen oder sogar ein paar Tage pro

Woche von zu Hause aus zu arbeiten.

IT Per un migliore equilibrio tra lavoro e vita privata, i nostri dipendenti hanno la possibilità di avere orari flessibili o addirittura di lavorare da casa per alcuni giorni alla settimana.

5.) Company events



EN Throughout the year, we organise various celebrations and events for all our employees. We know the importance of having a nice atmosphere in the office to have an effective collaboration! Why not having fun all together?

DE Im Laufe des Jahres organisieren wir verschiedene Feste und Events für alle Mitarbeiter:innen. Wir wissen, wie wichtig eine angenehme Atmosphäre in den Büros für eine erfolgreiche Zusammenarbeit ist! Warum sollten wir also nicht alle zusammen Spaß haben?

IT Durante l'anno organizziamo diverse feste ed eventi aziendali per tutti i nostri dipendenti. Siamo consapevoli dell'importanza di avere una buona atmosfera in ufficio per un'effettiva collaborazione! Perché non divertirsi insieme?



Corporate Benefits

6.) Onboarding



EN Every new employee has to feel as a part of the MiCROTEC family from the very beginning. This is why we organise a general introduction to the company during the first days at work.

DE Alle Mitarbeiter:innen sollen sich von Anfang an als Teil der MiCROTEC Familie fühlen. Aus diesem Grund organisieren wir in den ersten Arbeitstagen eine, allgemeine Einführung in das Unternehmen.

IT Ogni nuovo collaboratore deve sentirsi parte della Famiglia MiCROTEC sin dall'inizio. Proprio per questo organizziamo un programma di onboarding per i primi giorni di lavoro.

7.) Take a break



EN All our employees receive a daily meal contribution which they can redeem in restaurants in the area. In addition, everyone is invited to get a coffee and snacks in the break rooms.

DE Alle unsere Mitarbeiter:innen erhalten täglich einen Essensbeitrag, welcher in Restaurants in der Umgebung eingelöst werden kann. Zudem sind alle dazu eingeladen, sich in den Pausenräumen einen Kaffee und Snacks zu nehmen.

IT Tutti i nostri dipendenti ricevono un contributo giornaliero per i pasti, che può essere usato nei ristoranti della zona. Inoltre, tutti sono invitati a prendere un caffè e uno snack nelle sale pausa.

8.) Sustainability



EN In terms of sustainability, MiCROTEC offers the possibility to charge the private e-car at the charging stations, promotes the use of bicycles and offers an innovative, modern and sustainable office.

DE In Bezug auf Nachhaltigkeit bietet MiCROTEC die Möglichkeit, das private E-Auto an den Ladesäulen aufzuladen, fördert die Nutzung von Fahrrädern und bietet ein innovatives, modernes und nachhaltiges Büro.

IT In tema di sostenibilità, MiCROTEC offre la possibilità di ricaricare l'auto elettrica privata presso le stazioni di ricarica, promuove l'uso della bicicletta e offre un ufficio innovativo, moderno e sostenibile.



The voice of our employees



Maximilian Brugger
Functional Check
Bressanone

I have been working at MiCROTEC for one and a half years as a tester of different products. This means I check all the functions and, if everything fits, I release them for delivery and assembly at the end customer. I have the opportunity to have a comprehensive understanding of the product, its functions and every component, which is why I sometimes get to be part of special assemblies. That is why I like my job very much!



Ilaria Gianolli
Wood Grading Operations
Venice

Discovering the possibilities for a Wood Scientist in a high-tech company was a surprise. What I like the most is the dynamic nature of the work: in MiCROTEC every project is a new challenge, I can contribute to the development of new technologies in woodworking processes and, at the same time, discuss with our customers solutions to set up each type of production. But the best of all is that I can travel all over the world to visit and meet with customers.



Florian Linner
Project Manager
Rosenheim

Right from the start, I never had the feeling of being in the middle of a team, but I felt like part of a family. After many successful projects and experiences abroad, I can tell that I really appreciate the flexibility of organizing myself as project leader as well as the possibility to grow with the company. Our MiCROTEC family is growing fast, but I am sure the atmosphere will never change!



Bob Bell
Technical Sales Representative
Corvallis

One of the biggest advantages of working at MiCROTEC is definitely the working environment, our colleagues are always ready to support each other and share their knowledge. Working alongside team leaders with a vast experience in software development and overcoming together various challenges is a unique and exciting opportunity. Whether in an office or a sawmill on the other side of the world, every day is an opportunity to learn and improve!



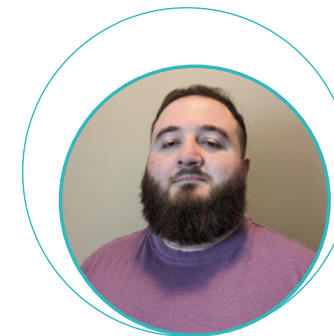
Simon Samnegard
AI Development
Linköping

Working at MiCROTEC gives me the opportunity to participate in the development of artificial intelligence and see how it is used in practice. I did my master's degree with a specialisation in machine learning, so this is a really exciting experience for me!



Michael Pedratscher
Customer Support
Bressanone

MiCROTEC always uses the latest technologies, which is why you always have to keep yourself up to date. Because of this varied work, I decided to work at MiCROTEC after my three internships.



Agostino Pisanelli
Software Engineer
Vancouver

I like MiCROTEC because it enables an optimal work life balance. Thanks to the two locations, Bressanone and Mestre, and the opportunity of working sometimes in home office, I can often spend some time with my family and friends in Bressanone, even though I no longer live there.



Joni Airaksinen
AI Specialist
Espoo

What fascinates me most about my work at MiCROTEC is observing living organisms and using this knowledge to find features. It is interesting to combine forestry and artificial intelligence knowledge in order to solve various real-life problems.



Scan your
new Job

World leading wood scanning solutions

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