



Top Marking and Coding Technology for your Sector ...



Food and Beverage

Whether your business is a massive global exporter, a small scale artisan enterprise or somewhere in between, you need cost effective marking and coding and traceability solutions, as well as gas analysers and leak testers for MAP Packaging. Our experience with food and beverage manufacturing is unrivalled in New Zealand.



Non-food FMCG

The key words here are 'fast moving' You have production targets to reach and markets to satisfy so there's little room for downtime. Our focus for your sector is trouble free solutions that support the efficiency and speed of your manufacturing operation.



Pharmaceutical

Comply to standards with marking and coding solutions that work with your packaging materials – blister packs, plastic bottles, labels, metal foils, tubes, cartons, cases and shipping pallets. We'll help you to select the most appropriate technology for your needs.



Health and Beauty

Confirm the integrity of your products with codes that customers find easy to read. MITech's market leading technologies enable you to meet the compliance demands of your sector in a way that doesn't detract from the shelf appeal of your products.

Industrial Manufacturing

We specialise in high-speed, high-contrast marking and coding solutions for the cable, wire and electronics industries. If you have out-of-the-ordinary marking requirements, stemming from a unique product, our expertise can help with identification, branding and/or traceability.

Postal and Addressing

If you need a flexible, customisable marking system that integrates easily with production, MITech can help. Our leading solutions can provide addressing, stamp cancellation and barcodes to support mailing management.

MITech's Journey

Established in 1988 as a direct subsidiary of Markem-imaje. MITech has evolved steadily in response to the changing needs of manufacturers in New Zealand and the Pacific. Today MITech is a fully autonomous company that is able to carefully select complementary technologies from leading international suppliers.

General Manufacturing

If you can make it, we can mark it. MITech's cross-sector experience qualifies us to take on any marking, coding or traceability requirement. The solutions we recommend take into account the size of your operation, as well as your product's specific needs.



Best-of-breed solutions ...

By analysing all the requirements of the New Zealand market – small, medium and large – we've assembled a product range that has every need covered.

Inkjet Printers

Used for: printing onto primary and secondary packaging

MITech provides proven liquid and solid ink solutions for primary and secondary packaging. Small character & TIJ solutions can mark moving products; large character solutions print text and graphics onto cardboard cartons.



Laser Coding Systems

Used for: permanent marking

MITech provide Markem-imaje dot matrix and scribing lasers to suit most permanent marking applications. Laser coders use a beam of laser energy created by a CO2 gas source, to generate a mark onto a moving or stationary product. Laser technology requires no consumables and can mark a wide range of substrates including most papers, cardboard, glass, plastics and timber and some metals.





Print & Apply Systems

Used for: automatically printing & applying labels onto products

Markem-imaje P&A systems use an industrial print engine to print information onto blank self-adhesive labels that are automatically applied to a product via a wipe, tamp, blow or robotic arm mechanism. The product can be moving or stationary.



Stationery Label Printers

Used for: print-on-demand labels from PC

Datamax-O'Neil desktop label printers use either thermal transfer or thermal direct technologies to print a self-adhesive label with your variable information. Most desktop printers use a PC based program to create the label design or format.



Label Applicators

Used for: automatically applying pre-printed labels onto products

Quadrel label applicators apply pre-printed labels onto a range of moving products, including cans, bottles, cartons, jars and boxes. In fact, just about any shape that can be manufactured.



Thermal Transfer Overprinters

Used for: printing onto flexible packaging film or labels

Markem-imaje SmartDate® printers (TTO) use a thermal print head to produce variable code by transferring a wax or resin-based ink from a specialised printing ribbon onto a moving or stationary web of flexible packaging film. Real-time information can be marked onto moving or stationary products, including fixed and variable text, best before dates and times, counters, logos and most types of barcodes.



Gas Analysers

Used for: checking gas levels in MAP packaging

Portable gas analysers are essential for quality control of MAP (modified atmosphere packages) products. Made in Germany, WITT gas analysers give you the answers you need for O₂, CO₂ or the various combinations of gas used in MAP packaging.

Leak Detection

Used for: testing MAP packaging

WITT Leak-Master® technology allows detection of the smallest leaks in MAP packaged products. MITech offers a range of solutions – from low level testing to non-destructive and in-line solutions.



100% – Leak Detection and Seal Integrity

Test whether your package is leak-tight. With WITT systems for packaging leak detection, quality assurance and its documentation become complete. The quality of the goods which reach the consumer is thus ensured and verifiable. Unnecessary returns, loss of reputation, legal consequences and, in the worst case, the loss of the customer can be avoided easily and reliably by leak-testing of packages.



Rental Equipment

Used for: short-term marking and coding needs

If you have changing needs or need short-term marking or coding solutions, we offer a broad range of up-to-date rental equipment that can help you to avoid capital expenditure. Promotional numbering projects (entry to a competition via unique numbers) are a specialty.



POLYtij ...

Complementing the range of technologies exclusively offered by MITech.



POLYMER THERMAL INKJET TECHNOLOGY

Featured is the POLYtij S3i HP thermal inkjet printer with its ability to operate with 1 or 2 printheads offering maximum flexibility. Either printhead can print a separate message from a common signal.

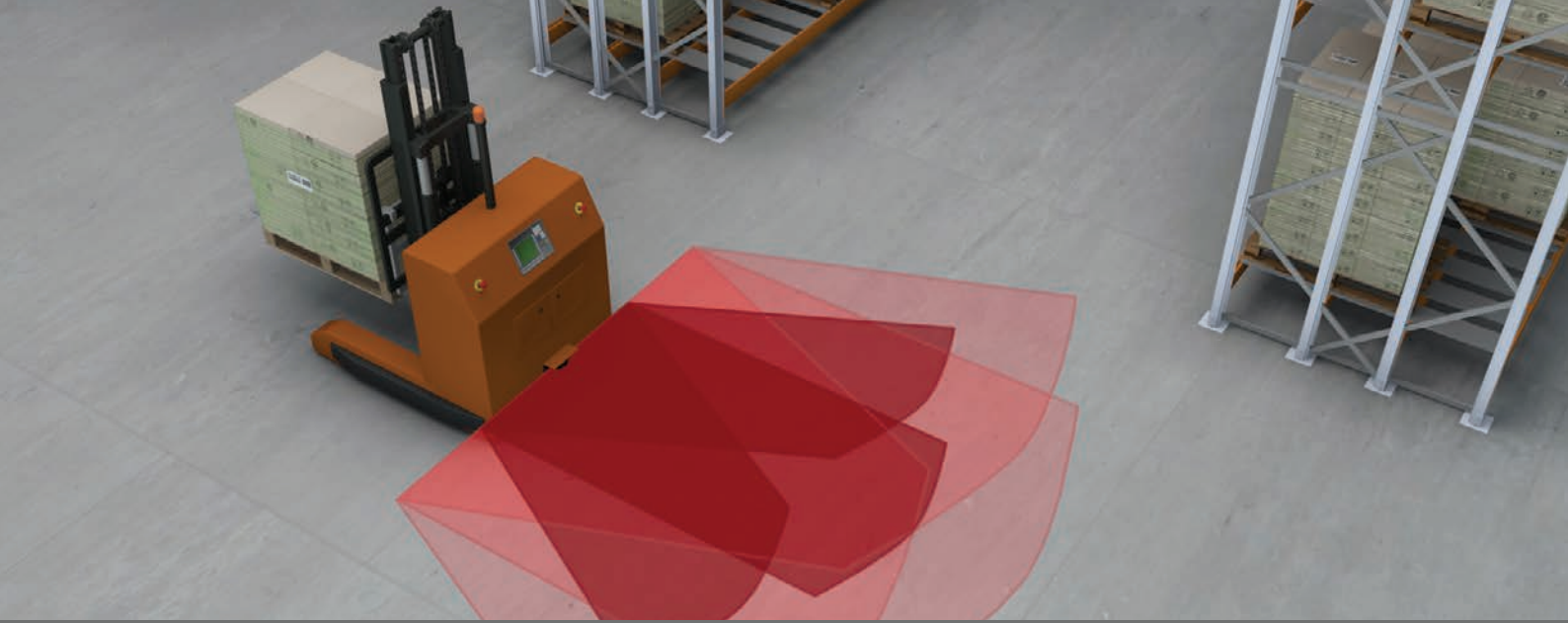
Like all POLYtij printers, the S3i comes with an extensive and unique range of inks that can print onto most porous and non porous substrates used for consumer pack materials. Recently released are the breakthrough Perfecta Limitless cartridges boasting a world first 2 month open time for thermal ink.

Thermal Inkjet Printers

Enhanced flexibility & adaptability

- 1 or 2 printheads.
- IP 65 display touchscreen.
- Covered printhead.
- Text, barcodes and logos.
- Suited for applications in food processing, cosmetics and pharmaceutical.
- POLYtij V3.0ie and NANOtij inks.
- Glass, metal and plastics.





Sensors ...

Known as 'the sensor people', Leuze is a German company that has been developing and producing world-leading sensor solutions for more than 50 years.

Switching Sensors

Used for: detection of objects or gaps

World-leading Leuze switching sensors are used to detect objects or gaps optoelectronically, ultrasonically or inductively and output a robust switching signal. The optical sensor range includes cubic and cylindrical sensors, sensors for detecting transparent media and sensors for potentially explosive areas.



Measuring Sensors

Used for: checking distances

Leuze measuring sensors are used to actively check distances, position system parts and monitor other parameters to intelligently and independently initiate actions. Within this range there are optical distance sensors, ultrasonic distance sensors, 3D sensors, light curtains for monitoring large measurement fields and measuring forked sensors.



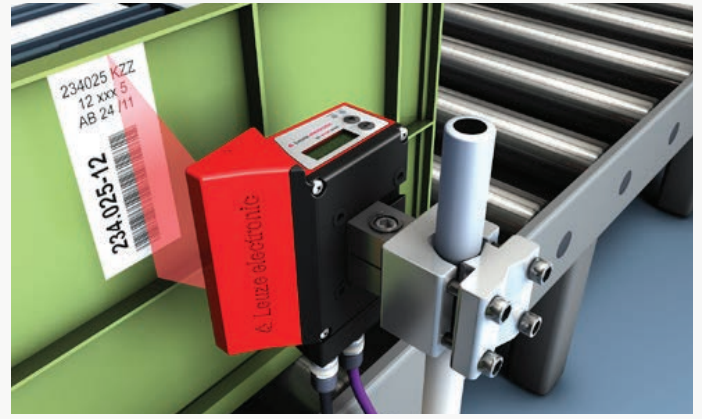
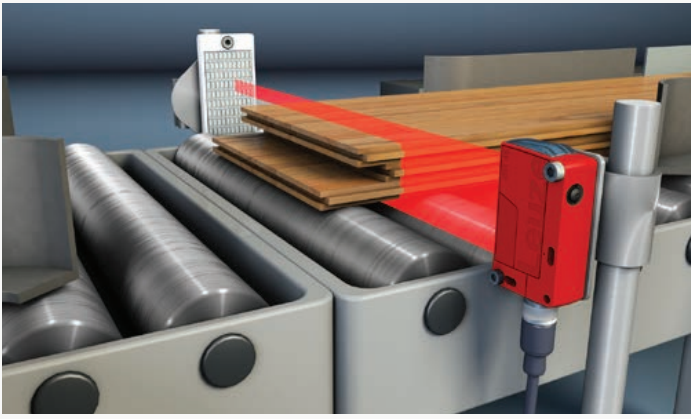


Image Processing

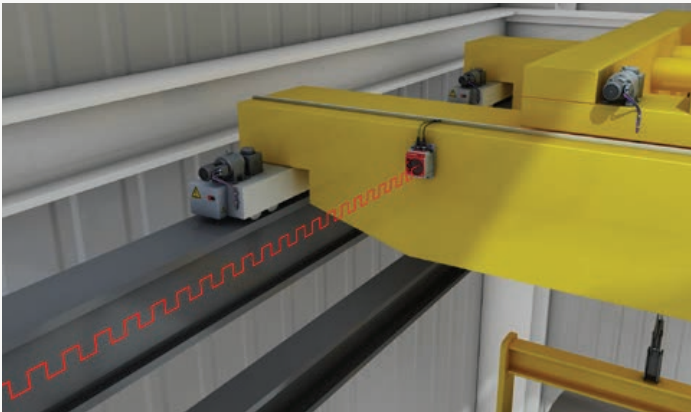
Used for: capturing visual information during manufacturing

In today's increasingly automated industrial world, the use of image processing is becoming standard practice. Leuze image capture and processing technology can help to improve the reliability and availability of your plant systems. MITech's range of Leuze image processing equipment includes low cost smart cameras, industrial IP cameras and profile sensors.

Identification

Used for: identifying products for logistics

For warehouse, 'pick and pack' stores and inventory control, easy-to-use identification systems save time, money and frustration. Leuze products use bar codes, 2D codes and RFID transponders for quick and accurate identification of items within production and logistics environments.



Data Transmission/Control

Used for: ensuring devices can communicate with each other

MITech can provide Leuze optical devices for data transmission. These devices are primarily used in plant engineering, especially in applications where industrial networks such as PROFINET, PROFIBUS, DeviceNet or Ethernet are connected to moving system components. We also provide modular connection units, safe control components and power supply units.

Safety Products

Used for: avoiding accidents at work

We offer effective Leuze personnel protection devices that help your business to comply with safety requirements. Our safety products include optoelectronic safety sensors; safe locking devices, switches and proximity sensors; and safe control components.



Moulding Technology ...

Krüger & Salecker is one of Europe's leading manufacturers of food-forming machinery and Mitech are proud to bring this amazing technology to New Zealand.

Moulding Machines for Food Manufacturing

A new product area for Mitech, Krüger & Salecker moulding machines allow New Zealand food tech companies to meet the growing consumer appetite for snacks, cereals and sweets that come in interesting shapes and sizes. Let German precision drive new product development and watch your market share increase.

Flat-Bottom Moulding Machines

State-of-the-art Krüger & Salecker flat bottom moulding machines are great for biscuits, bars and bite-size treats. Almost any type of pliable mix can be used to form products into unlimited shapes with a flat bottom.

Cereal Moulding Machines

Meet the consumer craving for innovative cereal-based products. Various types of binder agents can be used to form the cereal mix into shape without any trimming and waste. Due to a very fast changeover time, production can switch from round to rectangular items within minutes.



Figure Moulding Machines

If you can imagine it, Krüger & Salecker figure moulding machines can produce it. Tools can be changed out easily, so you can move from one 3D shape to another in a matter of minutes. Go to the market with novel products that make people smile.

Rolling Machines

Consumers love snack balls, both savoury and sweet. Krüger & Salecker rolling machines produce rotationally symmetrical food products the easy way. Each ball is a consistent size and shape.

Extruders

Uniform extruded ropes can be food products on their own, or they can become the base for further processing steps. Krüger & Salecker table-top extrusion machines are fully automatic with variable speed control and are suitable for small volume runs.

Sprinkling Systems

Krüger & Salecker rotating tables assist with the manual sprinkling of spherical toppings. The end result is more consistent and visually pleasing.



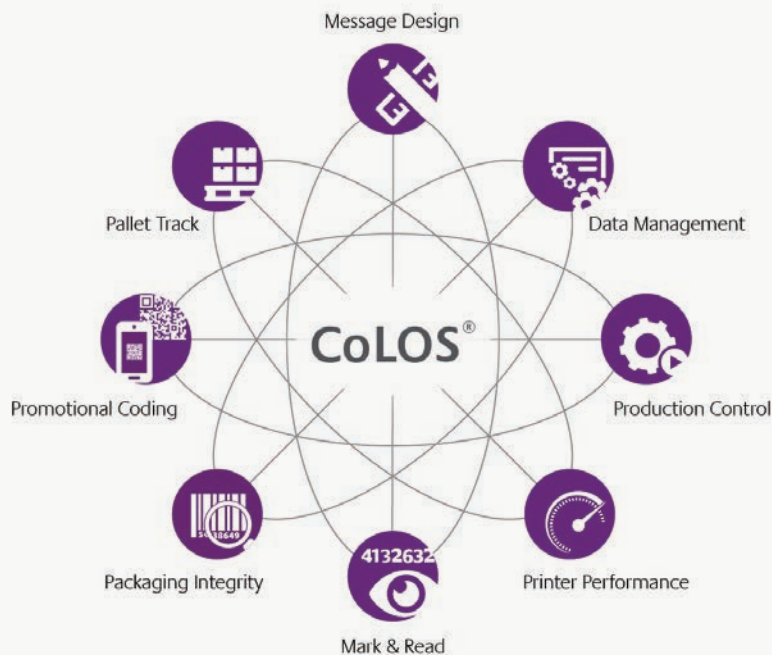
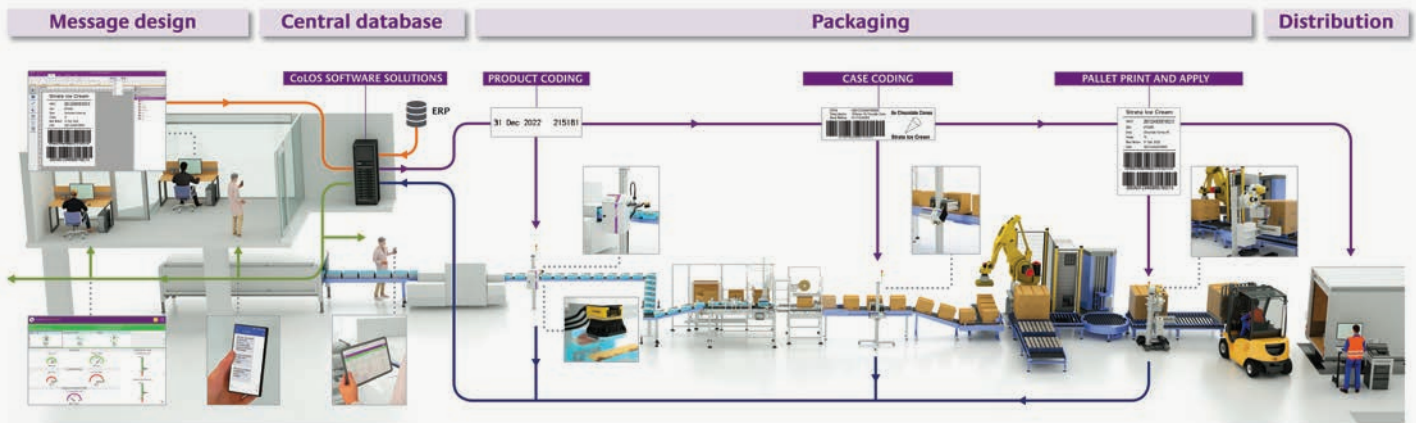
Right data. Right print. Every time.

Minimise waste, drive efficiency and achieve with CoLOS

CoLOS information management systems increase production efficiency while reducing coding and printing related waste. It also protects your brand by ensuring coding integrity and making recalls easier to execute.

Live and historical production reports are available to give enhanced visibility and insights into your coding and printing performance, quality and compliance.

You can run CoLOS from your office, shop floor or server room. Connectivity to printers, production devices and company data sources is established over Ethernet. And, a user management system ensures employees access the CoLOS interfaces most appropriate to their role and location, from desktop, tablet and mobile devices. CoLOS works within your cyber security environment and has various backup options.





Mark and Read Vision Solution ...

100% developed and supplied by Markem-imaje, powered by Cognex, exclusively offered by MITech.

Confirm Product Quality, Coding, and Packaging Integrity

Cognex machine vision supports product identification with the option of direct integration with CoLOS, the information management system from Markem-imaje. CoLOS is a scalable modular solution that reduces waste from coding and marking errors, increases line efficiency, and protects brand value by ensuring printing compliance. Cognex cameras embedded in CoLOS's mark-and-read machines confirm that every code printed is present, readable, and contains the right data. Cameras also check that pre-printed packaging materials are correct for every individual product being manufactured.

Code and packaging inspection with CoLOS supports all connected Markem-imaje printers and readily links to internal and external databases.

- Ensures codes are error-free.
- Confirms the right packaging material has been used.
- Reduces product rework and scrap.
- Detects and corrects coding and packaging errors in real time.

Select a Solution for Every Application

Entry level solution with Cognex In-Sight 2000 Series

Check your code presence or absence with Cognex In-Sight 2000 Series configurable with all print technologies.

Mid-level solution with Cognex DataMan 300 Series

Verify Optical Character Recognition (OCR) and barcodes with DataMan 300 Series for medium speed and flat surface applications, also applicable for high speed resolution.

High level solution with Cognex In-Sight 7000 Series

Verify OCR with Cognex In-Sight 7000 for high speed and curved surfaces applications and modest print resolution purposes.

About Systech ...

Revolutionising Brand Protection

- Over three decades of innovation – 23 registered patents and 57 pending worldwide.
- Serialisation pioneer trusted by the world's leading pharma companies.
- Global reach.
- Extensive partner network.
- 2000+ active lines.
- Working in 37 countries.

Key Customers



Anti-Counterfeiting

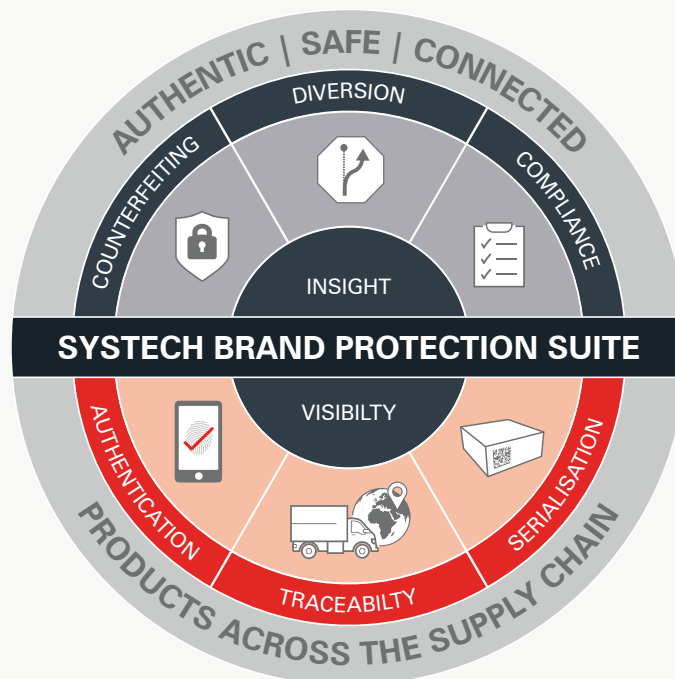
Ensure products are genuine with non additive digital authentication.

Diversion Detection

Empower brands with insight needed to quickly identify and stop diversion.

Regulatory Compliance

Help global brands meet regulatory requirements now and into the future.



Authentication

100% unique, non additive and data enriched digital identity.

Traceability

Seamless and secure data exchange enables end to end supply chain tracking.

Serialization

Full stack (level 1 – level 4), flexible, fast and proven serialization platform.

Secure the supply chain. Safeguard your customers. Protect your brand ...

How Systech UniSecure Works

Printing is dynamic. Environmental and other input factors combine to produce small-scale variations or “noise” in printed data carriers. UniSecure intelligently analyzes these random, microscopic variations to create a unique signature, or e-Fingerprint, that cannot be reverse engineered or duplicated. This digital signature is then stored in the cloud for future authentication using a mobile app at any point in the supply chain.



User Case

Problem

An international spirits company experienced a significant revenue loss from counterfeiting-related incidents. First, the company added a special cap to prevent container refilling. They also tried holograms, serialization and other technologies – a total of 11 different approaches – but were not happy with any due to flaws and costs associated with each.

Solution

The company’s head of brand protection engaged Systech. For implementation, a local label converter printed labels with the existing product barcode and processed them through UniSecure to create a unique eFingerprint for each label. Next, the labels were delivered to the client for affixing to the filled bottles – a more economical approach than labeling at the distillery. Now, company inspectors can tour regional markets with the ability to authenticate product anytime, anywhere.

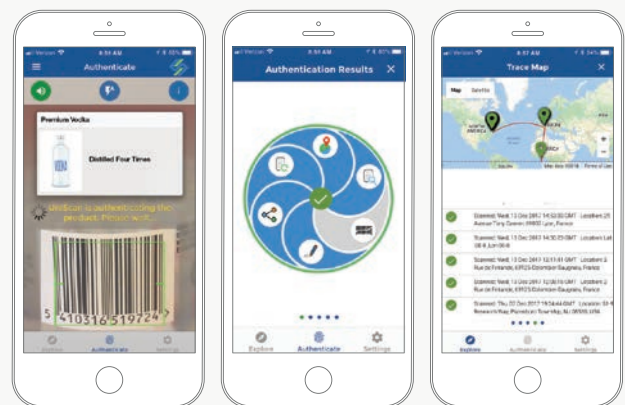
Designed for Easy & Flexible Deployment

UniSecure camera on packaging line creates e-Fingerprint

- Works with printed data carriers including QR codes and UPC, EAN and 2D Data Matrix barcodes.
- e-Fingerprints stored on secure managed cloud.

Smartphones perform authentication across the supply chain

- UniSecure mobile application available for download from AppStore and Google Play.
- Software development kit allows customization to brand specifications and process flow.



Authenticate

Results

Traceability

	UniSecure Solution	Additive Solutions
Package Changes	No	Most
Major Line Changes	No	Yes
Real-Time Authentication	Yes	Some
Non-Duplicable	Yes	No
Enables Customer Engagement	Yes	Some



Support Services ...

Every product or system we sell is backed up by a complete support service.

Training

When you first purchase marking or coding technology, MITech can provide you with a customised training programme for your operators at our place or yours. Training is generally a combination of hands-on and classroom work. Refresher training is also available.

Consumables

The ongoing reliability, superior performance and support conditions of MITech solutions require the use of genuine consumables. We can cost-effectively supply everything you need, including:

- Genuine Markem-imaje fluids that may include FDA-approved, UV-resistant, invisible, thermocromic and washable inks for various applications.
- Touch Dry® wax based inks.
- Genuine thermal transfer ribbons for Markem-imaje and Datamax-O'Neil solutions.

Engineered Solutions

At MITech we have a dedicated team of Engineers to provide a complete solution for your custom projects as well as adding that next level of skills for introducing and commissioning hardware and technologies into a new or existing production line.

The list starts with; Solid Works 3D CAD design, prototyping parts, detailed costing and project management. Automation and fabrication. Software engineering, Integration trials, and commissioning. We welcome your inquiry to discuss your development plans and projects.



Nationwide Support

With our dedicated service line 0800-MITECH (648324) we have a committed team on 24 hour call ready to help. Our experienced Service Engineers are based from our well located North Island hub to provide the timeliest response nationally including the Pacific Islands. Our aim is to minimize production downtime (and total costs) when things go wrong and our expertise is needed. Initially we can assist remotely while, following customer confirmation, we plan to reach your site safely quickly and well prepared.

Proactive Maintenance

Prevention is always better than a cure, so we recommend our experienced service team regularly maintain your MITech solution. Your maintenance programme will be customised to your needs – from a simple once-a-year onsite inspection and service to regular visits to support non-stop production.

Waste Recovery & Recycling

MITech is committed to the best sustainability practices, including recycling and waste recovery. We ensure that waste solvents, inks and cleaning solutions are efficiently recovered from your premises – a practice that helps your carbon footprint as well as ours. Waste collected from our customers is carefully sorted, then despatched for recycling. Anything that can't be recycled is disposed of in a responsible manner.





Technology Partners ...

MITech selects technology partners who can provide best-of-breed solutions, backed up by robust support and ongoing research and development.



markem•imaje

MITech is the sole New Zealand distributor for Markem-imaje technology. Markem-imaje is a world-leading designer and manufacturer of inkjet, thermal transfer, laser, print and apply label systems and RFID-based systems. Based in France, Markem-imaje has six R & D centres focused full-time on developing fully-integrated solutions that support efficient manufacturing and distribution.



MITech is the sole distributor for WITT technology in New Zealand. WITT is a global player delivering high quality gas control and gas safety equipment to more than 60 countries. The company is headquartered in Germany and has partners throughout the world.



Leuze electronic is a global success story as a technology driver with subsidiaries and a variety of distributors worldwide. MITech provides the complete product range including; bar code scanners, smart cameras, barcode positioning systems, laser measurement sensors, light curtains & Grids, laser scanners, safety PLC and safety relays switches, and industrial sensors.



Quadrel selected MITech as the only New Zealand distributor for their technology. Quadrel specialises in label application equipment, from simple table top units to sophisticated in-line systems. Based in Ohio, USA, Quadrel supplies MITech with a range of solutions from entry-level label applicators to fully automated in line application systems and shrink tubing systems.



MITech is the exclusive New Zealand distributor for POLYtij, polymer thermal ink jet technology, including the licenced HP advanced cartridge consumables. POLYtij specialise in entry level thermal inkjet solutions with a high range of functionalities and ink types to print multiple; languages, code types, date formats and resolutions.



Krüger & Salecker is one of Europe's leading manufacturers of food-forming machinery and MITech are proud to bring this amazing technology to New Zealand. From moulding and extrusion machines that form confectionery products and chocolates to cereal moulding machines that make granola bars and breakfast products, Krüger & Salecker machines are a food technologist's dream come true.



datamax•oneil
right by our customers.

MITech provides and supports the complete range of Datamax-O'Neil desktop barcode printers. Now a Honeywell company, Datamax-O'Neil have manufactured over 1 million printers worldwide. Well-known for their robust and flexible product range, featuring solid die cast alloy framing, cog driven drive system and plug and play option modularity.



Let our experience solve your challenges ...

Talk to us about what you need for compliance and optimum productivity. Our technology partnerships and years of experience will deliver solutions that are both affordable and effective for your business.



MITECH Limited
60 Cawley Street, PO Box 11-813
Ellerslie 1542, Auckland
mitech.nz
Email: askmi@mitech.co.nz
Tel: +64 9 915 5555