Cloud
Printing Solutions

Contract Packing Solutions

Modern Label Printing & Scanning Technology

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1.0 Background

Contract Packing (also known as Co-packing)

Contract packing is the primary service for re-distribution of products. Manufacturers may produce products in bulk, retailers may purchase products in bulk, then require the support of a contract packing service provider to re-pack and/or re-distribute products.

Many 3rd Party Logistics providers (3PL's) and warehousing service providers offer contract packaging, or co-packing services for their clients.

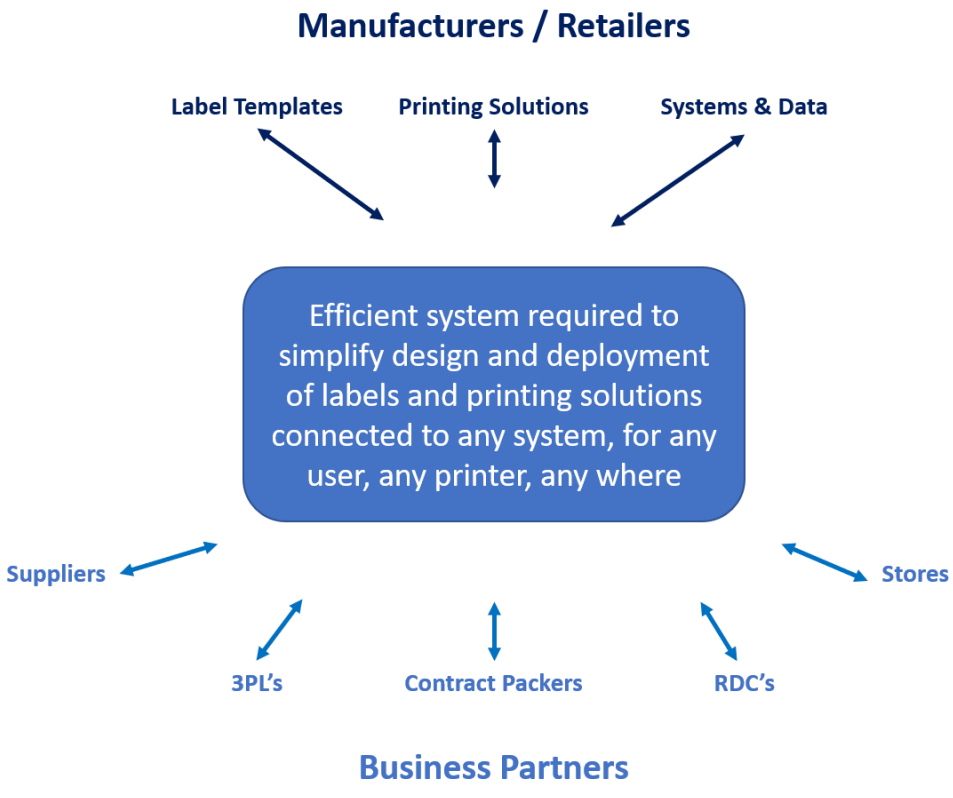
Services can range from:

- Product Staging
- Re-Configuration
- Re-Packaging
- Re-Labelling
- Compliance Labelling
    - EU Food Regulations
    - EU MDR
    - GHS
    - Others……

Contract Packing labelling solutions are used for many types of products including foods, pharmaceuticals, medical devices, household products, and industrial products. Each requires the Contract Packing service provider to have appropriate systems in place to design simple, complex of compliance label templates that integrate and print from a variety of client systems.

Manufacturers & Retailers

Manufacturers and Retailers may also need a simple way to deploy local or global labelling solutions from their own business systems to allow Co-Packing operators access to print securely from host system data.

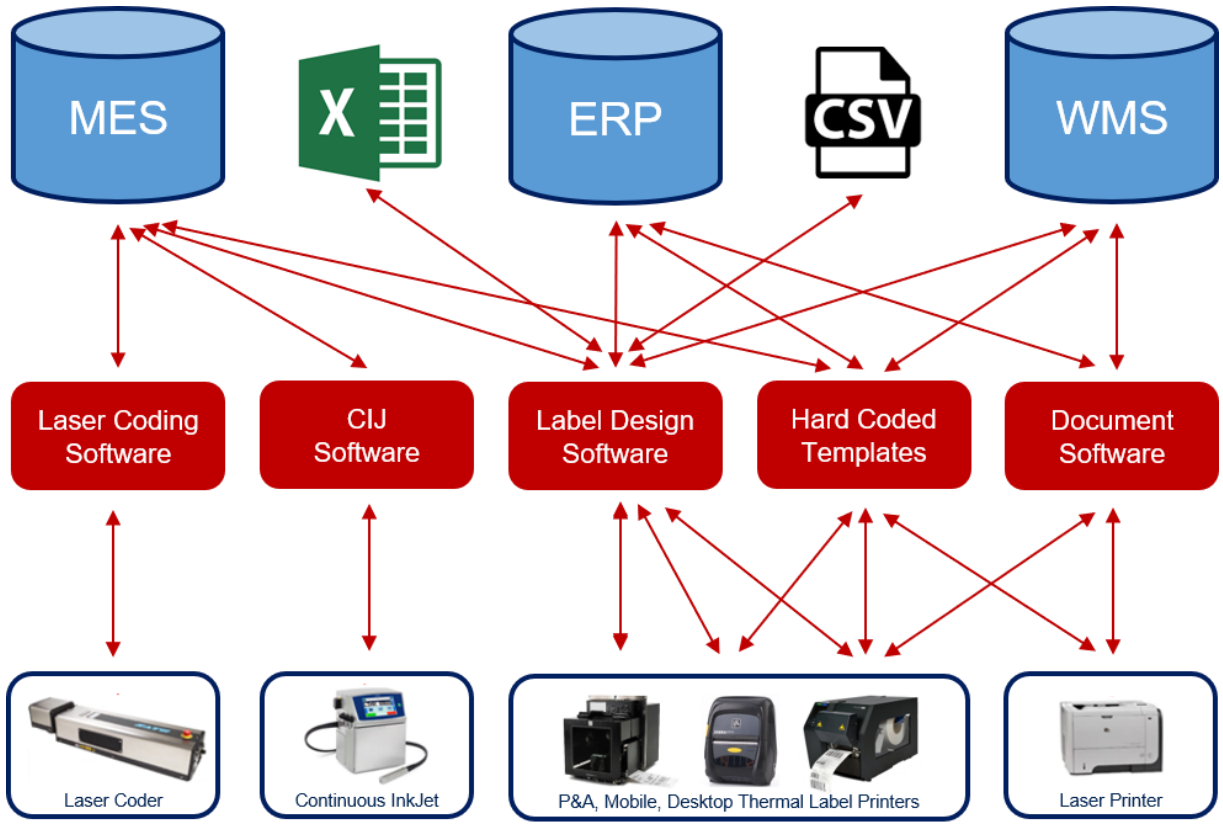


2.0 Considerations for a modern 'Contract Packing' solution

Labelling and Coding software

Contract Packing services providers must consider how to manage the endless possibilities that exist in order to provide efficient labelling and coding solutions, such as;

- Integration between client systems or data sources
- Integration to a variety of printing technologies



Printers

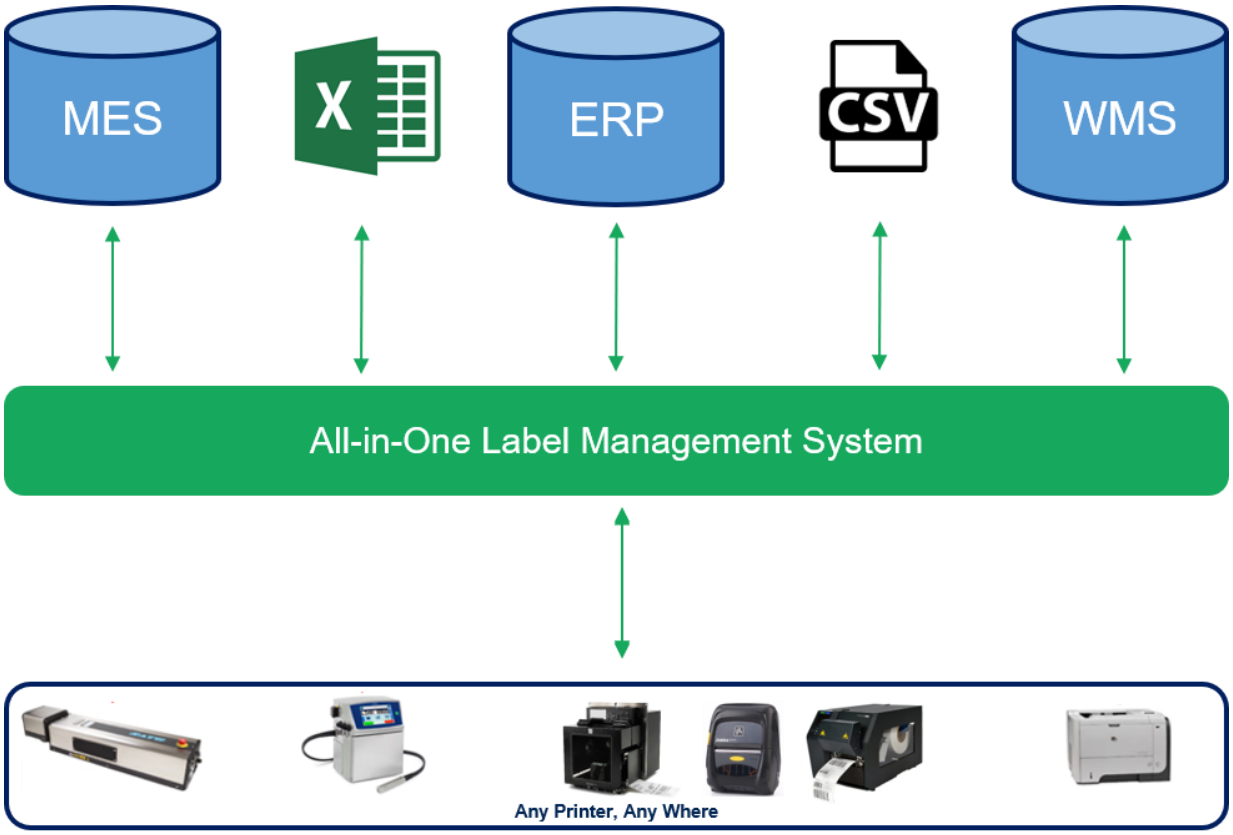
- Desktop thermal label printers are the most widely used technology for applications requiring an operator to manually print and apply labels at packing workstations.
- Laser document printers are often used alongside label printers for supporting documents such instructions for use (IFU), packing notes, delivery notes, invoices etc.
- Automated print and apply machines may be considered for high volume requirements.

Barcode Scanners

- 1D & 2D barcode scanners are now the standard product used to be compatible with all modern barcoding solutions.
- Typical installation is by USB interface, with growing demand for Bluetooth to offer greater user operational flexibility and productivity.

3.0 Label Management System (LMS)

NiceLabel's Label Management System includes a label designer, document management system, application builder, web printing system (for manual printing), integrated printing system, a non-production environment and a change and transport system. It scales from five users to thousands and can be extended to remote locations, suppliers or contract manufacturers.



The 4 Elements of the Label Management System

Document management

Manage your labelling in our document management system

Think of it as SharePoint for labelling. Design, review, approve and control labelling from a centralised database without having to install software on workstations.

Label design

Design labels with our easy to use label designer

The NiceLabel designer delivers a familiar Microsoft Word-like user experience that enables anyone to quickly design labels. It moves label design out of the IT department and into the hands of business users.

Manual printing

Deploy and manage labels centrally, print anywhere

With our web printing system, you can centrally deploy and manage all manual printing applications to multiple sites, locations and third-party suppliers, contractors and vendors with a single click.

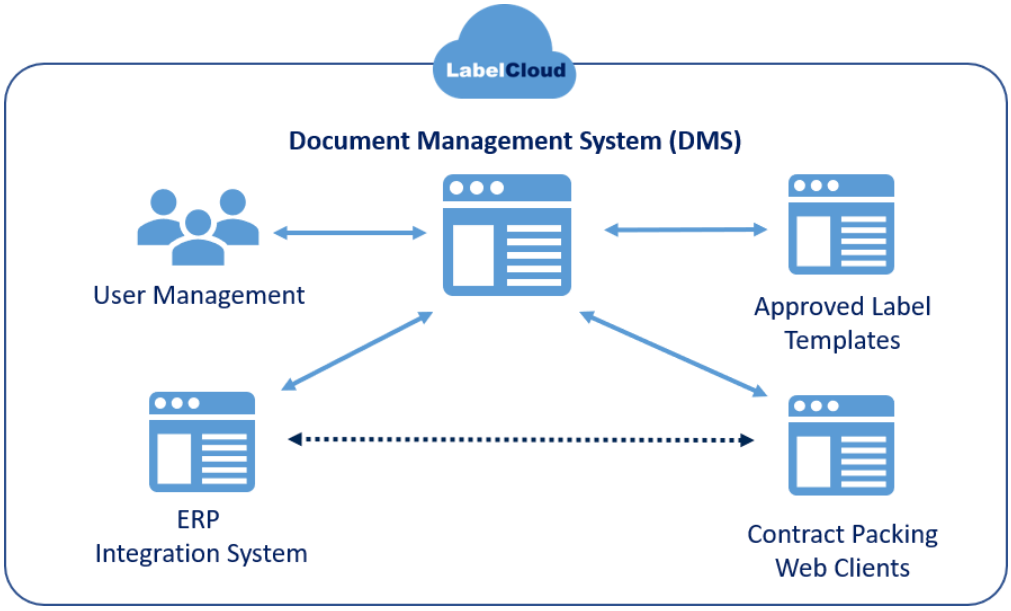
Integrated printing

Integrate label printing with your business systems

Integrate label printing with SAP or other business systems to increase label accuracy, printing efficiency and establish single source of truth for your labelling data.

4.0 Label Cloud – Subscription based LMS

Label Cloud is a web-based label management system. It is multi-tenant and hosted in the Microsoft Azure cloud. It's an of the box service that requires **no IT infrastructure, installation or IT support.**



Key Benefits of Cloud Deployment

- Quick and easy implementation
- Lower IT Costs
- Lower TCO and subscription model
- Security and high availability
- Future proof and up to date
- Global scale-ability

Label Cloud is a Software as a Service (SaaS) product supplied on a cost per printer per month subscription basis.

What are the benefits of Software as a Service (SaaS)?

Reduces IT infrastructure and maintenance costs

- No on-premise server to purchase or maintain.

Reduces IT deployment costs

- Doesn't require IT to manage and maintain thick client software solutions on each print operator workstation.
- Instant deployment of label templates and printing solutions to any local or remote operators, or business partners.

Maintain latest software version

- Label Cloud includes all software updates.

Fixed operational cost

- No (CAPEX) upfront capital expenditure required.
- Predictable and easy to budget (OPEX) operational costs.

Experienced business partner support and professional services

- We have more than 50 years combined industry expertise.
- We can design simple, complex, industry or compliance label templates.
- We can provide best practice advise in designing on-demand and integrated printing solutions.
- We can help reduce the burden and costs of learning and training new or existing operators on new software solutions.

5.0 Label Printers

Is your printer designed to fail barcode label printing applications?

Business users have for many years purchased desktop thermal label printers and print engines to print labels with barcodes, yet almost every printer supplied is effectively designed to fail barcode applications.

Fact: None of these printers can confirm a readable barcode has been printed, therefore they are equally unable to alert you when an unreadable barcode has been printed. The consequences of unreadable barcodes are significant to all size businesses using manufacturing, warehousing, logistics and point of sale/use applications.

There are multiple reasons why your existing printer will not print readable barcodes 100% of the time, such as print head failure, ribbon wrinkle, incorrect settings, media mismatch, printer wear and tear and others.

Before you select which printer to use, consider how important barcode quality control is to your business or customer requirements.

TSC
The Smarter Choice.

TSC DA200 Series – Bad Dot Detection Label Printer

Very Affordable, Reliable Direct Thermal Label

The DA210/DA220 Series is a perfect combination of affordability with a durable and reliable design. The DA200 series offers both 203 and 300 dots per inch print resolution with printing speeds up to a fast 6 inches per second. The large 60 watt power supply produces high quality printed labels, even at its fastest print speeds.

Printhead bad dot detection

Reduce the risk of unreadable barcodes. The DA210 and DA220 printer includes continuous printhead bad dot detection capability. The printhead is checked before printing and will stop the printer if a faulty printhead bad dot is detected, preventing labels with unreadable text or barcodes to be used.

TSC TX200 Series – Versatile 203/300/600dpi Label Printer

The TX200 Series of thermal transfer desktop barcode printers support more printing applications than any other printer in its class. With three models available, the four-inch-wide TX200 Series can address everything from higher volume 4x6 shipping labels, higher resolution product marking and graphic solutions, to high resolution labels used in electronics marking applications.

The TX200 Series includes an interchangeable printhead to turn 1 printer into the choice of 3 to support any application:

- TX200 – 203 dpi resolution with print speeds up to 8 inches per second
- TX300 – 300 dpi resolution with print speeds up to 6 inches per second
- TX600 – 600 dpi printer featuring precise calibration and registration required for printing the smallest labels

Printronix ODV

Printronix Auto ID's exclusive ODV (online data verification) is a barcode validation and verification technology that is integrated into our industrial thermal printers. ODV can read each barcode as it is printed, strike-out a rejected barcode and reprint a new label. Depending on the model chosen, it can verify and validate 1D or 2D barcodes, grade the labels to ISO standards and generate a report.

- Eliminate chargebacks due to refused or delayed shipments
- Analyses each barcode immediately with minimal effect on throughput
- Eliminate unscannable barcodes from entering your supply chain distribution system
- Reduce the labour costs and downtime associated with an unattended solution
- Capture and display the raw data within each barcode, to provide further assurance that critical data, such as serialized barcodes, print correctly

Printronix T6000 ODV

The Powerful T6000 is a next generation industrial, high-performance thermal barcode printer. Setting new benchmarks for speed, print quality, validation and reliability, the T6000 is engineered with the singular mission of increasing true productivity and lowering compliance fees. Loaded with advanced features, validation technology, RFID capabilities and the most comprehensive emulation package available, the T6000 delivers supercharged performance for a wide array of applications.

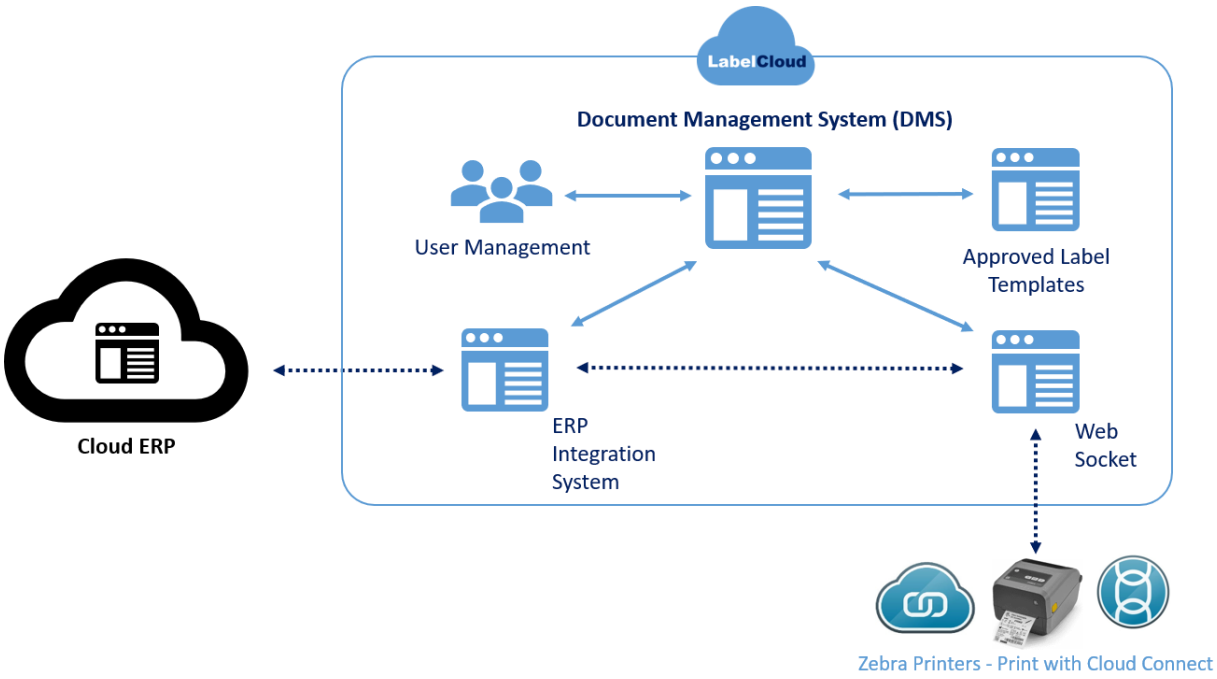
Printronix T8000 ODV2

100% quality barcodes is our mantra. Pairing the T8000 with the exclusivity of Printronix's Online Data Validator (ODV™) yields 100% scannable barcodes 100% of the time. The new Printronix HD print technology and intelligent heat management system feature 2x more variations per dot line, ultimately delivering finer resolution in heat applied output. The T8000 is the premier high-end thermal printer. With unmatched industrial performance, easy to use, and 100% verifiable output, the T8000 exceeds the requirements of the most demanding mission critical manufacturing and distribution operations.

Zebra Cloud Connect Label Printers

Cloud Connect allows Zebra Link-OS printers to interact with the Cloud, forwarding data from any port. Cloud Connect printers become an integral part of an overall Cloud strategy and an important component of your Internet of Things solution – today, or in the future.

You can connect Link-OS printers securely and directly to Cloud-based apps via standard WebSocket technology – for printer management, printing or as part of a powerful data collection platform. Reduce costs and streamline applications by using on-printer data capture technology to quickly move information from a connected scanner or input device through the printer.



Zebra Cloud Connect printers.

Desktop Printers

Industrial Printers

Mobile Printers

RFID Printers

Print & Apply Engines

6.0 Wearable Barcode Scanner

ProGlove Wearable Barcode Scanner

ProGlove Mark2

Wearable barcode scanning solutions

Transform from handheld to smart, wearable barcode scanners with ProGlove. ProGlove solutions connect the worker with the IIoT and provide management tools to supply the required data where it is needed on site. This allows for greater efficiency, flexibility, and quality.

THE NEW MARK 2 WITH BLUETOOTH AND EXTENDED SCAN RANGE

MARK 2 is an expression of our customer-centric design approach. This state-of-the-art smart wearable connects the human workforce to the IIoT, giving them a decisive edge by strengthening their role in the digitized Industry 4.0. This leads to greater efficiency, flexibility, and quality.

MARK 2 can be connected to a variety of devices such as tablets, smartwatches or wearable terminals via Bluetooth Low Energy (BLE). Additionally, the module offers an extended scan range of up to 150 cm. This makes it an ideal choice for picking, palletizing or working at packing stations. Because of the adjustable feedback options including acoustic signals, vibration and LEDs on the back of the hand – users no longer must constantly check process steps on a control monitor. Other benefits of MARK 2 include:

- Optimized for high frequency scanning
- Extended battery life of up to 15 hours

Applications

- Assembly
- Staging
- Picking
- Packing

Industries

- Automotive
- Aviation
- Logistics
- Manufacturing
- Retail

Wearable accessories

Standard Glove

- For areas with lower-level protection requirements for gloves
- Small parts, high bay warehouse picking, tugger trains, etc.

Index Trigger Glove

- For environments without risk of injury
- Wearable both with a free hand as well as in combination with different glove types

Access Point

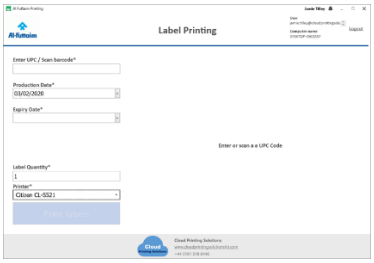
The Access Point receives data from the barcodes scanned by the MARK scanner. This is connected to the PC, IPS, terminal or tablet via USB or RS232 cable.

Charging Station

The Charging Station can be used to charge two MARK scanners simultaneously. Full load cycle of a MARK scanner takes less than 2 hours. The charging station is powered by a USB power supply.

7.0 Workstation configurations

On-demand labelling and scanning – Direct thermal labels with bad dot detection

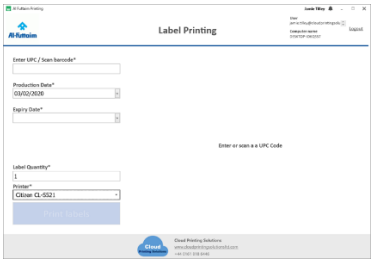


Label Cloud printing form

TSC DA200 Series Label Printer

ProGlove Wearable Scanner

On-demand labelling and scanning – 203/300/600dpi, Direct Thermal / Thermal Transfer labels

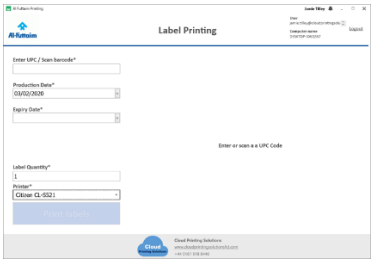


Label Cloud printing form

TX200 Series Label Printer

ProGlove Wearable Scanner

On-demand labelling and scanning – Barcode Quality / Compliance Labels

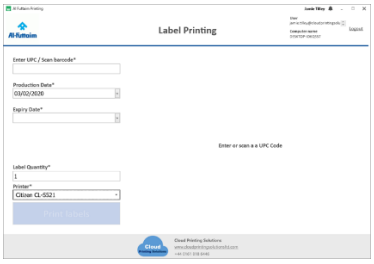


Label Cloud printing form

ODV Printer

ProGlove Wearable Scanner

On-demand labelling and scanning – Cloud Connect / IoT Printing



Label Cloud printing form

Zebra Link-OS Printers

ProGlove Wearable Scanner

For further information

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