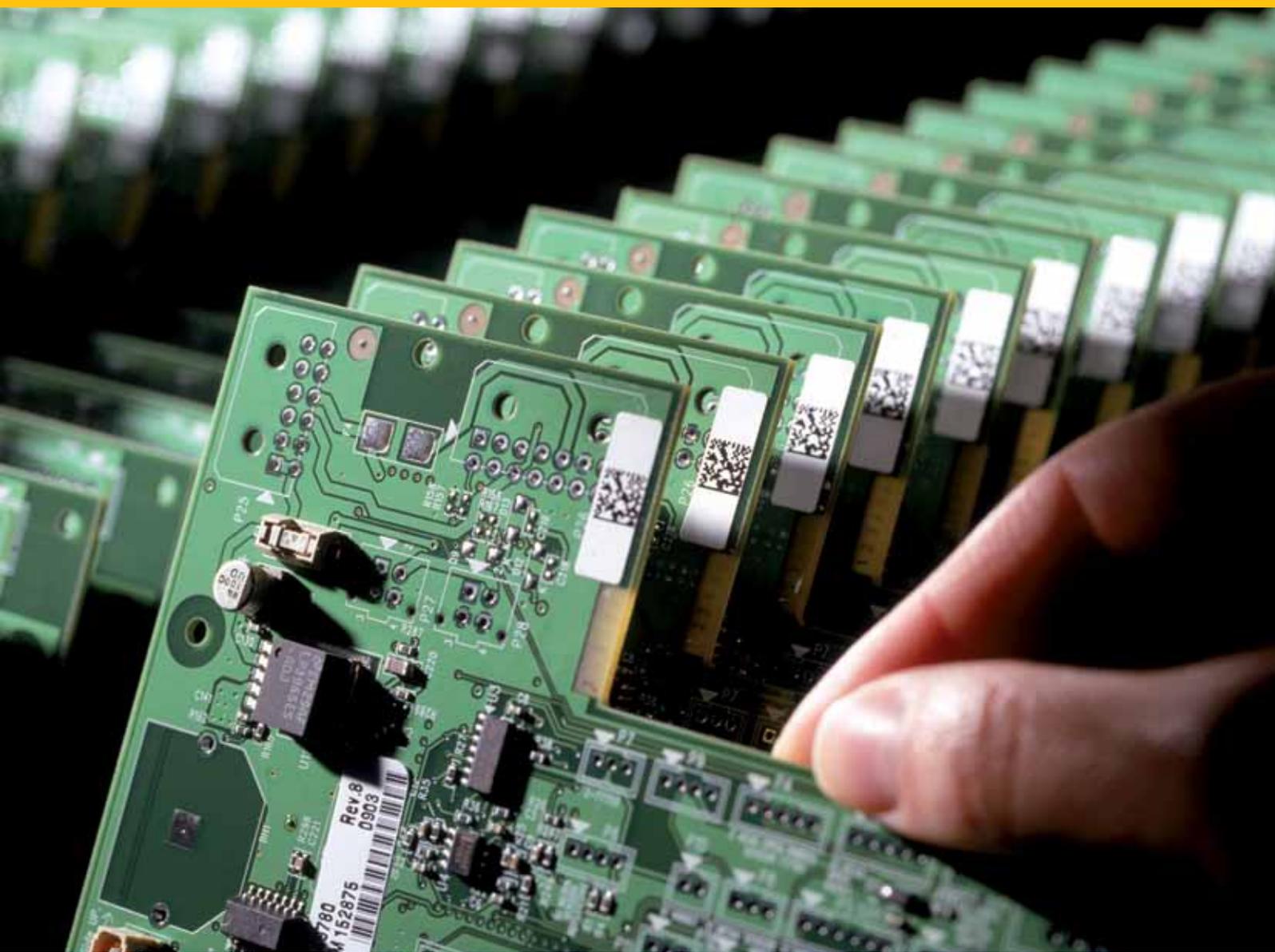


MANUFACTURING

ZEBRA® PRINTING SOLUTIONS



SEE MORE. DO MORE.

Smart solutions for improving manufacturing operations

Thousands of companies worldwide use Zebra Technologies' printers for mission-critical reliability and quality demanded by world-class manufacturers. Zebra's broad and versatile range of printers helps manufacturers improve their production process with bar-code and RFID technologies.

Whether you need to track materials through your facility or through your supply chain, Zebra has the solution to provide accurate, end-to-end identification. Our printers and labels stand up to the extreme temperatures, moisture, chemicals, shock and vibration found in industrial environments.



"We switched to Zebra printers five years ago and since then we have never had a problem. The printers work first time, every time."

Jimmy Collins
Warehouse Supervisor
Fujitsu Services
United Kingdom

Zebra leads the market in providing products, solutions and expertise for modern manufacturers, with business-improvement technologies that help reduce cost.

Secure wireless printing

The wireless capability in Zebra printers means you no longer have to locate your printers beside a network point, enabling greater flexibility for your printing needs. Zebra printers support 802.11b/g wireless networks and a wide range of security standards and protocols. ZebraNet™ Bridge Enterprise allows remote management and monitoring of wireless printers.



P4T™ mobile printer

Mobile printers

Zebra offers not only mobile direct-thermal label printers but also a mobile thermal-transfer "wearable" printer. This means that your workforce can be truly mobile within your facility, printing durable synthetic labels anywhere using secure wireless connectivity.

RFID smart labels

Zebra's radio frequency identification (RFID) printer/encoders help you implement instant, measurable improvements in operating efficiency, accuracy and supply-chain visibility. You can digitally encode error-free data in an RFID tag (smart label), then wirelessly transmit that data to an RFID reader – even in harsh environments. RFID is ideal for applications where you have non-line-of-sight, need to read multiple items quickly or need the ability to write data back to the label. Zebra's family of RFID printers, *Xi*™ series and *PAX*™ series (print/apply) is ideal for mission-critical printing and encoding. Zebra also offers the world's first wearable printer encoder (RP4T™).



110Xi4™ printer

World-class manufacturers use world-class label printers

Mission-critical printing

Manufacturers require 24/7 on-demand printing to keep production lines running continuously. Zebra delivers unrivalled quality and dependability with its *Xi* series high-performance printers. These printers are suitable for most manufacturing applications in any environment, and print labels for anything from circuit boards to large chemical drums.

Unattended printing

Zebra offers the *PAX* print engine for automated print-and-apply systems. Delivering the same mission-critical reliability and performance as the *Xi* Series range, this range is ideal for automated high-volume carton, case, pallet and product identification labelling.

Industrial printers

Zebra also offers an economical and rugged range of printers to meet the demands of manufacturers in less harsh environments, still delivering its trademark reliability and quality.

These include the all-metal 105SL™, and the rugged ZM400™ and ZM600™ printers. For lower-volume applications, the S4M™ printer offers outstanding value.



Industrial printers – ZM400/ZM600



S4M printer



Unattended printing
– 170PAX4™/110PAX4™ printers



Mission-critical printers – *Xi* series



105SL printer

Typical labelling applications within manufacturing

Zebra printers are used across industries including electronics, pharmaceuticals, automotive, food, aerospace, FMCG, chemical, steel, timber and many more. Although these industries are varied they share common processes, such as receiving raw materials, materials management, work in progress, asset-tracking and compliance labelling. Each industry also has its own specific requirements (such as "rating plates" within the electronics industry). Common industry applications include:

Electronics

- Top-/bottom-side circuit board labels
- Product identification & UL/CSA compliance labels
- Serial plate labels
- Composite sets (various labels as one set)

Automotive

- Odette and GM 1724 compliance labels
- Parts labelling
- Vehicle identification number (VIN) plates
- Under-bonnet labelling

Aerospace

- SPEC 2000 parts identification labels
- Asset management labels

Pharmaceuticals

- Drug bottle labels
- Packet labelling
- Surgical tools and equipment
- Diagnostic kits

Heavy industry

- Tagging hot metals e.g. steel
- Chemical drum- and chemical product labels
- Paper and textile labels
- Timber/forestry tagging

Food

- EU 178/2002 product and ingredient compliance labelling
- Food-temperature tracking
- Batch identification
- Sell by/use by dates



Supplies for manufacturing



Genuine Zebra supplies

The key to quality printing solutions is to match the right printer with the right supplies. Zebra's proven and tested supplies guarantee maximum print quality and ensure extended printhead life. Zebra offers a complete range of paper and synthetic labels, along with ribbon, for any manufacturing application.



Electronics

As well as offering paper labels and card for applications such as shipping and WIP, Zebra manufactures custom speciality synthetic labels. We can supply your custom label needs and meet your specifications and regulatory requirements. We understand that synthetic labels are classified as a component of your product, not just a label. We can also provide tamper-evident material to help you protect your warranty.

PCB labels

Zebra offers polyimide labels and matched ribbons for the identification and tracking of PCBs as they go through the manufacturing process (including wave flow solder). These labels tend to be small so Zebra offers 600dpi printheads on its 110Xi4 and ZM400 printers.

Product identification labels

Zebra offers a complete range of thermal-transfer synthetic materials that are widely used in product-identification labels that have serial-number information and UL/CSA regulatory content. These are used on everything from PCs to white goods and mobile phones.

On electrical products, labels with UL and CSA logos are often required and only specific label supplies tested by UL or CSA organisations are approved. Zebra is one of only a few global label converters that can offer many UL-/CSA-pre-approved label and ribbon combinations. For small text and high-resolution graphics we recommend 600dpi printheads available on our 110Xi4 and ZM400 printers.

Automotive labels

Zebra is geared towards supplying everything from Odette and VIN labels to under-bonnet labels. Our speciality synthetic supplies and matched ribbons have been designed to withstand fluctuating high and low operating temperatures and typical substances that can invade an engine compartment, such as grease, grit, oil, salt, car-wash detergents and waxes. Zebra's Xi series printers are ideal for such applications.

High temperature resistant labels for heavy industry

Zebra provides speciality synthetic solutions for applications such as the labelling of chemical drums (HAZMAT) to the labelling and tagging of timber and steel. Zebra's special tags for the steel industry can withstand temperatures up to 200°C for short-term exposure.

Integration with manufacturing software packages



SAP® compatibility

Zebra Programming Language (ZPL®) is the only native bar-code-printing language supported by mySAP™ Business Suite (SmartForms), ensuring that integration with a Zebra printer is faster, easier and ultimately more cost-effective than with any other printer. As a long-time SAP-certified software partner, Zebra has worked hard to produce a variety of practical and relevant printing options for SAP customers, and today is supported by:

- SAPscript (requires ZebraDesigner™ label design software for use with the SAP Business Suite family of business applications)
- SmartForms
- SAP Interactive forms



"Zebra printers are robust, reliable and easy to integrate with SAP."

Henrik Joker Trachsel
SAP Consultant
Danisco
Denmark



Oracle® compatibility

Zebra printers have seamless integration with Oracle BI Publisher via Zebra's Enterprise Connector Solution. This allows customers to quickly design label formats in a GUI environment and upload them to the Oracle-server-based Enterprise Connector environment.



Unicode – international manufacturers need international languages

In the ever-expanding global marketplace, many manufacturers now require the ability to print character sets outside the standard Western alphabets, such as Polish, Greek, Turkish, Hebrew and Arabic. Typically, bar-code-label printers require reproduction of these characters as large graphics files, affecting performance. Zebra printers are Unicode™-compliant, allowing printing of international characters with maximum performance straight out of the box*.

*Asia-Pacific fonts require the factory-fitted 64MB onboard flash option and the Andale® WorldType® font option.



ZebraNet Bridge maximises uptime and reduces total cost of ownership

Leveraging the power of ZebraLink™, ZebraNet Bridge Enterprise allows IT staff to deploy, manage and monitor Zebra printers centrally from a single PC screen anywhere on your global network. Installation and configuration is fast straight out of the box, and management is quick and simple with drag- and-drop functionality and wizard assistance. ZebraNet Bridge delivers reduced IT administrative time, reduced costs and more printer uptime.

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