Labeling Solutions for Manufacturing

brother®
at your side

BROTHER MOBILE SOLUTIONS, INC.

Challenges in Manufacturing Operations

Large-volume manufacturers have more predictable production runs and typically produce thousands of the same item at a time. This scale of operations allows them to have systems and staffing in place to economically generate, or order and manage, large quantities of serialized and / or barcoded labels linked to ERP or MRP systems.

Many small- to mid-sized manufacturing operations, which include short-run job shops, contract and custom manufacturers, often produce smaller quantities of products and face labeling logistics and procurement challenges outside of an ERP or MRP management system. These can be as varied as manufacturing high-value but low-volume products, a short production run for specific OEM customers, or even custom-tooled machine parts. In these examples a production run may be as small as one or two pieces or range up to a few hundred pieces. Even with these smaller volumes, the need for serialized and / or barcoded labels for tracking through a manufacturing process is virtually the same as it is for higher-volume manufacturers. For these manufacturers, there is substantial risk purchasing large minimum quantities of serialized and / or barcoded labels, and replacing pre-printed labels are expensive and difficult to manage. In addition, the practice of procuring serialized pre-printed labels is fading with the implementation of lean or just-in-time manufacturing practices.

Like their larger peers, the working environments of these small- and mid-sized manufacturers can include exposure to harsh conditions with extreme temperatures, abrasion, pressure washing, chemicals, solvents, grease and other machine lubricants used in the manufacturing, testing and calibration processes. While there are many commercial sources for custom / pre-printed labels that can tolerate these conditions, the need for high-durability labels that are printed on-demand is becoming just as strong for the small- to medium-sized manufacturer.

Brother™ offers a wide range of manufacturing labeling solutions that can be integrated into existing manufacturing processes or developed into application-specific standalone solutions. There are low-cost PC-connectable desktop and handheld models that produce durable laminated labels on-demand with barcodes, text, graphics and time & date information. There are other PC-connectable desktop models that print low-cost paper labels. Both solutions include easy-to-use software for designing labels, generating barcodes and integrating with common databases and third party software applications.

Manufacturing Solutions

P-touch®

On-demand labeling solutions for small- and mid-sized manufacturing operations

So, no matter how a small- to medium-sized business is expanding to meet diverse demand or implementing lean manufacturing processes, Brother™ desktop and handheld on-demand barcode labeling solutions can provide the flexibility to meet a wide range of challenges within these operations for identifying and tracking items from the time sourced components arrive at the plant, to the time finished goods hit the shipping dock.

With on-demand generation of durable laminated labels with serialization and barcodes, small and diverse quantities of items can be accurately and economically labeled. The labels last, remain affixed and clearly readable even when subjected to harsh manufacturing environments.

In the parts area, labeling sourced components and shelves, bin boxes, and tool cribs can help speed pick operations and make periodic inventory checks go faster and more accurately. On the production line, the ability to produce serialized barcode labels as needed – in a variety of sizes and colors – can take place in-line as part of the process, where labels can also be generated from manufacturing tools and test equipment without a PC, for greater versatility and efficiency. In the testing, calibration and Q&A processes, durable labels can be produced to permanently record results, settings, and instructions. In overall plant management, maintenance and repair operations, the same on-demand labeling solutions can help enhance performance and safety, by producing clearly readable printed labels for marking control panels, switches, wiring and cabling, connections, instructions and safety warnings.

With these low-cost, easy-to-use solutions, sourcing issues are minimized because the correct labels are generated as needed, with on-demand serialization and barcodes, rather than relying on maintaining costly inventories of pre-printed labels that may miss the mark in terms of potentially having the wrong pre-printed label on hand for the product being manufactured. Changing label needs are also better addressed, since label sizes and widths can be switched as easily as swapping out an interchangeable tape cartridge for another in seconds. Efficiency can be boosted since several of the desktop label printers can be connected directly to scanners and weigh scales to generate appropriate serialized and barcode labels without a PC precisely when needed – one, a few or hundreds at a time. One of the handheld labelers also features the ability to download and store data from spreadsheets and many common databases to generate barcode and serialized labels from those sources practically anywhere.

The PT-9700PC and PT-9800PCN (with Ethernet network interface), as well as the P-touch EDGE® Series of handheld labelers, produce durable laminated labels in a variety of sizes and colors – where text, graphics and barcodes are protected under a clear, UV-resistant laminate layer – ideal for harsh environments.

These labels withstand extreme temperatures (from -80 degrees C to 100 degrees C), high-pressure steam, grease and lubricants, abrasion, grit, grime and even many industrial solvents. The labels remain affixed and clearly readable for a long time. This means manufacturing operations can confidently label components as early and often as needed during the production, calibration and testing processes and expect the labels to remain affixed, readable and scannable from beginning to end.

While the PT-9700PC and PT-9800PCN are compatible with many manufacturing software applications, full-featured PT- Editor software is also included with each of these models, and with the PC-connectable PT-7600 handheld labeler.

PT-Editor includes a wide range of industrial symbols and industry-standard barcode symbologies and offers a full set of design tools to craft labels that function much better than commercial pre-printed labels. This software makes it easy to add text, import graphics, and print linear and 2D barcodes on demand. PT-Editor can link to and print labels using data from a CSV file, Microsoft® Excel® spreadsheet, or Microsoft® Access® and SQL Server® database. PT-Editor can also be used to create custom templates (with a database) that can be downloaded into certain portable and desktop label printers to print labels without a computer using text data from a keyboard, barcode scanner, tester or other standalone device.

Brother™ labeling solutions for manufacturing provide on-demand, efficient, and cost-effective labeling alternatives for:

- **Work in progress labeling**
- **Harsh environment parts and component tracking**
- **Quality-control labeling**
- **Packing and shipping labeling**
- **Lab and test facilities**
- **Warehouse shelf and pallet labeling**
- **Durable warning and instruction labeling**
- **Maintenance and repair operations**

Brother™ PT-9700PC & PT-9800PCN benefits:

Produce durable laminated labels for harsh environments on demand

Print labels that can withstand practically any challenging environment – from harsh boiling to freezing, high-pressure wash, steam, water, grease and other lubricants, industrial solvents like acetone and more – and remain affixed and clearly readable for a long time. There's no need to order and inventory custom pre-printed labels anymore.

Includes label-design software

While these models are compatible with many manufacturing software applications, full-featured PT-Editor software is included to easily create your own label designs, print linear and 2D barcodes, link to many common database types and more.

Minimize waste and inefficiency of pre-printed labels

Since labels are printed as needed – with barcodes, graphics and serialization – there's no need to maintain costly inventories of pre-printed labels. Plus, tape cartridges are readily available if you run out – so there's no lengthy interruption in the supply chain waiting to replenish custom-printed labels.

Print high-resolution labels fast

Select HG tapes and print 360 dpi resolution at up to 3.1ips with the PT-9700PC and PT-9800PCN, perfect for producing barcode labels with the highest level of scan integrity.
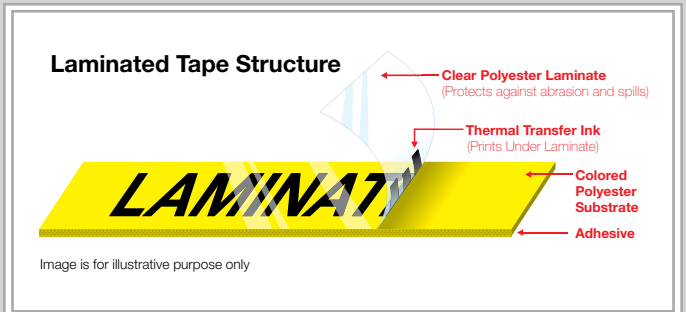
Produce labels with or without a PC

Labels can be generated from PCs using the included software, or with many manufacturing software applications; these label printers can also be connected directly to test equipment, barcode scanners, weigh scales and other devices to print without a PC.

Drop-in tape cartridges make changing supplies fast and easy

Interchangeable tape cartridges allow you to change tape sizes, colors and adhesive types in seconds – speeding production changeovers.

A variety of tapes are available for the challenges of manufacturing

There are specialty laminated tapes available in a variety of widths, colors and adhesive types, including Standard adhesive tapes for flat smooth surfaces; Flexible ID tapes for wrapping and flagging wires and cables; Extra-strength adhesive tapes for plastics and textured surfaces; and Tamper-evident tapes that leave a tell-tale permanent mark if removed or disturbed. And because tapes are interchangeable, there's less waste and lost time trying to maintain inventory.

Laminated Tape Structure

Clear Polyester Laminate
(Protects against abrasion and spills)

Thermal Transfer Ink
(Prints Under Laminate)

Colored Polyester Substrate

Adhesive

LAMINAT

Image is for illustrative purpose only

ManufacturingSolutions

About the PT-9700PC and PT-9800PCN printers

PT-9700PC
- Complete barcode software and laminated label printing solution
- Prints high-quality, extremely durable laminated thermal transfer labels
- Compatible with Windows® OS computers, including Windows® 7
- Drop-in tape cartridge design helps make media replacement simple and trouble free
- Includes PT-Editor 5 professional barcode and label design/print software application
- Prints high quality 360 dpi text, graphics and barcodes
- Fast, host based printing – up to 3.1 ips*
- Reliable built-in automatic cutter
- USB 2.0 and RS-232C serial interface connectivity
- Attractive, small-footprint printer design

PT-9800PCN
All the features of the PT-9700PC, plus:
- 10/100 Base TX Ethernet, USB 2.0 (host and peripheral) and RS-232C serial interface connectivity

HG tape required.

Genuine Brother™ Supplies:

HG/HGe tape is a new tape designed for commercial and industrial labeling applications, specifically for the model PT-9700PC (or PT-9800PCN) to print laminated labels up to 8 times faster than any current P-touch® label printer.

	6mm (0.23in)	9mm (0.35in)	12mm (0.47in)	18mm (0.7in)	24mm (0.94in)	36mm (1.4in)
HGe Extra-Strength Adhesive Tapes - 5 piece bulk packaging, designed for use on plastics, textured and hard to stick surfaces						
BLACK ON WHITE	HGeS2115PK	HGeS2215PK	HGeS2315PK	HGeS2415PK	HGeS2515PK	HGeS2615PK
BLACK ON YELLOW		HGeS6215PK	HGeS6315PK	HGeS6415PK	HGeS6515PK	HGeS6615PK
BLACK ON MATTE SILVER				HGeS9415PK	HGeS9515PK	HGeS9615PK
BLACK ON CLEAR	HGeS1215PK	HGeS1315PK	HGeS1415PK	HGeS1515PK		
HG Standard Adhesive Tapes - 5 piece bulk packaging, designed for use on smooth and flat surfaces						
BLACK ON WHITE		HG2215PK	HG2315PK	HG2415PK	HG2515PK	
BLACK ON YELLOW				HG6415PK	HG6515PK	
BLACK ON MATTE SILVER				HGM9415PK	HGM9515PK	
BLACK ON CLEAR				HG1415PK	HG1515PK	

Contact us for more available HG tape colors and sizes

TZe tapes feature the same laminated structure and durability of HG tapes, but without the faster print speeds and higher resolution of up to 360 x 720 dpi offered by HG tapes. TZe tapes are compatible with the PT-9700PC and PT-9800PCN, as well as all other P-touch® TZ and TZe compatible labelers.

	6mm (0.23in)	9mm (0.35in)	12mm (0.47in)	18mm (0.7in)	24mm (0.94in)	36mm (1.4in)
Flexible ID Tapes- Individual packaged tapes designed for wrapping around and adhesive-to-adhesive flag labels						
BLACK ON WHITE			TZeFX231	TZeFX241	TZeFX251	TZeFX261
BLACK ON YELLOW			TZeFX631		TZeFX651	
Tamper Evident Tapes - Individual packaged tape designed to reveal a security pattern when the label is removed or disturbed						
BLACK ON WHITE					TZeSE4	

All tapes are 8m (26.2 ft) long

Need to generate durable, laminated labels on site for indoor and outdoor installations?

Then consider P-touch EDGE® industrial handheld labeling solutions from Brother™.

These rugged handheld labelers produce labels that withstand extreme conditions indoors and outdoors – as well as abrasion, fading, grease, grime and common commercial solvents and cleaners – and remain affixed and clearly readable for a long time. So you can make labels you can rely on anytime, anywhere with text, industrial symbols and barcodes, in label widths from 6mm (0.23") up to 24mm (0.94"), and in a wide variety of colors and standard or specialty adhesives to meet almost any labeling challenge.

Interchangeable tape cassettes allow you to change colors, sizes and adhesive types in seconds.

Need wide, low cost paper labels with serialization and barcodes for inspection stickers?

Then consider the TD-4000 and TD-4100N (with Ethernet network interface) desktop barcode label printers from Brother™. These models provide a complete desktop barcode label printing solution that includes the label printer with built-in auto cutter, label design software, and label media, and are ideal for printing large inspection and other quality control labels on demand. They can be connected to a PC, or can print directly from test equipment, scanners, weigh scales and other devices without a PC.

They use reliable, and cost-effective direct thermal printing technology to quickly produce low-cost presized and continuous-length paper labels up to 4" wide with high-resolution text, graphics and barcodes using no inks or toners – the only consumable is Brother™ label stock on convenient drop-in rolls. So changing supplies is simple and fast.

BROTHER MOBILE SOLUTIONS, INC.

For more information
call 1-800-543-6144, or visit www.brothermobilesolutions.com

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