MB241 Series

Industrial Label Printer

Rugged Space-Saver for Heavy Duty, Diverse Printing

The MB241 boasts a bifold media door, cutting operational space requirements by 24%. Its all-metal print mechanism guarantees durability in high-volume printing. The MB241 Series handles special media types like harder and thicker hangtags and is available with a wide range of optional accessories to support diverse applications. These accessories include linerless, peel-off and RFID upgrade kits, an internal rewinder, and a cutter designed to enhance functionality and meet dynamic business demands.

The printer capabilities are designed with auto-switching emulation for hassle-free deployment. TSC Standalone Creator generates a printer LCD UI for quick template access, while TSCPRTGo acts as an extended display for mobile printing. SOTI Connect, TSC Console, and the Internal Embedded Webpage enable remote fleet management.

The eco-friendly MB241 printer boasts 100% recyclable packaging and printer casing, with over 90% recyclable components, minimizing its environmental impact. It's ideal for limited space and excels in print quality and versatility, making it an outstanding choice for various printing needs.

Key Features

Optimized Space Efficiency

- The bifold door reduces space usage by 24%, streamlining media, ribbon replacement, and cleaning for efficient operations in limited space.

High-Quality Printing Assurance

- A robust all-metal print mechanism on a metal frame guarantees printing stability and printer longevity.
- Equipped with features to adjust the multi-point thermal printhead (TPH) pressure and heat line, it ensures consistent, high-quality printing.

Fits Diverse Applications Requirements

- Options: a cutter, an internal rewinder, and peel-off, linerless and RFID upgrade kits enhance printer versatility and cater to diverse needs.
- Connectivity options like MFi Bluetooth 5.0, Wi-Fi Bluetooth combo, and Bluetooth 5.0 offer flexibility for diverse applications.
- RFID functionality: Encode During Print feature for enhanced efficiency, support for diverse tags (including on-metal tags up to 1.65 mm) verified by our Validation Lab, and auto calibration for easy setup.

TSC Sense Care Smart Monitoring

- TSC Sense Care prevents downtime by monitoring printhead health with self-diagnostic TPH Care, printhead mileage, and cutter counts.
- Collected data can integrate with SOTI Connect and TSC Console for remote management and reporting.

Software Capabilities Harmonize Operations

- Auto-switch printer language emulation simplifies printer fleet migration and upgrades without changing print commands and label templates.
- TSC Standalone Creator generates a printer LCD UI for quick template access and TSCPRTGo turns a mobile device into an extended display for mobile printing.
- SOTI Connect and TSC Console manage printer fleets, enabling swift deployment, configuration, and updates remotely.
- The Internal Embedded Webpage enables IT to remotely configure, troubleshoot, and oversee any specific printer in the field.

Commitment to Sustainability

- 100% recyclable packaging reduces environmental waste.
- 100% recyclable printer casing with over 90% recyclable printer components.
- The optional linerless kit offers a sustainable solution for greener label printing.

Applications

Manufacturing

- Work In Process
- Product Marking
- Compliance Labeling
- Industrial-Duty Printing

Transportation and Logistics

- Packing
- Order Fulfillment
- Shipping/Receiving
- Inventory Management

Retail

- Food and Beverage Packaging
- Product Label
- Weighing Scale

Healthcare

- Specimen Labeling
- Asset or Inventory Label



MB241 Series Specifications

MODEL	MB241	MB341	MB241T	MB341T
Resolution	8 dots/mm(203 dpi)	12 dots/mm(300 dpi)	8 dots/mm(203 dpi)	12 dots/mm(300 dpi)
Printing Method	Thermal Transfer & Direct Thermal			
Max. Print Speed	304.8mm(12")/ second	228.6mm(9")/ second	304.8mm(12")/ second	228.6mm(9")/ second
Max. Print Width	107mm(4.21")	105.7mm(4.16")	107mm(4.21")	105.7mm(4.16")
Max. Print Length	25,400mm(1000")	11,430mm(450")	25,400mm(1000")	11,430mm(450")
Enclosure	Die-cast based print mechanism/Metal cover with large clear media window			
Physical Dimension	248mm(W)x 274mm(H)x 436mm(D) 9.76"(W)x 10.79"(H)x 17.17"(D)			
Weight	9.1kg(20.06lbs)			
Label Roll Capacity	203.2mm(8")O.D., 1" - 3" I.D. core			
Ribbon	450m with 1" ribbon core I.D., ink coated outside or inside			
Ribbon Width	40mm - 110mm(1.6" - 4.3")			
Processor	32-bit RISC CPU			
Memory	• 256 MB Flash memory • 256 MB SDRAM			
Interface	• RS-232 • USB 2.0 • Internal Ethernet, 10/100 Mbps • USB host, for scanner or PC keyboard • GPIO(dealer option)		• Internal Bluetooth(dealer option) • Internal Bluetooth 5.0 MFi(factory option) • Slot-in Wi-Fi 802.11 a/b/g/n/ac with Bluetooth 5.0 combo module(dealer option)	
Power	• Internal universal switching power supply • Input: AC 100 - 240V, 2.0A, 50 - 60Hz • Output: DC 24V, 3.75A, 90W			
LED/LCD	• 2.3" color LCD • 1 LED(with 2 LEDs: green, red)		• 3.5" color touch LCD • 1 LED(with 2 LEDs: green, red)	
Operation Switch, Button	• 1 power switch • 6 buttons(Menu, Pause/Feed, Up, Down, Left, Right)			
Sensors	• Gap transmissive sensor(position adjustable) • Black mark reflective sensor(position adjustable)		• Ribbon encoder sensor • Ribbon end sensor • Head open sensor	
Real Time Clock	Standard			
Internal Fonts	• 8 alpha-numeric bitmap fonts • Monotype Imaging® true type font engine with one CG Triumvirate Bold Condensed scalable font			
Barcode	• 1D barcode Code 39, Code 93, Code128UCC, Code128 subsets A.B.C, Codabar, Interleave 2 of 5, EAN-8, EAN-13, EAN-128, UPC-A, UPC-E, EAN and UPC 2(5) digits add-on, MSI, PLESSEY, POSTNET, RSS-Stacked, GS1 DataBar, Code 11, China Post • 2D barcode PDF-417, Micro PDF 417, Maxicode, DataMatrix, QR code, Aztec, TLC 39, RSS			
Font & Barcode Rotation	0, 90, 180, 270 degree			
Printer Language	TSPL-EZD(EPL, ZPL, ZPL II, DPL)			
Media Type	Continuous, die-cut, black mark, fan-fold, notched(outside wound)			
Media Width	20mm - 120mm(0.8" - 4.7")			
Media Thickness	• Standard: 0.06mm - 0.28mm(2.36mil - 11.02mil) • On-metal RFID tags: 0.06mm - 1.65mm(2.36mil - 64.96mil)			
Media Core Diameter	25.4mm - 76.2mm(1" - 3")			
Label Length	5mm - 25,400mm (0.2" - 1000")	5mm - 11,430mm (0.2" - 450")	5mm - 25,400mm (0.2" - 1000")	5mm - 11,430mm (0.2" - 450")
Environment Condition	• Operation: 0°C to 40°C(32°F to 104°F), 25% - 85% non-condensing • Storage: -40°C to 60°C(-40°F to 140°F), 10% - 90% non-condensing			
Safety Regulation	CB, FCC Class A, CE Class A, UKCA, RCM Class A, cTUVus, TÜV, IC Class A, NOM, VCCI, CCC, BIS, KC, BSMI, EAC, ENERGY STAR®			
Environmental Concern	Comply with RoHS, WEEE			
Accessories	• Quick start guide • USB cable • Power cord			
Limited Warranty	• Printer: 2 years • Print head: 25km(1 million inches) or 12 months which comes first • Platen: 50km(2 million inches) or 12 months which comes first			
RFID	• RAIN UHF Passive(GS1 EPC Gen2 v2 / ISO 18000-63) • External fixed antenna, above media • Minimum label/tag pitch 15.9 mm(0.625") • Standard/On-Metal Tags/ Additional Tag Constructions		• On-Metal Tag thickness up to 1.65mm(0.06") • Encoding failures: Full label overstrike*** • Printer language: TSPL, ZPL • RFID Label Counter: Tracks good/bad labels	
Factory Option	• Internal Bluetooth 5.0 MFi • RFID with tear • RFID with cutter			
Dealer Option	• Peel-off kit • Regular guillotine cutter(full cut) • 5" O.D. internal rewinder kit • GPIO • Linerless tear-off kit • Linerless cutter kit		• Slot-in Wi-Fi 802.11 a/b/g/n/ac with Bluetooth 5.0 combo upgrade kit* • Internal Bluetooth 5.0 module** • RFID tear-off upgrade kit • RFID cutter upgrade kit	
User Option	• Slot-in Wi-Fi 802.11 a/b/g/n/ac with Bluetooth 5.0 combo module(for device with slot-in housing) • KP-200 Plus keyboard display unit • Universal cutter tray			

* Either GPIO or Wireless interface is available.
** Choose between a Wi-Fi with Bluetooth combo or an internal Bluetooth interface option.
*** Up to 6", only available on RFID printers produced at the factory.



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