

**One Complete Labeling
and Tracking System for
Reliable Specimen
Management**



Barcode Solutions for Laboratory Labeling

Practical barcoding solutions for labeling and specimen tracking needs.

Thermo Electron Corporation offers two basic barcode solutions that can be adapted to fit your needs. These solutions combine 2D barcode technology, printing software and verification software, along with the speed and accuracy of scanning and labeling devices. You can choose and customize the solution or pieces to achieve optimum efficiency in your lab.



The **ON-DEMAND SOLUTION** generates cassettes and slides at the individual workstations to improve accuracy and reduce identification errors. The **BATCH PRINTING WITH VERIFICATION SOLUTION** utilizes the speed of batch printing in a central location and our verification software at the workstation for accuracy of identification.



New CAP Regulations

What they mean for you.

REVISED 09/30/2004

ANP.21150 Phase II N/A YES NO

Are slides identified adequately?

NOTE: Slides must be adequately identified. All slide labels must include the entire identification number and descriptive letters unique to the block from which it is cut, as well as other appropriate identifiers, i.e., levels of sectioning. Automated prelabeling systems are acceptable. Glass slides that are manually pre-labeled must be inscribed with indelible ink, pencil, or by etching. If slides are manually pre-labeled, the original numbers on the glass slide should be readable from the underside of the slide. Regardless of whether a manual or automated labeling system is used, adequate procedures must be in place to ensure positive identification of slides during processing. The permanent slide label must be legible and indelible.

FROM: http://www.cap.org/apps/doc/laboratory_accreditation/checklists/anatomic_pathology_october2005.pdf

Shandon Barcode Solutions Ordering Information

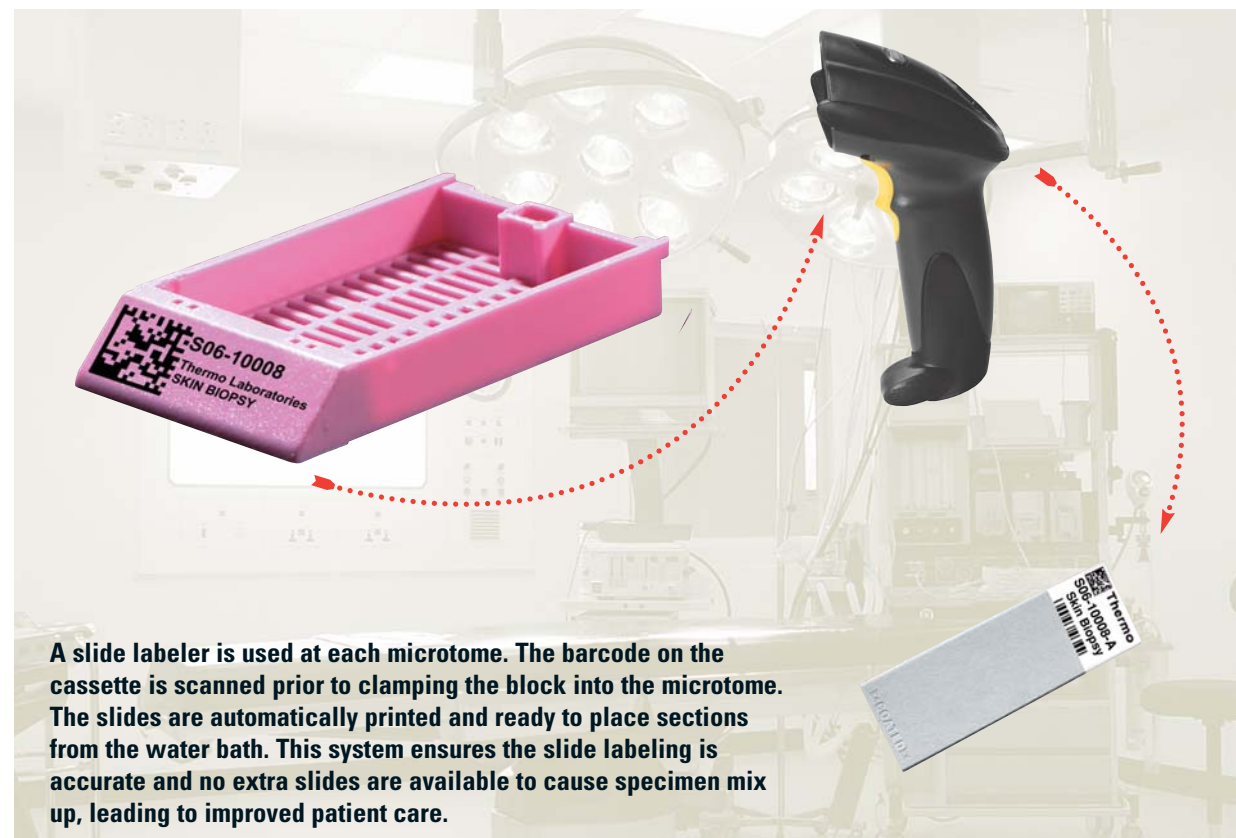
Description	Order Number
Shandon Carousel Cassette MicroWriter Barcode Labeling System	B35500001
includes Shandon Carousel Cassette MicroWriter, Shandon MicroWriter PC with Touchscreen Monitor, 2-D Spooler, BarcodeWriter™ Software, and Linear Barcode Scanner with USB Cable	
Shandon Carousel Cassette MicroWriter Barcode Labeling System	B35500002
includes Shandon Carousel Cassette MicroWriter, Shandon MicroWriter PC with Touchscreen Monitor, 2-D Spooler, BarcodeWriter™ Software, and Linear Barcode Scanner with USB Cable	
Shandon MicroWriter I Barcode Labeling System	B35500003
includes Shandon MicroWriter I, Shandon MicroWriter I PC with Touchscreen Monitor, 2-D Spooler, BarcodeWriter™ Software, and Linear Barcode Scanner with USB Cable	
Shandon MicroWriter I Barcode Labeling System	B35500004
includes Shandon MicroWriter I, Shandon MicroWriter PC with Touchscreen Monitor, 2-D Spooler, BarcodeWriter™ Software, and Linear Barcode Scanner with USB Cable	
Shandon Cassette MicroWriter Barcode Labeling System	B35500005
includes Shandon Cassette MicroWriter, Shandon MicroWriter PC with Touchscreen Monitor, 2-D Spooler, BarcodeWriter™ Software, and Linear Barcode Scanner with USB Cable	
Shandon Cassette MicroWriter Barcode Labeling System	B35500006
includes Shandon Cassette MicroWriter, Shandon MicroWriter PC with Touchscreen Monitor, 2-D Spooler, BarcodeWriter™ Software, and Linear Barcode Scanner with USB Cable	
Shandon Slide MicroWriter Barcode Labeling System	B35500007
includes Shandon Slide MicroWriter, Shandon MicroWriter PC with Touchscreen Monitor, 2-D Spooler, BarcodeWriter™ Software, and Digital Imager	
Shandon Slide MicroWriter Barcode Labeling System	B35500008
includes Shandon Slide MicroWriter, Shandon MicroWriter PC with Touchscreen Monitor, 2-D Spooler, BarcodeWriter™ Software, and Digital Imager	
Shandon Laser MicroWriter Barcode Labeling System	B35300013
Includes Organizer cart, Dell® PC and Touch-Screen Monitor	
Shandon Laser MicroWriter Barcode Labeling System	B35300014
Includes Organizer cart, Dell® PC and Touch-Screen Monitor	
Shandon CheckMate™ Verification Software	B35310032
MC50 Pocket PC (handheld device)	B35310033
Shandon CheckMate™ Verification System	B35310034
Includes CheckMate™ software and MC50 handheld device	

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On-Demand Barcode Printing



A cassette labeler is used at each grossing station. The system uses your existing requisition or specimen container barcode to automatically produce accurately labeled cassettes. This system ensures no extra cassettes are in the work area eliminating the chance for specimen mix up, improving patient care.



A slide labeler is used at each microtome. The barcode on the cassette is scanned prior to clamping the block into the microtome. The slides are automatically printed and ready to place sections from the water bath. This system ensures the slide labeling is accurate and no extra slides are available to cause specimen mix up, leading to improved patient care.

Shandon Checkmate™ Verification System



Batch-printed, barcoded cassettes can be scanned along with the specimen container or requisition at time of grossing to ensure the cassette identification matches that of the specimen or patient.



The slides are batch printed in a central location. **AT-THE-MICROTOME** The barcode on the cassette is scanned prior to clamping the block into the microtome. Sections are ribboned and placed onto the waterbath. The slide is scanned verifying the slide matches the cassette and the section is placed onto the slide. This virtually eliminates the chance for specimen mixup.

Designed to maximize the flexibility of the Shandon MicroWriter Series.



- Complete Package.
- Ready to use.
- Runs up to 4 labelers at one time.
- Touch-screen display.
- On-screen keyboard.
- Comes pre-loaded with Shandon BarcodeWriter software.
- Dual voltage unit.
- Can operate Shandon Slide, Carousel, or Microwriter I units.

LIS System Connectivity Interfaces

Cerner Corporation

- CPATHPLUS®
version 2.3 and higher.
- Millenium® Anatomic Pathology
Edition 2003.01 and higher.

Psyche Systems Corporation

- WindoPath®
version 5.0 and higher.

Computer Trust Corporation

- WinSURGE™ Anatomic Pathology
Software

IMPAC Medical Systems, Inc.

- PowerPath® 8.3

NovoVision, Inc.

- NovoPath™

Orchard Software Corporation

- Orchard Harvest™ LIS
AP Module, version 7.0

Consult the LIS vendor for further details on standard interface.

Specifications

Power Requirements: 110-120V, 50/60Hz or 220-240V, 50/60Hz

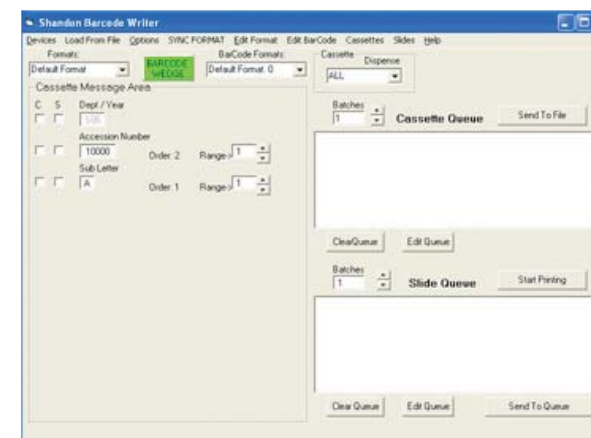
Dell® PC with 5 Touch-screen Monitor

Shandon BarcodeWriter™ software

Installed (one license included for operation of labeler)

Description	Order Number
Dell Controller PC and Touchscreen Monitor for use with Shandon MicroWriters comes pre-loaded with Shandon BarcodeWriter™ software; 110-120V, 50/60Hz	B1002800
Dell Controller PC and Touchscreen Monitor for use with Shandon MicroWriters comes pre-loaded with Shandon BarcodeWriter™ software; 220-240V, 50/60Hz	B1003363

Available Accessories	Order Number
Barcode Reader for Cassettes	B35310006
Barcode Reader for Slides	B35310017
2-D Spooler	A78210250

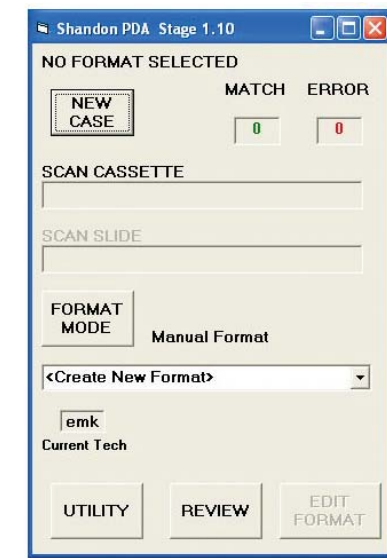


Shandon BarcodeWriter™ (B35310015)

The Shandon BarcodeWriter™ software is designed to provide simplicity and flexibility and can be customized to suit the needs of your laboratory. This allows users of any skill set to easily perform data entry. This program is an essential tool for the entire range of Shandon MicroWriter slide and cassette labelers. It offers many features including the ability to imprint a 2-D, data matrix barcode on slides and cassettes. It provides the ability to use a barcode scanner to enter data using standard barcodes. The import feature is fully configurable so that requisition barcodes can be read and data configured to automatically print cassettes or slides.

Features include:

- Prints alpha-numeric text
- Prints roman numerals
- 10 total data fields; includes 5 incrementing fields
- Format duplication
- Print queue activity indicator
- Simultaneous slide and cassette printing
- Printing to text files
- Print records to external printer
- Automatic Range Reset (by field or global setting)
- Insert and delete fields
- Edit print queue order
- Barcode Printing
- Data entry using barcode scanner
- Sync format button
- Import data using CSV file



Shandon CheckMate™ Verification System (B35310034)

Cassette and slide verification at the microtome has never been easier. Barcoded cassettes and slides can be checked and matched up using a light-weight, portable, hand-held device and the Shandon CheckMate™ software to verify that blocks and slides match before block cutting is performed. A simple, but important tool for peace of mind. CheckMate™ can also be used to check and match barcoded requisitions, containers and any other barcoded items you may use for labeling and tracking specimens. CheckMate™ is recommended for use with the handheld device, but can also be run on most standard PC computers. See page 6 for other part numbers.

Shandon 2-D Spooler Software (A78210250)

When the barcode printing feature is utilized, the Shandon Spooler software serves as the print queue and formatter for the barcodes. The print jobs can be managed via the Spooler and it has a valuable status display feature.

Shandon Laser MicroWriter™

First laser labeling system developed specifically for anatomical pathology.

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The Shandon Laser MicroWriter system provides solutions that meet the most critical needs of a high-volume clinical or research laboratory – proper identification of the sample. Labeling options offered by the system provide accuracy and flexibility as well as the ability to track a specimen throughout the preparation and storage cycle.

No Ink Cartridges or Dedicated Consumables Required!



Flexibility

- The Shandon Laser MicroWriter can print **1-D and 2-D barcodes, laboratory and professional logos, graphics, all OCR, and text fonts.**
- Can print **in any orientation** (horizontally, vertically, inverted, etc.).
- The Shandon Laser MicroWriter **prints clearly and legibly** on any standard microscope slide.
- **Can adapt to multiple slide requirements** including multi-color slide loading and sorting of slides for special needs, such as special stain slides.
- The Shandon Laser MicroWriter can operate **using six different slide colors simultaneously.**

Ease of Use

- The Shandon Laser MicroWriter **uses existing requisition barcodes**, reducing sample identification errors due to clerical mistakes.
- The communication mode for the Shandon Laser MicroWriter™ software **is compatible with all other software manufacturers**, making interfacing into any LIS easy and seamless.
- The Shandon Laser MicroWriter software helps to keep the **involvement of your busy IT Department to a minimum.**
- Slide handling is a snap – the Shandon Laser MicroWriter's **easy to load, organize and unload microscope slides** reduces excessive handling.

Capacity

- The delivery and **collection carousel has high capacity** – each carousel holds 432 microscope slides.
- **Each carousel has six positioned hoppers** to allow for rapid change of slide color or type; additional carousels can offer extended capacity.

Productivity and Efficiency Improvements

- **No more time-consuming hand labeling and re-labeling of slides.**
- The Shandon Laser MicroWriter has eliminated the use of ink, paper labels, cleaning fluid or specialized slides – **consumables are practically nonexistent and operating costs are kept to a minimum.**
- High capacity and speed generated by the Shandon Laser MicroWriter (one second per slide for text only, two seconds per slide for bar code printing) **makes your laboratory more efficient.**
- **The legibility of the print** allows slides etched on the Shandon Laser MicroWriter to be read by other laboratory equipment such as imagers and analyzers.



These examples show some of the available bar coding systems and fonts.

See selection of slides on pages 18 and 19.

Organize your Shandon Laser MicroWriter™ to further enhance your productivity.

The Shandon Laser MicroWriter Organizer is designed to house the different modules of the Laser MicroWriter to provide full mobility and space savings in your laboratory. You should not have to compromise your valuable laboratory bench space with the installation of a high throughput slide labeler.



Convenient drawers house Dell® PC and DSL unit.

Included with Complete System

- Laser Organizer Cart
- Transport Unit
- Laser Head and Controlling PC
- Dell® PC with Touchscreen Monitor
- Network Hub / Switch
- Dust Collector
- Operator Guide
- Dispense Carousel
- Collection Carousel
- Three Pre-filters

Included with Base Unit and Dell PC

- Transport Unit
- Laser Head and Controlling PC
- Dell® PC with Touchscreen Monitor
- Network Hub / Switch
- Dust Collector
- Operator Guide
- Dispense Carousel
- Collection Carousel
- Three Pre-filters

Included with Base Unit

- Transport Unit
- Laser Head and Controlling PC
- Dust Collector
- Operator Guide
- Dispense Carousel
- Collection Carousel
- Three Pre-filters

Shandon Laser MicroWriter™ Slide Labeler Specifications

Description	Order Number
Shandon Laser MicroWriter complete system includes Organizer cart; Dell® PC and Touch-Screen Monitor; 110-120V, 50/60 Hz	B35300014
Shandon Laser MicroWriter complete system includes Organizer cart; Dell® PC and Touch-Screen Monitor; 220-240V, 50/60 Hz	B35300013
Shandon Laser MicroWriter with Dell® PC includes Touch-Screen Monitor; 110-120V, 50/60 Hz	B35300012
Shandon Laser MicroWriter with Dell® PC includes Touch-Screen Monitor; 220-240V, 50/60 Hz	B35300011
Shandon Laser MicroWriter base unit without controlling PC; with RS232; Serial Interface; network-ready; 110-120V, 50/60 Hz	B35300002
Shandon Laser MicroWriter base unit without controlling PC; with RS232; Serial Interface; network-ready; 220-240V, 50/60 Hz	B35300001
Shandon Laser MicroWriter Organizer Cart 110-120V, 50/60 Hz	B35310013
Shandon Laser MicroWriter Organizer Cart 220-240V, 50/60 Hz	B35310014

Physical Specifications

Dimensions (H x W x D)

Transport Unit:	21.4" x 29.1" x 22.7" (54.4 x 73.8 x 57.6 cm)
Controller Unit:	9.3" x 18.9" x 15.9" (23.7 x 48.0 x 40.5 cm)
Fume Extractor:	28.1" x 16.9" x 16.9" (71.5 x 43.0 x 43.0 cm)

Weight (total)

230 lbs. (115 kg)

Power Requirements

110 or 240V, 50/60 Hz; 1,100 VA

Capacity

One, six (6) position dispense carousel; each position holds 90 slides.
One, six (6) position collection carousel; each position holds 72 slides.

Available Accessories

Available Accessories	Order Number
Barcode Reader for Linear Barcodes	B35310017
Barcode Reader for 2-D Barcodes	B35310006
Shandon BarcodeWriter Software	B35310015
Dispense Carousel	B35310001
Collection Carousel	B35310002
Dell Controller PC and touchscreen monitor; 110-120V, 50/60Hz	B35310005
Dell Controller PC and touchscreen monitor; 220-240V, 50/60Hz	B35310016
Shandon Laser MicroWriter Gold Service Plan (see p. 20)	B35300002C
Shandon Laser MicroWriter Bronze Service Plan (see p. 20)	B35300002CPM
Pre-filter, pack / 4	B35310008
HEPA filter	B35310009

FOR OTHER HARDWARE AND SOFTWARE OPTIONS, SEE PAGE 6-7.



Top drawer is great for general storage.

Shandon Carousel Cassette MicroWriter™

Carousel-type cassette marking systems.



Shandon Carousel Cassette MicroWriter™ Specifications

Description	Order Number
Shandon Carousel Cassette MicroWriter 110-240V, 50/60 Hz	A78200001
Shandon Carousel Cassette MicroWriter with Dell® PC and Touch Screen Monitor; 110-120V, 50/60Hz	B1002801
Shandon Carousel Cassette MicroWriter with Dell® PC and Touch Screen Monitor; 220-240V, 50/60Hz	B1003357

Physical Specifications

Dimensions (H x W x D)

32.8" x 10.5" x 13" (83 x 26 x 33 cm)

Weight

16.8 lbs. (7.6 kg)

Power Requirements

110-240V, 50/60 Hz; 100 VA

Capacity

75 cassettes per hopper; 6 hoppers per unit.

Included with Product*

Shandon BarcodeWriter™ software
Dispenser Hoppers - 6 included
Pre-filled Cassette Tube Sample Pack
MicroWriter Specific RS232 Cable
Power Cord
Operator Manual (specify language)

* Contents, Packaging, and Quantities of items listed under "Included with Product" are subject to change without prior notice.

Available Accessories	Order Number
Empty Plastic Tubes for Cassettes (20 per box)	A78210003
Stainless Steel Collection Chute (see page 11)	A78210004
Hot Foil Tape	A78210005
Stainless Steel Collection System (see page 11)	A78210006
Additional Collection Hopper	A78210007
for Collection System A78210006 (see page 11)	
Hopper Holder	A78210002
Dell Controller PC and touchscreen monitor for use with Shandon MicroWriters	See Page 6
Shandon Carousel MicroWriter Silver Service Plan (see p. 20)	A78200001C

FOR OTHER HARDWARE AND SOFTWARE OPTIONS, SEE PAGE 6-7.

Agency Approvals
Designed to meet IEC 61010, CSA, UL, and CE Mark.

- **Permanently mark** tissue cassettes with easy to read black type.
- Uses **foil tape and a heated stylus to imprint characters** that maintain legibility even through processing solutions.
- **Made to withstand the workload** of busy laboratories, marking approximately 20,000 characters per roll of tape.
- **Printing can be inverted** for reading in either direction.
- **Change cassette color and style easily** with fully automated dispensing and labeling process.
- **Easy-to-change hoppers** give you the flexibility of allowing an unlimited number of colors and cassettes.
- **Imprints letters, numbers, Roman numerals, and special characters** on the cassettes in four font sizes.
- Largest font writes a single line of up to **8 characters**, and the smallest font writes three lines of **19 characters**.
- **Ability to print barcodes** on cassettes.
- Prints on all **45° flat-faced cassettes**.
- **Choice of Collection Systems** makes organizing cassettes a seamless operation in any laboratory environment.

Shandon MicroWriter™ Collection Systems

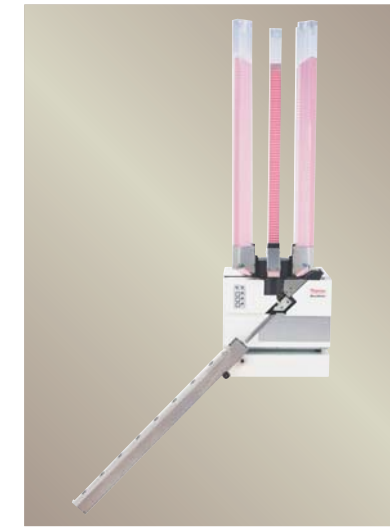
Collection systems for the Shandon MicroWriter series of labelers.

Shandon Carousel Cassette MicroWriter Collection Systems



- Cassettes slide onto table in order of print.
- System is very durable and installs in minutes.
- For use with the Shandon Carousel Cassette MicroWriter.

Description	Order Number
Stainless Steel Collection Chute	A78210004



- Holds 75 cassettes in order of print.
- Allows random access to all cassettes. System is very durable and installs in minutes.
- System includes platform, hopper, and collection guideplate.

Description	Order Number
Stainless Steel Collection System	A78210006
Extra Collection Hoppers	A78210007

Shandon MicroWriter I Collection Systems



- Cassettes slide onto table in order of print.
- System is very durable and installs in minutes.
- For use with the Shandon MicroWriter I.

Description	Order Number
Collection Guide Chute for Shandon MicroWriter I	A78210167



- Cassettes slide onto table in order of print.
- System is very durable and installs in minutes.
- System includes platform, hopper support, hopper and collection guideplate.

Description	Order Number
Stainless Steel Collection System for Shandon MicroWriter I	A78210168
Stainless Steel Collection Hopper for Shandon MicroWriter I	A78210169

Shandon MicroWriter™ I Cassette Labeler

Permanent cassette marking system.

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- Permanently mark tissue cassettes with easy-to-read black type.
- Uses foil tape and a heated stylus to imprint characters that maintain legibility even through processing solutions.
- Printing may be inverted for reading in either direction.
- Ability to print barcodes on cassettes.
- Made to withstand the workload of busy laboratories, marking approximately 20,000 characters per roll of tape.
- Single hopper loading system is ideal for laboratories that use single color cassettes or have a lower volume.
- Can be purchased with a PC and preloaded software so it is ready to use right out of the box.
- Hopper holds 75 cassettes. A variety of cassettes can be purchased preloaded in plastic tubes.
- Prints on all 45° flat-faced cassettes.

Shandon MicroWriter™ I Cassette Labeler Specifications

Description	Order Number
Shandon MicroWriter I Single Hopper Unit without controlling PC; with MicroWriter specific RS232 Cable and BarcodeWriter software; 110-240V 50/60 Hz	A78200024
Shandon MicroWriter I Single Hopper Unit with integral PC, Flexible Keyboard and BarcodeWriter software; 110-240V 50/60 Hz,	A78200025
Shandon MicroWriter I Single Hopper Unit with Dell® PC, Touch-Screen Monitor and BarcodeWriter software; 110-120V 50/60 Hz	B1002803
Shandon MicroWriter I Single Hopper Unit with Dell® PC, and BarcodeWriter software 220-240V, 50/60 Hz	B1003358

Physical Specifications

Dimensions (H x W x D)
10.3" (30.8" with hopper) x 10.5" x 11.6" (26 [78] x 26.5 x 29.5 cm)
Tape Width: 11.4" (29 cm)

Weight

20.5 lbs. (9.3 kg)

Power Requirements

110-240V, 50/60 Hz; 100 VA

Capacity

75 cassettes per hopper

Available Accessories	Order Number
Hopper for Shandon MicroWriter I	A78210166
Collection Guide Chute for Shandon MicroWriter I	See Page 11
Stainless Steel Collection System	See Page 11
Stainless Steel Collection Hopper	See Page 11
Dell Controller PC and touchscreen monitor for use with Shandon MicroWriters	See Page 6
Shandon MicroWriter I Silver Service Plan (see p. 20)	463100

FOR OTHER HARDWARE AND SOFTWARE OPTIONS, SEE PAGE 6-7.

Agency Approvals

Designed to meet IEC 61010, CSA, UL, and CE Mark.

Shandon Cassette Tube Packs

See pages 15 to 17 for complete ordering information.



Cassettes with lids.



Cassettes without lids.

- Qty per Order: 10 Tubes; 75 Cassettes /Tube
- Packed in 75-cassette tubes for use with the MicroWriter Cassette Labeler or simply as a convenient method of storage.

Available with:

- Shandon Biopsy Cassettes II
- Shandon Microsette® Biopsy Cassettes
- Shandon Micromesh™ Biopsy Cassettes
- Shandon Tissue Cassettes
- Shandon Tissue Cassettes II
- Shandon Tissue Cassettes IV

Shandon Two-Hopper Cassette MicroWriter™

Cassette marking system.

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Shandon Two-Hopper Cassette MicroWriter™ Specifications

Description	Order Number
Shandon Cassette Microwriter 220-240V, 50/60 Hz With Hot Foil Tape and BarcodeWriter™ Software	A78200030
Shandon Cassette Microwriter 220-240V, 50/60 Hz With Hot Foil Tape, PC and touch-screen monitor	B1003359
Shandon Cassette Microwriter 220-240V, 50/60 Hz With unlicensed BarcodeWriter™ Software	A78200032
Shandon Cassette Microwriter 110-120V, 50/60 Hz With Hot Foil Tape, PC and touch-screen monitor, BarcodeWriter™ Software	B1003360
Shandon Cassette Microwriter 220-240V, 50/60 Hz With Hot Foil Tape plus 2 mechanisms for Plastic Hoppers With BarcodeWriter™ Software	A78200034
Shandon Cassette Microwriter 220-240V, 50/60 Hz With Hot Foil Tape plus 2 mechanisms for Plastic Hoppers With PC and touch-screen monitor, BarcodeWriter™ Software	B1003361

Physical Specifications

Dimensions (H x W x D)
32.7" x 12.9" x 10.35" (83 x 32.8 x 26.3 cm)

Weight

17.2 lbs. (7.8 kg)

Power Requirements:

Plug Fuse Rating: 5 amp (UK. Only)

Power Consumption: 100 watts maximum

Power Supply / Rating: 220-240 Vac, 50 Hz

Capacity:

Plastic Hoppers x 2 = 150 cassettes

Available Accessories	Order Number
Mechanism for use with Plastic Hoppers	A78210150
Empty Plastic Hoppers - 20 / Pk.	A78210003
4 Hopper Unit	A78210151
4 Hopper Unit - including 4 mechanisms	A78210152
Collection Guide Chute	A78210004
Hot Foil Tape	A78210005
New Collection System - with removable lid	A78210006
Stainless Steel Collection Hopper	A78210007
New Collection System - for collection of cassettes into plastic hoppers	A78210008
Cassette Hopper Storage Rack	A78210153
Plastic Hopper Cassette Loading Platform	A78210009
Operator Manual	A78210154
Service Manual	A78210155

- The Shandon Cassette MicroWriter works on the same principle as the Carousel MicroWriter but has **two fixed hoppers**.
- **A 4 Hopper Unit is available** which when connected alongside increases the number of hoppers to six.
- The Shandon Cassette MicroWriter uses **foil tape and a heated stylus** to imprint characters that maintain legibility even through processing solutions.
- It is made to withstand the workload of busy laboratories marking **approximately 20,000 characters** per roll of tape.
- **Printing can be inverted** for reading in either direction.
- Unit can be ordered with an **optional Barcode Reader**.

Shandon MicroWriter™ Slide Labeler

Permanent slide marking system.

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- **Permanently etches** specimen identification information onto the end of a microscope slide using a diamond-tipped stylus.
- **Printing may be inverted** for reading in either direction.
- **Etches letters, numbers, Roman numerals and special characters** on the slides in four font sizes.
- The largest font writes **three lines of up to 7 characters** and the smallest setting writes **6 lines of 14 characters**.
- **Ability to print barcodes** on slides.
- Numbers and letters can be **automatically incremented** for the desired number of slides.
- **Integrated Dust Extractor's** powerful vacuum pulls dust from the writing area into an **easy-to-clean particle filter** requiring **no additional tools for removal**.
- **Dispense hopper holds up to 72 slides** which feed directly into the printing system.
- Once printed, slides are stacked in the collection hopper **in the order in which they were printed** to ensure easy handling.
- **Accepts standard 75 x 25 mm slides** with plain ends, color ends, frosted ends, and back-masked ends.
- **Additional hoppers are available** when multiple colors or types of slides are used.

Description	Order Number
Shandon MicroWriter Slide Labeler 110-120V, 50/60 Hz	A78200012
Shandon MicroWriter Slide Labeler 220-240V, 50/60 Hz	A78200011
Shandon MicroWriter Slide Labeler with Dell® PC and Touch Screen Monitor; 110-120V, 50/60Hz	B1002802
Shandon MicroWriter Slide Labeler with Dell® PC and Touch Screen Monitor; 220-240V, 50/60Hz	B1003362

Physical Specifications	
Dimensions (H x W x D)	
Unit:	8.19" x 10.4" x 14.3" (20.5 x 26 x 36 cm)
Dust Extractor:	6.8" x 9.9" x 13.5" (17 x 25 x 34 cm)
Weight	
Unit:	16.5 lbs. (7.5 kg)
Dust Extractor:	21.6 lbs. (9.8 kg)
Power Requirements	
110-240V, 50/60 Hz; 100 VA	
Capacity	
72 slides per hopper	

Included with Product*	
Shandon BarcodeWriter™ Software	
MicroWriter Specific RS232 Cable	
Slide Collection Hopper	
Slide Dispense Hopper	
Vacuum Hose	
Power Cord	
Operator Manual (specify language)	

* Contents, Packaging, and Quantities of items listed under "Included with Product" are subject to change without prior notice.

Available Accessories	Order Number
Barcode Reader for Linear Barcodes	B35310017
2-D Spooler	A78210250
Shandon BarcodeWriter Software	B35310015
72 Slide Dispensing Hopper	A78210051
72 Slide Collection Hopper	A78210052
Diamond Stylus	A78210053
Dell Controller PC and touchscreen monitor for use with Shandon MicroWriters	See Page 6
Shandon MicroWriter Slide Labeler	A78200012C
Silver Service Plan (see p. 20)	

Agency Approvals	
Designed to meet IEC 61010, CSA, UL, and CE Mark.	

Shandon Biopsy and Tissue Cassettes

Complete range of disposable cassettes.

Shandon Micromesh™ Biopsy Cassettes



Made of acetal polymer, the Micromesh Biopsy Cassettes have 1400 square openings (0.38mm) allowing for greatly improved fluid exchange without having to use biopsy sponges. A large compartment measuring 24 x 27mm is perfect even for needle biopsies. The recessed lid is specially designed to lie flush with the top surface of the cassette. This feature allows the cassettes to be labeled on the Shandon MicroWriter™ series automatic labelers **with the lids on**. Cassette writing face is at a 45° angle. Loose cassettes are supplied in cases of 4 boxes of 250 cassettes each with lids attached. Tube packs are supplied in cases of 10 tubes of 75 cassettes each with lids attached.

Color	250 / Box x 4	75 / Tube x 10
White	B1000735WH	B1000734WH
Pink	B1000735PK	B1000734PK
Green	B1000735GR	B1000734GR
Yellow	B1000735YW	B1000734YW
Blue	B1000735BL	B1000734BL
Gray	B1000735GY	B1000734GY
Orange	B1000735OR	B1000734OR
Peach	B1000735PE	B1000734PE
Tan	B1000735TN	B1000734TN
Lilac	B1000735LI	B1000734LI
Aqua	B1000735AQ	B1000734AQ



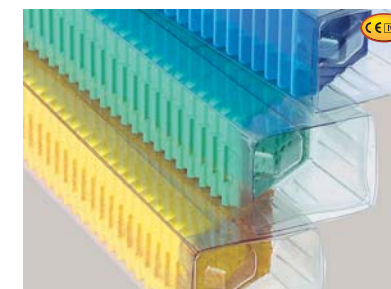
Picture shows tube cassette packaging.

Shandon Microsette® Biopsy Cassettes



Made of acetal polymer, the Microsette Biopsy Cassettes have a large compartment measuring 25mm x 30 mm. Perfect even with needle biopsies since holes have a diameter of only 0.26 mm while still allowing for maximum fluid exchange. Biopsy sponges are no longer necessary. Cassette writing face is at a 45° angle. Loose cassettes are supplied in cases of 4 boxes of 250 cassettes each with lids attached. Tube packs are supplied in cases of 10 tubes of 75 cassettes each and may be used on the Shandon MicroWriter cassette labelers.

Color	250 / Box x 4	75 / Tube x 10
White	B1000733WH	B1000731WH
Pink	B1000733PK	B1000731PK
Green	B1000733GR	B1000731GR
Yellow	B1000733YW	B1000731YW
Blue	B1000733BL	B1000731BL
Gray	B1000733GY	B1000731GY
Orange	B1000733OR	B1000731OR
Peach	B1000733PE	B1000731PE
Tan	B1000733TN	B1000731TN
Lilac	B1000733LI	B1000731LI
Aqua	B1000733AQ	B1000731AQ
Dark Green	B1000733DGR	B1000731DGR
Dark Red	N / A	B1000731DRD



Picture shows tube cassette packaging.

Shandon Biopsy and Tissue Cassettes

Complete range of disposable cassettes.

Shandon Tissue Cassettes II



CE (MD)

Made of acetal polymer, the Tissue Cassettes II are specially designed to hold tissue specimens during processing and embedding. Cassette writing face is at a 45° angle. Pore style is small slots. Supplied in box of 500 cassettes with attached lids. Tube Packs are supplied in 10 tubes of 75 cassettes each and may be used on the Shandon MicroWriter™ cassette labelers.

Color		500 / Box	75 / Tube x 10
White		1001061	B1000729WH
Pink		1001060	B1000729PK
Green		1001059	B1000729GR
Yellow		1001058	B1000729YW
Blue		1001057	B1000729BL
Gray		1001054	B1000729GY
Orange		1001052	B1000729OR
Peach		1001056	B1000729PE
Tan		1001055	B1000729TN
Lilac		1001053	B1000729LI
Aqua		1001051	B1000729AQ
Dark Green		N / A	B1000729DGR
Dark Red		N / A	B1000729DRD
Dark Blue		N / A	B1000729DBL
Fluorescent Green		N / A	B1000729FGR
Fluorescent Pink		N / A	B1000729FPK
Fluorescent Yellow		N / A	B1000729FYW



CE (MD)

Picture shows tube cassette packaging.

Shandon Tissue Cassettes IV

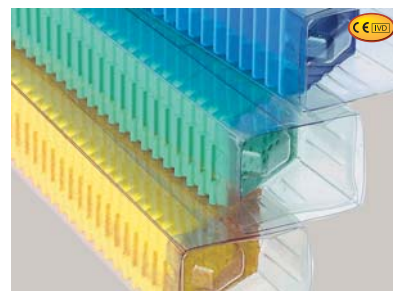


CE (MD)

These disposable plastic cassettes are designed to hold tissue specimens during processing and embedding. Pore style is small slots. Supplied in box of 250 cassettes with attached lids. Tube Packs are supplied in 10 tubes of 75 cassettes each. Shandon Tissue Cassette IV can be used with the Shandon Carousel Cassette MicroWriter™ (see page 10) only. They are incompatible with Shandon MicroWriter I (see Page 12).

Color		250 / Box	75 / Tube x 10
White		41720	41720-T
Pink		41724	41724-T
Green		41723	41723-T
Yellow		41722	41722-T
Blue		41721	41721-T
Gray		41727	41727-T
Orange		41726	41726-T
Tan		41725	41725-T
Lilac		41728	41728-T

Shandon Tissue Cassettes IV can be used with the Shandon Carousel Cassette MicroWriter only (incompatible with Shandon MicroWriter I).



CE (MD)

Picture shows tube cassette packaging.

Shandon Biopsy Cassettes II



CE (MD)

Made of acetal polymer, the Biopsy Cassettes II are specially designed to hold biopsy specimens during processing and embedding. Cassette writing face is at a 45° angle. Pore style is small square. Supplied in box of 500 cassettes with attached lids. Tube Packs are supplied in 10 tubes of 75 cassettes each and may be used on the Shandon MicroWriter™ cassette labelers.

Color		500 / Box	75 / Tube x 10
White		1001097	B1000730WH
Pink		1001098	B1000730PK
Green		1001099	B1000730GR
Yellow		1001100	B1000730YW
Blue		1001101	B1000730BL
Gray		1001104	B1000730GY
Orange		1001106	B1000730OR
Peach		1001102	B1000730PE
Tan		1001103	B1000730TN
Lilac		1001105	B1000730LI
Aqua		1001107	B1000730AQ
Dark Red		N / A	B1000730DRD
Fluorescent Green		N / A	B1000730FGR
Fluorescent Pink		N / A	B1000730FPK
Fluorescent Yellow		N / A	B1000730FYW



CE (MD)

Picture shows tube cassette packaging.

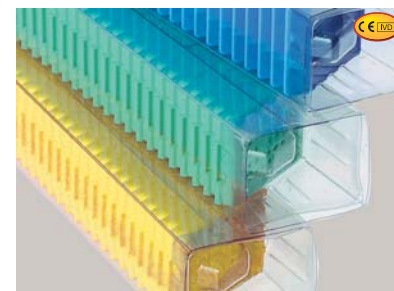
Shandon Tissue Cassettes



CE (MD)

Made of acetal polymer, the Tissue Cassettes are suitable for holding and identifying tissue samples in processing, embedding and sectioning procedures. The cassettes fit securely in microtome chuck adapters. These cassettes are designed to accept metal lids (Order number 1001003, 25 / pk, sold separately). Pore style is round holes. Supplied in a box of 500 cassettes. Tube Packs are supplied in 10 tubes of 75 cassettes each and can be used on the Shandon MicroWriter™ cassette labelers.

Color		500 / Box	75 / Tube x 10
White		B1003500WH	B1000732WH
Pink		B1003500PK	B1000732PK
Green		B1003500GR	B1000732GR
Yellow		B1003500YW	B1000732YW
Blue		B1003500BL	B1000732BL
Gray		B1003500GY	B1000732GY
Orange		B1003500OR	B1000732OR
Peach		B1003500PE	B1000732PE
Tan		B1003500TN	B1000732TN
Lilac		B1003500LI	B1000732LI
Aqua		B1003500AQ	B1000732AQ
Dark Red		B1003500DRD	N / A
Dark Blue		B1003500DBL	N / A

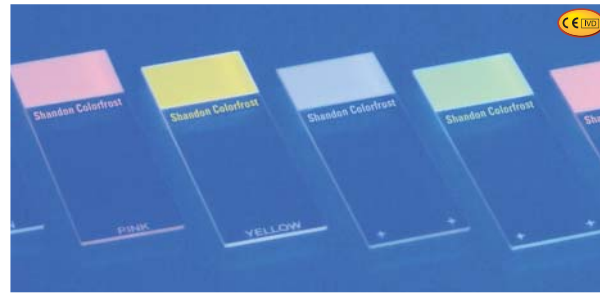


CE (MD)

Picture shows tube cassette packaging.

Shandon Microscope Slides

Shandon Colorfrost® Slides



- Available in a wide variety of colors to ease identification.
- Resistant to commonly used laboratory solvents.
- 1.0 - 1.2 mm thick with ground edges.

Shandon Colorfrost® Plus Slides

- Positively charged microscope slides give improved cellular adhesion.
- Electrostatically attracts tissue sections and cytology preparations, binding them to the slide.
- Eliminates the need for special adhesives or protein coatings.

Shandon Microscope Slide Dispenser



- Holds 72 slides.
- Easy way to get a clean, fingerprint-free slide.
- Avoid breakage.
- Loading is simple.
- Made from stainless steel.
- Includes suction cup feet to keep the unit in place.

Description	Pkg/Qty	Order Number
Shandon Microscope Slide Dispenser	Each	141



Shandon Colormark® Slides



COLORMARK Slides are designed for the Shandon MicroWriter™ Slide Labeler. A contrasting color is printed on the back of the Colorfrost end (see chart below) so that patient or specimen information etched through the painted end on the front is clearly visible. These slides are also available with positively charged Colorfrost Plus adhesion coating for better specimen mounting.

Colorfrost End	Contrasting Color
Tan	Black
Gold	Black
Green	Dark Green
Pink	Dark Pink
Aqua	Black
Yellow	Dark Pink
Blue	Dark Blue
Lavender	Black
Burnt Orange	Black
Red	Black
White	White

Custom-Made Imprints

(Order no. upon request)

All slides are available with imprints of hospital and institutional names per the following specifications:

- Maximum of 17 characters per line; can be letters or numbers.
- If printing 2 lines, letter size is .059 (approximately a 5 point font).
- If printing 3 lines, letter size is still .059, but the Superfrost end is reduced by .08".
- Normally, lines are printed just below the Superfrost area. They can be printed on top of the slide, but the Superfrost end will be lowered.

Shandon Colormark® Plus Slides

- Positively charged microscope slides give improved cellular adhesion.
- Electrostatically attracts tissue sections and cytology preparations, binding them to the slide.
- Eliminates the need for special adhesives or protein coatings.

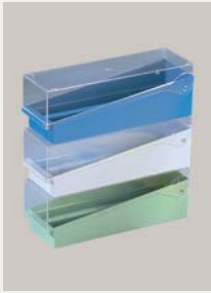
Shandon Slides Ordering Information

SHANDON COLORFROST			SHANDON COLORFROST PLUS +			SHANDON COLORMARK			SHANDON COLORMARK			SHANDON COLORMARK PLUS +			SHANDON COLORMARK PLUS +		
White	1000 / Cs.	6776206	White	144 / Pk.	6776214	White	144 / Pk.	B9992000	White	1440 / Cs.	B9992000CS	White	144 / Pk.	B9992010	White	1440 / Cs.	B9992010CS
				1440 / Cs.	6776214CS												
Blue	1000 / Cs.	6776207	Blue	100 / Box	9991001	Blue	144 / Pk.	B9992000BL	Blue	1440 / Cs.	B9992000BLCS	Blue	144 / Pk.	B9992010BL	Blue	1440 / Cs.	B9992010BLCS
Green	1000 / Cs.	6776210	Green	100 / Box	9991003	Green	144 / Pk.	B9992000GR	Green	1440 / Cs.	B9992000GRCS	Green	144 / Pk.	B9992010GR	Green	1440 / Cs.	B9992010GRCS
Pink	1000 / Cs.	6776213	Pink	100 / Box	9991004	Pink	144 / Pk.	B9992000PK	Pink	1440 / Cs.	B9992000PKCS	Pink	144 / Pk.	B9992010PK	Pink	1440 / Cs.	B9992010PKCS
Yellow	1000 / Cs.	6776208	Yellow	100 / Box	9991002	Yellow	144 / Pk.	B9992000YW	Yellow	1440 / Cs.	B9992000YWCS	Yellow	144 / Pk.	B9992010YW	Yellow	1440 / Cs.	B9992010YWCS
Burnt Orange	1000 / Cs.	6776209	Burnt Orange	100 / Box	9991011	Burnt Orange	144 / Pk.	B9992000BO	Burnt Orange	1440 / Cs.	B9992000BOCS	Burnt Orange	144 / Pk.	B9992010BO	Burnt Orange	1440 / Cs.	B9992010BOCS
Lavender	1000 / Cs.	6776205	Lavender	100 / Box	9991009	Lavender	144 / Pk.	B9992000LV	Lavender	1440 / Cs.	B9992000LVCS	Lavender	144 / Pk.	B9992010LV	Lavender	1440 / Cs.	B9992010LVCS
Tan	1000 / Cs.	6776201	Tan	100 / Box	9991012	Tan	144 / Pk.	B9992000TN	Tan	1440 / Cs.	B9992000TNCS	Tan	144 / Pk.	B9992010TN	Tan	1440 / Cs.	B9992010TNCS
Aqua	1000 / Cs.	6776202	Aqua	100 / Box	9991013	Aqua	144 / Pk.	B9992000AQ	Aqua	1440 / Cs.	B9992000AQCS	Aqua	144 / Pk.	B9992010AQ	Aqua	1440 / Cs.	B9992010AQCS
Gold	1000 / Cs.	6776203	Gold	100 / Box	9991014	Gold	144 / Pk.	B9992000GL	Gold	1440 / Cs.	B9992000GLCS	Gold	144 / Pk.	B9992010GL	Gold	1440 / Cs.	B9992010GLCS
Strawberry Red	1000 / Cs.	6776204				Strawberry Red	144 / Pk.	B9992000RD	Strawberry Red	1440 / Cs.	B9992000RDCS	Strawberry Red	144 / Pk.	B9992010RD	Strawberry Red	1440 / Cs.	B9992010RDCS

Technical Services

Rest easy with Thermo Fisher Scientific Service.

Shandon Slide File Storage System



- Holds 3" x 1" (75 x 26 mm) slides.
- Stores up to 100 slides (one per slot), 200 slides (2 per slot), or 400 slides (slide tray removed).
- Stackable for space efficient storage.
- Transparent hinged cover.
- Numbered slots for easy identification.
- Six drain holes provide complete emptying of any liquid in tray.

Description	Pkg/Qty	Order Number
Shandon Slide File System, Blue	Each	B1000700BL
Shandon Slide File System, Green	Each	B1000700GR
Shandon Slide File System, Gray	Each	B1000700GY
Shandon Slide File System, White	Each	B1000700WH
Shandon Slide File System, Yellow	Each	B1000700YW

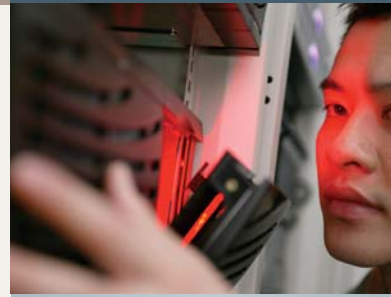
Shandon Wooden Slide File Storage Box



- Two styles; both accommodate up to 100 slides.
- Box size 7.5" x 8.5" (190 x 216 mm).
- Box 1602 is 1.6" (41 mm) high to hold 75 x 26 mm slides.
- Box 1601 is 2.4" (60 mm) high to store both 75 x 26 mm and 75 x 52 mm slides.
- Made of finished wood with brass hinges and clasps.

Description	Pkg/Qty	Order Number
Shandon Wooden Slide Storage Box, 60 mm	Each	1601
Shandon Wooden Slide Storage Box, 41 mm	Each	1602

Downtime equals wasted time.



At Thermo Fisher Scientific Anatomical Pathology, we understand the importance of maintaining an efficient laboratory and happy technicians. No matter what your service requirements are, Thermo Fisher has a solution that can keep you working at peak efficiency.

- Flexible programs to meet your workflow and laboratory needs.
- Our factory-trained technicians are conveniently located throughout the country and have years of experience servicing our equipment.
- Only original factory parts are used for repairs and maintenance.
- We provide 24/7/365 phone support (U.S. only).
- Technical hotline service available.

All equipment is provided with a one year parts and labor manufacturer's warranty. Additional programs can be purchased at the time of purchase of the instrument or prior to the expiration of the Bronze Plan.

Our Platinum Plan* (One year term)

- Covers replacement parts necessary for repairs
- Covers cost of repair and travel labor
- Repairs performed either on-site or at Thermo Fisher Scientific
- Includes one annual preventative maintenance (PM)
- If requested, loaner instrumentation will be provided at no charge if the instrument cannot be repaired within five days of notification
- All shipping charges are covered for the instrument when applicable
- Guaranteed response time of 24 hours on repairs (weekdays)

Our Gold Plan* (One year term)

- Covers replacement parts necessary for repairs
- Covers cost of repair and travel labor
- Repairs performed either on-site or at Thermo Fisher Scientific
- Includes one annual preventative maintenance (PM)
- If requested, loaner instrumentation will be provided at no charge if the instrument cannot be repaired within five days of notification
- All shipping charges are covered for the instrument when applicable

Our Silver Plan* (One year term)

- Covers replacement parts necessary for repairs
- Covers cost of repair and travel labor
- Repairs performed either on-site or at Thermo Fisher Scientific
- All shipping charges are covered for the instrument when applicable
- Includes one annual preventative maintenance (PM)

* Product Support Agreements vary in different countries.

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