Automated printed circuit board labelling

Enable Smart Manufacturing
Enable Smart Manufacturing

In Smart Manufacturing machines and systems generate, analyse and use data to optimise production efficiency, create flexible manufacturing processes and respond quickly and at low cost to changes in demand. An Industry 4.0 Smart Factory employs only systems that are interconnected and able to send or receive data from the other systems in the supply chain.

Via durable product labels that remain legible throughout entire production cycles, applied by accurate, automated print & apply systems, Brady can connect every circuit board in production to your Smart Factory. With our solution, every circuit board you produce can become a data generator to send information to your Manufacturing Execution System, to other machines and production cycles, or to your supply chain both up- and downstream.

Label your printed circuit boards

Accurate tracking of raw materials and finished goods throughout production processes can increase production efficiency, open up new markets and attract more customers by enabling a number of competitive advantages:

- increased product quality control
- increased product safety
- increased reputation and brand protection
- reduced counterfeit components
- reduced production process costs
- reduced warranty costs
- reduced product recalls
- legal compliance
- regulatory compliance

Automate your labelling

A fully automated printed circuit board labelling solution can activate the competitive advantages of Smart Manufacturing:

- increased workplace efficiency
- more data analysis for continuous improvement
- increased data accuracy
- faster problem intervention
- faster product batch localisation
- aligned raw material intake and machine
- operating parameters
Automated printed circuit board labelling

Brady offers a reliable and complete solution to automate printed circuit board labelling in order to enable Smart Manufacturing. Our solution includes these components:

- durable auto-apply labels
- reliable auto-apply systems
- custom support including setup, maintenance and parts
- extensive label testing in in-house laboratories
Automatic label print & apply

The **BSP61 Print and Apply System** offers a complete solution for fast automatic printed circuit board labelling anywhere along the production line. It combines a robust thermal transfer label printer with a reliable automatic applicator and is designed to consistently print and accurately position and apply labels in almost all manufacturing applications.

**The BSP61 Print and Apply System offers**

- real time processing with zero queue print & apply
- simultaneous print and apply
- crisp printing at 300 or 600 dpi
- various label size printing
- easy integration in production lines
- high accuracy in various placement angles
- easy connections with existing ERP systems
- ESD safety with anti-static brush
- great reliability with Brady’s printed circuit board labels

![Zero queue print & apply](image)
Automatic label feeding

The **ALF14 label feeder** automates label feeding to your existing pick & place machine. Fast, efficient and easy to use, the ALF14 Label Feeder offers effective automated label feeding and can be implemented anywhere along the production line.

Labels are simply treated like any other component and are placed with the accuracy of your current pick and place machine. The label feeder’s compact and durable design allows for flexibility and simplicity.

**The ALF14 label feeder offers**

- easy label loading and setup
- fast sensing and dispensing
- sends a warning signal when label guiding latch is left open
- easily adjustable liner width to avoid downtime
- compatibility with a wide range of label sizes
- compatibility with a range of pick & place machines
- easy integration thanks to a small footprint
- great durability
- easy signal interfacing for machine compatibility
- great reliability with Brady’s printed circuit board labels

![Flexible label feeding](image)

In-house laboratory
Durable labels
Custom support
In-house laboratory

**Automated print & apply**

**Product specifications**
on page 11

www.bradyeurope.com
Reliable & fast precision printing

The **BradyPrinter i7100 Industrial Label Printer** offers durable and highly accurate label printing for business critical high volume identification challenges in Aerospace, Defence, Mass Transit, Electronics, Automotive and Logistics industries. Quickly print a wide range of high quality identification materials for a variety of applications including cable, printed circuit board and asset & component identification.

**The BradyPrinter i7100 Industrial Label Printer offers:**
- an easily accessible touch screen interface
- a small system footprint
- fast consumable changes
- a powerful internal processor designed to handle up to 7000 labels per day
- up to 300 mm/sec print speed
- 600 dpi ultra-sharp printing
- centre alignment of prints for high printing accuracy
- interchangeable platen rollers for optimised printhead life time
- a wide range of high quality identification materials

Automated print & apply
In-house laboratory
Durable labels
Custom support

**Product specifications on page 12**
Durable printed circuit board labels

Brady’s **B-7727 polyimide printed circuit board label** is specifically designed for auto-apply applications. The specially designed APL (Auto Apply Label) range has a reduced liner width and works with a smaller ribbon for ultra-compatibility with auto-apply systems.

B-7727 can withstand temperatures up to 300°C and the powerful chemicals and cleaning processes used in PCB assembly, equipment and component manufacturing.

**The B-7727 printed circuit board label offers**

- outstanding auto-apply compatibility thanks to a reduced liner width
- great placement accuracy and high pick-up rate
- reduced risk of adhesive bleeding
- extreme washing/aggressive cleaning applications
- top or bottom label placement
- surface mount and through-hole assembly
- high heat (300°C) resistance
- great legibility, even after exposure to chemicals
- good performance in reflow, wave solder and board washing
- abrasion resistance
- printability on-site
- available as pre-printed labels on request

![Compatibility Chart]

**Zestron/Kyzen compatible**

Brady’s B-7727 printed circuit board label is compatible with cleaning agents from both Kyzen and Zestron. Our B-7727 label can resist the newest PCB cleaning agents.
Durable printed circuit board labels

Laser engravable labels are designed to increase the legibility of part markings and barcodes lasered on printed circuit boards and complex surfaces. Thanks to increased contrast, barcodes lasered on the label are easier to scan, which leads to reduced waste in supply chains with stringent traceability requirements.

**Laser engravable polyimide labels offer:**
- high barcode and marking legibility
- durable, high contrast markings
- reduced waste versus direct part marking
- outstanding compatibility with auto-apply systems
- available in black on white and white on black

**Why use labels?**
Label identification offers a number of distinct advantages for printed circuit board manufacturers:

<table>
<thead>
<tr>
<th>Attribute</th>
<th>THT Printing</th>
<th>Laser Marking</th>
<th>Direct Marking</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initial equipment costs</td>
<td>Low</td>
<td>Moderate</td>
<td>High</td>
</tr>
<tr>
<td>Recurring costs</td>
<td>Moderate</td>
<td>Moderate</td>
<td>Low</td>
</tr>
<tr>
<td>Marking permanence</td>
<td>Good</td>
<td>Excellent</td>
<td>Excellent</td>
</tr>
<tr>
<td>Print resolution</td>
<td>Good</td>
<td>Excellent</td>
<td>Good</td>
</tr>
<tr>
<td>Print speed</td>
<td>Excellent</td>
<td>Poor*</td>
<td>Poor*</td>
</tr>
<tr>
<td>Contrast</td>
<td>Excellent</td>
<td>Poor*</td>
<td>Poor*</td>
</tr>
<tr>
<td>Bar code grades</td>
<td>Excellent</td>
<td>Poor*</td>
<td>Poor*</td>
</tr>
<tr>
<td>Automation</td>
<td>Good</td>
<td>Excellent</td>
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<tr>
<td>Air handling</td>
<td>None</td>
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<td>Required</td>
</tr>
<tr>
<td>Easy to re-work</td>
<td>YES</td>
<td>YES</td>
<td>NO</td>
</tr>
</tbody>
</table>

*direct marking color contrast defined by substrate and laser marking mechanism

The B-7634 masking film for PCB’s offers excellent protection during electronic manufacturing processes, including wave soldering and hot air levelling. The polyimide masking film is ideal for auto-apply and can be removed cleanly.

**The B-7634 masking film:**
- acts as a protective film on PCB’s, components and throughholes
- can be used to protect or insulate in a range of high heat applications
- can be applied automatically with a pick & place machine and the ALF14 Label Feeder
Custom support

Service agreements

On top of an included 1 year warranty, Brady offers premium support service agreements for both the BSP61 Print and Apply System and the ALF14 Label Feeder. Service agreements are fully customisable to your needs and can include premium support by phone and/or support at your premises.

Available service agreement options:
- preventive maintenance
- fast repairs
- replacement devices
- dedicated in-house contact center
- support in 12 languages
- local presence
- man hours included
- no unexpected costs

Scanners & portable data terminals

High quality scanners are available. With portable or integrated scanners, your traceability system can evolve beyond supply chain requirements and generate data that can be analysed to create business cases for production optimisation.

Available scanner services:
- scanner purchasing
- scanner configuration
- scanner integration

Integration

Brady offers label creation software with automation options, next to advice, support and full collaboration with third parties to help integrate our traceability solutions in your production line. The advantages of Smart Manufacturing including increased production control, centralised monitoring and continuous improvement data can be fully enabled by a complete integrated printed circuit board labelling system.

In-house laboratory

Brady’s in-house laboratories rigourously test our solutions in line with standard testing methods. Our scientists test the performance of complete traceability label constructions including the liner, adhesives, label materials and label top coat to deliver solutions that solve your challenges. Our in-house lab can offer test results on request or test new traceability label requirements when relevant.

www.bradyeurope.com
Product specifications

**BSP61 Printer**

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Order Reference</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>710948</td>
<td>BSP61-62L</td>
<td>BSP61 Print &amp; Apply 600 dpi - for up to 50mm wide consumables to be combined with left applicator</td>
</tr>
<tr>
<td>710949</td>
<td>BSP61-34L</td>
<td>BSP61 Print &amp; Apply 300 dpi - for up to 101mm wide consumables to be combined with left applicator</td>
</tr>
<tr>
<td>710952</td>
<td>BSP61-62R</td>
<td>BSP61 Print &amp; Apply 600 dpi - for up to 50mm wide consumables to be combined with right applicator</td>
</tr>
<tr>
<td>710953</td>
<td>BSP61-34R</td>
<td>BSP61 Print &amp; Apply 300 dpi - for up to 101mm wide consumables to be combined with right applicator</td>
</tr>
</tbody>
</table>

**Printer Specifications**

- **Description**: Print and apply system precision developed for applications such as PCB assembly and marking, component and product marking in high quality.
- **Applications**: Higher volume applications such as PCB marking, component and product marking in high quality demanding industries like automotive, electronics and manufacturing.
- **Hours of Operation**: 24 hours/7 days
- **Recommended Usage per Day**: 7000
- **Software Compatibility**: LabelMark, Windows based driver for 3rd party software use, CodeSoft
- **Colour Capability**: Monocolour
- **Connectivity Options**: Serial, USB. Optional: Ethernet
- **Stand-alone Printing (Detached from PC)**: –
- **Cutter**: –
- **Hardware Options**: Applicators
- **Internal Memory**: 64 MB
- **Memory - Ram/Flash**: 8 MB
- **Label Dimension Limits**: Max. Width: 58.00 mm (BSP61-62) or 114 mm (BSP61-34), Min. Width: 4.00 mm (BSP61-62) or 10 mm (BSP61-34), Min. Height: 4.00 mm (BSP61-62) or 8 mm (BSP61-34)
- **Maximum Print Width (mm)**: 57.00 mm (BSP61-62) or 105.60 mm (BSP61-34)
- **Print Speed (mm/sec)**: 100 mm/sec (BSP61-62), 250 mm/sec (BSP61-34)
- **Print Technology**: Thermal Transfer
- **Print Resolution (dpi)**: 300 / 600

**BSP61 Applicator**

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Order Reference</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>710963</td>
<td>Applic. 4114L-200</td>
<td>Left applicator - cylinder stroke 200 mm - horizontal precision guide in feed direction</td>
</tr>
<tr>
<td>710964</td>
<td>Applic. 4114L-300</td>
<td>Left applicator - cylinder stroke 300 mm - horizontal precision guide in feed direction</td>
</tr>
<tr>
<td>710965</td>
<td>Applic. 4214L-200</td>
<td>Left applicator - cylinder stroke 200 mm - horizontal rotary cylinder (angle of rotation 90 other 180°)</td>
</tr>
<tr>
<td>710966</td>
<td>Applic. 4214L-300</td>
<td>Left applicator - cylinder stroke 300 mm - horizontal rotary cylinder (angle of rotation 90 other 180°)</td>
</tr>
<tr>
<td>710969</td>
<td>Applic. 4414L-200</td>
<td>Left applicator - cylinder stroke 200 mm - adjustable horizontal precision guides in X and Y direction (up to Y = 13 mm, X = 5 mm)</td>
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<tr>
<td>710970</td>
<td>Applic. 4414L-300</td>
<td>Left applicator - cylinder stroke 300 mm - adjustable horizontal precision guides in X and Y direction (up to Y = 13 mm, X = 5 mm)</td>
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<tr>
<td>710972</td>
<td>Applic. 4114R-200</td>
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</tr>
<tr>
<td>710973</td>
<td>Applic. 4114R-300</td>
<td>Right applicator - cylinder stroke 300 mm - horizontal precision guide in feed direction</td>
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<tr>
<td>710974</td>
<td>Applic. 4214R-200</td>
<td>Right applicator - cylinder stroke 200 mm - horizontal rotary cylinder (angle of rotation 90 other 180°)</td>
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<td>Applic. 4114L-200+PR</td>
<td>Left applicator - cylinder stroke 200 mm - horizontal precision guide in feed direction with pressure reducer</td>
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<td>Applic. 4414L-200+PR</td>
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<tr>
<td>711048</td>
<td>Applic. 4114R-200+PR</td>
<td>Right applicator - cylinder stroke 200 mm - horizontal precision guide in feed direction with pressure reducer</td>
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<tr>
<td>711049</td>
<td>Applic. 4114R-300+PR</td>
<td>Right applicator - cylinder stroke 300 mm - horizontal precision guide in feed direction with pressure reducer</td>
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<td>711050</td>
<td>Applic. 4214R-200+PR</td>
<td>Right applicator - cylinder stroke 200 mm - horizontal rotary cylinder (angle of rotation 90 other 180°) with pressure reducer</td>
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<td>Right applicator - cylinder stroke 300 mm - horizontal rotary cylinder (angle of rotation 90 other 180°) with pressure reducer</td>
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<td>Right applicator - cylinder stroke 300 mm - adjustable horizontal precision guides in X and Y direction (up to Y = 13 mm, X = 5 mm) with pressure reducer</td>
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</table>

**BSP61 Printer Accessories**

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Order Reference</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>133251</td>
<td>PKC-6</td>
<td>Printer Cleaning Kit - Thermal Transfer Printers</td>
</tr>
</tbody>
</table>
Product specifications

ALF14-Label Feeder

Specifications

Weight
0.45 kg

Size W x D x L (mm)
43 x 115 x 54

Height of pickup position (mm)
50

Chopping time
0.25s for 6.35 mm x 6.35 mm label

Approval/Compliance
CE, WEEE, RoHS

Voltage
24 V

Power Consumption
max. 24 W

Current Consumption
max. 1 A

Power Supply
Main supply wall plug charger, Machine cable (Eurplacer, Fritsch, Juki, Siemens, Yamaha)

Connector
9 pin SUB-D Male

Compatible Pick & Place Systems
Siemens ASM Siplace Series, Europlacer, Fritsch, Fuj NXT, Heeb innotec, Hitachi, Juki Series 2000, MyData, Samsung SM Series, Yamaha, Assembléon (others pending)

Signal Interface
- Label Feed Request
- Label ready
- Error

Minimum Label Size (mm)
4 x 4

Maximum Label Size (mm)
23 x 23

Max. Liner Width (mm)
25

Label Conveying Speed
10-200 mm/s

Label Positioning Frequency
up to 6 labels/second (depends on label size)

Label feeder / SMT machine compatibility

Is your equipment not listed? Contact us for more detail!

www.bradyeurope.com

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BradyPrinter i7100

Industrial label printer

Printer Specifications

Description
BradyPrinter i7100 Industrial Label Printer

Includes
This i7100 printer comes in a cardboard box. It ships with a power cord, 2 empty ribbon cores, a USB cable, a product CD holding the driver, the user manual in languages, the configuration/settings manual in English, a printed user manual in English and a Brady Workstation Basic Suite or a Brady Workstation PWID Suite.

Applications
General & Industrial Identification; Circuit Board & Component Identification; Wire & Cable Marking; Laboratory Identification

Print Speed (mm/sec)
up to 300

Internal Memory
256MB RAM, 50MB IFFS Flash, SD card, slot

Software Compatibility
Brady Workstation, LabelMark, Windows based driver for 3rd party software use, CodeSoft

Recommended Usage per Day
7000

Language Support
Arabic (Egypt), Bulgarian, Croatian, Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Lithuanian, Macedonian, Norwegian (Bokmål), Persian (Farsi), Polish, Portuguese, Romanian, Russian, Serbian, Slovenian, Spanish, Swedish, Turkish

Colour Capability
Monocolour

Weight (kg)
10

Size W x H x D (mm)
252 x 288 x 460

Max. Label Width (mm)
110 mm

Min. Label Width (mm)
4 mm

Max. Liner Width (mm)
114 mm

Min. Liner Width (mm)
9 mm

Max. Print Width (mm)
105.7 mm

Warranty
2 years

Brady Workstation Product and Wire Identification Software Suite
Quickly identify your products and wires with customised text or graphical labels, using serialised or imported data. Workstation.BradyID.com/ProductandWire

Interfaces on the back of the device

SD Memory Card Slot
2 x USB Host Interface Ports
USB 2.0 High-Speed Device for PC Connection
Ethernet 10/100 BASE-T Port
I/O Interface Connection (standard on peel model, optional on non-peel model)

BradyPrinter i7100 accessories

Art. No. | Order Reference | Description
--- | --- | ---
133251 | PDX-6 | Printer Cleaning Kit - Thermal Transfer Printers
149043 | I7100-PR-120mm | 120mm Platen Roller with synthetic rubber coating
149044 | I7100-PR-S-120mm | 120mm Platen Roller with silicone rubber coating
149048 | I7100-PR-25mm | 25mm Platen Roller with synthetic rubber coating
149051 | I7100-RA-120mm | 120mm Rewind Assist Roller with synthetic rubber coating
149054 | I7100-PR-R-80mm | 80mm Platen Roller with synthetic rubber coating
149055 | I7100-PR-50mm | 50mm Platen Roller with synthetic rubber coating
149069 | I7100-DUTTER-TRAY | Cutter DUMO with Tray
149070 | I7100-ANTI-S-BRUSH | Antistatic Brush
149071 | I7100-ID-LABEL-BOX | Label Selection I/O Box
149072 | I7100-PS1000MP | Present Sensor PS1000MP
149073 | I7100-ID-CONNECTOR | I/O Interface Connector SUB-D 25pins
149074 | I7100-RG400-PLATE | Rewind Guide Plate RG400
149075 | I7100-PS900 | Present Sensor PS900
149077 | I7100-ID-INTERFACE | I/O Interface
149078 | I7100-PERF-CUTTER | Perforation Cutter PCU400
149080 | BT-JS-ADAP | Bluetooth USB Adapter
149131 | WLAN-EXANT | USB Wlan Stick with External Antenna
149132 | I7100-ADAPTER-100 | i7100 Adapter for 10mm Core
149135 | I7100-PEELTEXT-410 | i7100 Extended Peel off plate DP410
149207 | I7100-TEAR-OFF | i7100 Tear off Plate
149208 | I7100-HEX-KEY-TOOL | I7100 Spare Hex Key Tool
197823 | SD-CARD-8GB | SD Memory card 8GB

Warranty
2 years

Max. Print Width (mm)
105.7 mm

9 mm

Min. Liner Width (mm)
Max. Liner Width (mm)
114 mm

4 mm

Min. Label Width (mm)
Max. Label Width (mm)
252 x 288 x 460

Size W x H x D (mm)
Weight (kg)
10

Recommended Usage per Day
7000

Language Support
Arabic (Egypt), Bulgarian, Croatian, Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Lithuanian, Macedonian, Norwegian (Bokmål), Persian (Farsi), Polish, Portuguese, Romanian, Russian, Serbian, Slovenian, Spanish, Swedish, Turkish

Colour Capability
Monocolour

Weight (kg)
10

Size W x H x D (mm)
252 x 288 x 460

Max. Label Width (mm)
110 mm

Min. Label Width (mm)
4 mm

Max. Liner Width (mm)
114 mm

Min. Liner Width (mm)
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Warranty
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SD Memory Card Slot
2 x USB Host Interface Ports
USB 2.0 High-Speed Device for PC Connection
Ethernet 10/100 BASE-T Port
I/O Interface Connection (standard on peel model, optional on non-peel model)
Printed circuit board labels

Circuit board label

Blank labels

<table>
<thead>
<tr>
<th>Diagram</th>
<th>Order Reference</th>
<th>Colour</th>
<th>Finish</th>
<th>Width A (mm)</th>
<th>Height B (mm)</th>
<th>Vertical Repeat D (mm)</th>
<th>Web Width E (mm)</th>
<th>Labels per Roll</th>
<th>Recommended Ribbon</th>
</tr>
</thead>
<tbody>
<tr>
<td>▲</td>
<td>APL-01-7727-10</td>
<td>White</td>
<td>Gloss</td>
<td>5.00</td>
<td>5.00</td>
<td>7.99</td>
<td>11.43</td>
<td>10000</td>
<td>R6000HF</td>
</tr>
<tr>
<td>▲</td>
<td>APL-02-7727-10</td>
<td>White</td>
<td>Gloss</td>
<td>6.35</td>
<td>6.35</td>
<td>10.16</td>
<td>11.43</td>
<td>10000</td>
<td>R6000HF</td>
</tr>
<tr>
<td>▲</td>
<td>APL-03-7727-10</td>
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</tr>
<tr>
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<td>White</td>
<td>Gloss</td>
<td>9.53</td>
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<td>12.09</td>
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<td>White</td>
<td>Gloss</td>
<td>19.05</td>
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<td>R6000HF</td>
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Pre-printed labels

<table>
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<tr>
<th>Diagram</th>
<th>Order Reference</th>
<th>Colour</th>
<th>Finish</th>
<th>Width A (mm)</th>
<th>Height B (mm)</th>
<th>Vertical Repeat D (mm)</th>
<th>Web Width E (mm)</th>
<th>Labels per Roll</th>
<th>Recommended Ribbon</th>
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<tbody>
<tr>
<td>▲</td>
<td>APL-01-7727-10-PRT</td>
<td>White</td>
<td>Gloss</td>
<td>5.00</td>
<td>5.00</td>
<td>7.99</td>
<td>11.43</td>
<td>10000</td>
<td>R6000HF</td>
</tr>
<tr>
<td>▲</td>
<td>APL-02-7727-10-PRT</td>
<td>White</td>
<td>Gloss</td>
<td>6.35</td>
<td>6.35</td>
<td>10.16</td>
<td>11.43</td>
<td>10000</td>
<td>R6000HF</td>
</tr>
<tr>
<td>▲</td>
<td>APL-03-7727-10-PRT</td>
<td>White</td>
<td>Gloss</td>
<td>7.00</td>
<td>7.00</td>
<td>10.85</td>
<td>11.43</td>
<td>10000</td>
<td>R6000HF</td>
</tr>
<tr>
<td>▲</td>
<td>APL-07-7727-10-PRT</td>
<td>White</td>
<td>Gloss</td>
<td>19.05</td>
<td>6.35</td>
<td>10.16</td>
<td>22.23</td>
<td>10000</td>
<td>R6000HF</td>
</tr>
</tbody>
</table>

Print ribbon

<table>
<thead>
<tr>
<th>Colour</th>
<th>Width (mm)</th>
<th>Length (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black</td>
<td>30.00</td>
<td>300.00</td>
</tr>
</tbody>
</table>

Printed circuit board labels

Laser engravable labels B-730 range

Standard labels

<table>
<thead>
<tr>
<th>Diagram</th>
<th>Order Reference</th>
<th>Colour</th>
<th>Finish</th>
<th>Width A (mm)</th>
<th>Height B (mm)</th>
<th>Vertical Repeat D (mm)</th>
<th>Web Width E (mm)</th>
<th>Labels per Roll</th>
</tr>
</thead>
<tbody>
<tr>
<td>▲</td>
<td>LZR-208-730-10</td>
<td>Black</td>
<td>Matt</td>
<td>5.00</td>
<td>5.00</td>
<td>7.98</td>
<td>25.00</td>
<td>10000</td>
</tr>
<tr>
<td>▲</td>
<td>LZR-209-730-10</td>
<td>Black</td>
<td>Matt</td>
<td>6.35</td>
<td>6.35</td>
<td>10.16</td>
<td>25.00</td>
<td>10000</td>
</tr>
<tr>
<td>▲</td>
<td>LZR-210-730-10</td>
<td>Black</td>
<td>Matt</td>
<td>9.53</td>
<td>9.53</td>
<td>12.70</td>
<td>25.00</td>
<td>5000</td>
</tr>
<tr>
<td>▲</td>
<td>LZR-212-730-10</td>
<td>Black</td>
<td>Matt</td>
<td>19.00</td>
<td>6.35</td>
<td>10.16</td>
<td>25.00</td>
<td>10000</td>
</tr>
</tbody>
</table>

Auto-apply (APL) labels

<table>
<thead>
<tr>
<th>Diagram</th>
<th>Order Reference</th>
<th>Colour</th>
<th>Finish</th>
<th>Width A (mm)</th>
<th>Height B (mm)</th>
<th>Vertical Repeat D (mm)</th>
<th>Web Width E (mm)</th>
<th>Labels per Roll</th>
</tr>
</thead>
<tbody>
<tr>
<td>▲</td>
<td>APL-01-730-10</td>
<td>Black</td>
<td>Matt</td>
<td>5.00</td>
<td>5.00</td>
<td>7.99</td>
<td>11.43</td>
<td>10000</td>
</tr>
<tr>
<td>▲</td>
<td>APL-02-730-10</td>
<td>Black</td>
<td>Matt</td>
<td>6.35</td>
<td>6.35</td>
<td>10.16</td>
<td>11.43</td>
<td>10000</td>
</tr>
<tr>
<td>▲</td>
<td>APL-03-730-10</td>
<td>Black</td>
<td>Matt</td>
<td>7.00</td>
<td>7.00</td>
<td>10.85</td>
<td>11.43</td>
<td>10000</td>
</tr>
<tr>
<td>▲</td>
<td>APL-05-730-10</td>
<td>Black</td>
<td>Matt</td>
<td>9.53</td>
<td>9.53</td>
<td>12.70</td>
<td>12.70</td>
<td>5000</td>
</tr>
<tr>
<td>▲</td>
<td>APL-07-730-10</td>
<td>Black</td>
<td>Matt</td>
<td>19.05</td>
<td>6.35</td>
<td>10.16</td>
<td>22.23</td>
<td>10000</td>
</tr>
</tbody>
</table>
Printed circuit board label material range

<table>
<thead>
<tr>
<th>B#</th>
<th>Base material</th>
<th>Adhesive Colour</th>
<th>Finish</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>B-420</td>
<td>Polyester</td>
<td>White Gloss</td>
<td></td>
<td>Pre-process labeling of Printed Circuit Board and Electronic Component process labelling, especially designed for laser engraving and die-cutting</td>
</tr>
<tr>
<td>B-436</td>
<td>Polyimide</td>
<td>Removable Amber</td>
<td>Matt</td>
<td>Printed Circuit Board and Component process labelling, clearly removable</td>
</tr>
<tr>
<td>B-717</td>
<td>Polyimide</td>
<td>Permanent White</td>
<td>Gloss</td>
<td>Printed Circuit Board and Component process labelling, static dissipative adhesive</td>
</tr>
<tr>
<td>B-718</td>
<td>Polyimide</td>
<td>Permanent White</td>
<td>Gloss</td>
<td>Printed Circuit Board and Component process labelling, static dissipative adhesive</td>
</tr>
<tr>
<td>B-719</td>
<td>Polyimide</td>
<td>Permanent White</td>
<td>Matt</td>
<td>Printed Circuit Board and Component process labelling, static dissipative adhesive</td>
</tr>
<tr>
<td>B-724</td>
<td>Polyimide</td>
<td>Permanent Amber</td>
<td>Matt</td>
<td>Printed Circuit Board and Component process labelling</td>
</tr>
<tr>
<td>B-727</td>
<td>Polyimide</td>
<td>Permanent White</td>
<td>Gloss</td>
<td>Printed Circuit Board and Component process labelling</td>
</tr>
<tr>
<td>B-728</td>
<td>Polyimide</td>
<td>Permanent White</td>
<td>Matt</td>
<td>Printed Circuit Board and Component process labelling</td>
</tr>
<tr>
<td>B-730</td>
<td>Polyimide</td>
<td>Permanent Black</td>
<td>Matt</td>
<td>Printed Circuit Board and Component process labelling, especially designed for laser engraving</td>
</tr>
<tr>
<td>B-731</td>
<td>Polyimide</td>
<td>Permanent Black</td>
<td>Matt</td>
<td>Printed Circuit Board and Component process labelling, especially designed for laser engraving, static dissipative adhesive</td>
</tr>
<tr>
<td>B-734</td>
<td>Polyimide</td>
<td>White Matt</td>
<td></td>
<td>Printed Circuit Board and Component process labelling, especially designed for laser engraving</td>
</tr>
<tr>
<td>B-735</td>
<td>Polyimide</td>
<td>White Matt</td>
<td></td>
<td>Printed Circuit Board and Component process labelling, especially designed for laser engraving, static dissipative adhesive</td>
</tr>
<tr>
<td>B-777</td>
<td>Polyimide</td>
<td>Permanent White</td>
<td>Gloss</td>
<td>Printed Circuit Board and Component process labelling, resists to aggressive cleaning processes, ideal for small font printing</td>
</tr>
<tr>
<td>B-7727</td>
<td>Polyimide</td>
<td>Permanent White</td>
<td>Gloss</td>
<td>Printed Circuit Board and Component process labelling, especially designed for auto-apply</td>
</tr>
</tbody>
</table>

Auto-apply masking film

<table>
<thead>
<tr>
<th>Diagram</th>
<th>Order Reference</th>
<th>Colour</th>
<th>Finish</th>
<th>Diameter C (mm)</th>
<th>Vertical Repeat D (mm)</th>
<th>Labels per Roll</th>
</tr>
</thead>
<tbody>
<tr>
<td>✴</td>
<td>CMKC-0197-7634</td>
<td>Clear</td>
<td>Gloss</td>
<td>5.00</td>
<td>8.03</td>
<td>5000</td>
</tr>
<tr>
<td>✴</td>
<td>CMKC-0236-7634</td>
<td>Clear</td>
<td>Gloss</td>
<td>6.00</td>
<td>9.01</td>
<td>5000</td>
</tr>
<tr>
<td>✴</td>
<td>CMKC-0276-7634</td>
<td>Clear</td>
<td>Gloss</td>
<td>7.00</td>
<td>10.16</td>
<td>5000</td>
</tr>
<tr>
<td>✴</td>
<td>CMKC-0315-7634</td>
<td>Clear</td>
<td>Gloss</td>
<td>8.00</td>
<td>11.04</td>
<td>5000</td>
</tr>
<tr>
<td>✴</td>
<td>CMKC-0354-7634</td>
<td>Clear</td>
<td>Gloss</td>
<td>9.00</td>
<td>12.15</td>
<td>5000</td>
</tr>
<tr>
<td>✴</td>
<td>CMKC-0394-7634</td>
<td>Clear</td>
<td>Gloss</td>
<td>10.00</td>
<td>13.02</td>
<td>5000</td>
</tr>
<tr>
<td>✴</td>
<td>CMKC-0433-7634</td>
<td>Clear</td>
<td>Gloss</td>
<td>11.00</td>
<td>14.04</td>
<td>5000</td>
</tr>
</tbody>
</table>

Clean Liner Technology

Brady’s traceability labels can be equipped with Clean Liner Technology (CLT), an innovative solution that prevents adhesive bleeding. CLT enables a smooth production cycle by eliminating downtime due to labels not being placed, or due to a fractured liner.

Electrostatic discharge

Brady’s B-717, B-718, B-719 and B-731 printed circuit board labels do not contain high charging materials. The labels prevent the build-up of static electricity to protect PCB’s from potentially damaging electrostatic discharge.
Product Information Resources

**PCB Automation Web Page**
You will find links to the full offer of materials suitable for PCB labelling as well as a range of automated print & apply systems.

**Design any label with Brady Workstation apps**
Brady Workstation offers professional, intuitive apps to design quality product and cable labels and safety signs.
With Brady Workstation label design becomes easier, faster and quickly adaptable to new label norms thanks to centralised updates. For more information visit [www.bradyeurope.com/workstation](http://www.bradyeurope.com/workstation).

**Find us on YouTube**
On Brady’s YouTube channel you can find a quick overview of our wide range of portable and benchtop printers and several how-to videos.
[www.youtube.com/bradyeurope](http://www.youtube.com/bradyeurope)

**Downloads**

**Brady Technical Data Sheets**
For indept information on any Brady material or print ribbon, visit [www.bradyeurope.com/tds](http://www.bradyeurope.com/tds). To search, you enter keywords pertaining to your desired material or If you know the brady “B”-number for the material, simply enter the appropriate number.

Enter B# (B-XX) or keyword →
Our mission is to identify and protect people, products and places.

BRADY was founded in 1914 in Eau Claire, Wisconsin, as W.H. BRADY Co., and renamed BRADY Corporation in 1998. The company began selling products internationally in 1947. In 1984, BRADY went public, with stock trading on the Nasdaq Stock Market, and in 1999, moved trading of its stock to the New York Stock Exchange, where it trades under the symbol BRC. The company’s global headquarters is in Milwaukee, Wisconsin.

COMPANY OVERVIEW
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BRADY MANUFACTURES AND MARKETS:
• products for identification and safety applications such as signs and markers, printing systems and software to produce identification products on-site and on demand
• products for wire identification, including labelling materials and tools for wire and cable marking in the electrical, datacom and telecommunication markets
• high-performance identification products, including labels and signs that remain legible and highly adhesive even in harsh environments
• products that identify people and enhance security by ensuring the right persons are in the right places at the right time

OPERATIONS – SOME FACTS:
• 6500 employees around the world
• Operations in 29 countries
• Distribution in more than 100 countries through more than 4,400 distributor partners

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