



BSP™61 - Print and Apply System



Complete labelling solution to obtain 100% traceability

The BSP™61 Print and Apply System offers a fully automatic labelling solution anywhere along the production line. It combines a thermal transfer label printer with an automatic applicator and is designed to consistently print and accurately position and apply labels in almost all manufacturing applications. The BSP61 combines precision, versatility and high print quality and offers best value for money.

Increase your productivity

The use of high-performance equipment for labelling in a production environment maximises efficiency by enabling first-time clean, clear and accurate labelling, streamlined traceability, reducing material wastage, maintaining uptime and measuring WIP. The result? A reduction of each unit's total production cost. Tier 1 automotive suppliers have reported up to 70% labour cost savings and an increase in production efficiency and quality.



Meets the demands of your environment

The BSP™61 Print and Apply System is developed for applications such as PCB marking, component and product marking in high quality demanding industries like automotive, electronics, manufacturing and laboratory. Designed for optimum, easy integration into existing production lines, the BSP61 has a compact footprint and offers a software that is compatible with your host system.

Your benefits

Zero queue print and apply	Follows real time processing and tracking
	eliminating the potential for error
Printing and labelling at the sai	me time
Multi-tasking capability	Allows printing and labelling at the same time to maximise efficiency in the produc- tion process, reducing production time and therefore total unit cost
A specially developed Auto App	ly labelling material
Brady tailored label materials for Auto Apply	Best print quality and dispensability. Materials available for every harsh environment, such as, chemical washes, abrasion, temperature and weathering including UV. Specially developed ROHS PCB labelling material.
Ensure correct traceability with	crisp printing
300 and 600 dpi printing capability	Maximum flexibility for labelling. With the quality of 600 dpi, small, legible labels are guaranteed. Capable of printing 2D codes (DataMatrix, QR,) on the smallest of labels.
Label sizes for every applicatio	n
Prints and applies a range of labels sized from 4 mm to 60 mm height, and 4 mm to 115 mm width	Label sizing to suit every application. Ideal for labelling small components or surfaces to ensure correct traceability.

Maximum efficiency in production	on line integration
Manual or automatic feeding by adding a foot switch or interfacing to a PLC	With a choice of how to control the print and apply cycle, it maximises efficiency in production line integration
One system for many application	ns
3 standard applicators: 1 or 2 axis placement and rotation 90° or 180°	Brings both efficiency and flexibility. Use the same print & apply machine to label different components on same surface or product i.e. PCB even if components are positioned differently on surface
Accurate label positioning	
Very high placement accuracy +/- 0.3 mm	Best quality labelling, to ensure content is in the right place on the label and also the label is correctly positioned in situ. Ensures 100% accurate traceability
Easy integration into existing p	roduction lines
Compact size	A small footprint and overall size allows fast, easy integration into existing production lines and work areas.
Seamless software integration	
Direct programming with J-Script, printer language is easy to integrate into your host (manufacturing / ERP) system	No data duplication, error and risk reduction, ensure correct traceability
ESD safe working	
Anti-static brush	Ensures optimal functionality in ESD production environments

Why Brady labelling solutions?

- Brady runs one of the world's largest R&D programmes on the design and production of industrial-grade labels. Our expertise in the application of specialist inks, adhesives, plastics and other materials used in labels is unrivalled.
- Brady products and services are focused on its industrial customer base. We have a team of qualified engineering consultants who know how to implement a lineside labelling system for maximum efficiency.
- Brady labels are manufactured in facilities with ISO/TS 16949 certification. You can rest assured that your production process will not be hindered by failures in our products.
- Brady supplies via specialised integrators a complete labelling system that includes the means to print and apply labels within your production process and link the printing software into your production software system, quickly and easily.



Problem free automatic labelling

Brady have developed unique solutions that remove the problems of automating label application to ensure reliable tracking and tracing.

- No Cutting into the liner custom developed Clean Liner Technology (CLT) prevents over cutting into the liner and ensures a perfect result from the outset.
- Clean pick up our applicator head will pick up every label without exception
- No Adhesive bleeding CLT eradicates any problems with the adhesive
- No Label curling our labelling materials are developed specifically for automatic application with a no-curl guarantee
- Accuracy correct placement first time, every time

High performance identification materials for demanding applications require:

- A label material and material top coat that is carefully matched with an ink to create the most durable print for your application
- An adhesive selected to adhere to the application surface and stay applied for the product's lifetime
- Production expertise to ensure that however the product is applied, it can be dispensed and/or handled efficiently



Whatever your application, our carefully developed material combinations withstand nearly any chemical that is found in use in the industry, often without the need to laminate.

Our label materials are extensively tested in our world-class laboratories for resistance to chemicals, abrasion, temperature on one line and weathering, including UV. In many cases it is possible to test specific material combinations to specifications defined by you.

Technical details



Large graphic display

White backlight guarantees clarity of display.

Depending on the installation position the display can be rotated in 90° steps.

Navigator pad

Simple, interactive menu control. Applicable functions are illuminated. Menu handling is easy to comprehend.

3 Ribbon retainer

The three part tightening axles allow a fast and easy ribbon exchange.

4 Solid, buckling resistant metal chassis

Manufactured from die cast aluminium. All components are fixed to the body.

5 Assembly applicator

The applicator is attached by hinges and can be changed easily.

6 Printing offset

After changing the label roll the printing position is set up automatically after a few printed labels. This label position is then stored, even if the machine is turned off.

7 Printhead

The printhead can be replaced easily.

Adjustments and set-ups are not necessary.

8 Ribbon saver

It is used for labels which are to be only partially printed. The printhead is lifted off in the plain area and the ribbon is stopped during label feed.

9 Transport system

The ball bearing transport rollers ensure a highly accurate printing and the precise feeding of labels.

10 Label unwinder

The swing lever and the integrated brake make sure that the labels are unwound with constant tension.

11 Rewinder

The liner of a label roll is rewound after the labels have been peeled off. The clamping shafts enable an easy exchange of the roll.

12 Print direction

All BSP61 label printers with applicators are available in left and right orientation.

Interfaces



- RS232C- Interface
- 2 USB 2.0 Slave interface
- 3 Ethernet 10/100 Base T-interface with TCP/IP
- Slot for Wireless LAN-card
- Two USB-Master-interfaces to connect an external operation panel, keyboard, scanner or service key
- 6 Slot for memory card CompactFlash Type I
- Connection for warning light

Indicates the display and the printer status

Green Ready for operation

Yellow Pre-warning: end of label, end of ribbon

Red Printing or applying error

- Connection main valve for air pressure:
 On / off signal for compressed air supply
- Connection external E-stop In connection with a main valve this interface allows to cut off the compressed air supply in case of an emergency
- Digital I/O interface 25-pin SUB-D socket.

All 24V in- and outputs are optically isolated

Inputs

Start printing and applying

Reprint
Label feed

Delete print job Pre-warning end of ribbon
Pause Pre-warning end of label
Label dispensed Error end of ribbon

Label dispensed Error end of ribbo Reset Error end of label

Stop printing and applying La Print first label Ba

Rotation 4200

Label in dispensing position

Basic position / upper end position Applying position / lower end position

Common alarm

Outputs

Ready to operate

Paper feed on

Print data available

Options



Interface Centronics bi-directional acc. IEEE 1284.
Interface RS422/RS485 1.200 up to 230.400 Baud/8 Bit.

The interfaces are connected to the PC.

Connection to the printer via mini USB-connection cable.



Label selection box-I/O-box. Via SPS up to 16 different labels can be loaded from a memory card.

Operation of four in-/outputs via Basic Interpreter.



WLAN card 802.11 b/g.

Technical data

1. Printhead	BSP61-62	BSP61-34
Print method		r/Direct thermal
Print resolution dpi	600	300
Print speed up to mm/s	100	250
Print width up to mm	57	105.60
2. Material		
Labels on rolls	Paper, cardboard,	textiles, synthetics
		C, PU, acrylate, PI
Thickness mm / weight g/m ²	0.055 - 0.3	5 / 60 - 160
Width Labels ¹⁾ mm	4 - 58	10 - 114
Width of liner Spool / Roll	10 - 62 / 25 - 62	-/25 - 118
Label height1) when dispensing mm	4 - 200	8 - 250
Media roll: Total Ø up to mm	205	/ 305
Core Ø mm for BSP61	40	_
Roll / Adapter	40 / 50	40 / 50
Roll	76	76
Winding direction	outside	or inside
3. Ribbon	Odtoldo	or include
lnk	outside	or inside
Roll diameter up to mm	80	80
·		
Core diameter mm	25	25
Ribbon length variable up to m	500	500
Width ²⁾ mm	60	114
4. Internal rewinder		
Total diameter up to mm		/ 210
Core diameter mm	76	76
5. Dimensions of the printer		
Height mm Label roll Ø 205 mm	4(00
Label roll Ø 305 mm	50	38
Depth mm Label roll Ø 205 mm	40	00
Label roll Ø 305 mm	5	18
Width mm	200	255
Weight kg	15	16
6. Label sensor	15	10
See-through sensor	for leading edge of t	
Definition of the better /		nd of material
Reflective sensor from the bottom / from the top	ior printii	ng marks
Distance from center to shoulder middle wa	all 2 - 26	2 - 47
7. Electronics	uii 2 20	2 11
Processor high speed 32 Bit Clock rate	26	36
MHz	21	50
(RAM) MB	6	i4
· /		
IMELLIOLY IEES IVIB FIASH		
		3
Slot for memory CompactFlash-card Type I	•	3
Slot for memory CompactFlash-card Type I Slot for Wireless LAN-card		3 ■
Slot for memory CompactFlash-card Type I Slot for Wireless LAN-card	Real-time clock, p	3 ■ Inintout of time and
Slot for memory CompactFlash-card Type I Slot for Wireless LAN-card Battery buffer for	Real-time clock, p	3 rintout of time and with white shout of time and the with shut-down
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*pending

■ Standard □ Option

10. Operation panel		
Buttons /	Pause, Feed, Cancel, Menu	ı, Enter,
LED-display:	4 x Cursor	,,
LCD-graphic display:	Width 60, Height 40 mm Text 4 lines, 20 characters	ner line
11. Settings	Toxt Timos, 25 ondrastors	
-	Digital or analogue clock	time
	System settings Print parameters	date interfaces
	25 language settings	security
12. Monitoring		
Warning if:	End of ribbon End of labels	
Stop printing if:	End of ribbon	
	End of labels	.
On the display	Printhead open Data reception	Clock
	WLAN field intensity	Date sheet
1	Ethernet state Used memory	abc debug Input buffer
	Temperature printhead	Remaining quantity of ribbon
	Access to memory card	- 1
13. Test routines	Whon switched an with to-	ting of printhoad
System diagnosis Short Status,	When switched on with tes	state, profile of label, test grid,
Status print	monitor mode, PPP state	otato, promo or label, test griu,
Status reports		nformation about setting, e.g. print
	length counter, runtime cou	inter etc. ia software command. Detailed status
	messages on the display, e	
44 5	barcode error etc	
14. Fonts Font types	5 Pitman fonts incl. OCD A	, OCR-B and 3 Vector fonts Swiss
ront types		onospace 821 available internally,
	loadable TrueType fonts.	
Character sets	Optional Chinese (simplified	DOS 437, 737, 775, 850, 852, 857,
Cridiaciei seis		IC 500, ISO 8859-1 up to -10 and -13
		F-8, Macintosh Roman, DEC MCS,
	K0I8-R. All West and Fast Furopear	n latin, cyrillic, greek, hebrew and
		orted. Optional Thai and Chinese.
Bitmap fonts	Size of width and height 1 -	3 mm
	Zoom 2-10 Orientation 0°, 90°, 180°, 27	70°
Vector- /	Size of width and height 0.9	
TrueType fonts	variable zoom, Orientation 360° in steps of	: 10
Font formats	Bold, italic, underlined, outl	
	depending on character for	
Font width	Variable	
15. Graphics Graphic elements	Line arrow how girale allin	ose, filled and filled with fading
Graphic formats	PCX, IMG, BMP, TIF, MAC,	<u> </u>
16. Barcodes	T OX, IMIC, BIVIT, TIT, WINO,	an, i iva
Linear barcodes	Code 39, Code 93	Interleaved 2 / 5
	Code 39 Full ASCII	Ident- and lead
	Code 128 A, B, C Codabar	code of Deutsche Post AG
	EAN 8, 13	JAN 8, 13
	EAN / UCC 128 EAN / UPC Appendix 2	MSI Plessey
	EAN / UPC Appendix 5	Postnet
	FIM HIBC	RSS 14
2D-Codes	1= -	UPC A, E, E0 Matrix, PDF 417, Micro PDF 417, UPS
	Maxicode, QR-Code, RSS	14 truncated, limited, stacked and
		AN-Datamatrix, GS1 Data Bar
		module width and ratio. Orientation ally with check digit, printed
		code, depending on code type.
17. Software	1011	
Programming	J-Script direct programmin	g =
	abc-Basic Compiler Database Connector	
System diagnosis /	Printer monitoring	
administration	Network Manager	_
Accredited for	32 / 64 bit for	
Windows driver	Windows XP Server 20 Windows Vista Server 20	
	Windows 7 Server 20	
Stand-alone operation	55.15/ 25	■

The label size is additionally defined through the type of the applicator. Depending on label size, material and adhesive limitations are possible. Critical material or applications have to be tested and cleared.

²⁾ For best print performance the width of the ribbon should be approximately the same

Ordering Options

Order Reference	Description
BSP61-62L	BSP61 for up to 50 mm wide consumables - 600 dpi - to be combined with left applicator
BSP61-34L	BSP61 for up to 101 mm wide consumables - 300 dpi - to be combined with left applicator
BSP61-62R	BSP61 for up to 50 mm wide consumables - 600 dpi - to be combined with right applicator
BSP61-34R	BSP61 for up to 101 mm wide consumables - 300 dpi - to be combined with right applicator

Product Supplied

Label printer, Power cable Type E+F, length 1.8 m, Connecting cables USB, length 1.8 m, Operation manual in English and German

	Order Reference	Description
	Applic. 4114L-200	Left applicator - cylinder stroke 200 mm - horizontal precision guide in feed direction
	Applic. 4114L-300	Left applicator - cylinder stroke 300 mm - horizontal precision guide in feed direction
A	Applic. 4214L-200	Left applicator - cylinder stroke 200 mm - horizontal rotary cylinder (angle of rotation 90 other 180°)
	Applic. 4214L-300	Left applicator - cylinder stroke 300 mm - horizontal rotary cylinder (angle of rotation 90 other 180°)
	Applic. 4414L-200	Left applicator - cylinder stroke 200 mm - adjustable horizontal precision guides in X and Y direction (up to Y = 13 mm, X = 5 mm)
	Applic. 4414L-300	Left applicator - cylinder stroke 300 mm - adjustable horizontal precision guides in X and Y direction (up to Y = 13 mm, X = 5 mm)
	Applic. 4114R-200	Right applicator - cylinder stroke 200 mm - horizontal precision guide in feed direction
ın.	Applic. 4114R-300	Right applicator - cylinder stroke 300 mm - horizontal precision guide in feed direction
	Applic. 4214R-200	Right applicator - cylinder stroke 200 mm - horizontal rotary cylinder (angle of rotation 90 other 180°)
H	Applic. 4214R-300	Right applicator - cylinder stroke 300 mm - horizontal rotary cylinder (angle of rotation 90 other 180°)
	Applic. 4414R-200	Right applicator - cylinder stroke 200 mm - adjustable horizontal precision guides in X and Y direction (up to Y = 13 mm, X = 5 mm)
	Applic. 4414R-300	Right applicator - cylinder stroke 300 mm - adjustable horizontal precision guides in X and Y direction (up to Y = 13 mm, X = 5 mm)



Cover

Protection against dirt and accidental contact.



External operation panel

If the operation panel is not accessible after installation of the printer into a production plant it is possible to attach an external operation panel.



Compact keyboard

Connection: USB, number of keys: 86. L x W: 282 x 132 mm, Cherry G84-4100.



Product sensor

For automatic printing and applying after detection of a product, e.g. on a conveyor belt.



Sub-D plug

Connection of the control signals to the IO-interface with screw clamps.



Warning light

Indicates the display and the printer status.

Red: Printing or applying failure

Yellow: Pre-warning: end of label, end of ribbon

Green: Ready for operation



Air pressure regulation unit

The unit can be assembled to the BSP61 or its brackets. Pre-adjustment to 4.5 bar by using a mounting angle.



Air pressure regulation unit with additional cut-in valve

In case of integration of the print & apply system into a production line the air-pressure can be turned on or off externally. Pre-adjustment to 4.5 bar.

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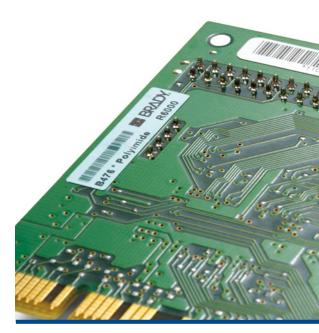
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China (Shanghai) 86	-21-6886-3666
China (Wuxi) 86	
Hong Kong	
Japan 8	
Korea	
Latin America 1	
Malaysia	
Mexico	
New Zealand 6	61-2-8717-2200
Philippines	63-2-658-2077
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