



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

are guoue print and encly	Follows real time processing and treat/inc
ero queue print and apply	Follows real time processing and tracking eliminating the potential for error
	5 1
rinting and labelling at the s	ame time
lulti-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
specially developed Auto Ap	pply labelling material
rady tailored label	Best print quality and dispensability.
aterials for Auto Apply	Materials available for every harsh
	environment, such as, chemical washes, abrasion, temperature and weathering
	including UV. Specially developed ROHS
	PCB labelling material.
nsure correct traceability wi	th crisp printing
00 and 600 dpi printing	Maximum flexibility for labelling. With
apability	the quality of 600 dpi, small, legible labels
	are guaranteed. Capable of printing 2D
	codes (DataMatrix, QR,) on the smallest
	of labels.
abel sizes for every applicati	on
rints and applies a range of	Label sizing to suit every application. Ideal
bels sized from 4 mm to	for labelling small components or surfaces
0 mm height, and 4 mm to	to ensure correct traceability.
15 mm width	

Maximum efficiency in production 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 applications		
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 production 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



1 Large graphic display

White backlight guarantees clarity of display. Depending on the installation position the display can be rotated in 90° steps.

2 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.

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.

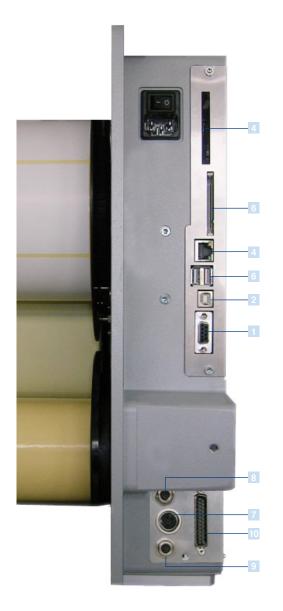
11 Rewinder

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



- 1 RS232C- Interface
- 2 USB 2.0 Slave interface
- Ethernet 10/100 Base T-interface with TCP/IP
- 4 Slot for Wireless LAN-card
- 5 Two USB-Master-interfaces to connect an external operation panel, keyboard, scanner or service key
- 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 Pause Label dispensed Reset Stop printing and applying Print first label Rotation 4200

Outputs

Ready to operate Print data available Paper feed on Pre-warning end of ribbon Pre-warning end of label Error end of ribbon Error end of label Label in dispensing position Basic position / upper end position Applying position / lower end position Common alarm

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 Print resolution dpi	I hermal transfe 600	er/Direct thermal 300
Print resolution api Print speed up to mm/s	100	250
Print width up to mm	57	105.60
2. Material	57	103.00
Labels on rolls	Paper, cardboard,	textiles, synthetics
		C, PU, acrylate, PI
Thickness mm / weight g/m²	0.055 - 0.3	5 / 60 - 160
Width Labels1) mm	4 - 58	10 - 114
Width of liner Spool / Roll	10 - 62 / 25 - 62	- / 25 - 118
Label height ¹⁾ when dispensing mm	4 - 200	8 - 250
Media roll: Total Ø up to mm		/ 305
Core Ø mm for BSP61	40	-
Roll / Adapter	40 / 50	40 / 50
Roll	76	76
Winding direction	outside	or inside
3. Ribbon		- testate
Ink		or inside
Roll diameter up to mm	80	80
Core diameter mm	25	25 500
Ribbon length variable up to m Width ²⁾ mm	500	
4. Internal rewinder	60	114
4. Internal rewinder Total diameter up to mm	166	/ 210
Core diameter mm	76	7210
5. Dimensions of the printer	70	70
Height mm Label roll Ø 205 mm	Л	00
Label roll Ø 305 mm		38
Depth mm Label roll Ø 205 mm	-	00
Label roll Ø 305 mm		18
Width mm	200	255
Weight kg	15	16
6. Label sensor	10	10
See-through sensor		the label or punching nd of material
Reflective sensor from the bottom /		ng marks
from the top	ioi printi	ing marito
Distance from center to shoulder middle wall	2 - 26	2 - 47
Distance from center to shoulder middle wall 7. Electronics	2 - 26	2 - 47
		2 - 47 66
7. Electronics Processor high speed 32 Bit Clock rate	2	
7. Electronics Processor high speed 32 Bit Clock rate MHz	2	66
7. Electronics Processor high speed 32 Bit Clock rate MHz (RAM) MB	2	66
7. Electronics Processor high speed 32 Bit Clock rate MHz (RAM) MB Memory IFFS MB Flash	2	66 34 8
7. Electronics Processor high speed 32 Bit Clock rate MHz (RAM) MB Memory IFFS MB Flash Slot for memory CompactFlash-card Type I	2 (66 34 8
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10. Operation panel Buttons /	Pause, Feed, Cancel Menu Fi	nter.
LED-display:	Pause, Feed, Cancel, Menu, Enter, 4 x Cursor	
LCD-graphic display:	Width 60, Height 40 mm Text 4 lines, 20 characters per line	
11. Settings		
		ne
		ate terfaces
		ecurity
12. Monitoring		
Warning if:	End of ribbon End of labels	
Stop printing if:	End of ribbon	
stop printing in	End of labels	
<u> </u>	Printhead open	_
On the display		lock ate sheet
		oc debug
		put buffer
	Temperature printhead R Access to memory card	emaining quantity of ribbon
13. Test routines	Access to memory card	
System diagnosis	When switched on with testing	of printhead
Short Status,	Font list, device list, WLAN stat	
Status print	monitor mode, PPP state	
Status reports		rmation about setting, e.g. print
	length counter, runtime counte Request of machine state via s	r etc. oftware command. Detailed stat
	messages on the display, e.g. i	
	barcode error etc	,
14. Fonts		
Font types	5 Bitmap fonts incl. OCR-A, OC	
	721, Swiss 721 Bold and Mono loadable TrueType fonts.	ospace 821 available internally,
	Optional Chinese (simplified Ch	ninese), Optional Thai
Character sets	Windows 1250 up to 1257, DO	S 437, 737, 775, 850, 852, 857,
	862, 864, 866, 869, EBC DIC 5	500, ISO 8859-1 up to -10 and -1
		, Macintosh Roman, DEC MCS,
	K0I8-R. All West and East European lat	in, cyrillic, greek, hebrew and
	arabic characters are supporte	
Bitmap fonts	Size of width and height 1 - 3 mm	
	Zoom 2-10 Orientation 0°, 90°, 180°, 270°	
Vector- /	Size of width and height 0.9 - 1	28 mm
TrueType fonts	variable zoom,	
	Orientation 360° in steps of 1°	
Font formats	Bold, italic, underlined, outline, negative, grey, vertical,	
Font width	depending on character fonts Variable	
15. Graphics	Vallable	
Graphic elements	Line, arrow, box, circle, ellipse,	filled and filled with fading
Graphic formats	PCX, IMG, BMP, TIF, MAC, GIF	, PNG
16. Barcodes		
Linear barcodes	Code 39, Code 93	Interleaved 2 / 5
	Code 39 Full ASCII	Ident- and lead
	Code 128 A, B, C	code of Deutsche
	Codabar EAN 8, 13	Post AG JAN 8, 13
	EAN / UCC 128	MSI
	EAN / UPC Appendix 2	Plessey
	EAN / UPC Appendix 5 FIM	Postnet RSS 14
	HIBC	UPC A, E, E0
2D-Codes		ix, PDF 417, Micro PDF 417, UPS
	Maxicode, QR-Code, RSS 14 t	runcated, limited, stacked and
	stacked omnidirectional, EAN-	,
	0°, 90°, 180°, 270°. Optionally	odule width and ratio. Orientation with check digit, printed
	characters and Start/Stop cod	e, depending on code type.
17. Software		
Programming	J-Script direct programming	
	abc-Basic Compiler	
	Database Connector	[
System diagnosis /	Printer monitoring	
administration	Network Manager	
Accredited for	32 / 64 bit for Windows XP Server 2003	
Mindowe driver		
Windows driver		
Windows driver	Windows Vista Server 2008 Windows 7 Server 2008	

¹⁾ 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 width as the labels.

■ Standard □ Option

Ordering Options

	Order Reference	Description
:6	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°)
1	Applic. 4214L-300	Left applicator - cylinder stroke 300 mm - horizontal rotary cylinder (angle of rotation 90 other 180°)
A.	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
n	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°)
E	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 failureYellow:Pre-warning: end of label, end of ribbonGreen: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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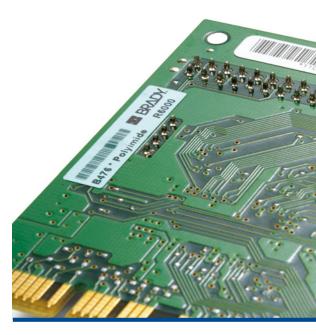
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Thailand	66-2-793-9200
USA	1-800-537-8791
China (Wuxi) Hong Kong Japan Korea Latin America Malaysia Mexico New Zealand Philippines Singapore Taiwan Thailand	$\begin{array}{c} & 86{\text{-}}510{\text{-}}528{\text{-}}2222 \\ & 852{\text{-}}2359{\text{-}}3149 \\ & 81{\text{-}}45{\text{-}}461{\text{-}}3600 \\ & 82{\text{-}}31{\text{-}}451{\text{-}}6600 \\ & 1{\text{-}}414{\text{-}}540{\text{-}}5560 \\ & 60{\text{-}}4{\text{-}}646{\text{-}}2700 \\ & 525{\text{-}}399{\text{-}}6963 \\ & 61{\text{-}}2{\text{-}}8717{\text{-}}2200 \\ & 63{\text{-}}2{\text{-}}658{\text{-}}2077 \\ & 65{\text{-}}6477{\text{-}}7261 \\ & 886{\text{-}}3{\text{-}}277788 \\ & 66{\text{-}}2{\text{-}}793{\text{-}}9200 \end{array}$



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