

## ***HS60- PARMi 3D SPI Solder Paste Inspection Machine***

### **I.Description**

PARMi SPI HS60 features a number of advanced technologies, including intelligent SMT vision, place-and-test (PnT) technology, and intelligent robot feeding. It is equipped with three sets of nozzles two of which are used for SMT nozzle mounting and one for vision registration. The system is equipped with an auto-focus laser head for optimal pin registration accuracy.

SPI HS60 asset is capable of high-volume production, with a maximum board size of 10' x 10'. It is an extremely versatile machine, capable of processing various parts, such as BGA and CSPs, as well as lead-free solders. In addition, it features an optimized chip module, which allows for high-speed chip mounting. This ability, along with its other features, makes this model perfect for PCB assembly and manufacturing tasks for small- to medium-scale projects.



### **II.Technical Specification**

SPI Series		HS60 Series		HS70 Series		HS70DH
3D Camera	Sensor Head	RSC5	(Supreme) RSC6-HS	RSC6-HS	RSC6-HR	RSC6-HSx2
	Scan Speed (sq.cm/sec)	60	100	100	80	100
	X,Y Resolution(um)	18x18	13x13	13x13	10x10	13x13
	Lateral Length (mm)	23	32	32	22	32
	Height Resolution(um)	0.2	0.2	02	0.1	02

Performance	Repeatability	3 Sigma<lum/Height 3Sigma<1%/Volume 3Sigma<1%/Area	3 Sigma<lum/Height 3Sigma<1%/Volume 3Sigma<1%/Area	3 Sigma<lum/Height 3Sigma<1%/Volume 3Sigma<1%/Area	3 Sigma<lum/Height 3Sigma<1%/Volume 3Sigma<1%/Area	3 Sigma<lum/Height 3Sigma<1%/Volume 3Sigma<1%/Area
	Accuracy(um/Height)	2	2	2	2	2
	Gage R&R	<<10%/0402-1608 chip	<<10%/0402-1608 chip	<<10%/0402-1608 chip	<<10%/0402-1608 chip	<<10%/0402-1608 chip
Measurement	Min.Solder Paste Size(um)	200×200	150x150	150x150	100x100	150x150
	Max.Solder Paste Size(um)	20x20	20×20	20×20	20×20	20x20
	Min.Solder Paste Pitch(um)	100	100	100	80um	100
	Max.Solder Paste Height(um)	1000um				
	Measurement Item	Height, Area, Volume, Offset, Bridge, Shape, Warpage, PCB shrink	Height, Area, Volume, Offset, Bridge, Shape, Warpage, PCB shrink	Height, Area, Volume, Offset, Bridge, Shape, Warpage, PCB shrink	Height, Area, Volume, Offset, Bridge, Shape, Warpage, PCB shrink	Height, Area, Volume, Offset, Bridge, Shape, Warpage, PCB shrink
	PCB Warpage	±5mm(2%)	±5mm(2%)	±5mm(2%)	±5mm(2%)	±5mm(2%)
Board Dimension	Min Size(L*W)	H860,60L: 50×50 H860D: 80×80 HS60XL,60XXL: 100x100	HS60, 60L Supreme.50×50 HS60D Plus.8DX80 HS60XL Supreme:100x100	HS70: 80×80 HS70L, HS70XL:100x100	80×80	80×80

	Max Size (L*W)	HS60: 360×260 HS60L: 520×510 HS60XL: 700×510 HS60XXL: 880X510 HS60D: 340×315	HS60 Supreme: 340x260 HS60L Supreme: 500x510 HS60XL Supeme: 685x510 HS60D Plus: 350x315	HS70D: 420×350 HS70L: 590×610 HS70XL: 950×670	HS70D: 340×315 HS70DL: 590×610	350×250
	Thickness	0.4mm to 4mm				
	TOP/Botto m  Clearance (mm/mm)	HS60: 25/25 HS60L,60XL,60X XL: 18/25 HS60d: 4/23	HS60 Supreme: 25/25 HS60L, 60XL,Supreme: 25/25 HS60D Plus: 4/23	0	4/23	4/20
	TOP/Botto m  Edge Clearance (mm/mm)	HS60, 60L, 60XL: 2.5/3.5 HS60XXL: 3.5/4.5 HS60D: 25/3.5	HS60, 60L, 60XL Supreme: 2.5/3.5 HS60D Plus: 2.5/3.5	HS70, 70L: 2.5/3.5 HS70XL: 3.5/5.0	HS70D, 70DL: 2.5/3.5	2.5/4.0
	PCB Weight(kg)	HS60: 2 HS60L, 60XL, 60XXL: 4 HS60D:1.5		HS70: 2 HS70L,70XL: 10 HS70D: 1.5 H870DL: 3		1.5
Computer& Console	CPU	Intel i3-2100(3.1G)	Intel i3-2100(3.1G)	Intel i3-2100(3.1G)	Intel i3-2100(3.1G)	Intel i3-2100(3.1G)
	Memory(G B)	HS60, HS60L: 8 HS60XL, HS60XXL: 16	8	HS70: 8 HS70L: 16 HS70XL: 48	16	8
	Monitor	20*Wide				
	OperatingS ystem	MS-Windows XP Professional 64bit/Window 7				
Utility	Power(kw)	AC 220V (50/60Hz, 1 Phase)				
		HS60:1.5 HS60L, H60XL ,HS60XX L: 1.8	2.3	HS70: 1.7 HS70L: 1.8 HS70XL: 2.0	2.3	3.5
	Air	5Kgf/sq.cm				



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System Dimension	Dimension (W*D*H)m	HS60: 900x1000x1480 HS60L: 1060x1285x1480 HS60XL: 1240x1285x1430 HS60XXL: 1420x1285x1480 HS60D: 1180x1395x1480	HS60 Supereme: 900x1000x1480 HS60L Supereme: 1060x1285x1450 HS60XL Supereme :1240x1 285x1480 HS60D Plus: 1180x1435x1450	HS70: 970x1195x1535 HS70L: 1170x1335x153 5 HS70XL: 1530x1415x153 5	HS70D 1:920x1415x1510 HS70D 3:1180x1475x151 0	1296x1980x1510
	Weight(kg)	HS60: 750 HS60L, 60XL, 60XXL:1000 HS60D: 900	HS60 Supereme: 750 HS60L, 60XL, 60XXL Supereme:1000 HS60D Plus: 900	HS70:800 HS70L: 950 HS70XL: 1100	900	1000
Options      Height Gauge{Calibration Jig}, 1D 2D Barcode System,Closed Loop System						