

Standard of Mid-class

SM Series

Specifications



Model Name			SM471 ^{PLUS}	SM481 ^{PLUS}	SM482 ^{PLUS}	SM451
Alignment			Flying Vision	Flying Vision + Stage Vision (Option)	Flying Vision + Stage Vision	Stage Vision
Number of Spindles			10 Spindes x 2 Gantry	10 Spindes x 1 Gantry	6 Spindes x 1 Gantry	4 Spindes x 1 Gantry
Placement Speed			78,000CPH(Optimum)	40,000CPH(Optimum)	30,000CPH(Optimum)	Chip 1608 8,500CPH (IPC9850) SOP 7,000CPH (IPC9850) QFP 4,000CPH (IPC9850)
Placement Accuracy	Chip	±40 μ m@μ±3σ		±40 μ m@μ±3σ	±40 μ m@μ±3σ	±50 μ m@μ±3σ
	QFP	±50 μ m@μ±3σ		±30 μ m@μ±3σ	±30 μ m@μ±3σ	±25 μ m@μ±3σ
Component Range	Flying Vision	0402(01005) ~ □ 14mm IC, Connector (Lead Pitch 0.4mm) BGA, CSP (Ball Pitch 0.4mm)	0402(01005) ~ □ 16mm IC, Connector (Lead Pitch 0.4mm) BGA, CSP (Ball Pitch 0.4mm)	0402(01005) ~ □ 14mm IC, Connector (Lead Pitch 0.4mm) BGA, CSP (Ball pitch 0.65mm)	0402 ~ □ 22mm IC(Fix Type) (Option : 0402)	
		-	-	0603(0201) ~ □ 22mm IC, Connector (Lead Pitch 0.5mm) ~ □ 17mm BGA, CSP (Ball pitch 0.75mm)	-	
	Stage Vision	-	~ □ 16mm IC, Connector (Lead Pitch 0.3mm) BGA, CSP (Ball Pitch 0.4mm)~ □ 32mm IC, Connector (Lead Pitch 0.4mm) BGA, CSP (Ball Pitch 0.5mm)	~ □ 32mm IC, Connector (Lead Pitch 0.3mm) BGA, CSP (Ball Pitch 0.5mm) ~ □ 55mm(MFOV)	~ 43x32mm IC (Lead Pitch 0.3mm) ~ □ 55mm(MFOV)	
		-	~ □ 32mm IC, Connector (Lead Pitch 0.4mm) BGA, CSP (Ball Pitch 0.5mm)~ □ 42mm(H12mm) IC, Connector (Lead Pitch 0.5mm) BGA, CSP(Ball Pitch 1.0mm)	~ □ 42mm IC, Connector (Lead Pitch 0.4mm) BGA, CSP(Ball Pitch 1.0mm) ~ □ 55mm(MFOV), ~ 75mmConnector	~ 57x42mm IC (Lead Pitch 0.4mm) ~ □ 55mm(MFOV) ~100mm Connector	
	Max. Height		12mm	10mm(Option 15mm)	15mm	28mm
	Board Dimension (mm)	Min.		50(L)x40(W)		
Max.		Single Lane	510(L)x460(W) 610(L)x460(W)(Option)	460(L)x400(W) 510(L)x460(W)(Option) 610(L)x510(W)(Option) Max.1,500(L)x460(W)(Option)	460(L)x400(W) 510(L)x460(W)(Option) 610(L)x510(W)(Option) Max.1,200(L)x510(W)(Option)	460(L)x420(W) 510(L)x420(W)(Option) 610(L)x460(W)(Option)
		Dual Lane	460(L)x250(W) 610(L)x250(W)(Option)	-	-	-
PCB Thickness		0.38~4.2				
Feeder Capacity (8mm standard)			120ea/112ea(Docking Cart)			60ea/56ea(Docking Cart) Option : 120ea/112ea(Docking Cart)
Utility	Power		AC200 / 208 / 220 / 240 / 380 / 415V(50/60Hz, 3Phase)			
			Max. 5.0kVA	Max. 3.5kVA	Max. 3.5kVA	Max. 4.7kVA
	Air Consumption		0.5~0.7MPa(5.0~7.0kgf/cm ²)			
			350Nℓ/min 50Nℓ/min(vacuum pump)	160Nℓ/min 50Nℓ/min(vacuum pump)	180Nℓ/min 50Nℓ/min(vacuum pump)	220Nℓ/min 50Nℓ/min(vacuum pump)
Mass (kg)			Approx. 1,820	Approx. 1,655	Approx. 1,600	Approx. 1,680
External Dimension (mm)			1,650(L)x1,690(D)x1,485(H)	1,650(L)x1,680(D)x1,530(H)	1,650(L)x1,680(D)x1,530(H)	1,650(L)x1,680(D)x1,485(H)

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※ Please note that specifications and product information in this catalog are subject to change without notice.



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