

Screen printer



Specifications	MCP
Printing head type	Single swing squeegee
Programmable squeegee angle	45° to 65° (in steps of 1°)
Squeegee types	Metal, urethane
Squeegee lengths	530, 440, 400, 350, 250mm
Print pressure setting range	5 to 200N (± 2N)
Max. board size (L x W)	510 x 460mm (20.08 x 18.11")
Min. board size (L x W)	50 x 50mm (2 x 2")
Board thickness	0.4 to 4mm
Stencil frame size	750 x 750mm, 736 x 736mm 750 x 650mm, 650 x 550mm 600 x 550mm, 550 x 650mm
Stencil cleaning	Wet and dry, interval or PCB count based
Tact time	5 seconds
Print cycle time, incl. PCB transport	from 11 seconds
Print repeatability, 6 sigma @ CpK>2	10 micron
Footprint (L x W)	1,640 x 1,640mm
Paste Inspection specifications	
Speed	0.45 seconds per image
Field of view	30 x 22.5mm
Checks on	shortage, excess, offset, bridging, shape, position, area
Closed loop inspection	Automatic adjust pressure, angle, speed or initiate cleaning action

Solutions

Advanced applications

	Line output	Component range	Component height	Board size	Feeding lanes
AX-301/501 for all advanced applications	30,000 to 110,000	0.4 x 0.2 to 45 x 45mm	10.5mm	800 x 457mm	260
AX-301/501 BackEnd			Flip chip bonding + flip chip stacking @ 10 micron, thin board support.		
AX-301/501 DRAM			100,000 cph chip shooting and up to 16,600 cph IC shooting on one machine.		
AX-301/501 Embedded			40µ accuracy for passives, 25µ accuracy for actives. Closed loop placement force control, thin board support.		
AX-301/501 Modules (SiP/MCM/PoP)			40µ accuracy for passives, 25µ accuracy for actives. Closed loop placement force control, thin board support.		

High volume/Medium mix applications - High yield and output predictability

AX-501 + 201	up to 130,300	0.4 x 0.2 to 130 x 79mm	40mm	800 x 457mm	472
AX-501 + 301 + 201	up to 207,300	0.4 x 0.2 to 130 x 79mm	40mm	800 x 457mm	628

High volume/High mix applications - Output and changeover flexibility

MC-24 + MC-24X + MC-24X ATS	136,000	0.4 x 0.2 to 45 x 45mm	15mm	700 x 460mm	254
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Small batch manufacturing - NPI grouping and scheduling, many feeder positions and changeover flexibility

MC-24 + MC-1 + MC-1 + MC-8 ATS	86,100	0.4 x 0.2 to 45 x 45mm	25.5mm	700 x 410mm	429
MC-12 + MC-5X + MC-5X	52,000	0.4 x 0.2 to 45 x 45mm	15mm	575 x 460mm*	336
MC-5 + MC-5X	31,000	0.4 x 0.2 to 45 x 45mm	15mm	575 x 460mm	226

*1200 x 460mm on request

Basic manufacturing - NPI grouping and fast feeder changeovers

MG-5 + MG-5	28,000	0.4 x 0.2 to 45 x 45mm	15mm	575 x 460mm	214
MG-5 + MG-1R	31,400	0.4 x 0.2 to 45 x 45mm	15mm	575 x 440mm	203

Segments are not limited to above mentioned line solutions. Please contact Assembléon to enquire about any of our other unlimited combinations that fit your manufacturing needs.

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SMART SOLUTIONS



Product overview

Assembléon's SMT Equipment portfolio

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	A-Series			MC-Series								MG-Series	
													
Specifications	AX-501	AX-301	AX-201	MC-24	MC-24X	MC-12	MC-8	MC-5	MC-5X	MC-1	MG-5	MG-1R	
Maximum output per hour:	165k (121k IPC 9850)	99k (77k IPC 9850)	15k (9.3k IPC 9850)	72k (50k IPC 9850)	54k (43k IPC 9850)	36k (24k IPC 9850)	8.9k (7.9k IPC 9850)	24k (17k IPC 9850)	20k (14k IPC 9850)	24k (14.1k IPC 9850)	20k (14k IPC 9850)	24k (17.4k IPC 9850)	
Placement quality:	< 10 dpm	< 10 dpm	< 10 dpm										
Placement accuracy CpK > 1:	40 micron for chips 25 micron for QFP	40 micron for chips 25 micron for QFP	40 micron for chips 20 micron for QFP	50 micron for chips 30 micron for QFP	50 micron for chips 30 micron for QFP	50 micron for chips 30 micron for QFP	50 micron for chips 30 micron for QFP	50 micron for chips 30 micron for QFP	50 micron for chips 30 micron for QFP	50 micron for chips 30 micron for QFP	50 micron for chips 30 micron for QFP	50 micron for chips 30 micron for QFP	
Minimum component size (LxW):	0.4 x 0.2mm (01005)	0.4 x 0.2mm (01005)	1.0 x 0.5mm (0402) (smaller on request)	0.4 x 0.2mm (01005)	0.4 x 0.2mm (01005)	0.4 x 0.2mm (01005)	0.4 x 0.2mm (01005)	0.4 x 0.2mm (01005)	0.4 x 0.2mm (01005)	0.4 x 0.2mm (01005)	0.4 x 0.2mm (01005)	0.4 x 0.2mm (01005)	
Maximum component size (LxW) Standard: Optional:	45 x 45mm	45 x 45mm	130 x 79mm	8 x 8mm 100 x 32mm	100 x 45mm	8 x 8mm 100 x 32mm	100 x 45mm 55 x 55mm	8 x 8mm 100 x 32mm	100 x 45mm	100 x 45mm	100 x 45mm	100 x 45mm	
Maximum component height Standard: Optional:	10.5mm 12mm*	10.5mm 12mm*	40mm	6.5mm	15mm	6.5mm	25.5mm	6.5mm	15mm	15mm	15mm	15mm	
Programmable placement force:	yes: 1.5 to 8N	yes: 1.5 to 8N	yes: 0.9 to 40N	no	no	no	yes: 10 to 30N	no	no	no	no	no	
Maximum board size (LxW): Standard: Optional:	515 x 390mm (20.28 x 15.35") 800 x 457mm (31.5 x 18")	475 x 390mm (18.7 x 15.35") 800 x 457mm * (31.5 x 18")	515 x 460mm (20.28 x 18.11") 800 x 460mm (31.5 x 18.11")	700 x 460mm (27.55 x 18.11")	700 x 460mm (27.55 x 18.11")	575 x 460mm (22.6 x 18.11") 1,200 x 460mm* (47.24 x 18.11")	700 x 460mm (27.55 x 18.11") 700 x 510mm* (27.55 x 20")	575 x 460mm (22.6 x 18.11")	575 x 460mm (22.6 x 18.11") 1,200 x 460mm* (47.24 x 18.11")	700 x 460mm (27.55 x 18.11") 700 x 510mm* (27.55 x 20")	575 x 460mm (22.6 x 18.11")	510 x 440mm (20 x 17.32") 650 x 440mm* (25.6 x 17.32")	
Minimum board size (LxW) Standard: Optional:	50 x 50mm (2 x 2") 50 x 25mm (2 x 1")	50 x 50mm (2 x 2") 50 x 25mm (2 x 1")	50 x 50mm (2 x 2") 50 x 25mm (2 x 1")	50 x 50mm (2 x 2")	50 x 50mm (2 x 2")	50 x 50mm (2 x 2")	50 x 50mm (2 x 2")	50 x 50mm (2 x 2")	50 x 50mm (2 x 2")	50 x 50mm (2 x 2")	50 x 50mm (2 x 2")	50 x 50mm (2 x 2")	
Board thickness Standard: Optional:	0.3 to 6mm 10mm*	0.3 to 6mm 10mm*	0.3 to 6mm 10mm*	0.4 to 4mm	0.4 to 4mm	0.4 to 4mm	0.4 to 4mm	0.4 to 4mm	0.4 to 4mm	0.4 to 4mm	0.4 to 4mm	0.4 to 4mm	
Automatic toolbit exchange:	nozzles	nozzles	nozzles, grippers	nozzles	nozzles, grippers	nozzles	nozzles, grippers	nozzles	nozzles, grippers	nozzles, grippers	nozzles	nozzles	
Maximum tape feeding positions (8mm):	260 twin tapes 130 single tapes	156 twin tapes 76 single tapes	212 twin tapes 106 single tapes	120, on fixed feederbar 96, on trolleys	96 without ATS 62 with ATS	120, on fixed feederbar 96, on trolleys	119 without ATS 81 with ATS	118	108	126 without ATS 87 with ATS	107	160 twin tapes 96 single tapes	
Feeding options (special feeders on request):	tape, stick, tray, re-use	tape, stick, tray, re-use	tape, stick, tray, tape strips, tube	tape, stick	tape, stick, tray, re-use, dip station	tape, stick	tape, stick, tray, tube, tape strips, re-use, dip station	tape, stick	tape, stick, tray, tube, tape strips, re-use, dip station	tape, stick tray, tube, tape strips, re-use, dip station	tape, stick, tray	tape, stick, tray, tube, tape strips, re-use, waffle pack	
Footprint (LxW) excluding feeders:	3,720 x 1,705mm	2,760 x 1,705mm	1,852 x 1,810mm	1,254 x 1,687mm	1,254 x 1,687mm	1,254 x 1,440mm	1,650 x 1,562mm	1,254 x 1,440mm	1,254 x 1,440mm	1,650 x 1,562mm	1,254 x 1,440mm	1,650 x 1,562mm	

* On request only. Conditions may apply.