

MYPro series A41DX/SX™

pick-and-place

Specifications
November 2025



Specifications MYPro series **A41DX/SX™**

PLACEMENT SPEED AND ACCURACY			
	A41DX	A41SX	
Rated speed (1)	49,000 CPH	24,000 CPH	
IPC 9850 chip net throughput (2,3)	31,000CPH	15,000CPH	
IPC 9850 chip throughput (3)	35,000CPH	17,000CPH	
IPC 9850 chip repeatability 3σ (X, Y, Theta) ⁽⁶⁾	30μm, 1.8° ⁽⁵⁾ 45μm, 1.8°	30μm, 1.8° ⁽⁵⁾ 45μm, 1.8°	
IPC 9850 QFP repeatability 3σ (X, Y, Theta) ⁽⁴⁾	21μm, 0.054° ⁽⁹⁾ 30μm, 0.12° ^(6,8) 45μm, 0.21° ⁽⁸⁾	21μm, 0.054° ⁽⁷⁾ 30μm, 0.12° ^(5,6) 45μm, 0.21° ⁽⁶⁾	

The above specification achieved with a machine configuration including high precision mounthead (Midas), high speed mounthead (MXT), line scan vision system (LVS), inline conveyor T1000 and 15 mm component maximum height. The IPC 9850 net throughput and accuracy numbers are obtained simultaneously, with the same machine settings. The rated speed value is obtained under conditions optimized for speed.

- (1) Depending on component and application
 (2) According to IPC 9850. Net throughput = (no of parts x 3,600)/(board build time + board transfer time)
 (3) According to IPC 9850 O4PE64/O4PI00 verification panel
 (4) According to IPC 9850 O4PE64/O4PI00 verification panel
 (5) High precision setting, recommended for small chip or fine pitch
 (6) High-speed mounthead—MX7
 (7) High-precision mounthead—MIDAS

SYSTEM FEATURES
A41DX/SX
On-the-fly mount order optimization
Vision autoteach with snap-to-grid
Automatic illumination settings
Intelligent feeder concept—Agilis
Automatic feeder and component recognition
On-the-fly feeder loading
Dynamic feeder positions
Automatic board stretch compensation
Automatic conveyor width adjustment
Intelligent surface impact control
Tool collision avoidance
Multi-user, multi-tasking system software
Open software interfaces for factory integration
SQL database engine
Hermes

COMPONENT RANGE	
HIGH PRECISION MOUNTHEAD—MIDAS	
•	Min: 0.3 x 0.15mm (0.012 x 0.006") (03015) Max: 99 x 73 x 15mm (3.89 x 2.87 x 0.86") (1) (3) Max component weight: 140g (2)

- With 4K vision. Customized tall component capability 22mm (0.86") available.
 Depending on mounthead, mount tool, package, and production altitude.
 Components with diagonal larger than 58mm must be presented in the same angle as placed.

HIGH SPEED MOUNTHEAD—MX7	
	Min: 0.4 x 0.2mm (0.016 x 0.008") (01005) Max: 45 x 45 x 15mm (1.77 x 1.77 x 0.59") (1) Max: 150 x 40 x 15mm (5.90 x 1.57 x 0.59") (1)

(1) Components with diagonal larger than 52mm will if needed be rotated over the place area. Maximum component weight: 80 g

ELECTRICAL VERIFIER (OPTIONAL)		
Component range	Resistor, capacitor, unipolar capacitor, diode (forward voltage, reverse current), Zener diode (reverse voltage), bipolar transistor (current gain), FET/IGBT (gate threshold voltage). Smallest chip size $1.0 \times 0.5 \text{mm}$ ($0.04 \times 0.02''$).	

FEEDER CAPACITY	
8MM TAPE	T1000
A41DX/SX	176

BOARD HANDLING		
	T1000	
Maximum board size	1,000 x 609 mm (39 x 24")	
Minimum board size (1)	120×50mm (4.7×2")	
Maximum board train length	472mm (18.5")	
Board thickness range (5)	0.8-12.5mm (0.03-0.5")	
Board edge clearance top	3.2mm (0.13")	
Board edge clearance bottom (2)	3.5mm (0.13")	
Top side clearance (max)	15mm (0.59")	
Bottom side clearance (max) (3)	32mm (1.25")	
Maximum board weight	10kg (22lbs)	
Board transfer height	Conforms to SMEMA standard for board transfer height. Height adjustable from 880 to 975mm (34.6 to 38.4").	
Operation mode	Inline, manual, inline odd-board, left-to-right/right-to-left.	

- (1) Board train specification: 100 x 50 mm (4.7 x 2") board size, 1.6 mm (0.06") minimum thickness. Maximum warpage 1 mm (0.04"). (2) Edge clearance 5.5 mm (0.22") if component taller than 6 mm (0.24"). 14.3 mm (0.56") if taller than 19 mm (0.75"). (3) Customized tall component capability 22 mm (0.86") available. (4) 15 mm (0.59") with support pins. (5) For tall component capability 22 mm. Board thickness 0.8-5.5 mm.

VISION CAPABILITY			
LINESCAN VISION SYSTEM—4K RESOLUTION			
Component type	Field of view	Minimum pitch	Minimum lead width
Leaded components	80mm (3.1")	0.10mm (4mil)	0.05mm (2mil)
Bumped components	80mm (3.1")	0.15mm (6mil)	0.08mm (3mil)

LINESCAN VISION SYSTEM—2K RESOLUTION			
Component type	Field of view	Minimum pitch	Minimum lead width
Leaded components	63mm (2.5")	0.20mm (8mil)	0.10mm (4mil)
Bumped components	63mm (2.5")	0.25mm (10mil)	0.13mm (5mil)

SOFTWARE
SOFTWARE MODULES (OPTIONAL)
Shared databases
PCB ID (2D barcode)
Pre-pick inspection
Barcode software
PRM (Proactive Replenishment Monitoring) software
Hermes

OFFLINE SOFTWARE TOOLS (OPTIONAL)
Data preparation—MYCenter
Optimization and scheduling—MYPlan
Inventory management and kitting—MYCenter
Traceability—MYTrace
Performance monitoring—MYCenter Analysis

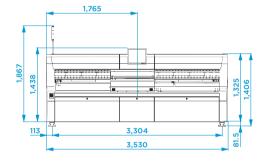
MISCELLANEOUS		
INSTALLATION REQUIREMENTS		
Power requirements	Three phase AC 6.6kVA (3x2.2kVA)	
Power consumption	1.5kW (average)	
Voltages	3×200, 210, 220, 230, 240, 250±10%, Y or Delta	
Air supply	No air required	
Air temperature	+18 to +35°C (65 to 95°F)	
Air humidity	<95% RH non condensing	

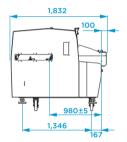
MACHINE WEIGHT (1)	
A41DX/SX	2,200kg (4,850lbs)

(1) Total machine weight excluding magazines.

DIMENSIONS [mm]

A41DX/SX





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