

ASMPT enabling the
digital world



SIPLACE TX

Maximum performance for the intelligent factory

SIPLACE TX – THE PERFECT MACHINE FOR THE INTELLIGENT FACTORY

The intelligent factory needs intelligent machines: the SIPLACE TX is breaking all performance records with the Placement Head CP20 and its component camera for high-resolution images and Smart Feeder Xi.

With the SIPLACE Tray Unit and two stationary high-end camera systems, the SIPLACE TX can be used as a space-saving end-of-line machine. With features like the Smart Nozzle with a unique ID and automatic learning to the component pitch, it sets new standards.

Modular, flexible, open – the SIPLACE TX seamlessly fits into ASMPT's open automation concept for the intelligent factory through standard interfaces and a growing number of automation options as a state-of-the-art high performer for every type of electronics production.



THE HEAD MAKES THE DIFFERENCE

THREE INNOVATIVE PLACEMENT HEADS DELIVER PERFORMANCE, FLEXIBILITY AND BALANCE.



Placement Head CP20

- 48,000 cph – the new benchmark for components up to 8.2 mm × 8.2 mm
- High placement accuracy: $\pm 25 \mu\text{m}$
- Maximum accuracy: new component camera for better images with higher resolution

Placement Head CPP

- Three placement modes: collect-and-place, pick-and-place and mixed mode
- Component range up to 50 × 40 mm and 15.5 mm high components

Placement Head TWIN

- Component height up to 25 mm
- Component size range up to 200 × 110 mm

SMART FLEXIBILITY AND SMART PERFORMANCE

Maximum performance in a small footprint

96,000 cph in a machine that measures only 1 m × 2.23 m

Wide component spectrum

Components ranging from 0.12 mm × 0.12 mm to 200 mm × 110 mm are covered with only three placement head types

Intelligent vision system

One image per component, component-specific lighting, PCB inspection, odd-shape placement, crack detection and much more.

Flexible conveyors

Two conveyor tracks and a long-board option as well as highly flexible board handling options.

Touchless and low-force placement

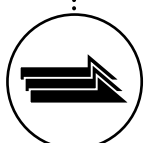
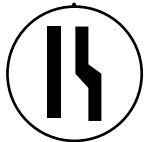
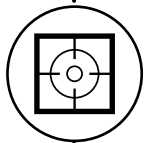
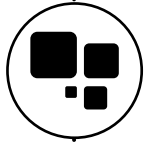
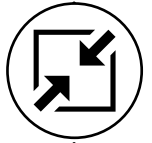
Touchless placement and placement forces as low as 0.5 N

Precise component feeding

80 × 8 mm tape feeders, Glue Feeder, Smart Feeder Xi, Linear Dipping Unit

SIPLACE Tray Unit & JEDEC Tray Feeder

Fast and non-stop component supply via JEDEC and wide trays in compact cabinet



INTELLIGENT AND INTEGRATED

WORKS SOFTWARE SUITE

With the powerful WORKS Software Suite, you get the most from your lines and the SIPLACE TX while reducing your employees' workloads and controlling and optimizing your production and material flows. Applications for AMR fleet management and enterprise solutions such as MES and ERP software can be easily connected.



SIPLACE
Tray Unit



More about
SIPLACE TX

SIPLACE TX

Machine type	SIPLACE TX2i (item No. 588300)	SIPLACE TX2 (item No. 588302)	SIPLACE TX1 (item No. 588301)
Placement speed (benchmark rating)	Up to 96,000 cph	Up to 85,500 cph	Up to 43,000 cph
Machine dimensions (L × W × H)	1.00 m × 2.23 m × 1.45 m	1.00 m × 2.47 m × 1.45 m	1.00 m × 2.35 m × 1.45 m
Placement heads	Placement Head CP20, Placement Head CPP, Placement Head TH		
Component spectrum	0.12 mm x 0.12 mm to 200 mm × 110 mm**		
PCB dimensions (L × W)	50 mm × 45 mm to 590 mm* × 260 mm (dual lane) 50 mm × 45 mm to 590 mm* × 460 mm (single lane mode)		
Component feeding	up to 80 × 8 mm tape feeders, JEDEC trays, Linear Dipping Unit, Glue Feeder, Force Verification Feeder, SIPLACE Tray Unit		
Typical power consumption	2.0 kW (with vacuum pump) 1.2 kW (without vacuum pump)		
Compressed air consumption	120 NI/min (with vacuum pump)		70 NI/min (with vacuum pump)

* With Long Board Option (without LBO, maximum PCB length 375 mm)

** With restrictions

Placement heads	Placement Head CP20	Placement Head CPP	Placement Head TWIN
Component spectrum	0.12 mm x 0.12 mm to 8.2 mm × 8.2 mm	01005 to 50 mm × 40 mm	0201 to 200 mm × 110 mm
Component height	4 mm	15.5 mm	25 mm
Placement accuracy (3 σ)	25 μm	34 μm	22 μm
Maximum speed	48,000 cph	25,500 cph	5,500 cph
Placement force	0.5 N to 4.5 N	1.0 N to 15 N	1.0 N to 30 N

Performing professional maintenance in the scope and intervals recommended by ASMPT ensures that your SIPLACE equipment will deliver the specified performance and accuracy across its entire life cycle. Our various maintenance contracts make this job even easier for you.

ASMPT

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