SIPLACE X S

Maximum capacity for the Integrated Smart Factory

April 2020

ASM PLACEMENT portfolio

The Midspeed Allrounder

E by SIPLACE

45,300 components / hour
120 x 8 mm feeder slots
50 x 50 – 1,200 x 460 mm
Footprint: 2.5 m²

Maximum Flexibility

SIPLACE SX

86,500 components / hour
120 x 8 mm feeder slots
50 x 50 – 1,525 x 560 mm
Footprint: 4.2 m²

Maximum Capacity

SIPLACE X S

172,000 components / hour
160 x 8 mm feeder slots
50 x 50 – 850 x 685 mm
Footprint: 5.0 m²

Maximum Performance

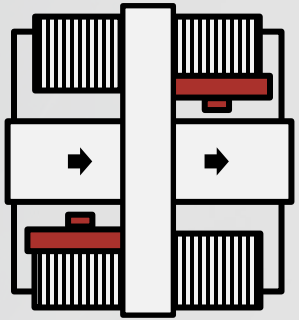
SIPLACE TX

96,000 components / hour
80 x 8 mm feeder slots
50 x 50 – 550 x 460 mm
Footprint: 2.35 m²

Capacity on demand

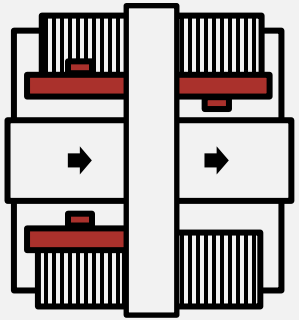
Configurable to your needs

SIPLACE X2 S



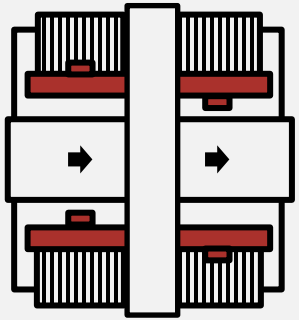
75,000 components / hour
160 x 8 mm feeder tracks

SIPLACE X3 S



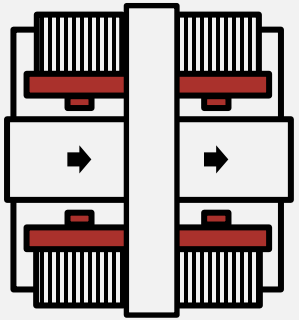
112,500 components / hour
160 x 8 mm feeder tracks

SIPLACE X4 S



150,000 components / hour
160 x 8 mm feeder tracks

SIPLACE X4i S



172,000 components / hour
148 x 8 mm feeder tracks

Maximum performance

- Very high-speed head SIPLACE SpeedStar (CP20 P2)

- Dual-lane placement concept for best line throughput

Flexibility

Three heads to cover all your needs

SIPLACE SpeedStar (CP20 P2)

48,000 components / hour
0201 (metric) - 8.2 x 8.2 x 4 mm
25µm @ 3σ / 0.5 N - 4.5 N / 1 g

SIPLACE MultiStar (CPP)

25,500 components / hour
01005 (inch) - 50 x 40 x 15.5 mm
35µm @ 3σ / 1.0 N – 15 N / 20 g

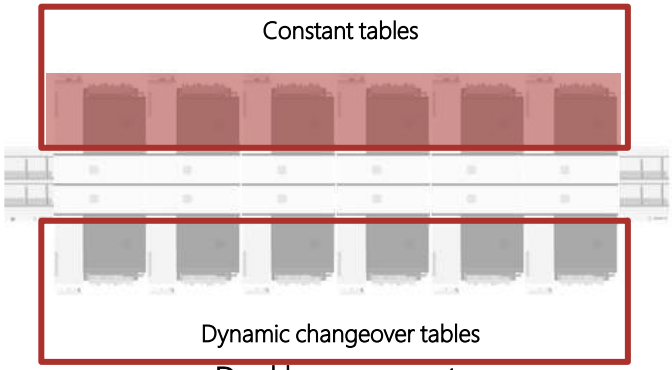
SIPLACE TwinStar (TH)

5,500 components / hour
0201 (inch) - 200 x 125 x 25 mm
22µm @ 3σ / 1.0 N – 30 N / 160 g

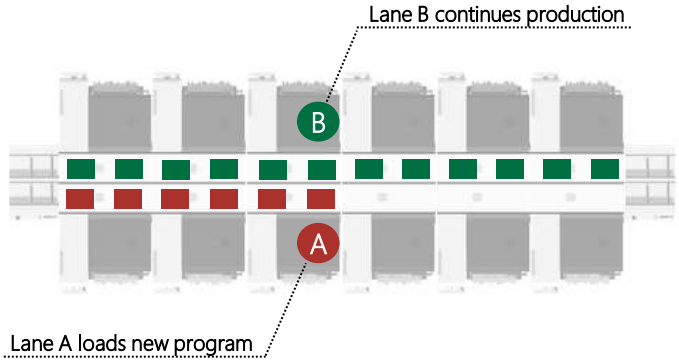
Flexibility

- Flexible SIPLACE dual-lane conveyor

- Innovative setup concepts



Dual lane concept

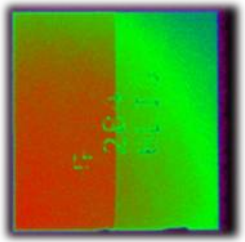


Highest placement quality

- Individual inspection of each component
- Laser component sensor
- Blue light illumination for higher vision contrast
- Component chipping and crack detection

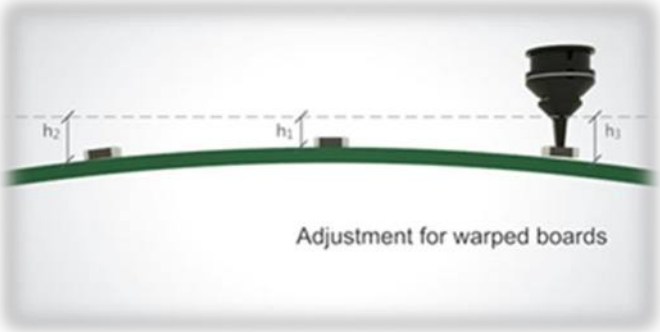
Red Light

Blue Light

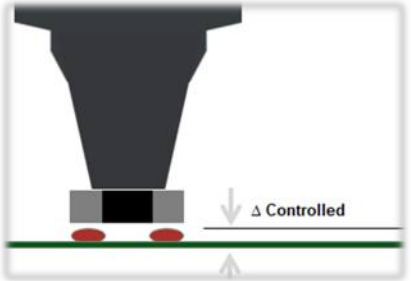


Highest placement quality

- Self-learning of component height and PCB warpage



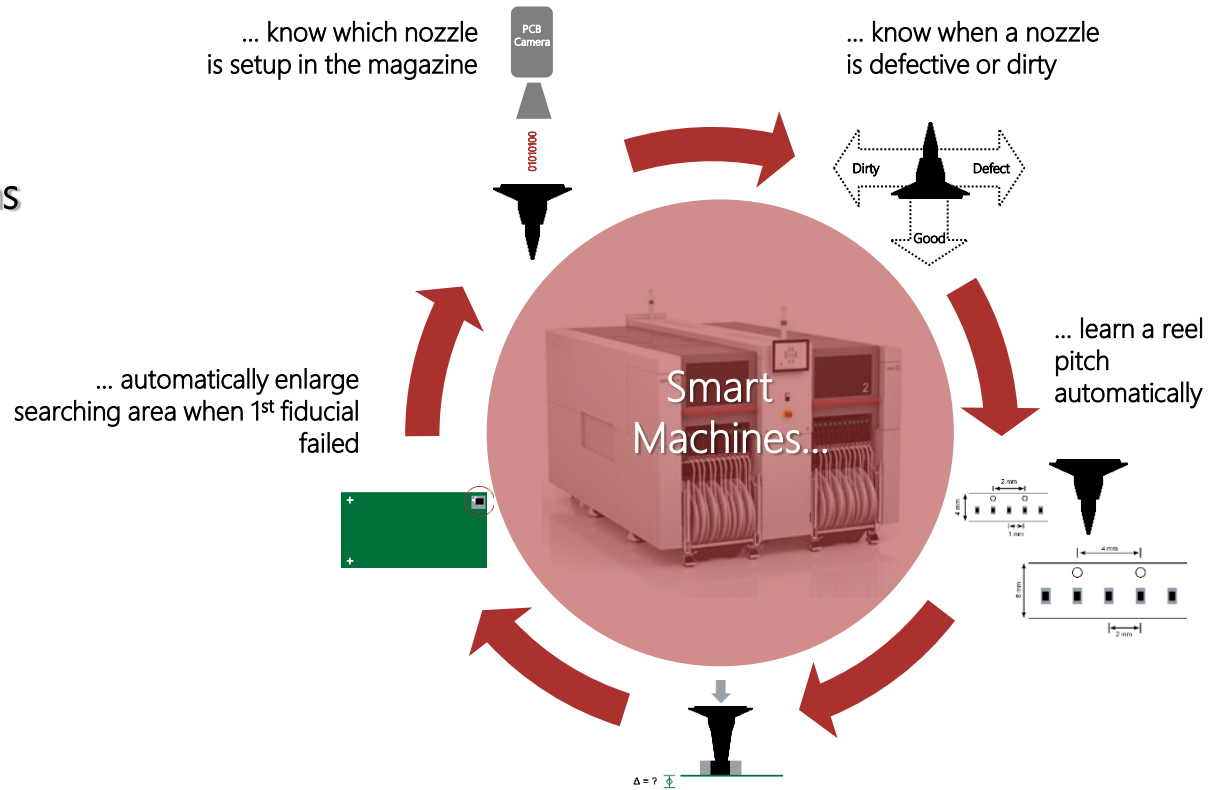
- Low-force and touchless placement process



- Component pin-1 recognition

Smart features

Integrated closed loop functions



Ease of use

User-friendly machine user interface

Optimized machine design for best accessibility and serviceability

Smart operator guidance for fast and efficient assist

Easy integration

Critical manufacturing
an ASM PT company

IPC CFX

ASM OIB

IPC-HERMES-9852

Open interfaces to ASM systems and other equipment

- Fully integrated into ASM line and factory software solutions
- Process and maintenance data interface
- Open standards: IPC-HERMES-9852 / IPC-CFX
- MES connection via ASM OIB

options (1/2)

Line Operations Package

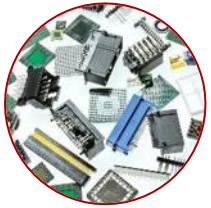
Advanced functions for setup changeovers and line operations

Smart Pin Support

Automatic support pin placement reduces operator workload and prevents errors

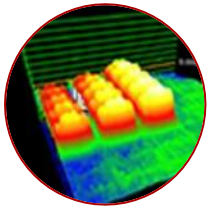
Waffle Pack Changer

Flexible non-stop replenishment of trays during production



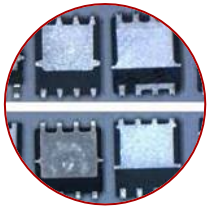
OSC Package

Advanced functions for reliable placement of exotic components



On board PCB inspection

Utilize the PCB camera to inspect the board before and/or after placement



Alternative components

Program multiple component shapes to a single part number

options (2/2)

SIPLACE MeasuringFeeder X

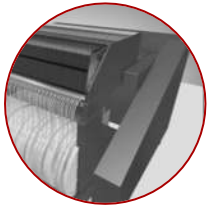
Checks electrical values of components such as capacitors, resistors, inductance and diodes (polarity)

SIPLACE PowerConnector X

Compact power supply for handling feeders at the line without stopping production

SIPLACE GlueFeeder X

Dispenses the adhesive directly onto the component from below



Docking Station

Online verification of complete setup tables in the preparation area

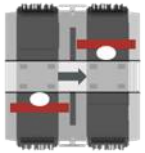
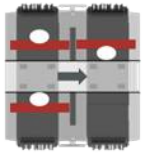
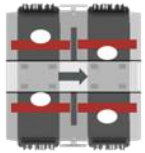
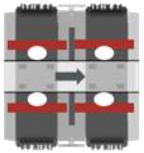
Active Feeder Rack

Active storage solution for frequently used components to prevent unnecessary teardown

Nozzle Cleaning Station

Fully automated cleaning station for complete magazines and nozzles

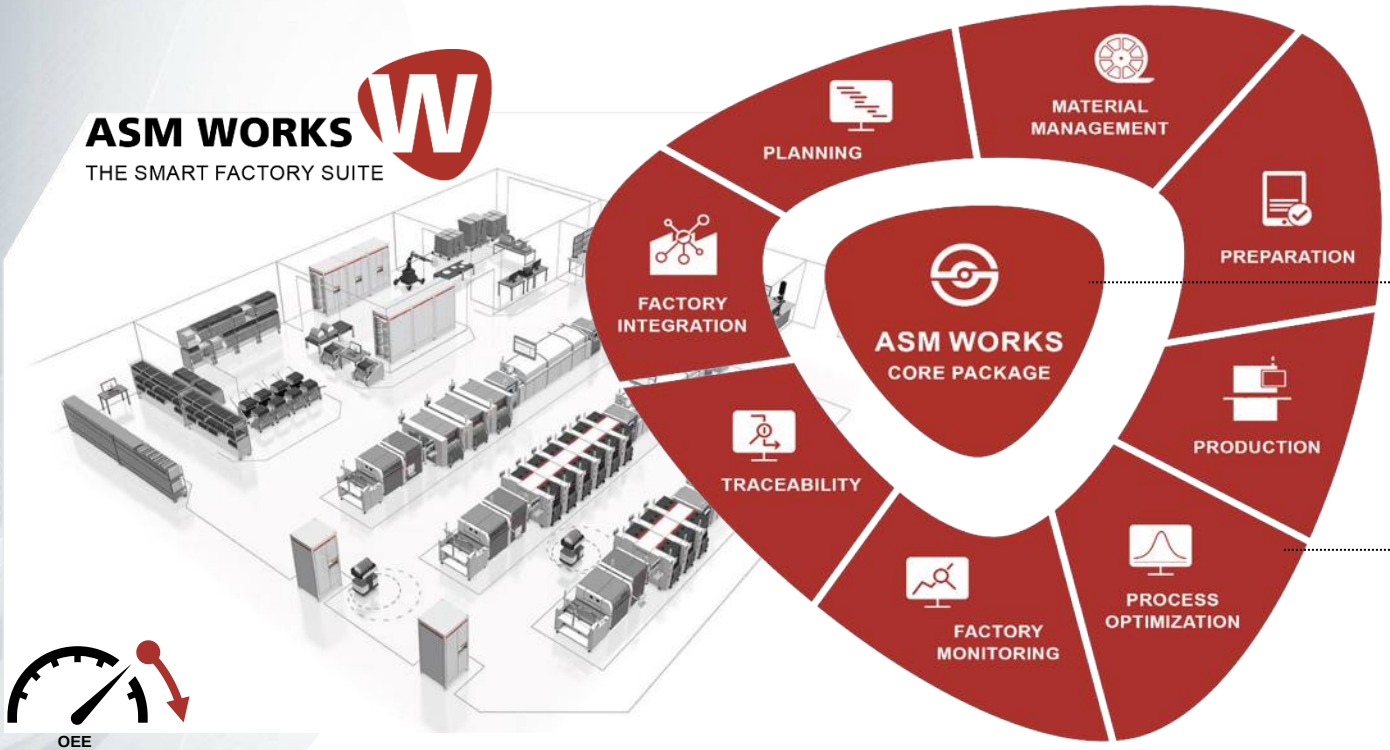
Technical specification

SIPLACE X2 S	SIPLACE X3 S	SIPLACE X4 S	SIPLACE X4i S
			

Technical data*	SIPLACE X2 S	SIPLACE X3 S	SIPLACE X4 S	SIPLACE X4i S
Placement speed**	75,000 cph	112,500 cph	150,000 cph	172,000 cph
Placement speed (IPC)	65,000 cph	97,050 cph	130,000 cph	146,000 cph
Feeder capacity	160 × 8 mm slots			148 × 8 mm slots
Component spectrum	0201 (metric) to 200 mm × 125 mm × 25 mm			
Board size	50 mm × 50 mm to 850 mm × 685 mm			
Machine dimensions (L x W x H)	1.9 m × 2.6 m × 1.6 m			
Placement heads	SpeedStar (CP20P2), MultiStar (CPP), TwinStar (TH)			
Placement accuracy	22 µm @ 3 σ (with TwinStar)			
Conveyors	Single-track conveyor, flexible dual-track conveyor			

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

One more thing: ASM WORKS



ASM Works Core Package

Ideal starter package enabling the Integrated Smart Factory

Upgrade Modules

Upgrade your focus areas and use data to maximize productivity

Bring your factory to the next level

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