

650 SERIES



capacity

5.0" x 6.5"

12.7 cm x 16.5 cm



Shown With Optional
OP3 Semi-Automatic Base

The 650 is designed to assemble roll fed, die cut adhesive components up to a 5.0" x 6.5" / 12.7cm x 16.5cm size envelope.

The machine offers a wide range of features and options that allow for optimal adaption to the specific characteristics of the application. Several placement actuator options enable the placement of an adhesive component in any orientation. With a full suite of communications and control options, as well as an intuitive user interface, the 650 series is the most accurate and easiest to operate adhesive component placement solution available.

Configurations

Benchtop configuration for semi-automatic operation

Like most AccuPlace machines, the 650 can also be configured as a semi-automatic solution, using the OP3 benchtop base station. For more information on how the 650 can be configured to meet your specific project requirements, call (954) 791-1500 and speak to one of our application engineers.

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Features

We focus solely on the automated placement of die-cut adhesive film components and we offer highly standardized and robust equipment, which is easily configured to suit your requirements.

The following options are available for optimal adaptation to your application:

Vacuum Chucks

Standard

Engineered to match the adhesive component profile

Low Durometer

Compliant polymer construction

Bubble Free

Chuck profile expands to ensure no trapped air bubbles

Expanding

Peels multiple components and places them with different spacing

Profiling

Allows wrapping adhesives around the target part

Placement Actuators

X-Axis Correction

Corrects for cross-web component drift

Alpha-Axis

For placing adhesives in an alternate orientation

Theta-Axis

Rotates the adhesive before placement

Options

Additional options to further optimize the 650 for your process needs:

- Rewind Reel
- Dual Rewind Reel
- Top Liner Remover
- Supply Reel Core Adapters
- Non-Stick Input Rollers
- Extended Stroke Lengths
- Clean Room Features
- Tape Low and Tape Out Sensors
- Nickel Plated Peel Plate Kit

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Operation Cycle

All AccuPlace models have in common a unique patented peeling technology which ensures high placement accuracy and repeatability, even for parts that are difficult to peel. Our extensive experience in the design and manufacturing of vacuum chucks guarantees the optimal functionality of any application.

- 1 As the liner is pulled by a stepper motor through its path in the machine, the position sensor looks for a component on the liner. This ensures the positioning of the component exactly underneath the vacuum chuck.
- 2 The placement actuator with its customized vacuum chuck extends to grip the component.
- 3 The drive assembly retracts, pulling the liner around the peel edge and removing the liner from the retained component.
- 4 The placement actuator places the component into the fixtured target part. When the actuator returns to its original position, the peel edge is extended again, and the cycle starts from the beginning.

Specifications

Accuracy (repeatability)	± 0.002"/0.05 mm*
Cycle Time	0.7 - 2 sec. typical*
Capacity	
Max Liner Width	6.5" / 165 mm max
Max Component Length	5.0" / 127 mm max
Max Component Thickness	0.25" / 6 mm max
Reel Size (Standard)	Ø Core: 3.0"/152.4 mm I.O., Ø Max: 17"/430 mm.
Air Pressure Requirement	75 psi/5 bar
Air Consumption	2.0 cfm/56 liter/min
Assembly Force	35 lbs/153 N max (adjustable)
Environmental	Temperature: 50 - 100°F/10 - 38°C Humidity: <90% non condensing
Remote Control Interface	2 outputs: ready & clear 1 input: cycle
Optional Interface	RS-232 Serial
External I/O	4 in, 4 out
Stroke	5"/127 mm standard Optional*** 8"/203 mm, 12"/305 mm, or 20"/508 mm
Power	24 VDC, 1.6 amps (fused)
Mounting Orientation	Any Orientation
Weight	150 lbs/68 Kg

*Component dependent. Accuplace will evaluate your application upon receiving your parts and specifications.