

# DP3500

## SMART PRINT SYSTEM

### Precision Coating Double Sided LPI Soldermask



## Fully Capable Advanced Generation Equipment

The DP3500 coating machine is a semi-automatic double-sided screen print equipment. The DP3500 comes with Smart Print System which delivers superb quality with minimum thickness of 1mil. In addition, Differential Print Pressure Control as well as Servo motor-controlled Peel Off features come as standard features. The DP3500 can apply all types of liquid photo-imageable inks including solder mask, primary image, dielectric, and legend.



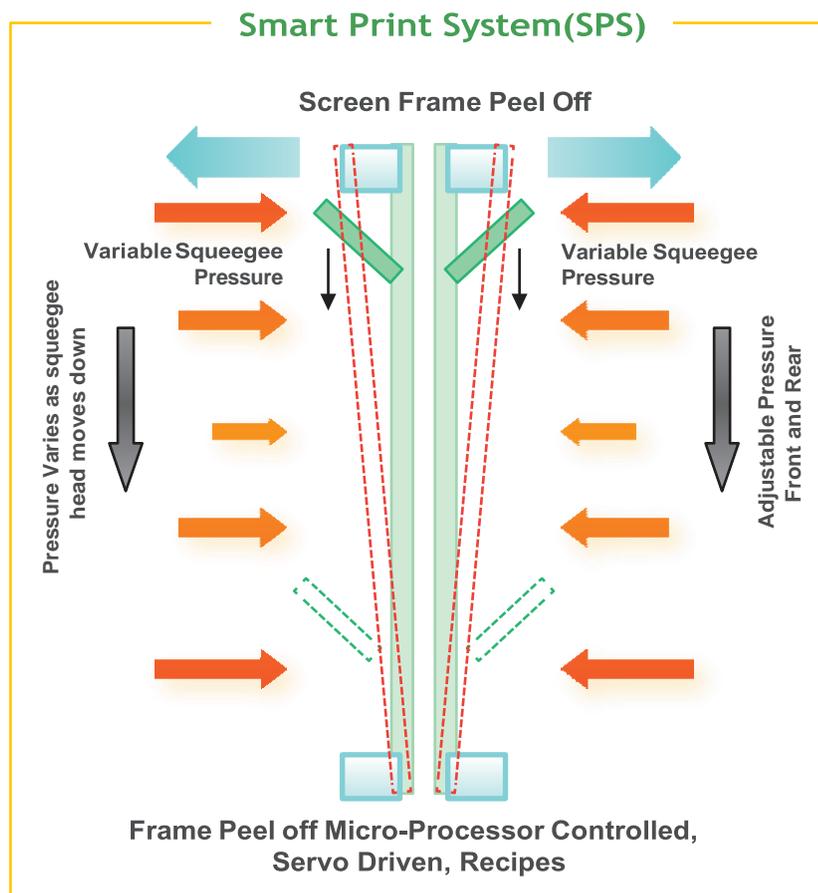
# Taiyo Circuit Automation DP3500

Engineered to deliver more precise coating quality, repeatability and consistency print after print.

## Refined Precision Printing

DP3500 continues to be refined and improved. LPI coaters featuring the SPS "Smart Print System". Precise control with recipe functions reduces coating variation across the panel from the top to bottom and front to rear. DP3500 has enhanced process stratagems; precisely and reliably coating the finest micro-thin flexible substrates through the thickest backpanels. Newly released, "Smart Print System" permits modulation of the selected squeegee pressure during the printing cycles. Varying the squeegee force stabilizes the Dynamic Squeegee Pressure across the substrate during coating; improving coverage and reducing mask in holes.

Recipe controlled fourth servo axis synchronizes peel off frame opening sequence and Dynamic Squeegee Pressure applied to the substrate work surface. This system is unique in its ability to modulate and sustain uniform Dynamic Printing Pressure.



## DP3500 Features

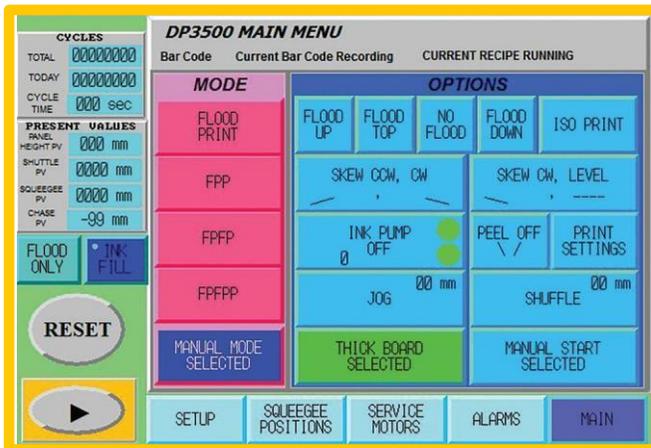
- SPS "Smart Print System"
- Modulated Squeegee Pressure recipes
- Microprocessor servo driven Screen Frame Peel Off
- Extensive use of stainless steel, cleanroom ready
- User friendly operator ergonomics, controls
- Advanced Safety System
- 60 Standard Recipes

## DP3500 Advantages

- Simultaneous Dual-Sided Coating
- Elimination of Side-to-Side Variation
- Reduction in Handling Defects
- Controllable coating thickness
- Unique application technique



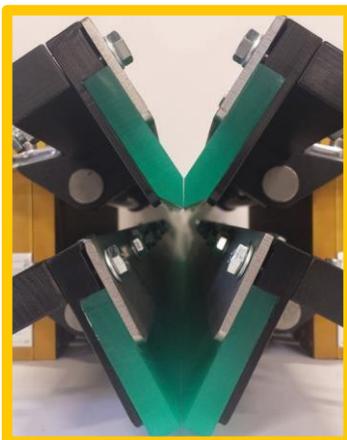
Multi-lingual Omron HMI (Human Machine Interface) touch screen simplifies process control. Each virtual panel displays only those controls suited to the task-at-hand, eliminating confusing clutter of status lights, switches, dials to reduce set up time and enhances productivity. The screen queue prompts the operator to make appropriate choices in the correct sequence. Newly expanded Recipe function stores and supports sixty different recipes. Advanced touch screen enhances control, operator assistance, service and maintenance functions; increasing productivity and safety.



MAIN MENU



RECIPE SCREEN



## Options

- Optional Anti-static enhancements.
- Optional Data Logging enhancements including logging of error messages. Accountability and verification are now required. The DP3500 logs every function of the coating process for every panel by job number.

# Specifications

Specifications	DP3500 LH (Left hand) & RH (Right hand) Models
Minimum Panel Dimensions (W X H)	229 W X 305 L mm (9" x 12")
Maximum Panel Dimensions (W X H)	610 W X 762 L mm (24" X 30") * Clean Rm Opt 610X660mm max
Minimum Panel Thickness	0.05mm (0.002")
Maximum Panel Thickness (Options)	Standard Clamp 3.2mm (0.125") : Thicker Optional
Border Requirement (Top and Bottom)	6mm (0.236") minimum
Screen Frame Size (W X H X T)	933.5 X 1361 X 38mm (37" X 53.6" X 1.5")
Printing Speed	Stepless Adjustable 1-25 cm/sec
Flood Speed	Stepless Adjustable 1-25 cm/sec
Maximum Machine Cycles	90pph**
HMI Languages Supported (currently)	English, Chinese, French, German, Spanish
Electrical Requirement	208-240 V, 1Ø, 50/60Hz, 15 Amp service
Pneumatic Requirement	8.5 m <sup>3</sup> /hr @ 6.9 bar (5 cfm @ 100 psi) (2.2 l/s @.69 MPa)
Machine Length	3394mm (133.6"), (4116mm with cabinet door open)
Machine Width	824mmmm (32.4"), (2434mm with door open)
Machine Height	1936mm (76.2"), (2224mm with Stack Light)
Exhaust: 2 : 152mm (6") & 127mm ( 5")	approx. 425 m <sup>3</sup> /hr (250cfm)
Coater Weight -machine	1136 Kg (2500 lbs.)
Coater Weight -crated	1363 Kg (3000 lbs.)
Crated Dimensions (L X W X H)	356 X 142 X 229cm (140" X 56" X 90")

\*\*Represents mechanical capability based on 610 H panel in F/P/P mode. Actual production rate may vary



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