Gapless Synchronized Screen Printing Machine

RYURONE 35SZ

High-Precision Screen Printing with 0 mm Gap

Special Features for Gapless Printing Machine

Position Accuracy

Improving printing position accuracy because the gap between stencil and substrate does not cause plate distortion.

In-plane Uniformity

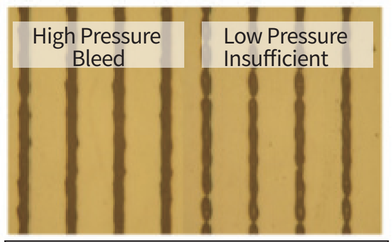
Stable stencil peel-off angle and amount realize uniform pattern shape on the surface without fluctuation of printing pressure.

Resolution

Continuous stable printing of thin lines is possi ble which was difficult to achieve with conven tional screen printing.

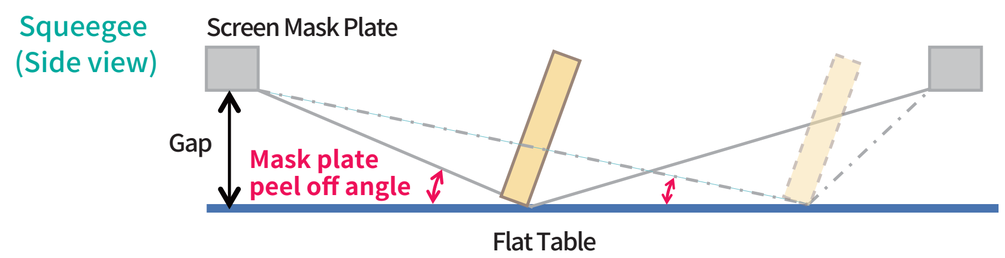
Conventional Screen Printing

Stencil peel-off angle and amount are not always constant values, and the printing pressure changes, resulting in variations for thickness and dimensional accuracy.

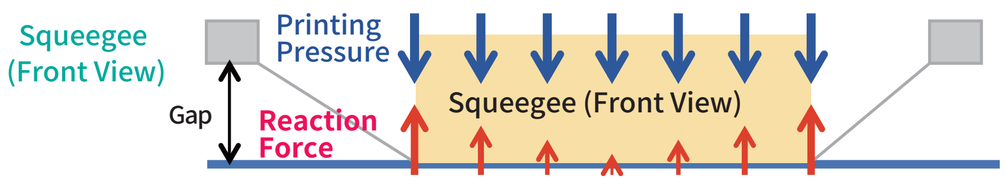


Printing unevenness due to variations in printing pressure

1 The mask plate peel off angle becomes shallower with printing process, and the mask plate peel off deteriorates in the latter half of the process.

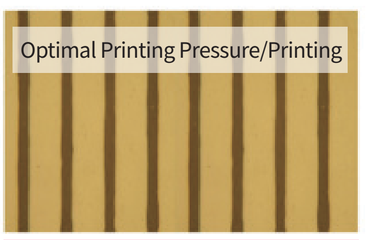


2 Printing pressure differs between the center and the edge due to mask plate reaction force caused by the gap.



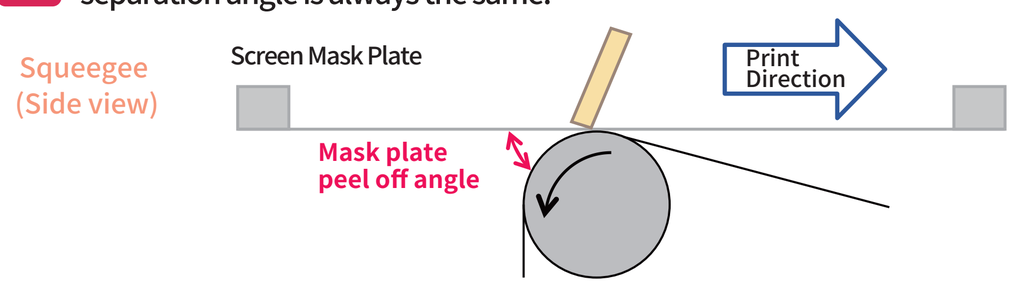
Gapless Printing Effects

Eliminates bleeding and mask plate stretching caused by printing gaps, and achieves high-precision contin uous printing while suppressing print thickening.

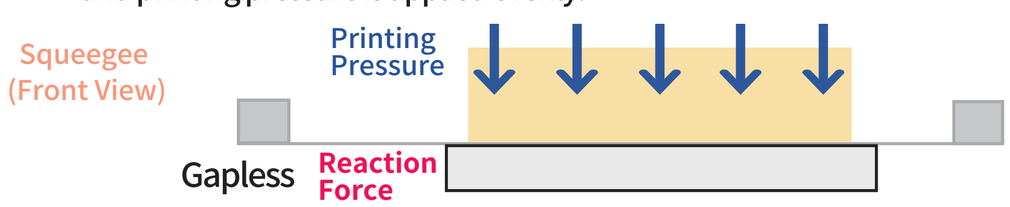


Stable Resolution

1 The printing cylinder separates the base material, so the mask plate separation angle is always the same.

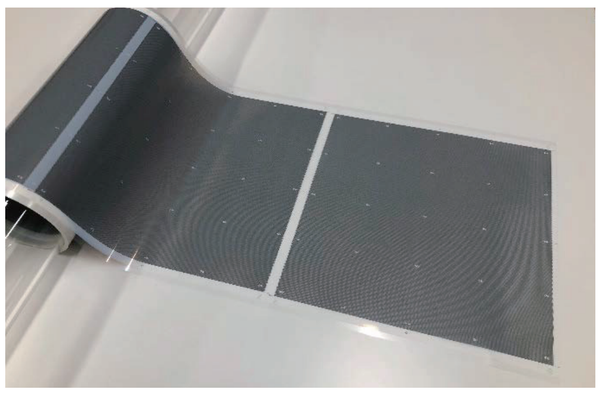


2 Since there is no gap, there is no reaction force from the mask plate and printing pressure is applied evenly.

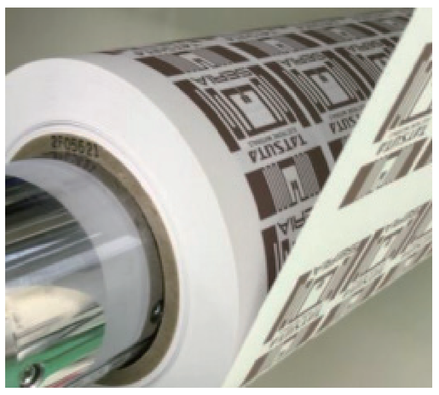


Print Example

Effective in processes such as MLCC (Multi-Layer Ceramic Capacitor) that many small patterns are printed on the inside of the sheet.



Electrode Printing on Dielectric Film



RFID pattern printing with conductive paste

SERIA