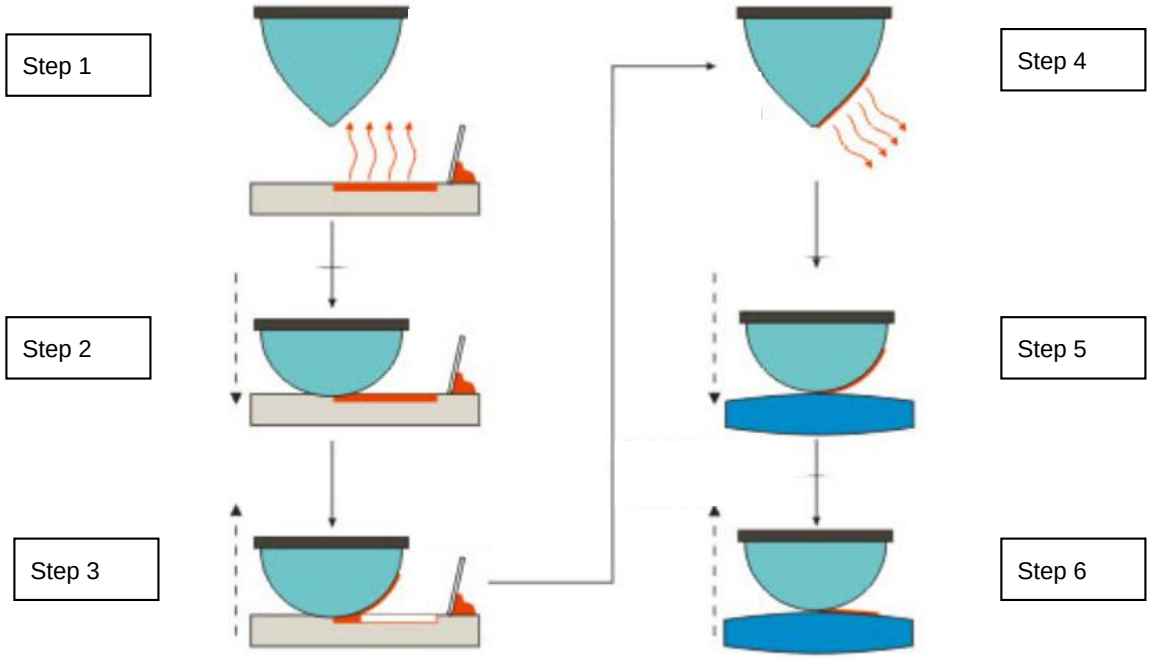


Understanding the Pad Printing Principle

Pad printing uses a flexible silicone pad to pick up an ink image from the etched surface of a printing plate (cliché) and transfer it to the component to be printed.

Step 1: The doctor blade removes excess ink from the plate surface, leaving ink in the recessed image. Some solvent evaporates from the exposed ink surface, making it tacky.

Step 2: The silicone pad moves down and contacts the printing plate.

Step 3: As the pad compresses, it displaces air and picks up the ink image from the plate. It then moves upwards.

Step 4: The pad travels towards the component. During this movement, some solvent evaporates from the exposed ink layer on the pad, making the ink tacky.

Step 5: The silicone pad moves down and contacts the surface of the component.

Step 6: As the pad compresses against the component, it transfers the ink image. It then rises to complete the cycle.

SAHIN

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