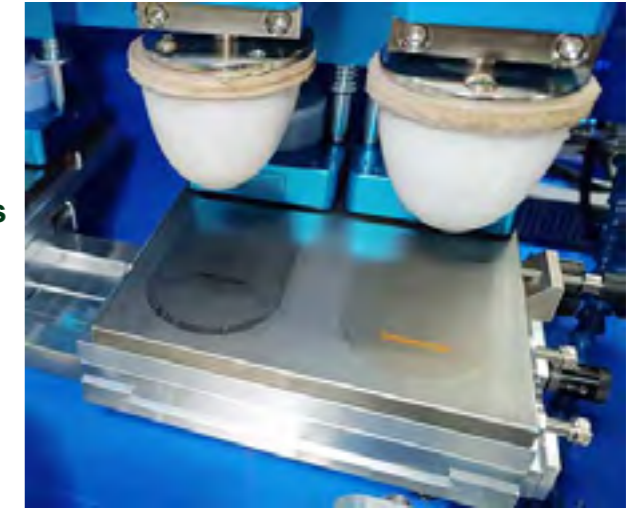


The Relationship Between Pad Printing Plate Etching Depth and Printing

■ Etching Depth of Pad Printing Machine Steel Plates(Clichés)

- * **Coarse/Fine Line Printing:** Fine lines are suitable for using steel plates with shallower etching, while coarse lines or large designs require steel plates with deeper etching.
- * **Material Surface:** Smooth surface materials should use steel plates with shallower etching; on the other hand, textured surfaces or ink-absorbent materials (such as nylon fabric) require steel plates with deeper etching.
- * **Color Matching:** For light-colored materials printing with dark ink, shallower etched steel plates are suitable; for dark-colored materials printing with light ink, deeper etched steel plates are needed.



■ Range of Steel Plate Etching Depth(Cliche plate)

- * Typically, the etching depth of steel plates ranges between 5 μ m and 45 μ m.
 - * For printing on absorbent materials like fabrics, paper, or ceramic blanks, steel plates with deeper etching are commonly used.
 - * Printing dots or four-color separation works generally use steel plates etched to a depth of around 15-20 μ m.
 - * For fine text printing on plastic or metal materials, steel plates with a 20-25 μ m etching depth are typically used.
 - * Coarser lines require steel plates with a depth of around 28-35 μ m.
 - * **The deeper the etching on the steel plate, the faster-drying and more viscous the ink required.**
 - * **The shallower the etching, the slower-drying and more fluid the ink should be.**
- ※ 1 μ m = 0.001mm



■ Characteristics of SKD11 Pad Printing Plates

- * **High Wear Resistance:** Excellent wear resistance with good quenching performance and minimal deformation after quenching.
- * **High Hardness:** After heat treatment, the hardness of the steel plate can reach HRC58-62.
- * **Cost-Effective:** High hardness and moderate price make it one of the most commonly used steel plates.
- * **Suitable for Mass Production:** Widely used in mass production of molds.
- * **High Carbon, High Chromium Alloy Steel:** Extremely high hardness and adequate toughness, with temper hardening properties. It is a typical air-hardening steel and one of the best wear-resistant alloy tool steels available.
- * **Multi-Element Alloy:** With added molybdenum and vanadium, the steel plate combines wear resistance, deformation resistance, and impact resistance.
- * **High Purity:** Undergoes secondary refining, ensuring excellent cleanliness and fine grain structure.



Fine Cause manufactures pad printer and screen printer including standard types and customization. We manufacture a variety of ink cup pad printer, open-tray pad printer, servo motor screen printer, pneumatic cylinder screen printer and customized screen printer.

In the past decade, we have taken part in an extent of customized and precise machinery projects on both pad printing and screen printing including a variety of application fields: printer for plastics, printer for metals, printer for glass, plastic surface printer, metal surface printer, glass surface printer, coin printer, auto-cylindrical bottle printer, SD card printer, MICRO SD card printer, contact lens printer, syringe printer, test tube printer, solder paste printer and touch glass printer, etc.

Our service

- ▶ Pad Printer
- ▶ Screen Printer
- ▶ Hot Stamping Machine
- ▶ Other Equipments
- ▶ Printing Supplies
- ▶ Inks/Solvents/Additives
- ▶ Printing Pad Catalog
- ▶ OEM Service Related

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