

# clichés

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In order to choose a cliché correctly it is important to take these factors into consideration:

- the amount of material to be printed;
- the type of graphics: full prints, thin characters, halftones, four-color etc;
- the quality of the printing;
- the type of printing machine the consumable will be used on (open or hermetic);
- the possibility to produce the printing plate autonomously.

In order to ensure that each client is supplied with the most suitable cliché, TOSH produces a complete range of products of various types, in steel as well as in photopolymer; these are always available in stock, in hundreds of standard formats.

### Steel clichés (10 mm thick)

These clichés yield more than a million printings and are used whenever great precision and high numbers of copies are required. TOSH clichés are made of a special high-quality steel, particularly resistant to oxidation.

All TOSH clichés are lapped on both sides to be etched, and their roughness level is suitable for high quality printing. Hardness: 61-63 Hrc.



Moreover, the extremely thin and uniform molecular surface of TOSH clichés guarantees constant and easy to manage etching depth, a fundamental requirement for quality printing.



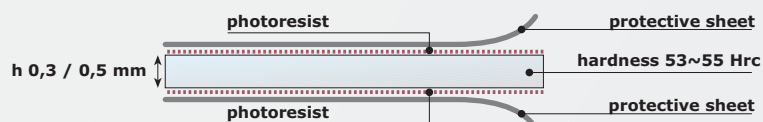
### Thin steel cliché

This type of printing plate can yield 100,000 – 250,000 prints, if used with a blade or a ring blade. In terms of duration it is halfway between 10 mm steel and photopolymer clichés. Prices are decidedly convenient, and these clichés are used as an alternative to 10 mm steel ones when the necessary number of printings is not particularly high.

Just like the photopolymer cliché, these can be quickly assembled by the client without any need for specialized personnel.

In order to make this process easier TOSH has prepared a series of equipments which keep the assembly process simple and repetitive.

Thin steel clichés are 0.3 or 0.5 mm thick and are supplied pre-sensitized. Both sides are covered by a coating of photoresist and then protected by a sheet of black plastic.



These clichés are made with a special high quality steel with excellent mechanical features and hardness of 53-55 Hrc.

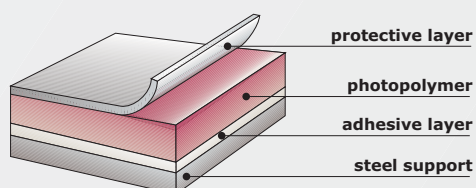
The high quality photoresist ensures high quality photoengravings even in case of wired images.



### Photopolymer clichés

Photopolymer clichés are perfect for small or medium printing needs (10,000 – 100,000 printings), in particularly when it is necessary to be able to produce the clichés autonomously, without resorting to third parties. They are easily produced in a few minutes and require no specialized personnel. These clichés are also perfect for four-color, halftones and large full prints, as they can easily make screened etching (up to 120 lines per cm) while guaranteeing excellent and constant quality.

TOSH's photopolymer clichés consist of a sturdy plastic surface, sensitive to UV rays, anchored to a steel support for better and more uniform adherence to the surface of the printing machine.



The lower number of printings this cliché has to offer when compared to traditional steel clichés is more than compensated by its easiness to produce and final printing quality.