

User Guide for **KTP-II**

I. Platemaking Equipment

1. Plate setter: The product is applicable to all major thermal CTP plate setters carrying the infrared laser head of 830 nm, such as Konita-T series, KODAK trendsetter 800 II quantum and SCREEN 8600sl, etc.
2. Light source and sensitivity of exposure: the wavelength: 830 nm; infrared laser: 110~120 mj/ cm²

II. Development Devices & Application data

1. Developing machine: applicable to most of the processor in the market, such as the Konita Processors, G&J of FLH-P series, W-PTP of GRAFMAC series.
2. Developing chemical: Konita DV-T ,
Konita DV-T8,
Konita DV-T+1

Some major brand of chemical in market like Gold Star, Agfa HD-100, Ipagsa IPT8.

Replenishment chemical: basic solution

3. Suggested parameters of development:

- (1) Developing time: 25-35 sec
- (2) Chemical temperature: 23°C ± 1°C
- (3) Replenishment:

Dynamic: 110-120 ml/ m²;

Static: 60 ml/ hr

Period of chemical replacement: Two Weeks or 1000-1500 m² (Actual amount may be different due to varied degrees of oxidation.)

4. Application of Developer (example):

1) G&J FLH-85P to develop the KTP plate.

Setup of initial development temperature: 23±1 °C

Development time: 80 cm/ min

Dynamic recruitment: 120 ml/ m²

Static recruitment: 60 ml/m²

Period of developer replacement: Two Weeks or 1000-1500 m²

Important:

1. The application data shall be adjusted in actual operation: the concentration of developer will drop (so will the conductivity), due to the loss and aging of chemical after a period of application, and the temperature can be raised or the development time can be prolonged to produce good image effects.

2. The filter element of the developing machine shall be replaced regularly: The wire-wound filter with bore diameter of 50-100µm is recommended.

III. Printing Flexibility

1. Control of Dampening Solution

- Ensure the PH value within the acid range from 4.8 to 5.5.
- Isopropanol, with alcoholicity of 8% to 12%, is applicable.
- The best cooling temperature of fountain tank ranges from 8°C to 12°C. • The conductivity shall be between 800 µs/ cm and 1500 µs/ cm.
- Fountain solution is suggested to be replaced regularly;

IV. Protection Glue

Glue is required if the plate will not be used immediately.

V. Plate Baking

Plate baking is helpful to raise the press run of plates and allow the plate to be resistance to UV ink printing. (For specific baking procedures, please contact our technicians.)

Tips:

1. Stains on the plate shall be cleared before the baking;
2. The retouching solution shall be removed by clean water completely, or it will pollute the plate and stain the machine.
3. Plate baking cannot start until the conditioner on the surface of page is dry.
4. The plate baking conditioner shall be smeared by a piece of absorbent gauze, in order to avoid page and machine pollution.
5. The plate baking conditioner shall be smeared gently, or the fiber will fall and influence the baking quality.

VI. Safelight

Daylight Operation

Note: Plates shall be cleaned in one hour after they are exposed, or the recombination of molecular links in the substratum may impact the plate processing quality.

VII. Storage Means

Best storage condition: temperature: 21~25 °C; hourly variation: < 2 °C

Relative humidity: 50% ~ 60%; hourly variation: < 5%

Packing boxes shall be stored in dry, shady and cool places and kept away from water tanks, driers or direct sunlight. Unsealed plates shall be used as soon possible. They shall be placed into the packing boxes and shading actions shall be taken.

VIII. Storage of Retained Plates

Retained plates shall be cleaned, coated with protection glue and dried, and stored in the condition as same as unused plates.

Note: Since they are usually stick by ink and other sundries, retained plates will perform badly if they are not cleaned properly. The retention time is recommended to be one month at most.

Notes:

1. Please use the developer, protection and other solutions specified in the Manual correctly. Solutions of other brands are likely to cause incomplete development, poor press run and halt dirt.
2. Please consult our technicians for some adjustment if you are to use developing machines other than those recommended here. Adjustment may not be operated in some conditions due to structure of the machine. Thank you for your understanding.

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