4 steps to the perfect screen

1 Imaging
Select a suitable plate type from various types and sizes. The Gallus Screeny G-Line printing plate is supplied protected against light and ready for imaging. The photo emulsion is covered with a protective film that must be removed before imaging. The screen printing plate is supplied in sheet format for removal of the protective film. The screen printing plate can be wrapped several times or be used in the CtS process. The screen printing plate’s surface maintains its finesse, thus achieving significantly improved and finer detail resolutions. Imaging takes place with a scanner, as the flat screen printing plate can be imaged using the CtS process. Imaging is carried out with conventional screen frames and is completely automatic.

2 Washing out
When imaging, the screen printing plate is immersed in both sides with high pressured water and fixed on a screen support in the screen printing plate. After drying, the photo emulsion has an Rz value (surface roughness value) of less than 5 microns.

3 Clamping
The screen printing plate is mounted on the quick-action self-tension frame and fixed in place using two clamps. Two screws are then used to clamp the screen printing plate along one axis in one direction to precisely predefined spring forces. The stable, hard-wearing and well-insulated quick-action frame is suitable for all ink systems and designed to be compatible with the most widely used screen printing presses. Special frames are available on request.

4 Preparing
Before printing, the frame’s outside and inside edges are masked with silver adhesive tape. A screen printing plate can be changed in less than 1 minute. The screen printing plate can be stored quickly and easily in a film folder for repeat orders.

Gallus Screeny G-Line & C-Line
Hollow glass printing with system

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Simplicity for productivity

The Gallus Screeny G-Line is setting new standards in cost-effectiveness and production reliability for decorating hollow glass and containers using industrial screen printing.

Gallus offers an end-to-end solution for industrial glass screen printing that is already widely used for other printing processes - a fully integrated printing system that uses low-priced pre-coated screen printing plates. This method is based on the industrially reinforced and pre-coated Gallus Screeny G-Line screen printing plate, a quick and easy plate loading process using an ingenious frame system. The extremely fast manufacturing time of just 6 minutes per print-ready Gallus Screeny G-Line screen printing plate delivers a time saving of 60 minutes per screen compared to conventional screen manufacturing. This minimizes machine downtime and eliminates the need to manufacture and store screens in advance of downtimes and eliminates the need to manually screen manufacture. This minimizes machine saving of 60 minutes over conventional G-Line screen printing plate delivers a time saving of at least 6 minutes per print-ready Gallus Screeny G-Line screen printing plate.

The industrially reinforced and pre-coated Gallus Screeny G-Line screen printing plate offers unbeatable cost benefits and reliability for decorating hollow glass and containers.

The following problems are significantly reduced:

- **Complaints**
  - Screen manufacturing
  - Fabric tears
  - No spare screens
  - Register problems
  - Ghosting
- **Quality improvement**
  - No need for repeat investments
  - Reduced requirement for screen replacement
  - Perfect finish thanks to process standardization
  - No waste water treatment involved
  - No acid wash treatment involved
- **Efficiency**
  - Immediate availability of screen-grade manufacturing agent
- **Suitability**
  - High Efficiency of recurring costs for cleaning, creating new screen
- **Ensure**
  - 25 % cost benefit

**Time saving**

- **Conventional screen manufacturing**
  - **Screening process**
    - Set up manufacturing
    - Photo emulsioning
    - Set degreasing system
    - Degreasing of screen
    - Dry screen
    - Washing out
  - **Fabric pretreatment**
    - Fabric pretreatment
    - Fixing with silver adhesive tape
    - Masking the frame’s inside edge with silver adhesive tape
    - Cutting out frame
    - Dry adhesive
    - Glue fabric
    - Insert frame into clamping table
  - **Printing**
    - Print the screen with silver adhesive tapes
    - Mask the frame’s inside edge with silver adhesive tape
    - Print the screen using silver adhesive tape
  - **Screen storage and re-use**
    - Store screen without frame in film folder
  - **Washing out**
    - Perform conventional or CtS imaging
    - Check screen for dirt
    - Dry photo emulsion
  - **CtS (Heidelberg Phoenix)**
    - Perform conventional or CtS imaging
    - Wash out solution
    - Print

- **Gallus Screeny G-Line**
  - **Screening process**
    - Set up manufacturing
    - Automatic photo emulsioning
    - Automatic degreasing of screen
    - Automatic dry screen
  - **Printing**
    - Print the screen with silver adhesive tapes
    - Mask the frame’s inside edge with silver adhesive tape
    - Print the screen using silver adhesive tapes
  - **Screen storage and re-use**
    - Store screen
  - **Washing out**
    - Perform conventional or CtS imaging
    - Wash out solution

**Benefit from the advantages of the Gallus system:**

- **Better Printing Quality**
- **Higher print run stability**
- **Standardization with Screeny System**
- **Repeatability**