

Gallus Screeny® Flat Screen Printing

A Revolutionary System for Hollow Glass Decoration



Simplicity and productivity

Gallus Screeny® is setting new standards in cost-effectiveness and production reliability for decorating hollow glass and containers.

Gallus Screeny® offers a unique end-to-end solution for industrial screen printing on hollow glass. The innovative system seamlessly integrates a production-ready, nickel-plated and photopolymer-coated screen printing plate with a pioneering Fast Tension Frame (FTF) to create a perfectly integrated and efficient screen printing system, setting new standards in quality, productivity, reliability and ease of use.

The in-house developed nickel-plating treatment strengthens the steel mesh, providing the Screeny® with robustness and surface smoothness. This process effectively minimizes plate warping and enhances ink-flow and durability. In addition, Screeny® offers a consistently homogenous photopolymer coating achieved through a

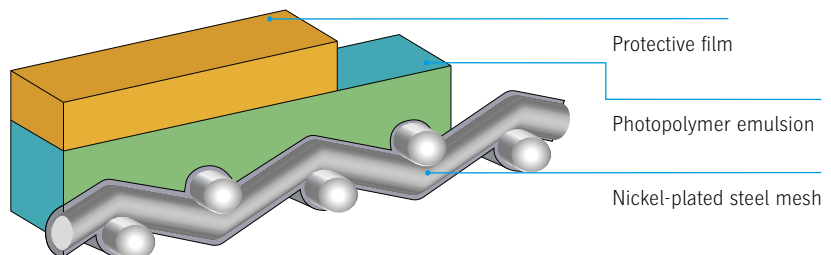
fully industrialized process that maintains its thickness over time. Screeny® screen printing plates are suitable for all types of inks, such as ceramic or UV cured inks. They are compatible with CtS (Computer-to-Screen) imaging as well as with conventional imaging systems, such as vacuum exposing units.

Finally, the Fast Tension Frame (FTF) complements the Screeny® plate and reinforces its benefits. The reusable spring-mounted frame guarantees consistent tension during printing. The intuitive assembly of Screeny® and FTF saves significant time and costs, making it your first choice in your printing process.

Screeny® Printing Plates

High precision, stainless steel mesh:

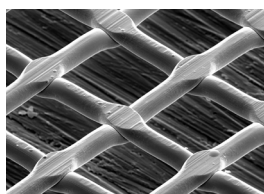
- Calendered for precise thickness
- Reinforced by nickel-plating
- Coated on one side with photopolymer emulsion



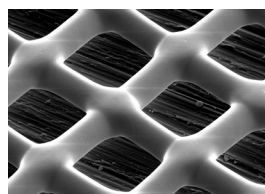
Nickel-Plating Process

Improvement of the mesh structure using Ni-plating technology:

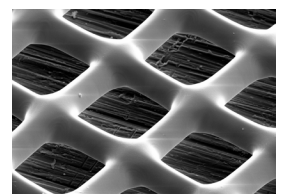
- Higher rigidity of the mesh
- Less elongation during printing
- Better ink transfer and ink flow
- Homogenous temperature distribution across the printing plate



Stainless steel calendered



Screeny squeegee side:
Flat mesh cross



Screeny printing side:
Flow shape

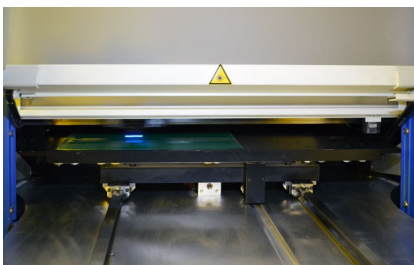
Ease of use redefined

**In 4 simple steps to the perfect screen.
Unique flow characteristics make the
Gallus Screeny® printing plate the ideal
tool for brilliant printing results.**



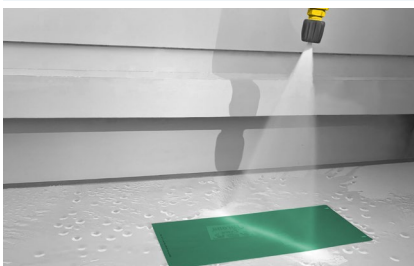
Screeny: Ready to
print in record time

1. Imaging



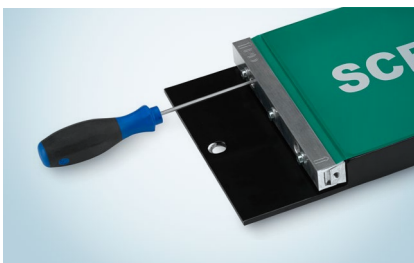
Gallus Screeny® is supplied as customized, pre-cut printing plates with the photopolymer emulsion already applied, ready for imaging. Once the protective film has been removed, the Screeny® can be exposed conventionally or using CtS (Computer to Screen) imaging. The highly homogeneous polymer coating reduces light refraction during imaging, resulting in higher precision and detail resolution.

2. Washing out



After imaging the Screeny® printing plate must be washed out on both sides using pressurized water. This can be done either manually or automatically (i.e. Gallus ECO 400 wash-out unit).

3. Clamping and stretching



After imaging and washing-out, the Screeny® is mounted on the proprietary Gallus Fast Tension Frame. The ingenious clamping system ensures fast and secure mounting of the Screeny® and seamless changeovers. The FTF can be reused countless times. The integrated springs ensure constant tension of the Screeny® from one print job to the other. The FTF is suitable for both UV and ceramic / thermoplastic inks. It is insulated to allow electrical current to pass through the Screeny® for heating. The Fast Tension Frame can be customized to fit any printing press.

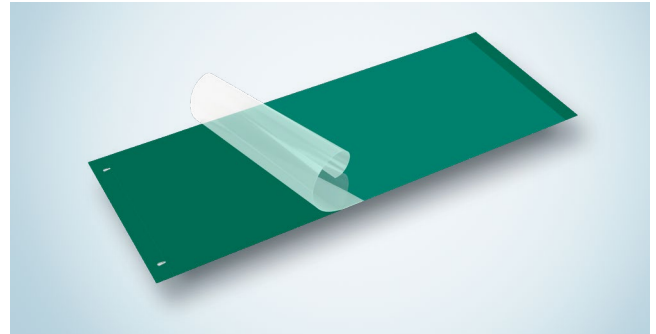
4. Taping



Finally, the Screeny® and frame are bonded together with adhesive tape on the in- and outside of the frame to avoid ink leakage during the printing process. The total preparation time for the Screeny® is significantly shorter (roughly ten times) than for conventional stencils.



Screeny® and FTF



Screeny® with protective film

Your advantages at a glance



Printing quality

Screeny delivers unmatched and consistent print quality as a result of its unique industrialized production process.



Reliability and Durability

Gallus boasts decades of experience in the production of silk screen printing plates. The in-house nickel-plating process of the steel mesh substantially increases the durability of the printing plate.



Productivity

The robustness of the nickel-plated steel mesh combined with a specially formulated photopolymer emulsion contribute to enhance the longevity of the plate and therefore its productivity.



Time Savings and Ease of Use

The Screeny printing plate and the Fast Tension Frame (FTF) form a winning duo. Not only will users find the mounting extremely timesaving but also very user-friendly. Fast changeovers add to the overall efficiency and effectiveness of the system.

Screeny® Portfolio

Detailed Specifications and Visual Reference

		C-Line						G-Line				T-Line (Tactile)				
Designation		QMC	KSC	RSC	OVC	GLC	JLC	QMG	KMG	RSG	OVG	DWG	DYG	BYG	BUG	BZG
Solid		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Text and lines	rough	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	fine	●	●	●	●	●	●	●	●	●	●	-	-	-	-	-
Halftone printing		●	●	●	-	-	-	●	●	-	-	-	-	-	-	-
Relief		-	-	-	●	●	●	-	-	-	-	●	●	●	●	●
Opacity		●	●	●	●	●	●	●	●	●	●	-	●	●	●	-
● excellent ● good ● acceptable - not suitable																
Technical data																
Plate thickness		55	50	73	74	92	102	60	64	66	58	163	220	210	280	380
Mesh count		370	325	280	230	200	165	370	325	290	230	88	100	64	64	64
Open screen surface		26	33	34	44	43	40	16	20	21	25	39	36	56	56	56
Mesh size		35	46	53	73	83	97	25	35	40	56	180	165	265	265	265
Vth		14.3	16.5	24.8	32.6	39.6	40.8	9.6	12.8	13.9	14.5	63.6	79.2	117.6	156.8	212.8

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