

Sakurai

Tech_Business
Competence Hub
London

FOILOVER your PRINTING?

HERE'S
the ULTIMATE
SOLUTION.



LQM⁷⁶₁₀₅
EVOLUTION
Luxury Quality Metal
3D FOILING MACHINE

www.sakurai-gs.co.uk

Enhance
your print
with foil



Sakurai

Sakurai LQM EVOLUTION Series

Perfect for clients wanting to enhance their print with hot foil, the **LQM EVOLUTION** series removes the need for dies and minimises foil waste.



Producing
by **Printing**

Enhance your print with foil

Machine Description

The **LQM 76 EVOLUTION** & **LQM 105 EVOLUTION** are specifically designed to apply foil precisely and efficiently across a variety of substrates.

The job setting parameters for foiling are easily entered, edited and stored via a user friendly, touch screen panel.

The job settings can be retrieved by the operator at any time, allowing repeat jobs to be set-up instantly.

The machine is also equipped for remote teleassistance, enabling rapid online support.

The main job setting parameters are as follows:

- Foil application temperature
 - Foil application pressure
 - Substrate length
 - Indexing front to back (up to 10 times)
 - Number of decoration areas
 - Start point and end point distances of each decoration
-

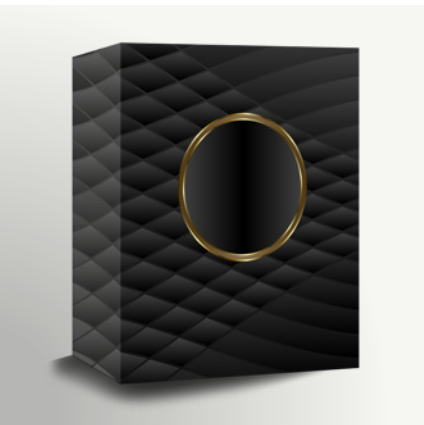
Function Description

The LQM EVO is a unique foil application system, designed to be fully integrated into a Sakurai screen printing line, installed after the dryer and before the stacker. The foil adheres to cured screen-printed UV varnish and depending upon the design, can achieve amazing flat, tactile or 3D effects.

After the UV varnish is cured, the sheet is transferred to the foil unit via infeed rollers and is automatically registered by a lateral side registration bar. The LQM EVO automatically locates the zero position and will begin to apply foil based on the job parameters. If the job does not require foil, a bypass function allows the sheet to pass

through at the same speed as the press, acting purely as a transport mechanism.

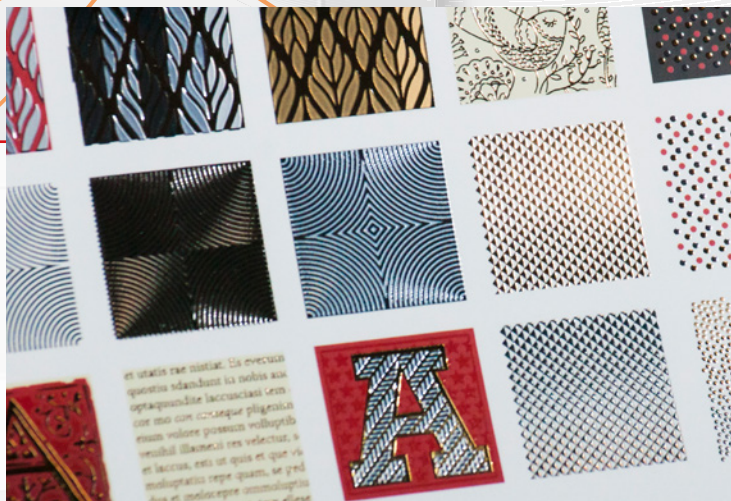
To set up a job, the operator loads the foil into the machine and sets all the job parameters. The LQM EVO enables foil to be precisely applied from the front to the back of the substrate, in areas as small as 10mm or as large as the whole substrate length. Foil can be applied in narrow bands or across the whole width of the substrate. The precision of foil application provided by these two functions ensures the minimum foil wastage. Once the foil is applied, the substrate is passed to an exit table with motorized rollers which guide it into the stacker.



General Technical Features

The main features of the machine are as follows:

- Inbound roller for side register alignment of media, coated in scratch-proof material to prevent marking, infeed rollers with chrome steel bottoms and scratch-proof rubber-covered tops. Side register bar with cross and angular adjustment. Dedicated roller motorization with all rollers driven by individual servos.
- Photocell detection of substrate front edge with support for semi-transparent plastic material.
- Foil unwinder with dedicated brushless motorization. Precision foil tension system with dancer controlled by power meter. A photocell detects the presence of foil and activates the foil stop if the foil breaks.
- Internally heated upper foil application roller coated with pressure and temperature resistant silicon rubber. Temperature control system, with double probes for reading the temperature inside the roller, detects differences in temperature from the center to the outer edges and keeps the foiling head at a constant temperature, distributing heat uniformly across the whole length.
- Rubber roller pressure with servo-controlled mechanical movement specifically designed for foil optimization.
- Motorised steel transport and lower contrast rollers, chromed to control sheet position and provide perfect back pressure, equipped with independent motorization.
- High-performance system for ascent/descent movement managed by latest generation brushless motor. The system enables the LQM EVO to obtain maximum precision on the drop/climb point, pressure and descent speed. With 10 programmable descent/climb settings for each sheet.
- Outgoing air blowers with electropneumatic pilot for easy detachment of foil from the support.
- Exit table with motorized rollers to guide the sheets out to the stacker.



Format Specifications

MEDIA

Minimum sheet size: 200mm x 297mm
Max. sheet size LQM 76: 520mm x 760mm
Max. sheet size LQM 105: 1050mm x 760mm

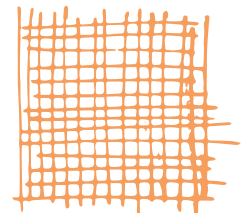
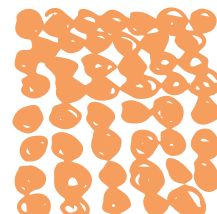
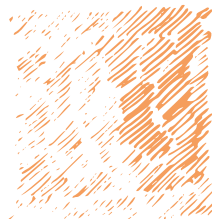
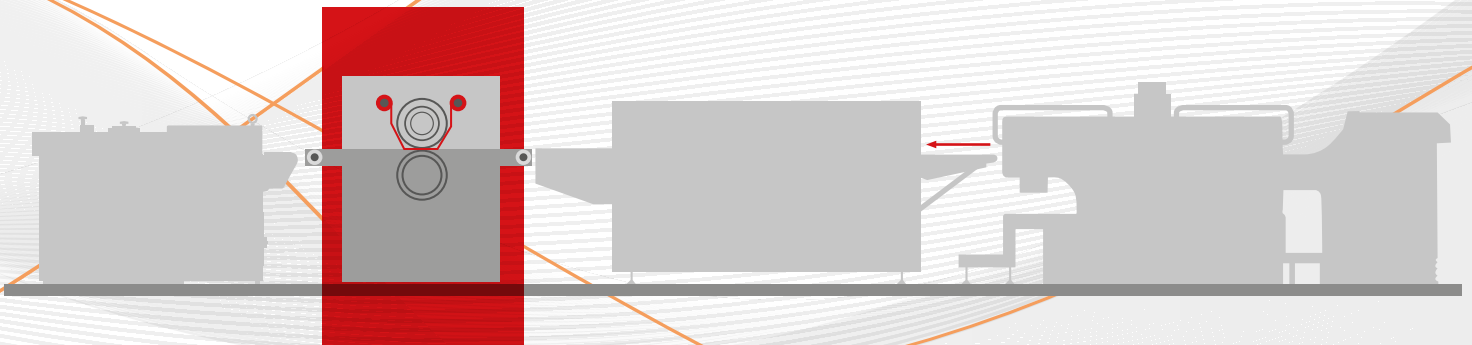
FOILING DETAILS

Max. temperature: Max. foil application temperature 150 degrees C
Internal core diameter: 3 Inches (76mm)
Maximum roll diameter: **LQM 76:** 240mm,
LQM 105: 300mm
Minimum foil width: 100mm
Maximum foil width: 760mm/1050mm
Maximum width foil: mm 760/1050

FOILING SPEED

Bypass speed (no foil): **LQM 76** 55m/pm,
LQM 105 65m/pm
Maximum speed: 30m/pm during foil application process

**Foil application throughput can decrease significantly when using complex indexing





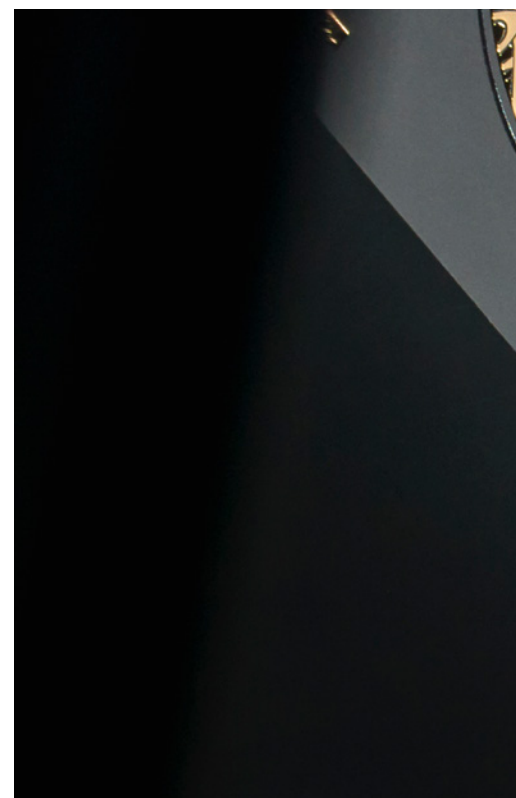
Message from Chairman and President

We sincerely appreciate your interest in and support for our company. Since incorporating in 1946, Sakurai Graphic Systems Corporation has manufactured printing equipment and provided sophisticated services to customers closely tied to the domestic and overseas printing industry under our corporate philosophy of developing and maintaining customer relationships that endure for generations.

Over this time, the information industry and information-based society across the world have grown rapidly, benefiting from the advances in information technology. The printing industry, which plays such a vital role in the communication of information, is undergoing a structural revolution in response to increasingly diversifying and sophisticated market needs. We at Sakurai Graphic Systems Corporation intend to continue developing printing equipment with advanced technology as a total solution-oriented company that satisfies the needs of the market.

Yoshikuni Sakurai
Chairman & Ceo

Ryuta Sakurai
President



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