

# Sakurai Gifu factory Open House 2012

The event will be the good opportunity for all as it will provide opportunities to discuss the wish and find the solution

Sakurai  
Graphic  
Systems Corporation

of Japan has developed the screen printing technology which prints 40 micrometer line width and the space in between the lines on flexible printed electronics board. This mass production technique of printed electronics is the narrowest level in screen print industry. Printing micro electric circuit by Screen print is lower production cost and less waste substrate compared to photolithograph way, which is more popular method, but narrow pitch printing has been problem. Sakurai will promote the Screen printing press with the technology for such electric circuit printing of Touch Panel and Solar Cell.

This technique prints up to 500 x 500 mm and dimension accuracy is plus or minus 50 micrometer when it prints 400 x 320 mm sheet. This is adaptable for touch panel of the tablet PC. The electric circuits which surround the touch panel can be much smaller and it will let smart phone screen bigger.



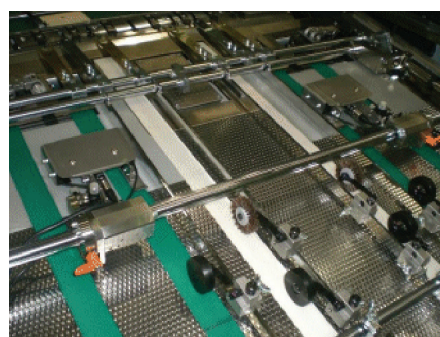
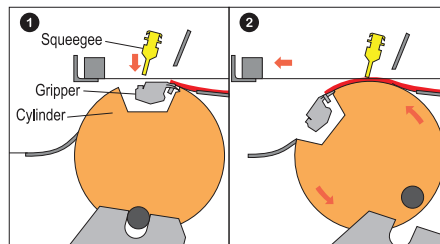
**The Sakurai Show**  
**Time Schedule:** 4th - 7th of April 2012  
**Place:** Sakurai Gifu Factory, Japan  
**Exhibition Contents:** MS80SD with CCD camera alignment system & zero clearance printing MF80 - Upgraded especially for scratch-less sheet transportation Other latest models of screen and offset presses.



Screen printing is done by pushing ink through back side of screen plate by squeegee. The type of the Screen printing press is "cylinder" type and new development of Sakurai is minimizing clearance between screen plate and printing substrate, so the screen plate does not need to be extended by squeegee pressure as before. Therefore strain or stain has been solved.

Sakurai Graphic Systems is Offset and Screen press manufacturer and they have been focusing on Screen printing press, former technique was not enough to print micro electric circuit. Sakurai succeeded for 30 microns line width under the development level and will be promoting Screen presses by their own technologies.

Recently the President of Sakurai Graphic



Systems corp, Ryuta Sakurai has said that "Printing industries are still uncertain about the future, and we have received some negative news from the market. However, there are some clear areas moving forward which is the industrial screen-printing especially for the PE - Printed Electronics. Following this trend and the requirements from them, we have upgraded our products, and are pleased to announce that we are going to schedule to show those products and technologies in our Gifu factory. Our unique technologies, which can print very fine conductive lines for touch panel products, were introduced in some media. We would like to show you what we can do in that field in the factory's open house."

Sakurai also have some new technologies for the mass-production of PE in the regular production such as non-scratch sheet feeding and printing, and others.

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L/S = 50/50µm on Pourous Film	L/S = 70/70µm on Uncoated PET