

# SAM Open House at New R&D Center & Solution Coating Lab

Sung An Machinery Co., Ltd.

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**S**AM (Sung An Machinery Co., Ltd.) held an open house to inaugurate its new R&D Center located at the company's South Korea headquarters on April 22, 2016. Hosted by Dong-Seong Shin, president of SAM, the event was held just prior to Chinaplas (April 25 to 28), and attracted over 50 key customers and industry partners from all over the world. Participants were given an in depth tour of the new R&D Center, the Solution Coating Lab, the SAM Printed Electronics Lab, and SAM's overall manufacturing facilities during the one day event. Mr. Shin greeted the international guests and introduced SAM by saying that "we began working with highly advanced coatings in 1996 and established our first printed electronics lab in 2007 to support production of photovoltaic materials, touchscreens, and flexible displays. We then established our Solution Coating Lab in 2016." SAM opened its doors to an additional 140 guests on Friday, April 29 for local customers.



## Visitors Tour the SAM Facilities at the Open House

SAM designs and manufactures an extensive range of machinery for the printing and converting industry. Their portfolio of products includes extrusion, aqueous, solvent based, and solvent-less laminating machines, coating and lacquering machines, rotogravure printing machines, and flotation dryers. These technically advanced machines deliver high productivity and a quick return on investment. The company has three research labs and technical centers in Korea and New York. SAM has installed more than 600 lines in 32 countries.

SAM opened its Solution Coating Lab in March 2016 at the R&D Center. The center is located in a new 15,600 sq. ft. (1450 m<sup>2</sup>) building and offers clean room facilities for precise optical film coating. The center is fully equipped with analytic instruments, such as a high accuracy peel strength testers, optical property measuring systems, and humidity chambers. The lab's pilot coating machine is designed for water and solvent based, 100% solids, and hot melt coatings with a maximum width of 1,060 mm at 600 mpm (bypass speeds up to 1,000 mpm). The line offers modular coating capabilities for slot die, micro gravure, pressurized chamber doctor blade, direct/reverse/offset gravure, S-knife (comma), reverse roll, semi-flexo, 5-roll, and transfer roll to start. The line includes a 22 meter, 7 zone flotation and roll support dryer, which is one



The New SAM R&D Center

of the largest and most versatile in the industry. One unique feature of the line is automatic turrets at the primary unwinder and rewinder for continuous running. Additional features include a secondary unwinder for wet and dry lamination, corona treatment, web cleaning, and UV curing.

Demonstrations during the open house included high speed coating via a smooth roll coater as well as automatic high speed transfers at the unwinder and rewinder. Trials were presented by Mr. Danny Ryu, director of SAM Solution Coating Lab, and by Mr. Heiss Kang, director of Sales for SAM. The trials in their class 5000 clean room facility (class 1000 clean room at the coating enclosure) included ① a dry run with 20 µm thick x 800 mm wide PP film at a 50 m/min running speed, ② a splicing test with 20 µm thick x 800 mm wide PP film at a 900 m/min running speed, ③ a wet run with a semi flexo coating head, 20 µm thick x 800 mm wide PP film at a 600 m/min running speed, and ④ a dry run with 20 µm thick x 800 mm wide PP film at a 50 m/min running speed.

The splicing test at 900 m/min was designed to go beyond demonstrating the splicing technology, and show how the equipped rollers and machine operate stably without vibration.



**Pilot Line**

The global SAM team, which covers all locations in the world where customers would like to install our machinery, is ready for your next challenge.

## Solutions Start with SAM



**SAM** provides Highest Quality

Machines for Roll to Roll Converting of Paper, Film & Foil

- Extrusion Coater & Laminator
- Solution Coating
- Gravure Printing



May 31 - June 10, 2016  
Dusseldorf / Germany  
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