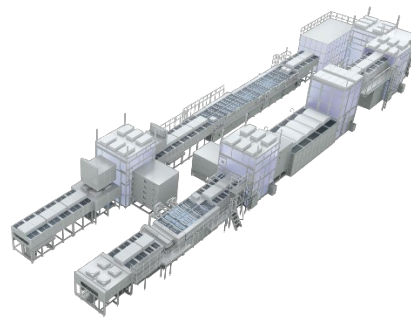


SCREEN Launches OLED Panel Production Systems for 8th Generation Substrates

– SK-E2200G and SK-E2200H Join E Series Lineup –

Kyoto, Japan – October 18, 2022 – SCREEN Finetech Solutions Co., Ltd. (SCREEN FT) has finalized development of its new SK-E2200G and SK-E2200H systems, designed for processing of the 8th generation¹ substrates used in the latest OLED panels. These displays are currently in high demand, particularly for applications such as IT devices and automotive systems. SCREEN FT plans to launch both models during October.



SK-E series

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Demand for displays for IT products such as smart devices has grown rapidly in recent years, mainly due to the widespread shift to remote working and online classes. Similarly, the current transition to electric vehicles and advances in self-driving technologies are expected to lead to steady growth in both the size and installation of automotive displays.

With increasingly high-definition, high-value-added displays, primarily OLED panels, being adopted for these applications, there has been a growing need for OLED production systems for 8th generation substrates. These advanced systems are capable of producing a larger number of panels from a single glass substrate.

In response to these industry trends, SCREEN FT has developed two new coater/developer systems specifically for handling 8th generation substrates. They are the SK-E2200G, designed for use in the formation of OLED backplanes, and SK-E2200H, configured for the processing of touch sensor panels. Both models will join SCREEN FT's existing E series group of production systems for OLED panels.

The E series lineup resolves various issues that occur during the manufacturing process for OLED panels, including

the generation of organic contaminants, minute particles and static electricity. These capabilities markedly improve yield rates, enabling E series models to deliver industry-leading productivity. They have already established an impressive track record as mass production systems for 6th generation² substrates.

The soon to be launched SK-E2200G and SK-E2200H inherit the same basic specifications that have proven so successful for 6th generation substrates while also offering shorter takt times. Compared to SCREEN FT's conventional systems, they improve productivity by around 10%³ and are expected to ensure a stable supply of OLED panels even as demand continues to grow.

Additionally, their overall length is around 30%³ shorter than conventional systems, providing significant space savings. The SK-E2200G has also been designed with a "1 by 2" configuration⁴ that enables it to connect to two exposure systems. This feature allows factory space to be utilized far more efficiently than before.

SCREEN FT is already planning further additions to its E series lineup in the future. It believes these systems will make a major contribution to the reliable production of OLED panels and other high-definition, high-value-added displays.

●SK-E2200G

Coater/developer used in the formation process for the backplanes of OLED panels and other high-definition, high-value-added displays.

Main features

- Supports the line/space (L/S) for 1.2 μm processes.
- Can be equipped with two nozzles for use with a LevicoaterTM, a levitation transfer type slit coater. Handles the multiple types of resist required for OLED panel production.
- Features an overall length that is around 30% shorter³ than conventional systems.
- Designed with a "1 by 2" configuration⁴ that allows it to interface with two exposure systems.
- Supports 8th generation substrate sizes of 2,200 x 2,500, 2,250 x 2,600 and 2,290 x 2,620 mm.

●SK-E2200H

Coater/developer used in the formation process for the touch sensor panels of OLED panels.

Main features

- Can process two 8th generation half-substrates at the same time.
- Supports the line/space (L/S) for 1.2 μm processes.
- Can be equipped with two nozzles for use with a LevicoaterTM, a levitation transfer type slit coater. Handles the multiple types of resist required for OLED panel production.
- Features an overall length that is around 30% shorter³ than conventional systems.
- Supports 8th generation half-substrate sizes of 2,200 x 1,250, 2,250 x 1,300 and 2,290 x 1,310 mm.

1. Eighth generation substrate sizes: 2,200 x 2,500, 2,250 x 2,600 and 2,290 x 2,620 mm.

2. Sixth generation substrate size: 1,500 x 1,850 mm.

3. Comparison with SCREEN FT's 8th generation model, the SK-2200G.
4. A production line that previously included two coater/developers and two exposure systems can now be configured with only a single coater/developer, providing a major space saving. Multi model on glass (MMG) processing is also supported, enabling the production of panels of different sizes from the same substrate. In addition, exposure processing can be performed for a time longer than the line takt by operating two exposure systems in parallel.

Note: Levicoater is a registered trademark and/or trademark of SCREEN Holdings Co., Ltd.

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