

## Developed gravure cylinder surface inspection system in cooperation with SiriusVision

We (Headquarters: Kashiwa, Chiba, Japan; President: Tatsuo Shigeta) announce the outline of its latest gravure cylinder surface inspection system, developed jointly with SiriusVision Co.,Ltd., a manufacturer of image inspection systems. By integrating the system into our proven automated laser gravure cylinder making system, it can be built as a fully automated inspection line to reduce the burden of manual inspection process after cylinder making. Details of the system, including a demonstration of the actual system, will be exhibited at Converttech Japan 2024, which will be held from January 31 (Wed.) to February 2 (Fri.), 2024.

### INSPECTION SYSTEM-FX

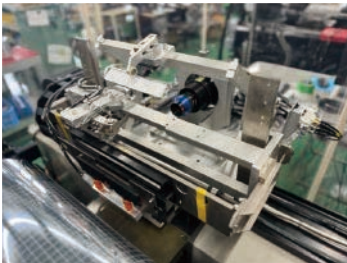
Detection capability of 10um/pixel resolution

Inspection completed in less than 5 minutes  
(1100 x 600 cylinders)

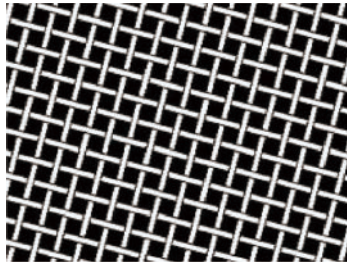
AI enables automatic classification, sorting, and marking of defects



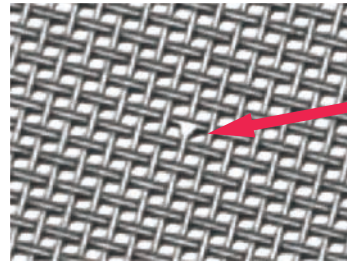
Inspection head



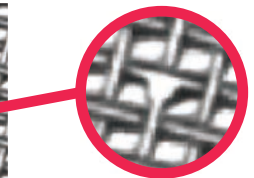
RIP data (1bit TIFF)



Scanned Image



Detected defect Image



## NewFX3 line equipped with automatic cylinder surface inspection machine

The inspection machine to be integrated into the NewFX3 line will fit within the same 16m width and 10m depth as the existing space. Although the final chrome-plated surface will be inspected additionally, overall takt time and productivity will not be affected, and the same capacity as the previous model will be maintained.

The MMI provides an at-a-glance view of the status of the inspected cylinders. The MMI will also allow flexible inspection of copper and resist surfaces, and we plan to open a demonstration line equipped with the inspection machine in early 2024.

