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Ink transfer mechanism for gravure-offset printing by using flow visualization SEUNG-HYUN LEE[1], KI-SANG NAM, Korea Institute of Machinery and Materials — We investigated ink transfer mechanism for gravure-offset printing by monitoring ink transfer process. For convenient visualization of ink transfer, cantilever-type roll-to-plate gravure offset printing system is designed. We visualized ink transfer process from patterned plate to rolling blanket roller. Serial images were captured by using high-speed CMOS camera and long range microscope, and analyzed by image process. We investigated the rotational effect of blanket roller on ink transfer mechanism by comparing the ink transfer process with different pattern angle and printing speed.

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