



ASML Mini-Batch Evaluation for Samsung

Samsung agrees to evaluate ASML Thermal's 300mm MiniBatch Demo System!

ASML - Thermal will provide one (1) - 300mm Evolve™ MiniBatch Demo Systems configured to deposit DCS - Nitride process to Samsung jointly with IPS for the purpose of evaluation.

ASML - Thermal Division and IPS will jointly provide spare parts, consumable parts as well as installation start-up assistance. We will offer customer support for the evaluation system free of charge during the evaluation period and will bear the cost of shipping this evaluation system to Samsung.

IPS will provide installation support and facility-related subsystems: CS Clean F2/Hf abatement, CTK DCS/NH3 abatement, Gas-detectors, Trap, Pump, and Exhaust Switch for Pump.

Samsung will be responsible and pay for all other facility related costs, and operational costs of the system including gases, chemical supplies, wafers and insurance for all evaluations.

The targeted system ship date of the Samsung evaluation system is estimated for the end of November 2003. Samsung will evaluate DCS - Nitride process applications with ASML/IPS for up to six (6) month from the ship date (the "evaluation period"). During this six (6) month, we will complete installation, process qualification, and acceptance of system and process evaluation criteria, which would be determined before the evaluation period between ASML/IPS and Samsung. At the completion of six (6) month evaluation period, ASML/IPS and Samsung will review the performance result against evaluation criteria.

ASML/IPS and Samsung will agree on a formal written system and process performance specification and evaluation plan before the tool shipment. ASML/IPS and Samsung will share all the data collected from the system. ASML/IPS will retain the right to use this system information. ASML/IPS and Samsung will hold biweekly meetings for system and process reviews during the entire evaluation period with ASML/IPS. Furthermore, we will hold quarterly management meeting to review and benchmark progress of this evaluation effort.

After the completion of the successful system evaluation, Samsung will consider issuing a standard P.O. to ASML/IPS based on the terms and conditions mutually agreed before end of the evaluation period. In the case an agreement can not be reached towards the purchase of this evaluation system, Samsung will ship back the evaluation system to ASML/IPS within 30 days of the termination of the evaluation period. Otherwise, Samsung may request for extension of maximum three (3) additional month with mutual agreement between Samsung and ASML/IPS to complete any additional evaluation with formal evaluation plan.

IPS

By: H. S. Chang

Name: Ho-Seung Chang

Title: President

Date: October 1, 2003