ASML

YieldStar S-250D



Order Codes

9428.999.46120

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DESCRIPTION

The YieldStar S-250D is a standalone metrology tool which allows measured diffraction based overlay (DBO) and diffraction based focus (DBF) technique ADI CD.

KEY FEATURES AND BENEFITS

The YieldStar S-250D enables and supports the following applications:

- BaseLiner MMO
- On-product overlay measurements for monitoring and APC (in conjuntant and 16 x16 um targets in-die (uDBO) or 30x60 um targets in scribelant
- · On-product focus measurements for monitoring and APC (in conjunct
- On-product CD ADI measurement is an option for inline measuremen

Increased Sampling

YieldStar S-250D provides increased sampling compared to the S-200C, be

Process Robustness

Diffraction based techniques are, by design, more robust against process varies especially at the edge of the wafer. This gives very precise on-product overlocalculate more accurate corrections to be applied on the scanners.

The S-250D has 30% better TMU compared to the S-200C which supports of corrections and better on-product overlay and focus performance of the sca



Device Matching

The correlation of DBO measurements to real device overlay is better than t value at tighter on-product overlay requirements.

TECHNICAL SPECIFICATIONS

Overlay (uDBO, 10x10 um² targets)

- TMU
- MAM

Focus (DBF)

- Dynamic precision
- MAM time

Productivity

- Throughput (4 wafers, 1000 uDBO points)
- Wafer overhead

