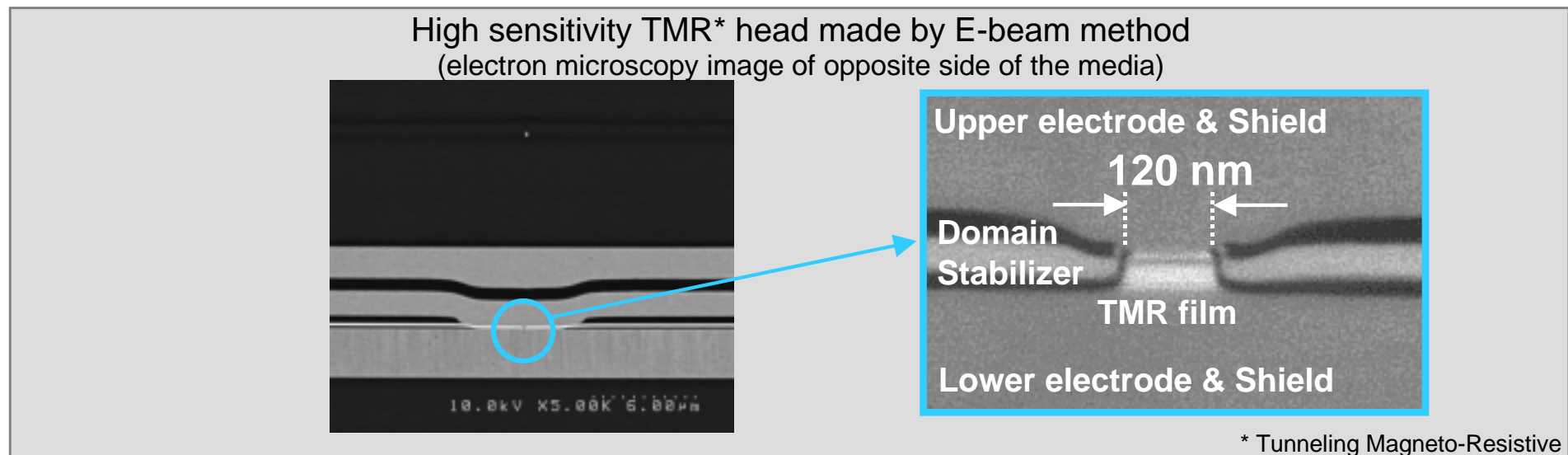


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## Development of 100 Gbit/sq. inch class Perpendicular Magnetic Recording Heads

- Adoption of EB lithography technology in magnetic head production for the first time -



100 Gigabit class perpendicular magnetic recording head technology was developed for large capacity compact hard disk drives. A new domain stabilization technique was utilized to achieve a stable recording performance in a single pole writer for high-density recording. Electron beam (EB) lithography was applied for the first time to the magnetic head, resulting in a read track width of 120 nm, and world-class high output was obtained using high sensitive TMR film.

This technology will accelerate the practical application of perpendicular magnetic recording method, the next-generation recording technology, and become fundamental technology in hard disk drives with areal densities of beyond 100 Gbits per square inch.