

Supply Chain Explorer

By the Emerging Technology Observatory

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Photomask (maskless) lithography equipment

Maskless lithography equipment draws patterns in a substrate using laser light, electrons, or ions. Unlike photolithography equipment, maskless lithography tools work without masks. This allows them to quickly and cheaply make new patterns, but makes the process of drawing patterns slower. As a result, maskless lithography tools can cost-effectively produce low-volume items like photomasks, but are ill-suited to mass chip production.