

Supply Chain Explorer

By the Emerging Technology Observatory

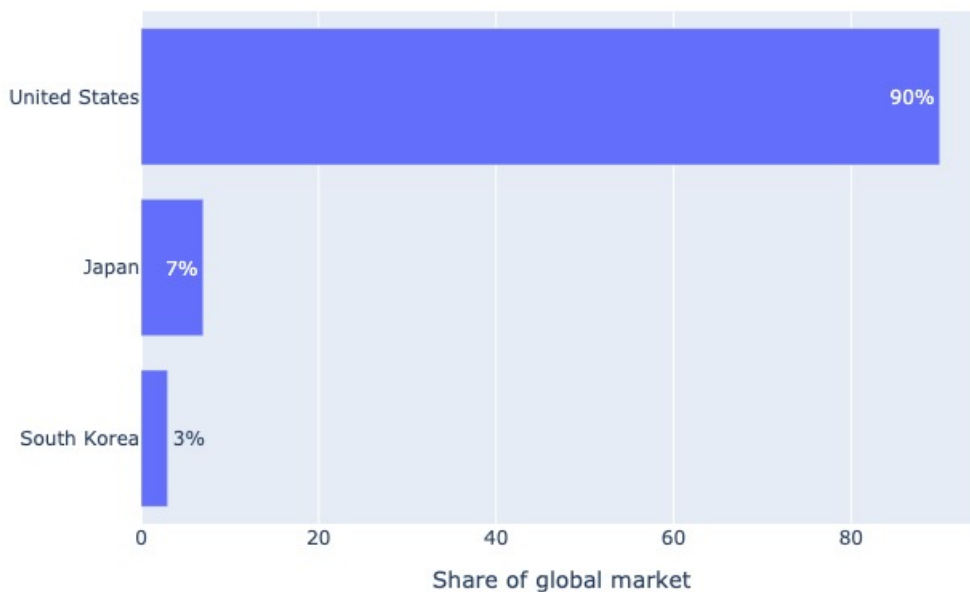
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Rapid thermal processing tools

Rapid thermal processing (RTP) is critical to several steps in chip manufacturing. RTP tools include lamps, lasers, or other mechanisms to quickly increase the temperature of a wafer in order to change its properties. For instance, RTP tools are used to activate materials (such as dopants in transistors) to change their properties, modify materials, or make deposited films denser to improve their properties.

RTP tools include two submarkets: conventional tools provide heat for as long as multiple seconds (solely produced by the United States and South Korea); and other tools provide it only for milliseconds (solely produced by the United States and Japan).

Country provision



Notable supplier companies

- AP Systems (negligible market share) - South Korea
- Applied Materials - United States
- Mattson Tech - United States
- Screen - Japan
- Veeco - United States