

# Supply Chain Explorer

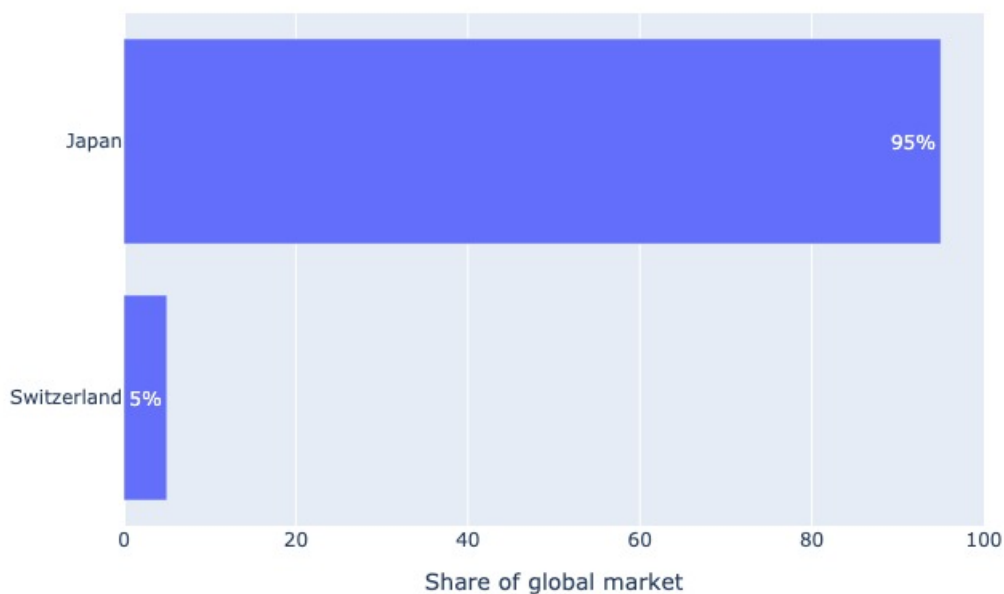
By the Emerging Technology Observatory

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## Crystal machining tools

Crystal growing furnaces and machining tools are necessary to produce all wafers-thin, disc-shaped materials fabs used to produce chips. The furnace forms a cylindrical ingot of silicon from polycrystalline raw silicon; machining equipment then cuts the ingot into wafers used for chip fabrication. These tools have relatively low value and complexity relative to other semiconductor manufacturing equipment. Japan, Germany, and Switzerland are the main producers.

### Country provision



Other providers:

- China (mainland) (negligible market share)

### Notable supplier companies

- Accretech - Japan
- Beijing JingYi Century Automatic Equipment (negligible market share) - China (mainland)
- Disco - Japan
- JSG (negligible market share) - China (mainland)
- Meyer Burger - Switzerland
- Okamoto - Japan
- Toyo - Japan

