TEL’s Products

We would like to explain the processes of manufacturing semiconductors by TEL’s products.

The process for manufacturing semiconductors is thin film on the surface of the wafer.

Manufacturing Semiconductors

Semiconductors are manufactured through the process of generating fine circuits using gas and chemical solutions on a thin disc called a silicon wafer. We form oxide film (Thermal Processing System), apply photore sist solution (Coater/Developer), perform pattern exposure through photo masks and grind down the oxide film using plasma (Plasma Etch System). Next, come the steps of ion implantation, metal coating, and wafer inspection, completing the manufacturing process. Next, the wafer is cut into pieces, wired and packaged, and the semiconductor is complete.

Other Lines of Business

Aside from manufacturing semiconductor production equipment, TEL is also engaged in the development and manufacture of equipment that produces FPDs (Flat Panel Displays). In addition, electronic components (handled by Tokyo Electron Device Ltd.), such as semiconductors and Internet technology products (handled by Computer Network Division) are also major pillars of TEL’s business operations.
TEL manufactures various types of equipment that form and etch thin film on the surface of wafers.

A wafer is then cut, wired and packaged.

With this, the semiconductor is complete.

A repetition of forming and etching

semiconductor circuits of the wafer.