

MAGNETIC RECORDING MEDIUM MANUFACTURING DEVICE

Abstract

A magnetic recording medium is manufactured without the disappearance of the surface of a substrate that comprises a magnetic recording layer by ion milling and without being influenced by the atmosphere. A magnetic recording medium manufacturing device (10) manufactures a magnetic recording medium (70) by implanting an ion beam into a substrate (71) that comprises a magnetic recording layer and removing by ashing the surface of the substrate (80) that comprises the magnetic recording layer after the ion beam is implanted. The magnetic recording medium manufacturing device comprising an ion implantation chamber (20) for implanting the ion beam into the substrate (71) that comprises the magnetic recording layer coated with a resist film (76) or a metal mask, and an ashing chamber (30) for removing, by ashing, with plasma, the resist film (76) or the metal mask of the substrate (71) that comprises the magnetic recording layer coated with the resist film (76) or the metal mask. The ion implantation chamber (20) and the ashing chamber (30) are coupled in a vacuum state. The magnetic recording medium manufacturing device is provided with a substrate carrier (60) for carrying the substrate (80) into which the ion beam is implanted from the ion implantation chamber (20) to the ashing chamber (30).

Figure 1