

Abstract

When, during manufacture of a magnetic-disk glass substrate, end
5 surface polishing is performed on the glass substrate, magnetic field lines that
extend in a thickness direction of the glass substrate are formed using a
magnetism generating means, a magnetic slurry containing polishing abrasive
particles and a magnetic functional fluid is disposed in the magnetic field lines
to hold the magnetic slurry along the magnetic field lines, and the end surface
10 of the glass substrate is brought into contact with the magnetic slurry held
along the magnetic field lines, and the end surface and the magnetic slurry are
moved relative to each other in the contacting state to polish the end surface of
the glass substrate.