WHAT IS CLAIMED IS:

1. A processing apparatus comprising:

a chuck table configured to hold a workpiece by a holding surface;

a processing unit configured to process the workpiece held by the chuck table;

a moving mechanism configured to move the chuck table and the processing unit relative to each other along a direction parallel with the holding surface of the chuck table;

an angle control mechanism disposed on the moving mechanism and on a lower side of the chuck table, the angle control mechanism controlling an angle of the chuck table; and

an imaging unit configured to image the workpiece held by the chuck table,

the chuck table including a holding member formed by a transparent body and holding the workpiece and a supporting member supporting a part of the holding member and connected to the angle control mechanism,

the processing apparatus moving the chuck table by the moving mechanism and imaging the workpiece through the holding member by the imaging unit in a state in which the

imaging unit is positioned in a region that is on a lower side of the holding member and is not superimposed on the supporting member;

wherein the chuck table further includes an outer circumference holding member configured to hold an outer circumferential portion of the holding member, and

the outer circumference holding member is supported by the supporting member.

2. The processing apparatus according to claim 1, wherein

the angle control mechanism is a rotating mechanism that rotates the chuck table.

3. The processing apparatus according to claim 1, further comprising:

an upper side imaging unit configured to image the workpiece held by the chuck table, from an upper side of the holding member.

4 The processing apparatus according to claim 3, further comprising:

a positioning member to which a target for performing positioning between the imaging unit and the upper side

imaging unit is set, wherein

the target is imaged by the imaging unit positioned on the lower side of the holding member and the upper side imaging unit positioned on the upper side of the holding member.

5. The processing apparatus according to claim 1, further comprising:

a moving mechanism configured to move the imaging unit along a direction perpendicular to the holding surface of the chuck table.

6. A workpiece processing method for processing a workpiece by using a processing apparatus,

the processing apparatus including

a chuck table configured to hold the workpiece by a holding surface,

a processing unit configured to process the workpiece held by the chuck table,

a moving mechanism configured to move the chuck table and the processing unit relative to each other along a direction parallel with the holding surface of the chuck table,

an angle control mechanism disposed on the

moving mechanism and on a lower side of the chuck table, the angle control mechanism controlling an angle of the chuck table, and

an imaging unit configured to image the workpiece held by the chuck table,

the chuck table including a holding member formed by a transparent body and holding the workpiece and a supporting member supporting a part of the holding member and connected to the angle control mechanism,

the workpiece processing method comprising:

a tape affixing step of affixing a tape to a top surface side of the workpiece;

a holding step of holding the workpiece by the chuck table via the tape after the tape affixing step;

an identifying step of, after the holding step, imaging the top surface side of the workpiece through the holding member by the imaging unit positioned in a region that is on a lower side of the holding member and is not superimposed on the supporting member, and identifying a region to be processed in the workpiece,

a processing step of cutting the workpiece along the region to be processed, by the processing unit after the identifying step;

a detecting step of, after the processing step,

imaging the top surface side of the workpiece through the holding member by the imaging unit positioned in the region that is on the lower side of the holding member and is not superimposed on the supporting member, and detecting a difference between a position of the region to be processed and a position of a processing trace formed in the processing step; and

a position correcting step of correcting a position to be processed by the processing unit on a basis of the difference between the position of the region to be processed and the position of the processing trace.

7. A workpiece processing method for processing a workpiece by using a processing apparatus,

the processing apparatus including

a chuck table configured to hold the workpiece by a holding surface,

a processing unit configured to process the workpiece held by the chuck table,

a moving mechanism configured to move the chuck table and the processing unit relative to each other along a direction parallel with the holding surface of the chuck table,

an angle control mechanism disposed on the

moving mechanism and on a lower side of the chuck table, the angle control mechanism controlling an angle of the chuck table, and

a first imaging unit and a second imaging unit configured to image the workpiece held by the chuck table,

the chuck table including a holding member formed by a transparent body and holding the workpiece and a supporting member supporting a part of the holding member and connected to the angle control mechanism,

the workpiece processing method comprising:

a holding step of holding the workpiece by the chuck table such that a top surface side of the workpiece is opposed to an upper surface of the holding member;

an identifying step of, after the holding step, imaging the top surface side of the workpiece through the holding member by the first imaging unit positioned in a region that is on a lower side of the holding member and is not superimposed on the supporting member, and identifying a region to be processed in the workpiece;

a processing step of, after the identifying step, forming a processed groove along the region to be processed, on an undersurface side of the workpiece by the processing unit;

a detecting step of, after the processing step, imaging the processed groove by the second imaging unit positioned on an upper side of the holding member, and detecting a difference between a position of the region to be processed and a position of the processed groove; and

a position correcting step of correcting a position to be processed by the processing unit, on a basis of the difference between the position of the region to be processed and the position of the processed groove.