WHAT IS CLAIMED IS:

1. A cutting apparatus for cutting a workpiece, comprising:

holding means for holding the workpiece;

cutting means including a cutting blade adapted to cut the workpiece held by the holding means, and a spindle adapted to rotate the cutting blade;

a blade cover for housing the cutting blade;

cutting water supplying means for supplying cutting water to the cutting blade;

cleaning fluid supplying means for supplying a cleaning fluid;

cleaning fluid jetting means for jetting to the cutting blade the cleaning fluid for removal of matter adhered to the cutting blade,

wherein the cleaning fluid includes a mixed fluid of a gas and a liquid, and

the cleaning fluid supplying means is provided at the central upper portion of the blade cover with the cleaning fluid jetting means formed at the lower end side of the cleaning fluid supplying means, the cleaning fluid supplying means is arranged obliquely to the cutting blade so as to allow the cleaning fluid jetting means to jet the cleaning fluid to the cutting blade in a direction opposite to a rotating direction of the cutting blade.

2. A method of cutting a workpiece by the cutting apparatus according to claim 1, the method comprising:

a holding step of holding the workpiece by holding means; and

a cutting step of cutting the workpiece held by the holding means by a cutting blade through rotating the cutting blade by a spindle while supplying cutting water to the cutting blade by cutting water supplying means, after the holding step is performed,

wherein during when the cutting step is carried out, a cleaning fluid is jetted to the cutting blade to remove foreign matter adhered to the cutting blade.