WHAT IS CLAIMED IS:

1. A water jet processing apparatus comprising:

a jetting unit detachably mounted with a jetting nozzle jetting pressurized liquid to a workpiece held on a chuck table for holding the workpiece thereon;

a moving unit causing the jetting nozzle to move relatively with respect to the chuck table; and

a nozzle determination section determining a diameter or an area of the jetting nozzle,

wherein the jetting unit has a pump pressurizing the liquid in response to a rotational speed of a motor, and

the nozzle determination section includes

a motor rotational speed storing section in which rotational speeds of the motor necessary to jet the liquid from a jetting port of the jetting nozzle at a predetermined pressure are stored by diameter or area of the jetting port of the jetting nozzle,

a nozzle type storing section in which the type of the jetting nozzle is stored for each diameter or area of the jetting port of the jetting nozzle,

a determination section referring to information stored in the motor rotational speed storing section and then determining, from the rotational speed of the motor

at the time of jetting the liquid at a predetermined pressure from the jetting nozzle, the diameter or the area of the jetting port of the jetting nozzle from which the liquid has been jetted, and after that, referring to information stored in the nozzle type storing section and then further determining the type of the nozzle from the diameter or area of the jetting port of the jetting nozzle which is determined from the rotational speed of the motor, and

a notification section notifying a type of jetting nozzle determined by the determination section. ~~providing a determination result of the determination section.~~

2. The water jet processing apparatus according to claim 1, further comprising:

a cutting unit cutting the workpiece held on the chuck table with a cutting blade.

~~wherein the nozzle determination section further includes a nozzle type storing section in which types of a plurality of jetting nozzles are stored by diameter or area of the jetting port of the jetting nozzle,~~

~~the determination section refers to information stored in the nozzle type storing section to further determine the type of jetting nozzle according to the~~

~~diameter or the area of the jetting port of the jetting nozzle determined from the rotational speed of the motor, and~~

~~the notification section provides the type of jetting nozzle determined by the determination section.~~

3. The water jet processing apparatus according to claim 1 and 2,

wherein the pump is a plunger pump, and

the rotational speed of the motor at the time of jetting the liquid at a predetermined pressure from the jetting nozzle is a rotational speed of the motor specified by a signal input to an inverter connected to the motor, or a rotational speed of the motor detected by an encoder connected to the motor.

~~further comprising:~~

~~a cutting unit cutting the workpiece held on the chuck table with a cutting blade.~~

~~4. The water jet processing apparatus according to claim 1,~~

~~wherein the pump is a plunger pump, and~~

~~the rotational speed of the motor at the time of jetting the liquid at a predetermined pressure from the jetting nozzle is a rotational speed of the motor specified by a signal input to an inverter connected to~~

~~the motor, or a rotational speed of the motor detected by an encoder connected to the motor.~~