What is claimed is:

1. A grinding mechanism comprising:

two tables configured to hold planar grinding objects, whereby each planar grinding object comprises a resin-sealed metal substrate;

two rough grinding units configured to perform rough grinding on the grinding object; and

at least one finishing grinding unit configured to perform finishing grinding on the grinding object;

a deburring unit that performs deburring on the grinding object;

two independent table moving units that are individually provided for each of the two tables, and that move the tables reciprocatingly and independently in a straight line within a predetermined range in one direction;

a pair of leg portions that are provided on two sides of the two tables;

a connecting beam portion that spans a gap between the pair of leg portions, the connecting beam portion running along a direction perpendicular to the one direction of straight line reciprocating movement of the two table moving units, wherein

the rough grinding units, the finishing grinding unit, and the deburring unit are supported on the connecting beam portion so as to be movable to both of the two tables in the direction perpendicular to the one direction of the straight line reciprocating movement of the two table moving units;

the two rough grinding units are provided on one side of the connecting beam portion: and

the finishing grinding unit and the deburring unit are provided on another side of the connected beam portion, which is a side opposite to the one side.

2. The grinding mechanism according to Claim 1, wherein each of the rough grinding units comprises a horizontal axis type of grinding unit having a grindstone for rough grinding, and

the finishing grinding unit is a vertical axis type of grinding unit having a grindstone for finishing grinding.

3. The grinding mechanism according to Claim 1, wherein either the rough grinding unit or the finishing grinding unit is a belt-grinding type of grinding unit that uses an endless belt type of grinding belt.

4. The grinding mechanism according to Claim 1, wherein the rough grinding units are configured to be able to be switched between a horizontal axis type of grinding unit having a grindstone for rough grinding, and a belt-grinding type of grinding unit that uses an endless belt type of grinding belt, and

the finishing grinding unit is configured to be able to be switched between a vertical axis type of grinding unit having a grindstone for finishing grinding, and a belt-grinding type of grinding unit that uses an endless belt type of grinding belt.

5. The grinding mechanism according to any one of Claim 1 to Claim 4, further comprising a belt-grinding unit that uses an endless belt type of grinding belt and that is separate from the rough grinding unit and the finishing grinding unit, and

the belt-grinding unit is configured so as to be able to move to each one of the plurality of tables.

6. A grinding apparatus comprising the grinding mechanism according to any one of Claim 1 to Claim 5.