

MACHINING APPARATUS AND METHOD OF MANUFACTURING MACHINED
ARTICLE

ABSTRACT OF THE DISCLOSURE

The present invention enables an object being machined that has been cut into
5 individual pieces to be mounted on an adhesive surface and stored, while eliminating the
need for any moving mechanism for moving a machining table, and includes cutting
tables 2A and 2B that hold a sealed substrate W, a first holding mechanism 3 that holds
the sealed substrate W in order for this sealed substrate W to be transported to the cutting
tables 2A and 2B, a cutting mechanism 4 that cuts the sealed substrate W held on the
10 cutting tables 2A and 2B into individual pieces, a transfer table 5 onto which are
transferred the products P that have been cut into individual pieces by the cutting
mechanism 4, a second holding mechanism 6 that holds the plurality of products P in
order for this plurality of products P to be transported from the cutting tables 2A and 2B
to the transfer table 5, a transport moving mechanism 7 that extends in a direction in
15 which the cutting tables 2A and 2B and the transfer table 5 are aligned, and has a
common transfer shaft 71 that is used to move both the first holding mechanism 3 and the
second holding mechanism 6, a machining moving mechanism 8 that moves the cutting
mechanism 4 within a horizontal plane both in an X-direction along the transfer shaft 71
and in a Y-direction that is orthogonal to the X-direction, a placement table 21 on which
20 is placed a mounting component 20 having an adhesive surface 20x on which are
mounted the plurality of products P, and a mounting transporting mechanism 22 that
transports the plurality of products P from the transfer table 5 to the mounting component
20 placed on the placement table 21.

FIG. 1