WORK/HEAD POSITIONING APPARATUS, FLUX RESERVOIR, MOUNT HEAD AND TRANSFER HEAD FOR BALL MOUNT APPARATUS

ABSTRACT OF THE DISCLOSURE

A work and head positioning apparatus, a flux reservoir (10), a mount head (25) and a transfer head (13) are disclosed for a ball mount apparatus. In the work and head positioning apparatus, a head driving mechanism drives a head (25) substantially in a linear direction, a first work driving mechanism (4) drives extending in a direction intersecting the drives at work, and a second work driving mechanism (4) drives the work in a rotational direction on the first work driving mechanism (4).

In a flux reservoir (10), a flat supply area (317') in a flux reserving space (314) is made substantially as large as a transfer area of a transfer head (13), and is made moveable up relatively to the flux reserving space (314) except for the flat supply area (317') whilst keeping substantial parallelism between the flux provided on the flat supply area (317') and the transfer area of the transfer head (13).

The work and head positioning apparatus has first optically recognition means (23) for recognising an alignment on the mark on the head, second optical recognition means (23) for recognising a position of the work and operation means for carrying out an operation for obtaining a quantity of a relative positional gap between the head and the work based on a recognising means.

Figure 1

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