

LASER BEAM PROCESSING MACHINEAbstract of the Disclosure

A laser beam processing machine comprising a chuck table for holding a workpiece, a laser beam application means for applying a laser beam to the workpiece held on the chuck table, a processing-feed means for moving the chuck table and the laser beam application means relative to each other in a processing-feed direction (X-axis direction), and an indexing-feed means for moving the chuck table and the laser beam application means relative to each other in an indexing-feed direction (Y-axis direction) perpendicular to the processing-feed direction (X-axis direction), wherein the laser beam application means comprises a laser oscillation means for oscillating a laser beam, a first acousto-optic deflection means for deflecting the optical axis of a laser beam oscillated by the laser beam oscillation means in the processing-feed direction (X-axis direction), and a second acousto-optic deflection means for deflecting the optical axis of a laser beam oscillated by the laser beam oscillation means in the indexing-feed direction (Y-axis direction).

Figure 1