

LASER PROCESSING APPARATUS

ABSTRACT OF THE DISCLOSURE

A laser beam applying unit of a laser processing apparatus includes a laser oscillator for emitting the laser beam, a spatial light phase modulator for adjusting the phase of the laser beam emitted from the laser oscillator, a beam condenser for converging the laser beam whose phase has been adjusted by the spatial light phase modulator and positioning a focused point of the laser beam within the workpiece, and a control unit for adjusting the spatial light phase modulator. The control unit has a storage section storing therein an adjustment pattern table including a plurality of adjustment patterns for adjusting the spatial light phase modulator according to which the spatial light phase modulator is to be adjusted depending on depths where the focused point of the laser beam is to be positioned within the workpiece.

[Fig. 3]