

ABSTRACTLASER MARKING SYSTEM AND LASER MARKING METHOD

A laser marking system and a laser marking method for setting an overall operational timing between a workpiece conveying apparatus and a marking apparatus to maximum efficiency. The present invention provides a laser making system, comprising a laser marking apparatus having a first deflector for scanning a laser light generated by a laser oscillator on a mask surface and a second deflector for radiating light transmitted therethrough onto a workpiece surface, and a workpiece conveying apparatus, wherein a conveying apparatus (14) having a feeder unit (16F), a feeder guide unit (16I) is disposed at a radiating position of the laser marking apparatus, the feeder guide unit (16I) being disposed upstream of the feeder unit (16F), the feeder escape unit (16E) being disposed downstream of the feeder unit (16F), an installation plate (18) for lifting the conveying apparatus up and down, a loader portion (38) for loading a workpiece (12), an unloader portion (40) for unloading the workpiece (12), a control portion (42) for totally controlling said conveying apparatus, said installation plate (14), said loader portion (38), and said unloader portion (40) through a communication line, a production management host computer (44) for transmitting and receiving signals to and from said control portion (42) so as to manage a marking process, and a marking data generating computer disposed in said laser marking apparatus. Thus, a large number of workpieces can be marked in a short time.

Figure 1