

ABSTRACT

A laser beam machining apparatus includes a laser oscillator (11), a machining head (21) which machines a workpiece using the laser beam. An optical duct (30) has an optical system to guide the laser beam from the laser oscillator (11) to the machining head (21).
5 Purge gas is supplied into the optical duct (30) from a purge gas supply port, and the purge gas is output from a purge gas exhaust port (36). A detector (50) detects presence of undesired gas in the optical duct (30).



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