Technical Newsletter

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Request for Periodic Inspection of SD Engine

Applicable model

DFL7300 series

Introduction

When a laser saw is delivered, a detailed inspection of the SD engine is conducted by a DISCO laser customer engineer. However, the SD engine's performance may change due to use over an extended time, and in some cases, there may be a negative impact on processing results. As an example, a problem has been reported whereby the workpiece edge was not irradiated by the laser and the workpiece was not separated after processing due to pulse formation being delayed.

If changes in laser properties such as pulse formation speed or inside the optical box are neglected, it could lead to unforeseen operation stoppages, so we recommend that you ask DISCO to perform a periodic inspection each year. In addition, we kindly request that customers who have not had an inspection performed even once since the machine was delivered contact us quickly.

Periodic SD engine inspection:

The inspection items are the same as at the time of the machine buy off inspection.

- The inspection details vary based on the specification and the SD engine type.
  For details, please ask a DISCO sales representative or laser customer engineer.

Periodic SD engine inspection items (example)
Optical axis inspection
Processing laser property inspection
Measurement laser property and operation inspection
Criteria cut
Laser head property inspection

- The time required to perform the periodic inspection is around 2 days.

- We recommend that you specify periodic SD engine inspections on the maintenance scheduler screen.

Performing SD engine periodic inspection

Periodic SD engine inspection is an operation performed by a DISCO laser customer engineer.
Since risks occur based on a Class 4 laser as stipulated by the JIS, IEC, and FDA/CDRH, the operation is performed after installing a light-proof partition.

Inquiries

Please contact your local DISCO sales representative or laser customer engineer if you have any questions regarding this matter.