



PRODUCTIVITY GAIN FOR LASERDYNE 450 / P50L – Customer name deleted

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To: Barry, Mark; VanderWert, Terry

Subject: Productivity Gain from (2) LD450-P50 Workstations

After the final process development and acceptance of the recent (2) system order for the following increases and overall product quality and productivity have been shared with us from the customer.

First, the application as it runs on their older systems takes 6 hours to process one part. has 16 system processing these parts and operate the laser department 24/7. In recent years has stopped supplying other fiberglass manufacturers with spinners in an effort to keep up with their own production needs. The (2) LD450-P50 workstations process these parts in just under 2 hours marking a 3X productivity increase. LASERDYNE features such as AFC, PosiPulse, and Mapping are utilized in the process to achieve such a dramatic increase in throughput. Additionally the P50L laser is running at 20Hz at 8 joules, or around 75% of its rated capacity. The systems are producing a perfectly parallel hole at 0.012" diameter at a rate of 6.6 holes per second.

The second and more dramatic increase is in the reduced scrap rate that they have achieved. With the current 16 systems they average a scrap rate of 2 parts per 8 hour shift. Scrap is usually attributable to the lack of technological advances in the older systems. Many times the part has completed the 6 hour cycle before it is determined that it is scrap. They produce 21 parts per shift with an overall average of 2 scrap parts. That is roughly 10% scrap.

is the team leader responsible for the laser drilling department at . He tells me that when these (2) new system go on line, and perform as they have at acceptance, are already planning to decommission 6 of the older systems and purchase (2) additional LD450's next year. Ultimately (6) LD450-P50 workstations will replace and out perform all 16 if the older lasers.

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