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PRESS RELEASE

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Pictures available on request.

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Lambda Achieves 5x Throughput in Steel Application

Improving Production Efficiency with Optimized Peening

Cincinnati, OH – Lambda Technologies has shown that they can increase fatigue life and improve shot peening production throughput by a factor of five on high strength steel components. By employing Lambda's patented Optimized Peening service, optimal fatigue results were achieved at approximately 1/5 of the coverage originally called for in the shot peening specification. This means that parts can be processed in about 1/5 of the time, leading to more parts processed, better profit margins and a more efficient shop floor.

Research at Lambda Technologies into the thermal and mechanical stability of peened surfaces led to the development of the optimized peening technology nearly 15 years ago, and the company has been perfecting the method since. Lambda found that the coverage required to achieve a depth and magnitude of compression could be far lower than that typically used in production peening. For example, in some alloys, coverage as low as 20% can produce the same depth and magnitude of compression as 100% or greater coverage. Optimizing coverage limits the occurrence of repeated impacts, improving thermal stability, reducing surface damage and media consumption, and yielding up to 5x improvement in production rates.

Lambda's Shot Peening Optimization Protocol is applied directly to parts shot peened in the client's production equipment, so the benefits are immediately realized. Peening parameters are efficiently developed to minimize peening time, media consumption and processing cost while achieving optimum part performance, appropriate to the intended application. Beneficial residual compression, cold work, finish, phase transformations, fatigue and even corrosion performance are verified in Lambda's ISO accredited surface integrity laboratories. "We are thrilled to be able to offer this service to the rest of the world," says John Cassidy, Project Quality Engineer for Lambda. "There's vast potential for improvement of efficiency and quality in production shops and I'm glad we can be a part of it."

Lambda Technologies is an innovative company incorporating a premier materials research laboratory with a world-class engineering and production enterprise dedicated to the development and optimization of surface treatments to improve component performance. For additional information on Lambda Technologies or Shot Peening Optimization, contact Julie Prevéy at (513) 561-0883 or visit www.lambdatechs.com.