



Norman Noble Launches Enhanced Laser Welding Capabilities *Innovative Welding Process Ensures Superior Quality in Next-gen Medical Implants*

HIGHLAND HEIGHTS, OHIO – December 20, 2024 – Norman Noble, Inc., a global leader in the contract manufacturing of next-generation medical implants and devices, is pleased to announce significant advancements in its laser welding capabilities, designed to meet the stringent demands of high-precision medical device manufacturing. Norman Noble's laser welding processes utilize state-of-the-art fiber laser systems that provide exceptional power and positioning repeatability, resulting in precisely placed and repeatable welds.

The laser welding technology at Norman Noble allows for superior joint integrity, even in the most complex geometries, by employing optimized parameters for weld penetration, weld width, and weld positioning. These parameters are carefully developed and tested to satisfy customer tensile and fatigue requirements in the welding of thin-walled or miniature components, minimizing the potential for visual anomalies within the weld.

“Norman Noble’s laser welding systems are engineered to deliver repeatable, high-quality welds that meet the rigorous standards of the medical device and implant industry,” said Jeff Miller, Laser Process Development Manager at Norman Noble. “Our team has developed unique processes to weld a variety of materials in complex applications, including welding nitinol to nitinol on orthopedic implants and welding platinum markers into stent-like devices.”

Norman Noble’s commitment to continuous improvement is evident in its ongoing investment in laser welding technology, including the development of custom fixturing solutions that ensure optimal alignment and repeatability during the welding process. These advancements have solidified Norman Noble’s reputation as a leading partner for OEMs requiring the highest-level quality components in the medical sector.

About Norman Noble, Inc.

Established over 75 years ago, Norman Noble, Inc. remains a family-owned and -operated company offering the most advanced processes for ultra-precision micromachining of medical implants. The company is known for its exceptional ability to produce nitinol-based implants and to achieve sub-miniature precision beyond the reach of most manufacturers. Norman Noble, Inc. is a supplier to most of the largest OEMs and well-known names in the medical device industry.

Norman Noble manufactures medical devices and implants to customer specifications in compliance with FDA regulations and ISO 13485. State-of-the-art processes include athermal laser machining, laser welding, Swiss turning and milling, conventional and wire EDM, high-speed 7-axis contour milling, electropolishing, nitinol shape setting, and clean room assembly and packaging. Rapid development prototyping services are available in separate and fully dedicated process development centers. FDA Registration #1531050. Virtual tour and more information: www.nnoble.com.

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