Machine Specialty & Manufacturing Delivers In-House Hydrostatic Testing to Accelerate Lead Times and Assure Quality

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Machine Specialty & Manufacturing (MSM), based in Broussard, Louisiana, has reinforced its longstanding commitment to quality and efficiency by offering comprehensive in-house hydrostatic testing. As a recognized leader in machining and fabrication for the oil and gas industry, MSM?s investment in internal testing capabilities represents a strategic move to enhance quality assurance, reduce project lead times, and meet the rigorous demands of critical applications.

Hydrostatic testing by Machine Specialty and Manufacturing serves as a critical checkpoint in ensuring the structural integrity and pressure tolerance of key components used in high-stakes environments. The process involves filling equipment with water and applying pressure well above operational limits to detect any potential weaknesses or leaks, thereby guaranteeing reliability before deployment in the field.

MSM's ability to perform hydrostatic testing internally means that every fabricated flange, valve, or pressure-bearing component can be validated on-site without the need to rely on third-party service providers. This not only speeds up production but also allows MSM to maintain strict control over the testing process, delivering results with a level of precision and speed that external labs often cannot match.

The company?s testing bays are designed to support a wide range of product sizes and configurations, ensuring versatility across client projects. By executing hydrostatic testing in-house, MSM is able to uphold compliance with American Petroleum Institute (API) and ASME B16 standards, both of which are critical benchmarks in the fabrication and energy sectors.

According to Max Hutson, Vice President of Operations at Machine Specialty & Manufacturing, ?We?ve integrated hydrostatic testing into our operations to support our clients' need for absolute confidence in the

components we deliver. Whether it's a standard weld or a custom-machined flange for high-pressure service, our in-house testing ensures it?s ready for the field from the moment it leaves our facility.?

The decision to internalize hydrostatic testing operations reflects MSM?s ongoing mission to streamline project workflows and improve turnaround times. By eliminating outsourcing delays, the company not only reduces production bottlenecks but also ensures tighter alignment with client timelines and specifications.

In today?s oil and gas landscape, where uptime is essential and safety cannot be compromised, MSM?s internal testing capability provides a tangible advantage. Clients receive fully vetted components that meet or exceed industry standards, reducing the risk of system failure, unplanned maintenance, or environmental exposure.

The benefits of in-house hydrostatic testing extend beyond compliance. It provides MSM with valuable data to support continuous improvement in welding practices, fabrication techniques, and material selection. Every test performed is an opportunity to refine internal processes and ensure long-term durability in the field.

Clients working with MSM can expect detailed documentation and test reports as part of their final deliverables. These records are critical for audits, regulatory reviews, and end-user peace of mind, particularly when equipment is used in harsh or remote environments.

MSM?s internal testing processes also align with evolving industry expectations around quality assurance and traceability. As operators and engineers demand greater visibility into the fabrication process, hydrostatic testing by Machine Specialty and Manufacturing adds a vital layer of transparency and accountability.

The company continues to invest in talent and technology to enhance its testing capabilities. This includes ongoing training for technicians, updates to pressure testing equipment, and alignment with international best practices in pressure verification and safety protocols.

Machine Specialty & Manufacturing has long been recognized for its precision machining and customer-focused service. The addition of in-house hydrostatic testing further strengthens its reputation as a one-stop partner for turnkey solutions in the energy and industrial sectors.

As the energy industry evolves, MSM remains committed to advancing its capabilities in line with client needs and regulatory changes. Its ability to offer reliable, high-integrity components backed by robust in-house testing makes it a preferred partner for projects where performance and reliability are non-negotiable.

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Machine Specialty & Manufacturing, Inc.

Machine Specialty & Manufacturing Inc manufactures API flanges, weldments, fittings and specialty products that meet industry standards and significantly improve the time and cost of installing, operating and maintaining your system.

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