LYMAN-MORSE
BOATBUILDING

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Project Update: Anna, 65' Cold Molded Spirit of Tradition Sailing Yacht

Thomaston, Maine: The construction of Lyman-Morse's newest sailboat, designed by Stephens Waring Yacht Design, is well under way and coming together quite beautifully. Anna will be the perfect combination of a modern but classic sloop, perfect for both day sailing and racing. Lyman-Morse's crew has finished planking the first three layers of the cold-molded hull. The deck structure has recently been completed. The composite cockpit has been positioned on the deck and hatch cut outs and deckhouse footprint have been carefully drawn to allow patterning of the teak deck. The deckhouse is well underway with foam cored cabin top, laminated beams and white v-groove overhead. Wire conduits and provisions for hardware mounting were included in the CNC cut kit. An integral carbon fiber beam replaces the core above the companionway and will be bonded to an internal framework which transfers the mainsheet loads from the cabin top all the way down to the hull frames.

The interior designed by Stephens Waring Yacht Design in collaboration with Martha Coolidge Design will be built on the shop floor in two primary modules. The port side module will include the aft crew cabin, guest cabin and guest head. The starboard module will include the galley, master shower and head. The master cabin bed and cabinets will be constructed as several smaller modules. This modular build method allows Lyman-Morse the benefit of building and finishing the interior on the shop floor while the hull construction is in process.

SWYD delivered a well-developed 3D model to our LM systems team who in turn work out the final build details for production. This fine-tuning step sets the process at LM apart from the typical boat yard approach. Solidworks parametric modeling and PDM (product data management) allow LM to create models and build shop drawings that simultaneously interact with all elements of the vessel (structural, mechanical, electrical and joinery) in a single comprehensive model. Several designers can work on the same component in real time ironing out details on the desktop rather than on the shop floor, this is the name of the game. This method was utilized to produce CNC cut components including deck and deckhouse core packages, bulkheads, molds for composite parts, casting patterns for struts, and full size loftings for structural wood members all fitting together as perfectly as a Stave puzzle. The cambered transom formed with 10 layers of marine plywood was CNC shaped to receive the compound roll of the hull planking and a precision pocket to accept the titanium back stay fitting. The stem was laminated and shaped in a similar fashion with a recess for the titanium headstay. The resulting accuracy of both chainplate pin centers is within 1/16 of an inch over the 65 length of the vessel.

Time-consuming manual placement of critical components is a thing of the past along with shop floor adjustment that would have been common throughout the build process. Now our crew can focus and apply their art and skill at a higher level.

Other pieces of the project being worked out on the CNC include the teak curved deckhouse railing and interior moldings. Utilizing the CNC machine to produce these trim items ensures accuracy and time efficient production.

Our latest tool, a 3D printer is producing samples of details like custom designed switch covers, fairleads and moldings. We can present actual samples to the owner, taking the guesswork out of decision making. All these steps, processes and tools produce a better end product for the owner.

The hull is on track to be complete in March 2017 at which time it will be rolled over ready for the interior modules and systems can be installed. Anna is due to launch early spring 2018.

Click here: For more information, photos and video

Specifications

LOA: 65 ft. – 6 in. (20 m)
LWL: 47 ft. - 10 in. (14.6 m)
Beam: 16 ft. - 10 in. (5.1 m)
Draft: 7 ft. - 6 in. (2.3 m)
Displacement: 57,000 lbs. 25,850 kg
Sail Area: 2040 sq. ft. (190 sq. m)

Drawing on Thomaston, Maine's 200-year tradition of shipbuilding and fine craftsmanship, Lyman-Morse is one of the world's finest custom and semi-custom builder of and service provider for sailing and motor yachts. A family run, father and son business, Lyman-Morse specializes in composites, advanced composites and aluminum construction. Discriminating owners, world-class naval architects and designers all come to Lyman-Morse knowing that they are expert in any medium and are able to deliver dreams on time and on budget. Since the yard's founding in 1978, more than 100 yachts have been sent down the St. George River ranging in scope from carbon fiber catamarans and traditional sailing sloops to not-so traditional carbon racing monohulls, stately motor yachts and sportfish powerboats to sporty jet boats and daysailers.

Lyman-Morse's broad-ranging capabilities are showcased not only by workmanship of the 90 plus-skilled workforce, but also by modern, energy efficient and expansive facilities. The 11-acre Thomaston campus features 7 heated work buildings with 55,000 square feet of space for refit and repair/and boatbuilding. Servicing fine yachts is a natural outgrowth of boatbuilding. Repairs, rebuilds and servicing ship systems, along with upgrading gear and seasonal maintenance are handled by the service division of the company. In Camden, Lyman-Morse at Wayfarer Marine gives the company an increased visibility and the opportunity to return the Camden yard to its former glory as New England's go-to service yard. The LM Service team of experienced bluewater sailors and builders understand what proper maintenance is

all about and is the reason experienced, and demanding yachtsmen deliver their yachts to Lyman-Morse.

The combination of state-of-the-art facilities with some of the world's finest craftsmen has allowed Lyman-Morse to expand into areas outside the marine world. In Rockland, Lyman-Morse Fabrication is fast becoming the source for custom-made metal fabrication projects in New England. LM Fabrication provides custom design, engineering and fabrication for projects of virtually any scale. This division mirrors the boatbuilding and service divisions in that it specializes in complex, difficult commercial, municipal and residential design projects regardless of job size, installation challenges or scope of work. Lyman-Morse Technologies is the research, development and prototyping division of the company. LMT works with architects, interior designers, business and home owners and government agencies including the Department of Defense to meet the most interesting needs. LMT fuses state-of-the-art electrical design with nuanced manufacturing approaches in an effort to bring diversified, innovative product solutions to the renewable energy market, private and public sectors.

For more information about Lyman-Morse go to: www.lymanmorse.com call: 207-354-6904 or email: info@lymanmorse.com