

Carbonics 35

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PowerFurl 215

Never one to sit back, GMT is always looking for ways to improve and innovate – introducing the new GMT PowerFurl 215 carbon boom. The PowerFurl 215 boom premiered on

an Alerion 41 launched in December. The Alerion is a classic hull with sleek lines and a low freeboard, and the PowerFurl 215 fits right in with it.



The PowerFurl 215 takes the same mechanical advantages offered in the larger PowerFurl 360 which allows for furling at virtually any angle to the wind. It accepts sail foot lengths up to 21.5'. The newly designed furling boom has a sleeker, more curved cross section, and a 20% increase in stiffness and internal volume.

The new boom launched with great success; a second PF215 order was placed for the next Alerion 41, and most recently a classic Hinckley SW43 will also get the new GMT PowerFurl 215 boom just in time for summer.

The PowerFurl 215 show on the Classic Alerion 41

Baltic 116 SeaStairs: A New Step

No pun intended, GMT has taken a new step forward in our SeaStair Design. The captain of this 116' beauty had trouble finding a boarding system that met both his technical requirements and matched the exotic looks of the design. Project manager, Nigel Ingram of Marine Construction Management in Newport RI, suggested the captain speak to GMT Composites. GMT and MCM had recently completed a successful project for Royal Huisman, and Nigel knew GMT could meet the most demanding custom needs.

This project was to be different though, as the captain of the vessel wanted a single solid side rail – a new design for GMT. GMT developed an elegant design where the entire adjustment mechanism is hidden within the side rail itself.



TECHNOLOGY: Alvin Passes!

Alvin, the nation's only human-occupied deep-sea research vehicle, just underwent a dramatic \$42-million overhaul to upgrade the sub's capabilities. New ballast tanks from GMT help allow the sub to dive deeper and for longer periods. Scientists just gave the overhaul two thumbs up after successfully completing scientific sea trials.



Atlantis crew members Patrick Neumann and Allison Heater assist in the recovery of Alvin following a test mission.

(Photo by Chris Linder, Woods Hole Oceanographic Institution)

SOLUTIONS: Battery Box?

We can't say who it is for, nor exactly what it does, but it is a good example of GMT's diverse abilities for a repeat customer. Satisfied with previous projects this customer came to GMT with a special request to build a large quantity of "battery boxes". The project is detailed, includes titanium, and quality must be 100%. This contract shows our willingness to work with customers and our commitment to quality.

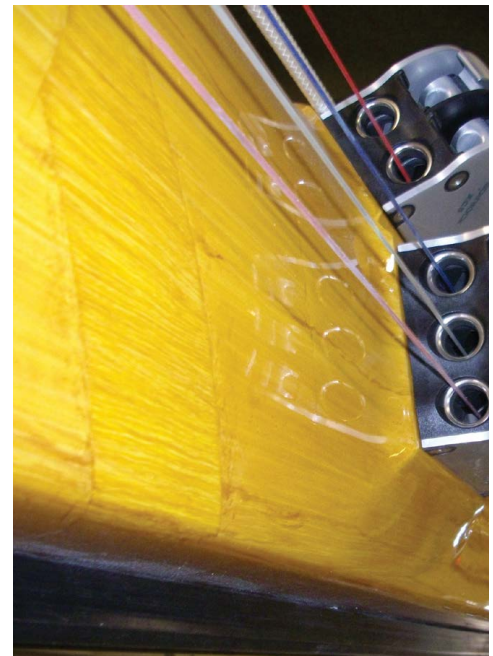


Cape George:

Faux Bois

The Cape George 45 project is well underway, and we are getting ready to ship her rig to the builder in Port Townsend, WA. This project is a bit of a juxtaposition. On one hand, the Cape George 45 is a beautiful hull with classic lines. On the other hand, she has a cutting edge hybrid-electric propulsion system, weight minimizing interior, and a carbon rig.

Perhaps no part of the project embodies the two elements of beauty and technology more than her hand painted faux bois GMT carbon rig. The mast, boom, and spinnaker pole all receive this treatment. As you can see, the results are stunning. We were able to provide a mast that weighs ½ the weight of its aluminum counterpart, is twice as strong, yet has the beauty of spruce. Even those that have seen this rig close-up in our shop have asked if it is a veneer of actual wood over the carbon.



8 Bells: Niels Helleberg

We were saddened to hear of the passing of our friend and colleague, Niels Helleberg. Niels passed away peacefully at the age of 74 on February 21, 2014.



Alden Design's "Lion's Whelp"
by Niels 1981/2002

Niels was an amazing resource for all things relating to Alden Designs where he started in 1971. His designs ranged from 15' to 169'. When GMT developed our PowerFurl boom in 2008, we retained Niels for his design aesthetic. Most recently, we worked with Niels on a rudder refit for an Alden 74 this past fall. Always a friendly voice and hugely knowledgeable, he will be missed. His full obituary published in The Boston Globe on Feb. 23, 2014:

<http://tinyurl.com/okcm5qf>





Hanse 575 – Full Carbon

With adversity, comes opportunity. Those words rang true for the owner of a new Hanse 575 with a damaged rig. He looked at the repair costs, and realized he could apply those dollars to a new carbon rig. The opportunity to reduce significant weight aloft using a GMT carbon mast with Navtec rod rigging, and the added convenience of a GMT Pocket Boom, proved too attractive for him to pass up.

GMT designed the rig to drop into the boat with no modifications. The GMT Pocket Boom is what's known as a "Park Avenue" boom. It is open faced with enough interior volume to hold a flaked sail in storage. It offers an excellent combination of easy reefing and sail storage in an aesthetic package.

Freedom Marine, the British Columbia Hanse dealer, displayed the 575 with the GMT rig at the Vancouver Boat Show in January. Brian Huse, Freedom Marine partner and closely involved with the refit, commented, "It's great to have the quality and performance of the GMT rig on the 575, and it's especially nice when a company delivers on time when you are up against a boat show schedule." A damaged rig is enough

to knock the wind out of any sailor, but sometimes it is an opportunity to bounce back with a boat rigged up better than ever.



Ships Away!

Spring has sprung, and we are shipping out the winter projects at a fast pace. Pictured here is the large PowerFurl carbon boom heading to Florida to be rigged up on the new Leopard 58 catamaran that was on display at the Miami Boat Show. With the gooseneck 20' off the water, it is a great application for our furling boom. Brad Storm of Storm Rigging will be managing the installation on site, and Peter Grimm at Doyle Sails Florida East will be making the new mainsail to fit.

It is a big item, and we regularly get asked if a boat needs to be brought to RI for refit. We ship our product all over the world. Sometimes a boom gets a flat bed of its own for the journey down. When it's made of carbon, you don't just throw it in with general freight. We did have to check for stow-aways on this shipment though, given our "spring" weather lately.



S/Y Zing 3 – Hauls the mail:



Vimeo out takes



26.6 knts in 17-19 knts of wind – not bad for a 55' monohull! Langan Design's high performance yacht was launched in Brazil, and her owner is all smiles. If you go to the link or scan the QR code, you can see her in action. A big thanks to Alexinho on Vimeo for posting his video of the ride. Zing is flying and it looks like all the design efforts from Langan Design Partners have paid off in spades. Her curved

daggerboards, canting keel, trim & ballast tanks, combined with her low weight aloft with the GMT carbon mast, boom, & the EC6 carbon rigging make for a wicked sled.

<http://tinyurl.com/klpyb95>

Follow the link to view the video at VIMEO



In The Press

We had a nice surprise when we received the Dec/Jan issue of Professional Boatbuilder magazine with our hand painted carbon mast on their cover. Dan Spurr, Editor-at-large, had visited GMT earlier in the year to see the carbon mast refit we were doing for the 100' schooner, Summerwind. As with all their articles, Dan dug into the technical aspect of this complicated refit, including how you go about spec'ing carbon masts to replace wood masts that were originally designed in 1929. Dan takes us

thru the entire process from raw pre-preg to the beautifully hand painted faux bois finish, and covers how you go about saving over 3,000 lbs aloft on an eighty year old schooner.



View from the Leopard 58 at Miami Boat Show

Out-n-About

On the road, GMT was at the Miami International Boat Show in February. It is a huge show and covers everything from SUP to Superyachts, with a solid presence on the sail side. From there, it was on to the Maine Boat Builders show in March which is always a great show and a sure sign of spring. Brooklin Boatyard was showing one of their beautiful Eggmoggin 47's - all of which sport GMT masts, and just a plethora of craftsmanship on display.



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