

***** FOR IMMEDIATE RELEASE *****



September 29, 2019, New Smyrna Beach, FL; The IBEX Show, October 1-3 in Tampa was chosen as the backdrop for a new and exciting product from **PORTA PERFORMANCE**, a division of [Porta Products Corporation](#). At **Booth 1-1017** leaders and innovators from hull design, hydrodynamics, aerodynamics, reverse engineering, quality measurement and quality control will be available to discuss the latest in advanced boat design and manufacturing.

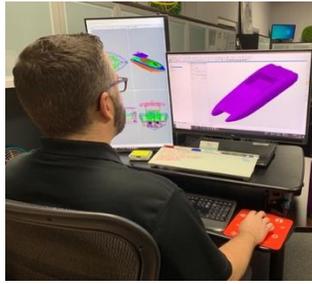
Now, over a year in the process, 3D Laser Scanning and Aerodynamics for the marine industry have come of age. A proof of concept/case study created a 3D Scan and CAD files of race boat designs to provide the marine industry's most advanced design both hydrodynamically and aerodynamically.



PORTA PERFORMANCE, Scott Porta



Scott Porta of [Porta Products Corporation](#) undertook to resolve the “unsolvable problem” which comes from offshore racing. What happens at 100+ MPH when a catamaran converts from a boat to an airplane without wings? Porta stated, “Here’s the dynamic, the engines are supported by a plane of hard water coming from the hull on the bottom of the gear cases ... only until the boat launches and flies. At that point, the engines become a thousand pounds of dead weight, the center of gravity shifts, the bow elevates, and the rest is history and the race goes on.”



Jason Self and Bill Bonner (respectively) of Dimensional Engineering



Bill Bonner of [Dimensional Engineering](#) said about racing, “Motorsports have used 3D Scanning technology for decades now to improve aerodynamic packages that augment wind tunnel testing. The results can be correlated with live racetrack results. Factory race teams like Porsche, BMW, Lotus, Cadillac, and Ferrari have witnessed the success of applying the 3D Scanning and CFD aerodynamic technology to their success.” The Marine Industry is in its infant of adopting this technology. With our partnership with **Porta Performance**, we bridge-the-gap between the old school methodologies, and new school technologies.”

After 3D scanning, the case study/proof of concept moved to file assembly then computational fluid dynamics (CFD) for the creation of new aerodynamic design. Upon completion, the intent of the project is to build a full sized, race ready version of the new cat design. This boat is slated to compete for a World Championship in the OPA (Offshore Powerboat Association) series in 2020.



OPA's Ed (Smitty) Smith



Ed Smith, OPA CEO/Principal, says, “In the automotive industry all new cars are tested on the track before production. For us, OPA is proud to be slated as the primary real time test tool for this new technology. With our variety of wind, water and weather conditions, we are the logical choice. We see this as a new marine design solving old school problems.”

The end result: Employ tried and proven automobile high technology to produce vessel designs with both hydrodynamic and aerodynamic integrated technology.

About Porta Products:

Porta Products Corporation was founded in 1980 by Scott Porta. The Company has grown into a diversified facility housing several established marine manufacturers and providing "incubator" services to companies just getting started. Porta's primary product is the unique [Porta Hydraulic Transom Bracket](#), a one of a kind product in terms of vertical travel and number of motors accommodated. Porta Performance, a division of Porta Products Corporation, was created to design high tech methods to improve the marine industry.

About Dimensional Engineering:

Bill Bonner, President and CEO of Dimensional Engineering, Inc., has been a part of the 3D laser scanning world from its infant stages. He has assisted multitudes of major industries in reverse engineering, quality inspection or digital documentation. Bill is continuously impacting major manufacturers with high definition, precision optical/laser scan data. Bill has assisted Race Teams like Mercedes/AMG GT1, Team Rosberg, Corvette Racing, Porsche and BMW.

About Offshore Powerboat Association:

The original New Jersey Offshore Powerboat Racing Association has been the host club since racing started in Point Pleasant Beach some 37 years ago. NJ Offshore (NJOPRA) is still a very active club with over 100 members and has kept the tradition of Offshore Racing alive in Point Pleasant Beach for all those years. The Offshore Powerboat Association is nationally hosting the most aggressive brand resurgence ever in offshore racing. Over 100 teams from 21 states race in the series.

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