Yanmar brings common-rail injection to sub-110hp marine diesels

Yanmar's new JH-CR series engines have set a new benchmark in small marine diesel propulsion technology by bringing the benefits of common-rail fuel injection technology to units of below 110mhp. Boat owners can now choose digitally-controlled common-rail engines from the Yanmar range with power outputs starting as low as 45mhp. The company is launching the new engines at Boot Düsseldorf 2015, with immediate availability through its worldwide distributor network.

"Ever since the early 2000s diesel engine manufacturers have been using common-rail fuel injection to meet ever-tighter emissions regulations," says Floris Lettinga, Yanmar's Marine Sales Department Manager.

"These high-pressure systems deliver highly atomised fuel to injectors, which are usually electronically managed, via a single pipe to give improved performance and better fuel economy with reduced emissions and smoother, quieter running, but until now have been available only with engines of more than 110mhp. But Yanmar is now offering all of these benefits with a range of four all-new diesels with power ratings of 45, 57, 80 as well as 110mhp.

"These small, compact and lightweight four-cylinder units fall within the requirements of the USA's EPA Tier 3 and the similar EU RCD2 (2016) emissions regulations, which apply mainly to diesels upwards of 100mhp. In addition to being cleaner and more efficient than their mechanically controlled forerunners, the 'plug-and-play' JH-CR 2.19 and 2-litre engines have also been designed for easier boatyard installation. Fitted with a signal converter that operates with NMEA2000 protocol, they can be directly connected to the integrated electronic instrument system of all the leading manufacturers to provide full engine data on multi-function displays. Also a special feature of the JH-RC engine series is that they offer a secondary alternator option, with a choice of 12Volts at 125 Amps and 24 Volts at 60 Amps. Transmission options include mechanical and hydraulic gearboxes and saildrives.

"The new engines are an ideal fit for both small planing craft, such as RIBs, tenders and day cruisers as well as larger displacement powerboats and sailing cruisers up to around 60ft," Floris Lettinga says. "With their high power density, greater efficiency and easy installation they are also a highly attractive proposition for repowering," he adds. Yanmar is showing the new engines on stand G57.

About Yanmar
Yanmar has a global workforce of over 15,000 and a sales network operating in more than 130 countries. Yanmar designs and manufactures diesel engines, accessories and customised equipment for a wide range of applications in pleasure craft and commercial marine vessels, for industrial use, agricultural machinery, construction equipment and cogeneration power systems. The company has pioneered clean emissions technology and sustainable energy systems. In Europe, Yanmar employs around 600 people and generates annual sales of approximately Euro 800 million.