**Yanmar new engines & Joystick at Boot Dusseldorf**

January 6, 2014

Yanmar is proud to present boaters & industry professionals new innovative engines and advanced technical features at BOOT Düsseldorf in Germany, the largest water sports exhibition in the world, from 18 until 26 January 2014.

Yanmar's technical front runner is the completely new developed common rail JH-CR four-cylinder diesel engine, that comes in production in the summer of 2014. The new compact 'mid-range' is available in 45, 57, 80 and 110hp, fitting perfectly with a range of boats: larger sailing yachts, motor cruisers, fast rib's and tender boats.

Direct fuel injection results in less diesel consumption. Noise reduction is another focus where Yanmar engineers have been successful. Although the engine is very compact, it is easy accessible for service. Traditional push/pull operation is offered on each engine as a standard. Electronic engine control extendable with multifunctional displays is available as an option. The standard engine provides ample electric power of 125A/12V. A secondary alternator, 12V or 24V is optional. The engine is compliant with EPA Tier 3 and EU RCD 2 (2016) emission regulations.

Sailors love the sound of the wind. To get them a quiet and powerful ride when switching on the engine, Yanmar has specially designed a diesel engine of 160 hp. Result? Cruising with 1800-2000 rpm at amazing low noise levels! Furthermore the new 6BY3-160 complies with the latest stringent global emission regulations, like EPA Tier 3. Aimed at larger sailing yachts and displacement motor yachts, the engine has besides a 12V/150A alternator, an optional second alternator 24V/90A.

Do you like to experience ultra-smooth manoeuvring with your motor yacht? Yanmar developed a sophisticated and unique steering system using two stern drives, connected with two Yanmar eight-cylinder 8LV320, -350 or -370 hp diesel engines. No need for a bow thruster anymore. Steering and manoeuvring a motor yacht is reduced to a gentle touch with your fingers. Highly adaptive software chooses the best position of the stern drives, resulting in advanced logic steering. Important to know is that the clutches work with hydraulic shift, which insures a low noise and shock free operation. Marine Professionals claim the Yanmar system to be the best Sterndrive Joystick system available on the market today!

Last November the new engines and joystick were introduced to professionals in leisure boat building at the Marine Equipment Trade Show in Amsterdam. Floris Lettinga, Marine Sales Department Manager at Yanmar Europe BV: "This trade show was a unique platform to show
experts from all over the world that Yanmar is always working on technical development and is ready to meet the latest environmental regulations. The joystick steering system received enthusiast reactions: high tech innovation that can be implemented on existing modern engines. BOOT Düsseldorf is a great opportunity to show our new products to boaters."

**Yanmar is at BOOT Düsseldorf in Hall10 / 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.

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