

Q-SPD



ADVANCING MARINE PROPULSION

Q-SPD

The Q-SPD Advantage

Q-SPD's design team have developed The Q-SPD Advantage. They did this by taking the premium attributes of traditional surface drive systems and brought them together with exclusive and precise Q-SPD innovation. The Q-SPD Advantage was born.

Q-SPD Advantage is a solution that capitalises on the best of surface drive technology and the best of Q-SPD innovation.

"Q-SPD is a high performance alternative AND it offers all the classic benefits of conventional propulsion. The vessel is usable right through the speed range, not just at high speed. It is able to cruise easily and efficiently and pass through displacement to planning transition effortlessly with no stress on the engine, boat and crew. It tracks the boat well and steers well at all speeds, and it has superior manoeuvrability – THIS IS THE Q-SPD ADVANTAGE"
Head Design Engineer
Q-SPD International.

It actually works – it's not just a dream. It's real. You drive the boat just like a conventional propeller driven boat and it will respond the same AND it will go faster, accelerate quicker, and manoeuvre easier.

The Q-SPD Advantage includes a complete drive package, including, steering, integrated thrust bearings and intermediate drive shafts.

The Q-SPD Advantage boasts an extensive model range. It can be applied to vessels with power ranges from 200hp to 3000hp.

The Q-SPD Advantage - not only is it functional and innovative, it looks great too! The visual impact of its sleek design always impresses!



"The great advantages of Q-SPD are that your cruising is more smooth. Reduced drag and less weight means she runs faster and has minimum draught. No hydraulic system to maintain and less to go wrong. Q-SPD makes the yacht a lot safer and gives superior handling compared to rudderless drives and conventional shaft-and-prop installations"
ref: ROYAL DENSHIP

Construction is Lightweight & Robust

Q-SPD construction is composite, so they are exceptionally lightweight, as much as 50% lighter than other brands. The main housings are moulded from carbon-fibre and e-glass in an epoxy matrix using advanced infusion techniques. This produces extremely strong and tensile housings that will not corrode and are not susceptible to electrolysis.

Lowest Maintenance

The Q-SPD Advantage requires virtually no maintenance! No hydraulic lines or critical moving parts outside the vessel therefore they cannot be harmed by being submerged in sea water. Also, water lubricated shaft bearings and self-lubricating rudder bearings offer a long-life maintenance free operation.

Compact Design

Q-SPD's compact design and the use of flanking rudders rather than trailing rudders, ensures that the planing surface and water line length is maximised. This also means that long swim platforms are not needed to cover the drives.

Smooth and Quiet

By integrating the Q-SPD propeller and drive system with soft mounted thrust bearings, associated noise and vibration is isolated. Intermediate shafts with constant velocity joints take up alignment differences to transfer power with no losses and further ensuring smooth and quiet operation.

Superior Handling & Performance

Q-SPD Advantage utilises the engines exhaust gasses and passive ventilation to produce fast acceleration and efficient low speed operation. Q-SPD's unique propeller design not only offers maximum speed but also ensures effective reverse, plus predictable and precise manoeuvrability.

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SD Series

The Q-SPD SD series is now the most popular of all Q-SPD drive models. It began life as the ideal alternative to stern drives offering a virtually maintenance free solution. Today, the Q-SPD SD Series remains the most maintenance free solution on the market and is now also available in a range of models that can absorb up to 2000hp.*

As with all Q-SPD models, the SD Series is constructed using high-tech materials and processes to produce lightweight yet structurally strong and tensile components.

Q-SPD's advanced propeller design, a unique ventilation system, integral thrust bearing and the evolution of the unique twin flanking rudders make Q-SPD SD Series smoother and quieter than any other surface drive. All this and the performance advantages of fully ventilated surface propellers. The twin rudders offer better tracking, maneuverability and handling at all speeds.

Q-SPD SD drives are compact in length, this means they do not impose on waterline length. They offer shallower draft than most other propulsion options, and can be used in single, twin and even triple or quad applications. They are suited to many hull forms including displacement catamarans and are ideal for both recreational and commercial applications.

The standard SD series system is manually "adjustable" which allows the propeller trim to be adjusted $\pm 3^\circ$ and set at sea trials. This allows the optimum running immersion of the propeller to be found. The SD series is also available as a "fixed" version with integrated thrust bearing. A "direct drive" option is available for direct coupling to the gearbox or to a remote thrust bearing.*

Q-SPD also offers the SD series drives to Military Specification. This caters to the additional demands for extreme speeds and high usage in mission critical applications.

The Q-SPD SD series is delivered as a completely assembled unit ready for immediate installation.

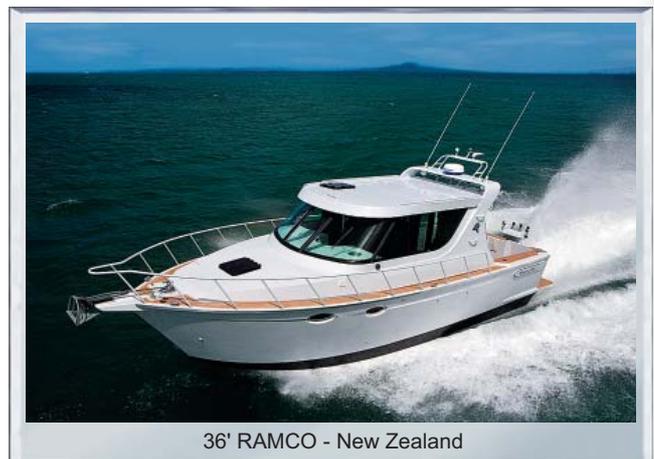
Models SD101, through SD200 are designed for 12° transoms so they are a perfect stern drive alternative. The larger SD300 and SD350 drives mount to a 6° transom angle.



54' STEALTH 540 - South Africa

Q-SPD SD Drives are a viable alternative to conventional underwater shafts and propellers, water jets and other propulsion options. Performance and overall efficiency is improved, draft is reduced, conventional usability, handling and safety are enhanced.

*See Q-SPD's selection guide for guidance on which option might best suit your application



36' RAMCO - New Zealand

Q-SPD

MY Series

"The most obvious choice for fast motor yachts"

Q-SPD's MY series has been specifically developed for integrating into fast motor yacht designs. The Q-SPD drives behave like conventional propulsion in all respects with the added Q-SPD Advantage of superior handling and performance. This offers the motor yacht designer and builder a definite edge over their competition to out-perform and out-maneuvre without compromise.

The Q-SPD Advantage offers a no-nonsense, no-maintenance approach to high performance propulsion. There is no need for the operator to use complex trimming operations to optimise trim and load conditions. They will not



82' ROYAL DENSHIP OPEN - Denmark



overload the engines by using incorrect operating behaviour. Therefore, the operator can concentrate on simply driving the boat and looking after their passengers and crew.

You drive the boat just like a conventional propeller driven boat and it will respond the same AND it will go faster, accelerate quicker, and manoeuvre easier.

The propeller design and integration of the solution into the vessel design is the key. Q-SPD experts will work closely with designers to assist with effective integration of the drive system.

Components used in Q-SPD MY applications are modular. That is, Q-SPD can offer alternative configuration methods that best fit the motor yachts design and purpose. Q-SPD MY series solutions can be offered either in direct drive configurations or with integrated thrust bearings and for power options up to 3000hp.*

WB Series

The WB Series is for specialised application to commercial vessels such as water taxis, ferries, patrol boats and interceptors, crew boats, fishing and dive boats.

The same advantages that make The Q-SPD Advantage a superior option for recreational use are equally applied to commercial applications.

Q-SPD's advanced propeller design, style and application of Q-SPD technology produces high load carrying capabilities as well as all round superior handling and performance.

The WB Series has the same benefits as the SD and MY Series, taking into account specific needs of work boat and commercial applications. These benefits include lightweight composite construction, low maintenance, compact design, superior handling and performance, smooth, quiet and safe operation.



68' EXPLORER - New Zealand

The Q-SPD Advantage can also be an effective and rewarding solution for work boats that operate in low speed mode.

*See Q-SPD's selection guide for guidance on which option might best suit your application



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