



Generating
Movement
Efficiently

SWORDFISH

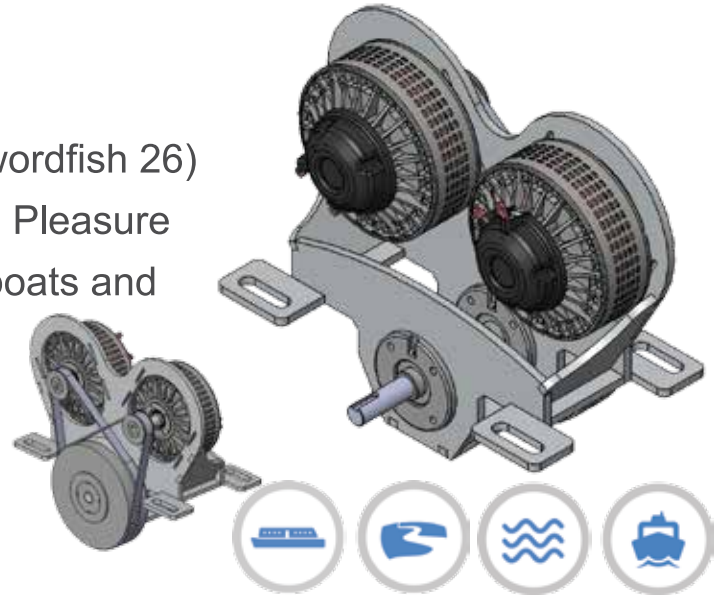
Lynch Electric Twin Marine Drive System



SWORDFISH

KEY FACTS

- 16Kw and 26Kw power output
- 48v input (Swordfish 16) & 72v input (Swordfish 26)
- Suitable for a range of vessel types from Pleasure craft, Canal broad beam barge, Sailing boats and Catamarans.



Swordfish System Output Kw	Combustion Engine Size Replacement	Craft Size includes Narrowboats
Swordfish 16Kw	34-48hp	40-70ft
Swordfish 26Kw	45-65hp	60-80ft



SYSTEM FEATURES

Consistent Reliability - A Lynch electric motor starts every time, just turn the key, adjust the throttle and go. Giving you the security and comfort knowing you have a reliable engine while on the water.

Power Distribution - No need for pre-heating, the power is immediately available. With a Lynch motor the power kicks in straight away, making harbour manoeuvrability easier and more accurate.

Environment and Comfort - Quiet and Clean. The Lynch motor runs extremely quietly giving you a more peaceful experience and is free from exhaust fumes providing you with a clean engine room. Overall making the on-board environment more pleasant and relaxing. The Lynch electric system has no impact on the water environment either making it an excellent choice for emission restricted waterways.

Light Weight - The weight of the Lynch electric system is very low compared to traditional engines and batteries can be distributed for better weight optimization, making the steering more controllable.

Low Maintenance Costs - The only parts that require visual maintenance checks are the brushes and drive belts. The brushes have a life time of upto 7000 hours if maintained and the gear belt 3000 hours, both parts are easy and inexpensive to replace.

Easy Installation - The Lynch marine drive is designed to be easy to install with the controller, throttle and display connected by a 'plug and sail' system. In addition due to the motor and gearing consoles low weight, the system is easy to align without the need for heavy lifting equipment and can be installed in 1 day providing mounting preparation has been completed.

Regeneration - Charging the battery bank while sailing. The Lynch system has been designed with a regenerative function where the motor works as a generator and sends a positive charge to the power supply while the boat is under sail. This only applies to Sailing boats, please ask for more information.

All Lynch Marine Drive Systems include the following:

- Electric DC Motor - LEM200-D135 as standard data sheet available
- Motor Frame / Direct Drive & Gearing Assembly
- Controller Assembly, using sigma controller programmed for the systems use.
- Leads and Installation Manual
- Display - Standard Basic, BMV or Sigma options
- 2 Year Warranty - extendable motor warranty when your motor is serviced by us, valid on the motor only.
- Throttle - Standard Top / Side Mount or ZF throttle option
- Contact us for more information.



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Technical Specification	Swordfish 16 V Twin	Swordfish 26 V Twin
Motor Type	LEM 200-D135 x 2	LEM 200-D135 x 2
Voltage	48 V DC	72 V DC
Current	180 Amp	200 Amp
Power Output	16 KW	26 KW
Average Efficiency	90%	90%
Battery Recharge Function	YES	YES
Rated Speed Engine	2160 RPM	3240 RPM
Rated Torque	72 Nm	72 Nm
Speed Constant	45 RPM/V	45 RPM/V
Peak Current	350 Amp	400 Amp
Peak Power	30 KW	53 KW
Peak Torque	144 Nm	144 Nm
Reduction Gearing Standard	22:56	25:56:00
Reduction Gearing Options	22:72 and 22:90	22:72 & 22:90
Standard RPM Propeller Shaft	990 RPM	1270 RPM
Optional RPM Propeller Shaft	848 RPM	990 RPM
Optional RPM Propeller Shaft	660 RPM	790 RPM
Weight of Motor and Frame	27 KG	27 KG
Weight of Motor Control Box	14.5 KG x 2	14.5 KG x 2

Controller Assembly

Controller Box Sizes	Dimensions (mm)		
	A	B	C
Small - Yellowtail	362.45	362	156.53
Medium - Marlin 5 & 8	362.45	410	156.53
Large - Marlin 13 / Swordfish 16 & 26	362.45	505	156.53

2 x Controller Assembly in all Swordfish Models



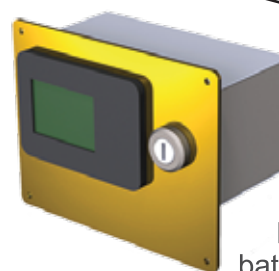
Basic Display

System ON/OFF & direction switches with battery display. stainless steel back plate



BMV 700 Intelligent Display

Key ignition with voltage, battery capacity and available range. *now with stainless steel back plate



Sigma Display

Key ignition with battery capacity levels throttle settings and programme codes for controller



Standard Throttle

One direction setting or neutral position with forward and reverse. Can be top or side mounted.



ZF Dual Throttle

Neutral with forward and reverse only.

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