e-mail.: sales@armstrongmachinery.com

Tel. No.: (+974) 446 82 830 Mobile: (+974) 555 23 964 e-mail.: sales@armstrongmachinery.com Tel. No.: (+974) 446 & 82 830 Mobile: (+974) 555 23 964 e-mail.: sales@armstrongmachinery.com

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Tel. No.: (+974) 446 82 830 Mobile: (+974) 555 23 964

e-mail.: sales@armstrongmachinery.com

Tel. No.: (+974) 446 82 830 Mobile: (+974) 555 23 964 e-mail.: sales@armstrongmachinery.com

Tel. No.: (+974) 446 82 830 Mobile: (+974) 555 23 964

Tel. No.: (+974) 446 82 830 Mobile: (+974) 555 23 964

Whisperprop - the next generation

The new Whisperprop Drive Systems are designed for boat owners wanting to experience electric cruising. Whether you just want to cruise, support your ship's diesel or power a complete electrical system -100 % battery solutions, parallel hybrid drives and generator supported systems are available.

... quiet, comfortable with hours and hours of energy.

The systems are battery based so that a wide range of performances can be covered. A battery bank with sufficient capacity is used to power the electrical drive system. A Fischer Panda diesel generator can also be used to supply energy to the battery bank keeping it charged when away from shore power. Manoeuvring difficulties (especially in the lower speed range) are solved using dynamic permanent magnet motors with very high thrust. The batteries can also be recharged when sailing by dragging the propeller. The Fischer Panda drive systems are available with 48 V and 288 V.

12 good reasons for Whisperprop

Enjoyment

- Silent drive
- Electric power in abundance
- Unique manoeuvrability

Future

- Tomorrow's technology available now
- New design possibilities
- Professional 24 h support / Safety

Environmentally friendly

- Extremely low running costs
- Up to 100 % emission-free
- Efficient motor (efficiency up to 96 %)

Intelligent

- Complete one system from one source
- Can be monitored from other onboard systems
- 48 V low voltage safe for recreational boats



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Tel. No.: (+974) 446 82 830 Mobile: (+974) 555 23 964

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Mobile: (+974) 555 23 964 e-mail.: sales@armstrongmachinery.com Tel. No.: (+974) 446 82 830 Mobile: (+974) 555 23 964 e-mail.: sales@armstrongmachinery.com

Mobile: (+974) 446 82 830 Mobile: (+974) 555 23 964 e-mail.: sales@armstrongmachinery.com

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Mobile: (+974) 555 23 964

Trendsetting and environmentally friendly

An environmentally friendly system with emission-free power available

Comparison: Conventional Drive Technology vs. Hybrid Drive System

Conventional Drive Systems

A conventional drive system consists of a diesel engine, a transmission and a propeller. The components are coupled together via a shaft. The diesel engine is mechanically controlled by the throttle.

A major disadvantage of the conventional drive system is that the transmission is heavily used which causes early

Additionally, a large amount of space is required for the shaft which connects the diesel engine and the gearbox (transmission) to the propeller. If the shaft rotates throughout the boat's length, it may also result in increased noise levels.

Disadvantages of conventional drive systems:

> Large space requirements A lot of wear High noise levels





Whisperprop Hybrid Drive System from Fischer Panda

In a Whisperprop Hybrid Drive System (HDS), the "cable replaces shaft" concept requires far less space. Energy is stored in a battery bank and supplied via cable to an electric motor. A synchronous (permanent magnet) electric motor is mechanically coupled directly to the ship's propeller. These modern, dynamic permanent-magnet motors have very high thrust even in the lower speed range. Battery-only operation, already required on many inland waterways and lakes, is now possible.

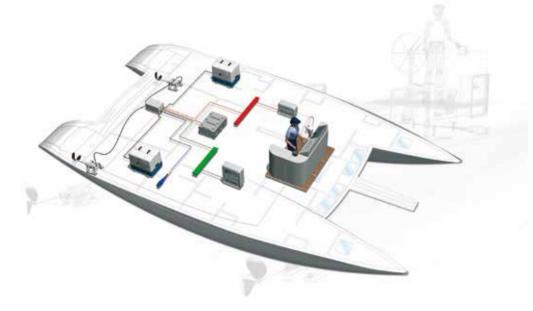
An efficient Fischer Panda diesel generator can also be installed into the system. This is only required to run when the batteries need charging or a higher amount of continuous power is required. The battery also ensures that operation is still possible if the generator fails so power for manoeuvring is available at all times.

The HDS also supplies energy for the entire electrical system. Fischer Panda generators have a very low sound level and operating noise on board is barely audible.

Advantages of Hybrid Drive System:

Space-saving Low fuel costs Low maintenance costs On board power supply included Very quiet operation Good manoeuvrability even in the low speed range





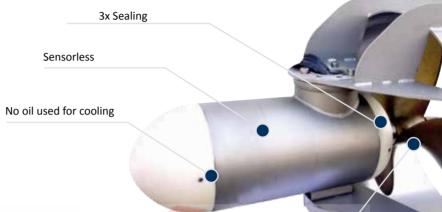
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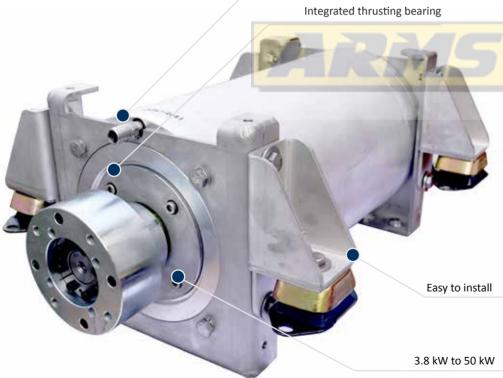
Tel. No.: (+974) 446 82 830 Mobile: (+974) 555 23 964 e-mail.: sales@armstrongmachinery.com

Tel. No.: (+974) 446 82 830 Mobile: (+974) 555 23 964 e-mail.: sales@armstrongmachinery.com

Trendsetting technology



100% Water-cooled



Practically all standard propellers can be fitted

Optional propeller protection

Туре	Version	Speed [rpm]	Performance [kW]	Torque. [Nm]	Weight [kg]
A06-140-6-AZ	Podded underwater drive	2500 /1250	7,5/3,8	28	18.7
B00-150-8-AZ	Podded underwater drive	600	10	160	76
B00-150-8-AZ	Podded underwater drive	1200	20	160	76
B00-300-8-AZ 20kW	Podded underwater drive	600	20	320	120
A06-140-6-SH	Shaft drive	2500 /1250	7,5/3,8	28	15
B00-150-8-SH 10kW	Shaft drive	600	10	160	58
B00-150-8-SH 20kW	Shaft drive	1200	20	160	58
B00-300-8-SH 20kW	Shaft drive	600	20	320	96
B00-150-8-SH	Parallel-Hybrid drive	600	10	160	71
B00-150-8-SH	Parallel-Hybrid drive	1200	20	160	71
B00-300-8-SH	Parallel-Hybrid drive	600	20	320	103

Tel. No.: (+974) 446 82 830 Mobile: (+974) 555 23 964

Mobile: (+974) 555 23 964
e-mail.: sales@armstrongmachinery.com

Tel. No.: (+974) 446 82 830 Mobile: (+974) 555 23 964 e-mail.: sales@armstrongmachinery.com Tel. No.: (+974) 446 82 830 Mobile: (+974) 555 23 964

Tel. No.: (+974) 446 82 830 Tel. No.: (+974) 446 82 830 Mobile: (+974) 555 23 964 Mobile: (+974) 555 23 964

Completely new cruising experience...

Greater peace through silent cruising

Treat yourself to the peace and quiet you deserve. The main advantage of the Fischer Panda diesel-electric drive is that the drive is nearly silent when operating with the battery. There is nothing better than cruising silently. The one question you will ask yourself again and again, 'is the motor running?' Noises are minimal even when the generator is switched on.

Enjoy the natural environment without disturbance





Pure electric cruising 52 dB Cruising with generator 64 dB Diesel engine 72 dB

When cruising with the batteries only, the noise level due to the drive shaft is about 52 dB. Even when the generator is running, noise levels of about 64 dB are still very low because of the Fischer Panda generator's sound shield. This dramatically improves comfort on board. People can perceive changes to sound levels by 1 dB under certain conditions. A 10 dB change equates to a doubling or halving of the perceived sound level.



Tel. No.: (+974) 446 82 830 Tel. No.: (+974) 446 82 830 Tel. No.: (+974) 446 82 830 Mobile: (+974) 555 23 964 Mobile: (+974) 555 23 964 Mobile: (+974) 555 23 964 e-mail.: sales@armstrongmachinery.com e-mail.: sales@armstrongmachinery.com e-mail.: sales@armstrongmachinery.com

e-mail.: sales@armstrongmachinery.com

Tel. No.: (+974) 446 82 830 Mobile: (+974) 555 23 964 nail.: sales@armstrongmachinery.com

Tel. No.: (+974) 446 82 830 Mobile: (+974) 555 23 964 e-mail.: sales@armstrongmachinery.com

Limitless power...

Abundant power on board

...using powerful generators and suitable batteries

Power on board is a true luxury – and this is available in ample quantities at all times. Do you want to use (ideally all at the same time) your laptop, TV, air conditioning, coffee machine, refrigerator, freezer and the oven? With a diesel-electric drive system from Fischer Panda this is not a problem. "Power in abundance" is available using powerful generators and a suitable battery bank. An inverter supplies all the domestic electrical consumers with 230 volts AC, pure sine wave of course.

Power supply just like you would expect at home.



Tel. No.: (+974) 446 82 830 Mobile: (+974) 555 23 964



Tel. No.: (+974) 446 82 830 Mobile: (+974) 555 23 964 mail.: sales@armstrongmachinery.com-

Future...

Unique manoeuvrability

Manoeuvring can be a strenuous undertaking, especially when in the harbour or marina. The Hybrid Drive System brings real relief making it as easy as child's play. The Fischer Panda electric motor provides maximum torque throughout the speed range. Exact manoeuvring with the accuracy of a centimetre is possible even in low speed ranges.

Manoeuvring accurate to the centimetre... even at low speeds.

Tomorrow's technology available now

Climate change is currently one of the biggest issues facing us. Whether it is caused by people or naturally, an urgent re-think in the field of drive systems is required.

The electric drive is an emission-free and clean alternative to the internal combustion engine! Even though low battery capacity limits 'battery only' cruising at high speeds to a very short distance, the range increases overproportionately when cruising at lower speeds. By combining both, Fischer Panda offers a competitive alternative to the conventional combustion engine. Lower speeds are supplied by the battery and the additional performance required at high speeds can be supplied by a generator. Range problems are now a thing of the past.

Better for the environment...

...using an electric motor instead of a combustion engine

- 0 % Emissions
- 100 % Power

Increased range...

...from sufficient energy.

Tel. No.: (+974) 446 82 830 Mobile: (+974) 555 23 964

e-mail.: sales@armstrongmachinery.com





Power

Tel. No.: (+974) 446 82 830 Mobile: (+974) 555 23 964 e-mail.: sales@armstrongmachinery.com

Tel. No.: (+974) 446 82 830 Mobile: (+974) 555 23 964

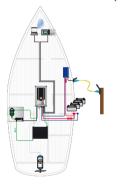
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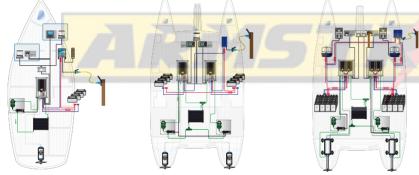
Plenty of room...

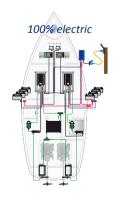
Individual use of the available space

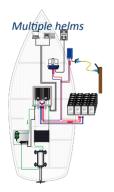
It is now possible to create completely new interior concepts when installing a Whisperprop Drive System from Fischer Panda. The position of both engine and shaft are already defined when constructing a vessel with a conventional system. The Whisperprop Drive System is far more flexible - mechanical components are connected using flexible electrical cables. The system can be distributed throughout the whole boat - wherever space is available. This gives you a far greater range of layout variations.

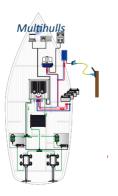
Completely new design concepts can be realised with the idea "cable replaces shaft".















Max 125 A

Tel. No.: (+974) 446 82 830 Mobile: (+974) 555 23 964

e-mail.: sales@armstrongmachinery.com

Tel. No.: (+974) 446 82 830 "Parallel Hybrid") 555 23 964 Generator supported e-mail.: sales@armstrongmachinery.com

Dual drives

See more example systems on the Www.whisperprop.de Website

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Safety...

24-hour professional support

A major strength in this system lies in its redundant design where great emphasis is placed on safety. Even in the event of generator failure, it is still possible to use the battery bank as a source of energy and take the boat with its passengers into the harbour. A 24/7 hotline is also available worldwide in the event of a major problem. Remote diagnosis of any problems using an internet connection provides a means of direct assistance.

Help, day and night, if there are unexpected problems



One litre of diesel supplies energy of approx. three kilowatt hours (kWh). It is possible to refuel at the harbour at a reduced cost or even free of charge with a Hybrid Drive System. It pays off in the long term.

Low cost cruising...
...great fuel savings possible



also suited for commercial applications

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Tel. No.: (+974) 446 82 830 Mobile: (+974) 555 23 964 e-mail.: sales@armstrongmachinery.com Tel. No.: (+974) 446 82 830 Mobile: (+974) 555 23 964 e-mail.: sales@armstrongmachinery.com Tel. No.: (+974) 446 82 830 Mobile: (+974) 555 23 964

e-mail.: sales@armstrongmachinery.com

Tel. No.: (+974) 446 82 830 Mobile: (+974) 555 23 964 nail.: sales@armstrongmachinery.com Tel. No.: (+974) 446 82 83 Mobile: (+974) 555 23 96 e-mail.: sales@armstrongmachinery.coi

Cruise anywhere...

Up to 100 % emission free

The world is turning green – be part of it!

On many inland waterways and lakes across Europe and beyond, the use of a combustion engine is now prohibited. These restrictions do not apply to the Fischer Panda Hybrid Drive System and you can cruise without concern.

We guarantee that you will be envied for this freedom!

The system is also designed so that it can be upgraded to include solar and wind energy.

....even where combustion engines are prohibited!



Efficient motor (96 % efficiency!)

A distinctive feature of the diesel-electric drive system is that the electric motor operates with a very high efficiency up to 96 %. Conventional petrol or diesel engines which generally have just 40% are considered to be extremely efficient.

The most efficient way to travel...

If you do not have the opportunity to recharge your batteries from a shore power connection, you can simply use your generator to supply the energy. As the generator always runs within an optimal speed range, it is considered to be significantly more efficient than a conventional diesel. Even with a generator installed, the Hybrid Drive System from Fischer Panda can save up to 20 % fuel per hour.

...get more from your stored energy.



No.: (+974) 446 82 830 Mobile: (+974) 555 23 964 e-mail.: sales@armstrongmachinery.com 11

Tel. No.: (+974) 446 82 830 Mobile: (+974) 555 23 964 e-mail.: sales@armstrongmachinery.com

Tel. No.: (+974) 446 82 830 Mobile: (+974) 555 23 96e-mail.: sales@armstrongmachinery.com

Everything from one source...

A complete system from one source

Fischer Panda provides you with the complete hybrid system from one source! All the components are exactly matched to each other. This includes the electric motor, display, throttle, generator and all the additional electronic parts required. This ensures that you have a complete system you can rely on.

A further advantage for you is having Fischer Panda as a reliable partner at your side. We take care of repairs, warranty issues or any unexpected problems. Through an extensive network in eighty countries, Fischer Panda can provide expert help to customers almost anywhere in the world.



...exclusively from Fischer Panda



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Tel. No.: (+974) 446 82 830 Mobile: (+974) 555 23 964 e-mail.: sales@armstrongmachinery.com

Tel. No.: (+974) 446 82 830 Mobile: (+974) 555 23 964 e-mail.: sales@armstrongmachinery.com

Whisperprop Hybrid Drive System - frequently asked questions

Is it worth it for me?

Initial investment is covered over the long term.

The Hybrid Drive System (HDS) is not only responsible for the drive system, but also for the complete supply of energy on board so it has to ensure a continuous power supply. When comparing the Hybrid Drive System with a conventional drive and including an additional power system with generator + control, the HDS is even more favourable in the long term just from the fuel savings and the low shore power costs.

Low maintenance costs

The diesel generator in a hybrid drive system is used far less than the engine in a diesel-only setup. Maintenance costs are reduced further because an electric motor is virtually maintenance free.





Tel. No.: (+974) 446 82 830 Mobile: (+974) 555 23 964 e-mail.: sales@armstrongmachinery.com Tel. No.: (+974) 446 82 830 Mobile: (+974) 555 23 964 e-mail.: sales@armstrongmachinery.com

-mail.: sales@armstrongmachinery.com

Tel. No.: (+974) 446 82 830 Mobile: (+974) 555 23 964 nail.: sales@armstrongmachinery.com Tel. No.: (+974) 446 82 830 Mobile: (+974) 555 23 964 e-mail.: sales@armstrongmachinery.com

Will the system fit in my boat?

Individual room solutions

Space on board is very limited. The advantage of the Hybrid Drive System is that it consists of components that can be installed wherever space is available. The space of the boat can be utilised optimally. It is possible to install the generator even in the boat's centre. This offers a wide range of installation variations.

Do I get support?

Professional advice and after- sales service

Of course we will assist you right from the planning stage. Our competent team of professionals is available to consult and offer you advice. We also support you afterwards with a full after-sales service.

■ SOS-24/7 Hotline

We provide a 24/7 contact service in the event of generator problems or urgent requests of any kind (Tel. No. +49 5254 9202-767- SOS on a key-operated telephone).

Worldwide Service and Sales Network

With a coordinated network of distributors, dealers and service stations Fischer Panda has trained specialists worldwide. They will provide you with advice and support and recommend you the best service stations, depending on the location of your vessel. They can help you with the organisation and coordination of resources and spares, so you get the best service- wherever you are.

The "Global Service Directory" can be downloaded from the www.fischerpanda.de website.



Power



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Tel. No.: (+974) 446 82 830 Mobile: (+974) 555 23 964 e-mail.: sales@armstrongmachinery.com Tel. No.: (+974) 446 82 830 Mobile: (+974) 555 23 964 e-mail.: sales@armstrongmachinery.com

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Fischer Panda - your partner

Fischer Panda generators will supply you with reliable power at any time

- 3 kW to 200 kW generator systems
- Worldwide partners in your area
- Very quiet operation and low vibration
- Extremely silent and light generators
- Parallel operation with multiple generators
- Integration with the main control system of the ship

Owners set their expectations very high when it comes to the on-board power supply. Components must not take up too much space, be light as possible and quiet. The power supply has to be just as reliable as it is at home and fool-proof to operate.

More than thirty years ago, Fischer Panda developed a generator technology that could meet these high demands.

Since then, numerous ship-owners in the world have appreciated both this and the quality of the technology used in the Fischer Panda generator. Years of experience with continuous research and development work have resulted in many developments, refinements and even award-winning innovations.

Today, Fischer Panda has an extensive range of standard products and also offers custom solutions for an individual energy supply that is tailored precisely to the customer.



Global dealers and partners

Numerous dealers and partners worldwide are available to advise and support you.





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Tel. No.: (+974) 446 82 830 Mobile: (+974) 555 23 964

e-mail.: sales@armstrongmachinery.com

Tel. No.: (+974) 446 82 830 Mobile: (+974) 555 23 964 e-mail.: sales@armstrongmachinery.com

e-mail.: sales@armstrongmachinery.com

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Tel. No.: (+974) 446 82 830 Mobile: (+974) 555 23 964 e-mail.: sales@armstrongmachinery.com Tel. No.: (+974) 446 82 830 Mobile: (+974) 555 23 964 e-mail.: sales@armstrongmachinery.com

Tel. No.: (+974) 446 82 830 Mobile: (+974) 555 23 964

System overview

48 V "EasyBox" System

100 % electric up to 2x 20 kW up to 320 Nm

The 48 V "EasyBox" System provides your boat with a basic electric drive system. The system is quick to install (plug and play) and all electrical components are contained in one unit.

The electric drive motors meet all essential requirements of the applicable European directives and standards. They are operated at extra-low voltage < 60 V DC. Maximum safety in use and installation is guaranteed.

It is primarily designed as a battery-only system with a 48 V battery bank of sufficient capacity. The batteries can be charged via shore power connection or at the touch of a button using the re-generation 'REGEN' function (when main engine is running or using propeller drag when sailing)

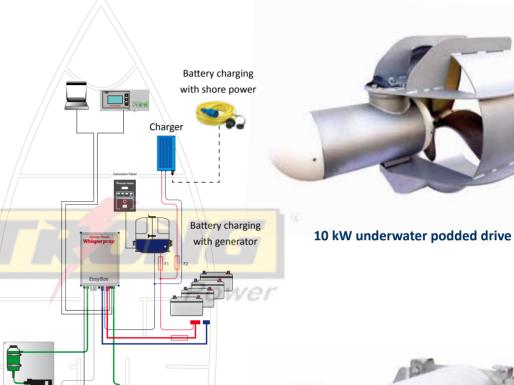
- Entry level electric drive system
- 'Plug and play' connectors and LCD panel
- Charging via shore power / charger or using **REGEN function**

Basic System

Perfect for cruising on waters where combustion engines are not allowed. The system is designed for monohulls, catamarans or trimarans requiring a single or dual drive system.

- 3,5 kW / 7 kW / 10 kW / 20 kW
- shaft or podded drive single or dual drives
- 48 V battery bank
- Extremely quiet battery operation Charge batteries with shore power or with onboard generator







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3.8 kW / 7 kW

e-mail.: sales@armstrongmachinery.com

10 kW

Tel. No.: (+974) 446 82 830 Mobile: (+974) 555 23 964 e-mail.: sales@armstrongmachinery.com

Mobile: (+974) 555 23 964 e-mail.: sales@armstrongmachinery.com

e-mail.: sales@armstrongmachinery.com

Tel. No.: (+974) 446 82 830
Mobile: (+974) 555 23 964
e-mail.: sales@armstrongmachinery.com
e-mail.: sales@armstrongmachinery.com



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-mail.: sales@armstrongmachinery.com

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System overview

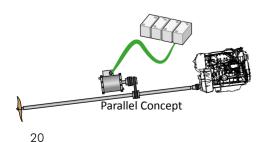
48 V "EasyBox" Parallel-Hybrid Drive

- 10 kW / 20 kW electric motors
- Parallel Hybrid Drive with electric coupling
- 48 V battery bank
- Options for powering domestic electrical consumers

This system is ideal for cruising or manoeuvring (especially at low speeds) when a traditional ship's main engine is installed. The drive engine is mounted parallel to the existing shaft. No modification to the shaft or engine is required.

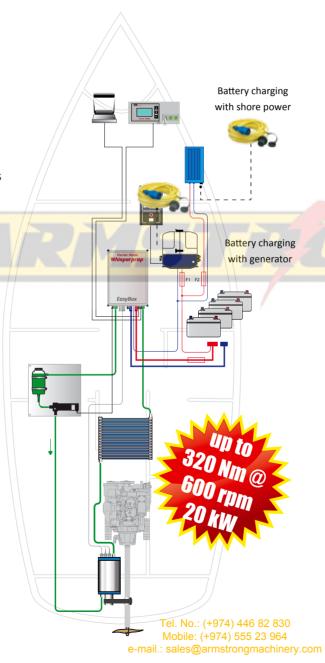
The electric drive motors meet all essential requirements of the applicable European directives and standards. They are operated at extra-low voltage < 60 V DC. Maximum safety in use and installation is guaranteed.

The battery bank can be recharged by simply pressing the RE-GEN button when the main engine is running. This system is foro ships with a traditional combustion engine/gear.

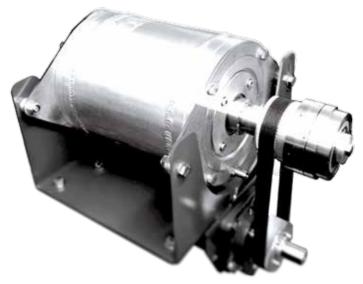


Tel. No.: (+974) 446 82 830 Mobile: (+974) 555 23 964

e-mail.: sales@armstrongmachinery.com







Tel. No.: (+974) 446 82 830

10 kW Parallel-Hybrid Drime: (+974) 555 23 964
e-mail.: sales@armstrongmachinery.com

-mail.: sales@armstrongmachinerv.com

Tel. No.: (+974) 446 82 830 Mobile: (+974) 555 23 964 e-mail.: sales@armstrongmachinery.com Tel. No.: (+974) 446 82 830 Mobile: (+974) 555 23 964 e-mail.: sales@armstrongmachinery.com



Tel. No.: (+974) 446 82 830 Mobile: (+974) 555 23 964 e-mail.: sales@armstrongmachinery.com Tel. No.: (+974) 446 82 830 Mobile: (+974) 555 23 964 e-mail.: sales@armstrongmachinery.com

e-mail.: sales@armstrongmachinery.com

Tel. No.: (+974) 446 82 830 Mobile: (+974) 555 23 964 e-mail.: sales@armstrongmachinery.com Tel. No.: (+974) 446 82 830 Mobile: (+974) 555 23 964 e-mail.: sales@armstrongmachinery.com

System overview

288 V Hybrid Drive System

- 100 % electric
- up to 2 x 50 kW
- plus generator

The 288 V Hybrid Drive System is suited for large and complex projects with drive systems up to $2 \times 50 \text{ kW}$.

The C³ touchscreen panel provides a central point for complete system monitoring and control. Various modules are available allowing the vessel's components and electrical consumers to be integrated into the system as required.

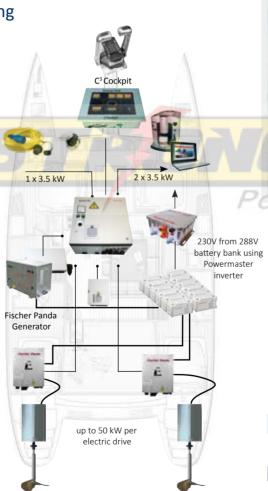
The base system provides quiet cruising using the battery. An integrated Fischer Panda Motion Generator allows cruising or battery charging when shore power is not available. The system has a fully integrated 3.5 kW shore power connection and 2 x 3.5 kW for the onboard domestic electrical consumers. The system can be increased if more power is required.

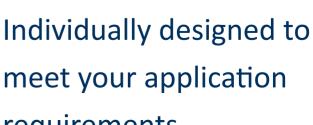
- Complete system with centralised control
- C³ touch panel with bus system
- Power for on-board electrical consumers
- Integrated shore power with battery charging

Generator support for extended cruising

Upgrade the 288 V
Hybrid Drive System
with one or more
Fischer Panda Motion
generators.
This provides for
extended cruising
at high speed and
powerful battery
charging capabilities
without shore power.

- Generators for charging / continuous cruising.
- One generator can charge power drives
- Safety through redundancy (backup)





requirements...(+974) 446 82 83

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C'Cockpit

C'Eackpit

C³-Cockpit - control everything from one place

"Command, Control and Communication" (C^3) are the key elements behind the new C^3 -Cockpit. All BUS-system components are connected together and can communicate with each other. The status and current parameters of all BUS connected components such as the drive system, throttle, generator and batteries are displayed. The skipper has a complete overview and can modify parameters and operate devices.

With optional BUS modules it is possible to expand the system and use many new possibilities and functions available into your electric drive. All Fischer Panda BUS modules are connected together via the C³-Cockpit which serves as the system security control unit. This allows all information and control functions to be displayed on the C³-Cockpit and operated via the touchscreen. The C³-Cockpit becomes the yacht's central command for control and monitoring of engine, cooling systems and the electrical distribution including generator, battery and consumers. This provides the skipper with everything needed to control and Diving Compressor manage on board power requirements from a single control point.

Precise battery management monitors individual batteries and warns of problems (even in single cells) thus protecting the battery bank against damage.

Temperature and tank levels (fuel, water) can be monitored. An optional GPS module can be connected to obtain position, ship's speed and time.

Operating information of all components and control options can also be remotely accessed via a WLAN connection from your PC, tablet or smart phone. It is also possible to reconfigure the C³ Cockpit screen, so that all the information which you require to safely run your yacht is displayed. All components of the Fischer Panda Drive System are optimally matched and perfectly suited to combine the drive and energy supply.



E.Fischer Panda

C'Cackpit

C³Cockpit Control Centralised System Switching

Centralised Instruments

System Information and Status

Tel. No.: (+974) 446 82 830 Mobile: (+974) 555 23 964

e-mail.: sales@armstrongmachinery.com

Tel. No.: (+974) 446 82 830
Mobile: (+974) 555 23 964
e-mail.: sales@armstrongmachinery.com

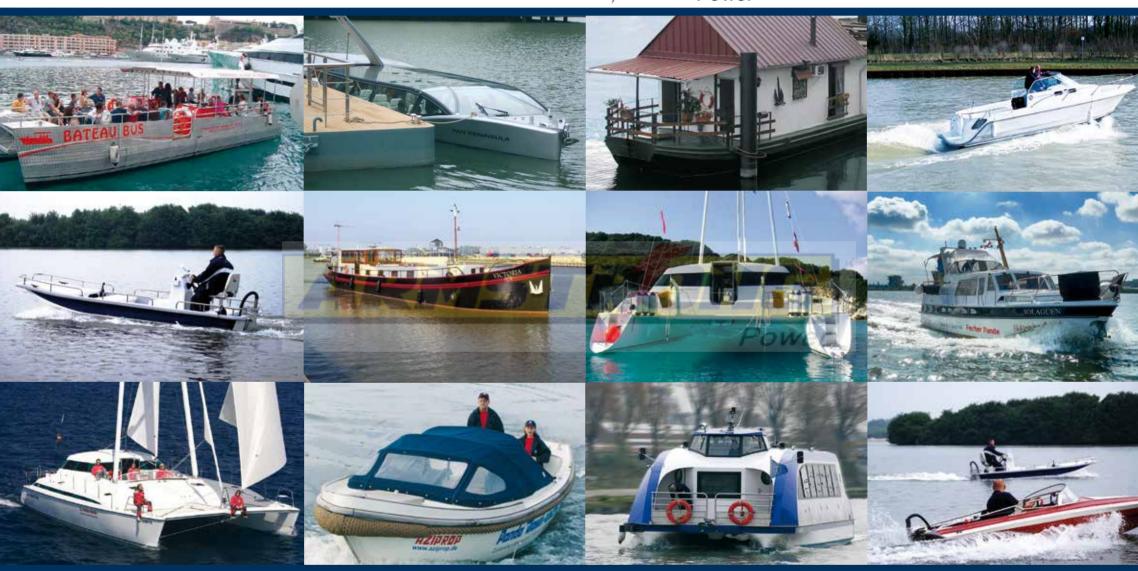
Tel. No.: (+974) 446 82 830
Mobile: (+974) 555 23 964
e-mail.: sales@armstrongmachinery.com

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e-mail.: sales@armstrongmachinery.com

Tel. No.: (+974) 446 82 830 Mobile: (+974) 555 23 964 e-mail.: sales@armstrongmachinery.com Tel. No.: (+974) 446 82 830 Mobile: (+974) 555 23 964 e-mail.: sales@armstrongmachinery.com







Tel. No.: (+974) 446 82 830 Mobile: (+974) 555 23 964

e-mail.: sales@armstrongmachinery.com

Tel. No.: (+974) 446 82 830 Mobile: (+974) 555 23 964 e-mail.: sales@armstrongmachinery.com Disclaimer: The information contained here is to the best of our knowledge accurate at the date of publication. Please note that the data in this publication reflects the technical state at time of print.

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