



New SX models - the next generation external thrusters

The brand new SX series are the world's most compact external bow and stern thrusters that fits where others won't and offer a number of attractive benefits for boat builders as well as retrofit installations. Its versatile installation possibilities and compact size make it a perfect choice for vessels where the inside configuration does not allow a standard thruster installation. Available in 35 and 50 kg thrust as On/off and PRO versions suitable for boats up to 11m / 37'.

As the Side-Power engineering team has accumulated a vast amount of know-how about externally mounted thrusters over the years, this knowledge has now resulted in a brand new generation of external thrusters. The new generation has been improved in virtually every component and engineered for a more effective manufacturing process in order to reduce production cost and thereby price. Further more, when used as a stern thruster, these models will be the most compact ever. So, if you could not fit a stern thruster before, it might be a good idea to check out our latest generation of external thrusters.

Key design features:

- Ease of installation with no GRP work necessary
- Energy efficient and long run times
- Versatile installation fits many hull shapes
- Available in **PRO** version with variable speed control
- Patented Intelligent Power Control protection as standard (IPC)



*Also available in PRO versions
with DC speed control.*



Configurations



1) SX stern standard

2) SX stern w/ protective grids

3) SX stern w/cowls (Adjustable deflection direction)

4) SX Hydropod with hydrodynamical waterflow cover allows for bow thruster usage

The new SX models are available in four configurations that allows a vast array of installation options with 35 or 50 kg's of actual thrust at 10,5 volts.

1) Standard stern thruster

The most compact stern thruster on the market. Minimal height and width requirements.

2) Stern thruster with propeller protection grids

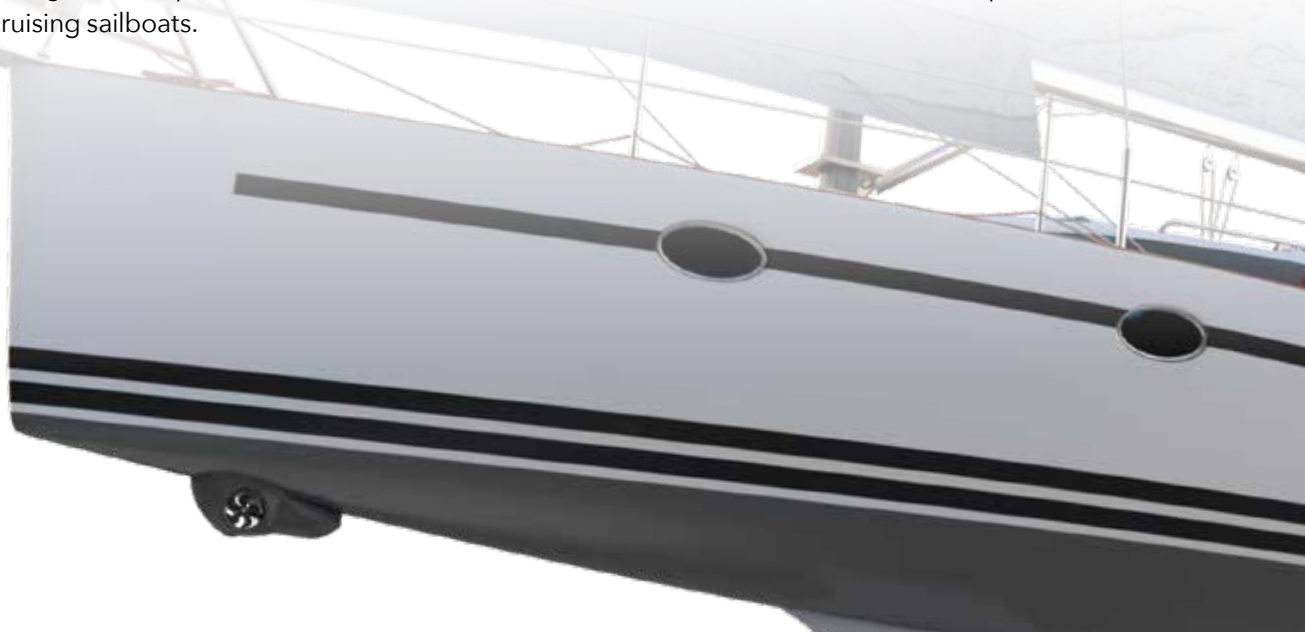
An optimal solution ensuring peoples safety during water sport activities or for vessels used in waters with debris or drifting objects.

3) Stern thruster with cowls

Many vessels have a hull design or equipment on the transom of the boat that might disturb the water flow to and from a stern thruster, thus making it less efficient. With the adjustable cowls, water flow can be directed to be less disturbed, obtaining a higher level of efficiency or allow for a very shallow installation closer to the waterline.

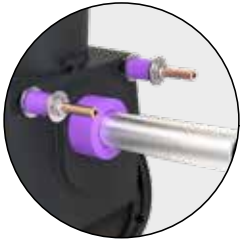
4) In-flow configuration as bow or stern thruster

By adding the Hydropod low drag cover, the new SX models can be mounted under the hull in the water flow for low- and mid-speed vessels. The optimal design adds minimal drag and will in most installations not be noticeable. The in-flow configuration is perfect for boats where it is difficult to fit a tunnel thruster or for example as a stern thruster for cruising sailboats.



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Easy and quick installation:
only three holes necessary
for installation



Shock and vibration absorbing sleeves on
all hull connections for added safety and
reduced noise.

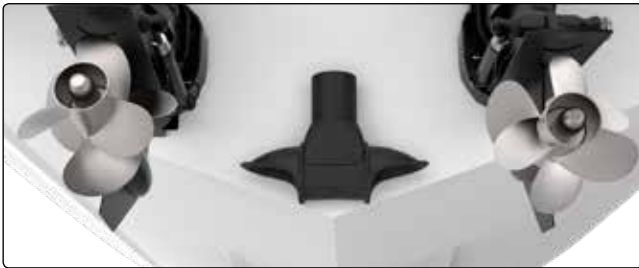
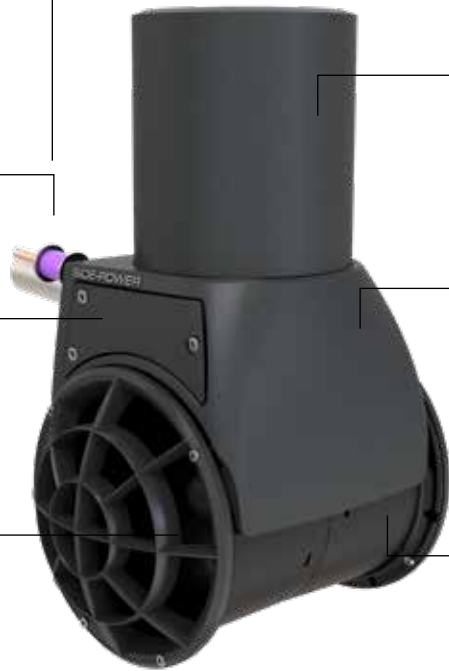
Integrated PMDC motor for
reduced size and optimal
cooling

All external stainless parts
galvanic isolated from
wetted aluminum
surfaces

Full aluminum body. Various
alloys used for specific
purpose. Hard coated and
treated for optimal corrosion
protection

Sealed gear house
- no oil change needed

Optimized tunnel geometry
for better performance and
reduced noise





Benefits - the world's most compact external thruster

Ultra compact

Fits where others won't.

Quick and easy installation

Requires drilling of only three small holes with a minimal foot print on the hull. No fiberglass work is necessary. Compatible with standard Side-Power connections, control panels and accessories.

Versatile installation

The design of the new SX models allows for a large range of different installations as bow and stern thruster for both motor boats and sail boats.

Intelligent Power Control

Deliver standards with Side-Power's patented IPC:

- Provides delay between drive directions
- Monitors solenoid functions to reduce the chance of solenoid lock-in.
- Will stop the thruster in case of a locked-in solenoid, without extra user action and even without controlling a main switch.

Long run times

The external placement of the unit provides a more efficient water cooling and allows longer duration per cycle of the unit than with traditional bow and stern thrusters. Even longer run times in PRO version when run at reduced speed.

Optimal efficiency

Optimal efficiency of bow model results from a shorter transverse channel and ideal leverage which is created by deeper and more distant positioning away from the pivot point. Giving up to 40 % higher efficiency than with conventional tunnel.

Safety

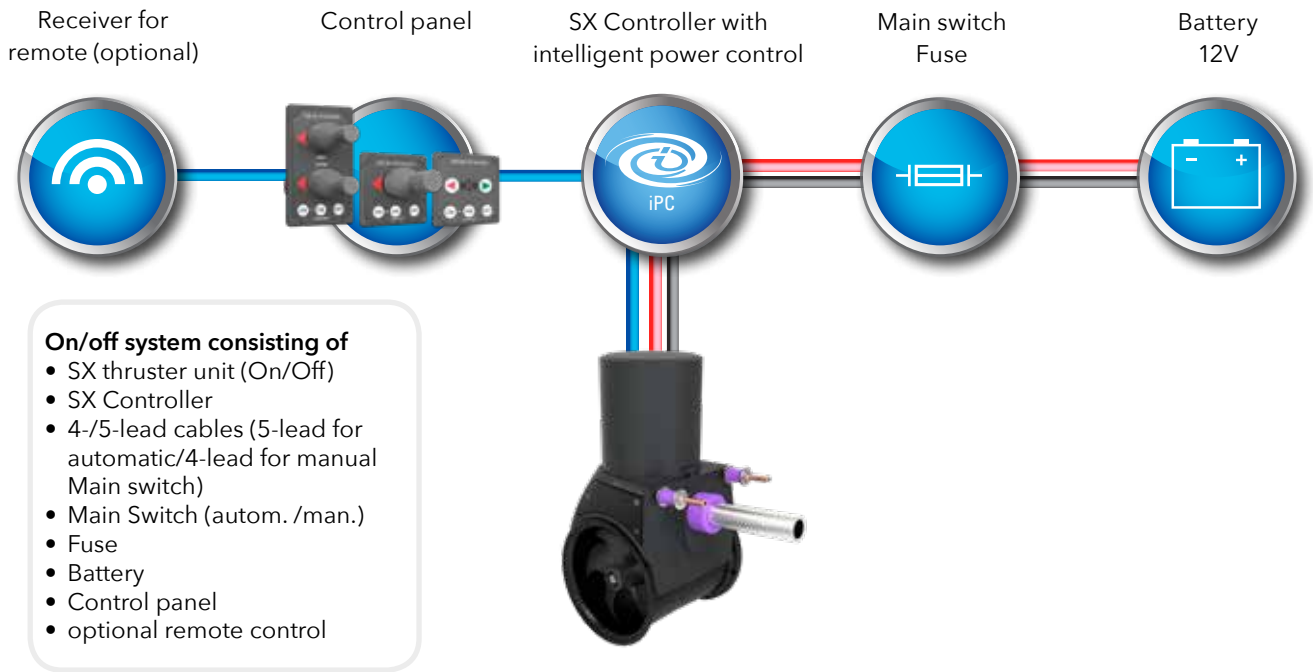
Ignition protection. Can be installed in stern locations/ on compartments with high octane fuels due to hermetically sealed housing. ISO8846 and UL 1500 certified. Galvanic isolation kit for metal/aluminium hulls and safety protection grids available as accessories.

Very quiet

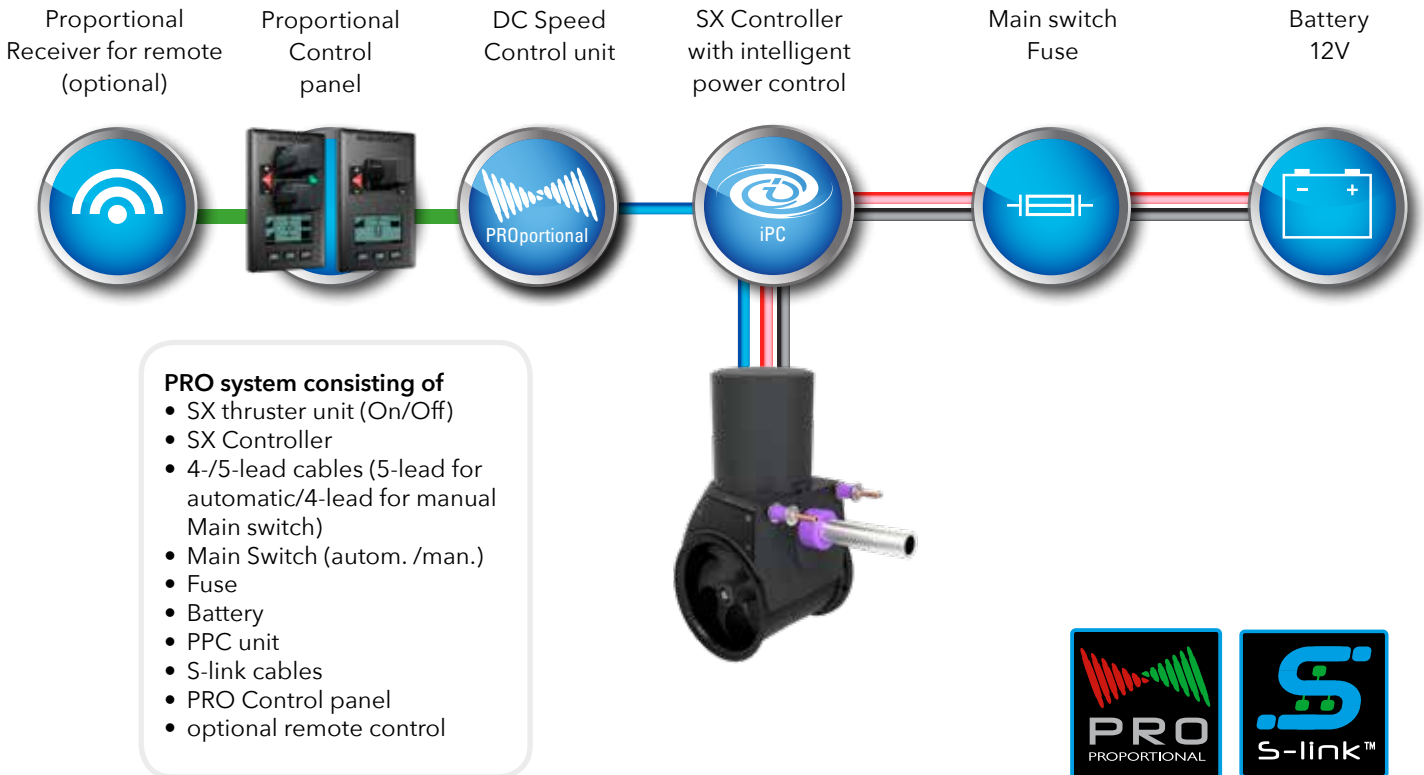
With a short and optimally designed tunnel, vibration absorbing sleeves on all hull connections, 5 bladed Q-pro and the fully submerged unit, the thruster operates remarkably quiet.



SX Series system overview: On/Off



SX Series system overview: PRO



SX-Series accessories



SX 140 Extender / Galvanic isolation for stern installation.

- Polyurethan spacer allows for easier installation in proximity to stepped and concave surfaces on the transom.
- Spacer functions as galvanic isolation for metal hulls.

SX Controller

- Side-Power IPC system
- easy installation
- easy mounting
- little space requirements through compact measurements
- enclosure in rugged flameretardent ABS material
- for On/off and Pro models Additional PPC, S-link cables and Panel needed for Pro models. Own/seperate controller box available for each model. Comes with/ Included.

Cowls

- made of reinforced UV resistant composite material
- easy installation and retrofit
- remove cavitation on shallow installations (more thrust, less noise)
- guide thrust away from flaps or stern drive
- Either preassembled from factory or as retrofit kit.

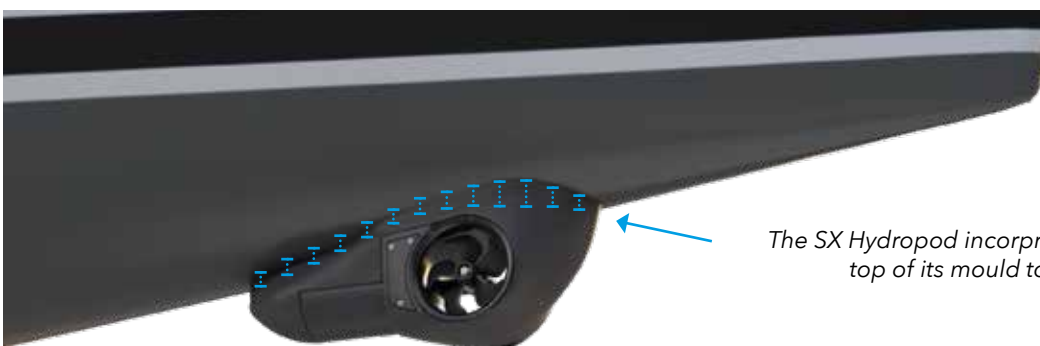
Safety protection grids

- hydrodynamic shape to reduce resistance
- made of reinforced UV resistant composite material
- removable for cleaning and propeller service
- Either preassembled from factory or as retrofit kit.



SX Hydropod with hydrodynamical waterflow cover

By adding the Hydropod low drag cover, the new SX models can be mounted under the hull in the water flow for low- and mid-speed vessels. The optimal design adds minimal drag and will in most installations not be noticeable. For a typical sail boat cruising at 7,5 knots, the added drag is **less than 5kg**. The in-flow configuration is perfect for boats where it is difficult to fit a tunnel thruster or for example as stern thruster for cruising sailboats.



The SX Hydropod incorporates an easy adaptable surface at the top of its mould to be easily adapted to the hulls shape during installation