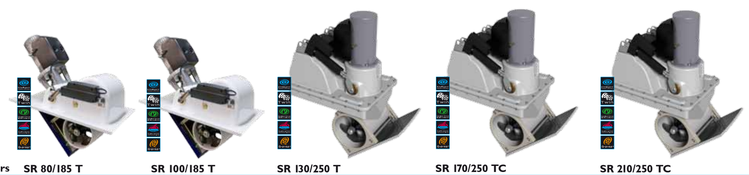
SIDE - POWER DC thrusters

SE Series thrusters	SE 30/125 S	SE 40/125 S	SE 60/185 S	SE 80/185 T	SE 100/185 T	SE 120/215 T	SE 130/250 T	SE 150/215 T	SE 170/250 TC	SE 210/250 TC	SP 240 TCi	SP 285 TCi
Thrust at 10.5V/21V[6] (kg • lbs)	30 • 66	40 • 88	60 • 132	80 • 176	100 • 220	120 • 264	130 • 284	150 • 330	170 • 374	210 • 462	240 • 528	285 • 627
Thrust at 12V/24V[6] (kg • lbs)	40 • 88	48 • 105	73 • 161	96 • 212	116 • 256	139 • 306	160 • 352	182 • 400	210 • 462	250 • 550	300 • 660	340 • 748
Typical boat size [5] (t • m)	20' - 28' • 6 - 8.5	26' - 34' • 8 - 10.5	29' - 38' • 9 - 12	35' - 48' • 10 - 15	35' - 55' • 12 - 17	42' - 60' • 13 - 18	42' - 62' • 13 - 19	44' - 64' • 14 - 20	50' - 70' • 15 - 22	55' - 78' • 17 - 24	60' - 84' • 18 - 25	74' - 100' • 22 - 30
Tunnel I.D. (mm • in)	125 • 4.92"	125 • 4.92"	185 • 7.3"	185 • 7.3"	185 • 7.3"	215 • 8.46"	250 • 9.8"	215 • 8.46"	250 • 9.8"	250 • 9.8"	300 • 11.8"	300 • 11.8"
Propulsion system	Single	Single	Single	Twin	Twin	Twin	Twin	Twin	Twin Counter rot.	Twin Counter rot.	Twin Counter rot.	Twin Counter rot.
Power at 10.5V/21V[6] (hp • Hp)	1.5 • 2	2.2 • 3	3.1 • 4	4.4 • 6	6.3 • 8.4	6.4 • 8.55	6.5 • 8.7	8.8 • 11.8	8 • 10.7	10 • 13.15	11.4 • 15.5	15 • 20
For DC system [V]	12	12	12	12/24	12/24	24	12/24	24	24	24	24	24 (48V motor)
Weight (kg • lbs)	9.5 • 21	10 • 22	16 • 35	20 • 44	31 • 68	34 • 74	37 • 77	38 • 79	44 • 97	68 • 150	70 • 154	73 • 160
Min. Batt. Cap (CCA** 12/24V)	200	300	350 • 175	550/300	750/400	400	750/400	560	550	650	700	2x450 - 24V
Item Code 12V	**SE30/125S(-IP)**	**SE40/125S(-IP)**	**SE60/185S-I2V(-I2IP)**	**SE80/185T-I2V(-I2IP)**	**SE100/185T-I2V(-I2IP)**	**SE120/215T (-IP)**	**SE130/250T-I2V(-I2IP)**	**SE150/215T**	**SE170/250TC(-IP)**	**SE210/250TC**	**SP240TCi**	**SP285TCi**
Item Code 24V			**SE60/185S-24V(-24IP)**	**SE80/185T-24V(-24IP)**	**SE100/185T-24V(-24IP)**		**SE130/250T-24V(-24IP)**					

SX Series thrusters	SX 80/185 T	SX 100/185 T
Thrust at 10.5V/21V[6] (kg • lbs)	80 • 176	100 • 220
Thrust at 12V/24V[6] (kg • lbs)	96 • 212	116 • 256
Typical boat size [5] (t • m)	35' - 48' • 10 - 15	35' - 55' • 12 - 17
Tunnel I.D. (mm • in)	185 • 7.3"	185 • 7.3"
Propulsion system	Twin	Twin
Power at 10.5V/21V[6] (hp • Hp)	4.4 • 6	6.3 • 8.4
For DC system [V]	12/24	12/24
Weight (kg • lbs)	26 • 57	37 • 81
Min. Batt. Cap (CCA** 12/24V)	550/300	750/400
Item Code 12V	**SX80/185T-I2V**	**SX100/185T-I2V**
Item Code 24V	**SX80/185T-24V**	**SX100/185T-24V**



SR Series thrusters	SR 80/185 T	SR 100/185 T	SR 130/250 T	SR 170/250 TC	SR 210/250 TC
Thrust at 10.5V/21V[6] (kg • lbs)	80 • 176	100 • 220	130 • 284	170 • 374	210 • 462
Thrust at 12V/24V[6] (kg • lbs)	96 • 212	116 • 256	160 • 352	210 • 462	250 • 550
Typical boat size [5] (t • m)	35' - 48' • 10 - 15	35' - 55' • 12 - 17	42' - 62' • 13 - 19	50' - 70' • 15 - 22	55' - 78' • 17 - 24
Tunnel I.D. (mm • in)	185 • 7.3"	185 • 7.3"	250 • 9.8"	250 • 9.8"	250 • 9.8"
Propulsion system	Twin	Twin	Twin	Twin Counter rot.	Twin Counter rot.
Power at 10.5V/21V[6] (hp • Hp)	4.4 • 6	6.3 • 8.4	6.5 • 8.7	8 • 10.7	11 • 14.5
For DC system [V]	12/24	12/24	12/24	24	24
Weight (kg • lbs)	31 • 68	44 • 97	82 • 181	88 • 194	112 • 247
Min. Batt. Cap (CCA** 12/24V)	550/300	750/400	500/250	550	650
Item Code 12V	**SR80/185T-I2V**	**SR100/185T-I2V**	**SR130/250T-I2V**		
Item Code 24V	**SR80/185T-24V**	**SR100/185T-24V**	**SR130/250T-24V**	**SR170/250TC-24V**	**SR210/250TC-24V**

HYDRAULIC thrusters

SH Series thrusters	SH 100/185 T	SH 160/215 T	SH 240/250 TC	SP 300 HYD	SH 420/386 TC	SH 550/386 TC	SH 1000/513 TC	SH 1400/610 TC
Light duty thrust up to (kg • lbs)	100 • 220	160 • 352	240 • 528	300 • 660	420 • 925	550 • 1210	1000 • 2205	1400 • 3086
Heavy duty thrust up to (kg • lbs)	80 • 176	140 • 308	220 • 440	270 • 594	380 • 835	500 • 1100		
Typical boat size [5] (t • m)	30' - 34' • 9 - 16	35' - 62' • 11 - 19	42' - 75' • 13 - 23	55' - 100' • 17 - 31	75' - 120' • 23 - 37	85' - 130' • 25 - 40	100' - 140' • 30 - 43	130' - 170' • 40 - 52
Tunnel I.D. (mm • in)	185 • 7.3"	215 • 8.46"	250 • 9.8"	300 • 11.8"	386 • 15.2"	386 • 15.2"	513 • 20"	610 • 24"
Propulsion system	Twin	Twin	Twin counter rot.	Twin counter rot.	Twin counter rot.	Twin counter rot.	Twin counter rot.	Twin counter rot.
Hydraulic power up to (hp • Hp)	6.9 • 9.3	10.0 • 13.4	14.9 • 20.0	17.4 • 23.3	29.7 • 39.8	43.1 • 57.8	63.0 • 84.5	87.8 • 117.7
Weight (kg • lbs)	9.0 • 19.8	10.5 • 123	15.9 • 35.0	19.5 • 42.9	51.8 • 114.2	51.8 • 114.2	~146,5 • 323	~170 • 375
Item Code	**SH100/185T-xxx**	**SH160/215T-xxx**	**SH240/250TC-xxx**	**SP300HYD-xxx**	**SH420/386TC-xxx**	**SH550/386TC-xxx**	**SH1000/513TC-xxx**	**SH1400/610TC-xxx**

*Weight stated include thruster, props & bellhousing ONLY. Weight of hydraulic motor (typical 25 - 40 kg) comes in addition

With models from 100 to 1400kg of thrust for use as either bow or stern thrusters, Side-Power has suitable models for a wide variety of yachts and commercial vessels. To ensure matching quality of all components in a hydraulic thruster system, we also offer complete hydraulic systems with guaranteed performance and reliability.

Please see the separate hydraulic system brochure or ask your dealer for more details!

AC thrusters

Side-Power offers 10 different AC thrusters based on 3 different tunnel diameters. Ranging from 450 to 1400 kg of thrust, the AC thruster range covers a wide selection of vessels.

All AC thrusters are using the S-Link control system and can easily be used in combination with Side-Power hydralic thrusters or other S-Link controlled equipment like Side-Power Stabilizers etc.

SAC Series thrusters	SAC 386	SAC 513	SAC 610
Thrust up to (kg • lbs)	520 • 1146	1150 • 2535	1400 • 3086
Typical boat size [5] (t • m)	75' - 130' • 23 - 40	90' - 150' • 27 - 46	120' - 170' • 37 - 52
Tunnel I.D. (mm • in)	386 • 15.2"	513 • 20"	610 • 24"
Propulsion system	Twin counter rot.	Twin counter rot.	Twin counter rot.
Electric power up to (kw • Hp)	51.0 • 68.4	65,5 • 87.8	83,4 • 112
Weight (kg • lbs)	52.6 • 115.7	146,5 • 323	170 • 375
Weight stated include thruster, props & bellhousing ONLY.			
Weight of AC motor (typical 120 - 240 kg) comes in addition			
Item Code	**SAC386-xxx/xxx-x**	**SAC513-xxx/xxx-x**	**SAC610-xxx/xxx-x**

More information in the product specific catalogs and on the website:

WWW.SIDE.POWER.COM

CONFIDENCE BY CONTROL

SIDE - POWER Features

- Noise reductions of up to 75% measured in controlled environments
- The expected and tested normal noise reduction in "average installations" 20-40%
- Upgrade kits are available for most "SP" series thrusters with special adaptors

- 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.

The thruster gear leg is filled with oil from a remote reservoir located above the waterline. This generates overpressure, making an effective seal against water intrusion in the gear leg.

- Separate oil reservoir placed above the waterline.
- Allows easy access for oil changes
- Having the advantage to be able to change oil in units used commercially, with hundreds of running hours per year.

Sealed gear leg with long-life "mechanical" seal where highly polished ceramic and carbon surfaces form the only moving sealing surfaces, ensuring protection against damaging water intrusion into the gear leg. Pre-filled with special gear oil for lifetime lubrication.

- "Mechanical" seals with surfaces of ceramic and carbon for ultimate security against water intrusion

SINGLE PROPELLER:
A properly engineered single propeller system will be the most energy efficient thruster. Its compact design fits easily into narrow bows making it the perfect match for our smaller models. With more than 60.000 single propeller thrusters in use, the Sidepower single series system has proven its reliability.

TWIN PROPELLERS:
The twin propeller system can give more thrust than a single propeller system in the same tunnel diameter. This is our choice for our mid-range models where high thrust is required in a small tunnel diameter. Due to the compact design and high performance, the twin models have become the thrusters of choice among boat builders around the world.

TWIN COUNTER ROTATING PROPELLERS:
Two counter-rotating propellers can give the most thrust at a good performance ratio in a minimal tunnel diameter. This system is used in our larger thrusters for maximum power. The TC models are the favourite thrusters among leading boatbuilders for their high-end yachts.

The gearhouse / drive legs of most Side-Power DC Electric thrusters are now fully galvanically isolated / separated from the electric motor and motor bracket. This ensures that even if there is an accidental short circuit or a current leak for other reasons, the immersed parts are not effected as they could be with direct electric contact.

To provide reliable and safe thruster installations in more boats, we offer modified versions of our DC electric thrusters in watertight housings for use in stern and other locations that may get wet or be exposed to gasoline fumes. These thrusters are fully ignition protected (ISO 8846) for use in boats with gasoline engines. They have a hermetically sealed composite housing around all electric parts. This provides the ignition protection as no gasoline fumes can enter and be ignited by sparks.

The other advantage is that the electric parts that could be damaged by water are also covered and protected, making these thrusters the ideal choice for other stern thruster installations where it is difficult to ensure that the thruster will always remain dry.

S-LINK:
S-link is a "CAN" based control system with full intelligent communication between all units in the system, much like a computer network.

Main advantages include:
- Round, compact and waterproof plugs with unique keying and color coding to avoid faulty hookup
- Unlimited number of commands or information transfer on a single cable
- User feedback at panel
- Intelligent troubleshooting.

DC SPEED CONTROL:
A DC Speed Control system contains three main elements - proportional control panels, a power control unit and a DC electric thruster - all tied together with the new S-link control system. The thrusters used in a speed control system is almost identical to the familiar SE range of DC thrusters, the only difference being the addition of a temperature sensor and a new electronic control box. All mechanical and main electric parts are from the well proven thruster range produced by Side-Power for many years. All 12 & 24 volt DC electric thrusters produced by Side-Power can be enabled for DC Speed Control by authorized Side-Power service personnel, even the oldest models.

Worldwide sales and service

Please check our website for your closest dealer

www.side-power.com

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N-1612 Fredrikstad, Norway
Tel: +47 69 30 00 60
Fax: +47 69 30 00 70

Control Panels

Sidepower offers a unique series of «smart» control panels, an important part of a thruster system. Choose between our compact touch button, the popular joystick controls, the «docking» control panel with the most intuitive thruster control ever or the new exclusive round panel. Why not try the radio remote control for full mobility onboard, being the perfect tool for shorthanded boating. Radio linked panels are also an option. Mix or match, the choice is yours!

Easy installation
- round cut-out hole (std.instrument size)
- installs from front side
- pre-fitted O-ring seal
- multi-voltage (12 & 24V)

Safety
- child-safe on / off system
- power / control light
- automatic deactivation
- easy operation

Quality
- waterproof (IP65-front)
- UV safe
- CE -approved

Design
- compact size
- modern styling
- no visible screw heads

Touch panels
The compact and flush design keeps smaller dashboards tidy and prevents ropes from snagging on sailboats.

	Touch panel	Round touch panel
H (mm • in)	70 • 2.76	-
W (mm • in)	70 • 2.76	Ø86.5
Item code (12 & 24V)	**8950**	**8955**

Joystick panel
Our most popular model that provides a comfortable and user friendly control of the bow thruster.

	Joystick panel	Boat switch panel
H (mm • in)	70 • 2.76	-
W (mm • in)	70 • 2.76	Ø86.5
Item code (12 & 24V)	**8960**	**8965**

Boat switch panel
The boat switch panel have the advantage of being as user friendly as the joystick panel while still being very low and designed so that ropes or clothing do not snag, a more user friendly solution for sailboats than the traditionally used touch panels.

Dual joystick panel
The professional choice when having two thrusters is this space saving dual joystick panel. Easy control of both bow and stern thruster with just one hand.

	Dual Joystick panel	Docking panel
H (mm • in)	120 • 4.72	120 • 4.72
W (mm • in)	70 • 2.76	70 • 2.76
Item code (12 & 24V)	**8940**	**8909**

Docking panel
The docking panel is a revolutionary concept in thruster control. It provides intuitive control of bow and stern thrusters by simply moving the boat shaped switch the way you want your boat to move (patented).

Handheld radio remotes
A radio remote control makes your thruster system even more helpful around the docks. Providing full simultanous control of a bow and a stern thruster or a bow thruster and a windlass, making shorthanded boating much easier.

	Radio remotes
H (mm • in)	95 • 3.74 (transmitter)
W (mm • in)	48 • 1.89 (transmitter)
	Item code:
Radio remote set (bow + stern thruster) / Radio remote set (bow thruster + windlass)	**8980 / 8985**
Extra transmitter (bow + stern thruster) / Extra transmitter (bow thruster + windlass)	**8981 / 8986**

Additional control panels
For more information about specialized control panels for hydraulic thruster systems, please refer to the main Side-Power catalog, the Hydraulic Systems brochure or our website:

www.side-power.com

Confidence by Control
SIDE-POWER.com

DC Speed Control

With many boat customers now having had several boats with thrusters, many choose to upgrade to more powerful versions to be sure that the thrusters work well for them in all situations. However, very powerful single speed thrusters can, in light weather conditions, be a bit difficult to use as they push the boat too fast. The solution is to fit the new Side-Power DC Power Controller which enables proportional speed control of a DC electric thruster. By also controlling the thruster's power, you get even more precise handling of the boat in all conditions.

Another great advantage is that when you run the thruster at less than full power, the usable run time is extended, with close to continuous usage being possible when you are running the thruster at less than 50% of full power (percentage of thrust with continuous duty depending on thruster model).

The extended runtime is put to good use in the Hold-function incorporated in the new panels. With a single press of a button, the bow and stern thrusters will keep you alongside the docks. The amount of thrust applied can be adjusted, and in addition the bow and stern thruster can be individually syncronized to get a balanced sideways motion - making singlehanded docking easy!

PJC 211/212 SINGLE/DUAL SPEED CONTROL PANEL
- Plug and play S-link control cable wiring
- Finger tip control with purpose designed joysticks
- Hold - function (PJC-212 Dual Joystick only) for easy docking, runs thrusters at selected power
- Back-lit LCD display with instant feedback
  - System status
  - Amount of thrust & direction of thrust
  - Thruster temperature/remaining run time
  - Battery status
  - Selectable LCD colour & level for both night and day
- Interactive multi-language menus
- Diagnostics via panel
- Built-in audible alarm "buzzer"
- Connector for external "buzzer"/loud audible alarms

Item code (12 & 24V) Dual joystick PJC-211
Single joystick PJC-212

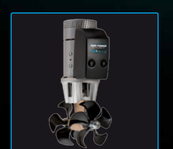
PPC 800 DC SPEED CONTROLLER
- Plug and play S-link control cable wiring
- Easy to access, solid main cable terminals
- Easy to place as it can be located anywhere between the batteries and the thruster, also in areas requiring ignition protected parts
- Reliable solid state switching
- Thermal and overcurrent protection
- Active cooling for continuous usage

Item code (12 & 24V) PPC-800

Thruster for DC Speed Control
- Any Side-Power 12/24 Volt DC Electric thruster can be upgraded to DC Power Control specification
- Temperature monitoring through PPC800
- Increased directional solenoid lifetime because the solenoids will not switch with load
- IPC intelligence for extra safety

Accessories

For more information about thruster accessories, please refer to our main catalog or our website: **www. side-power.com**



NO COMPROMISE

SIDE-POWER PRODUCT RANGE
2012

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