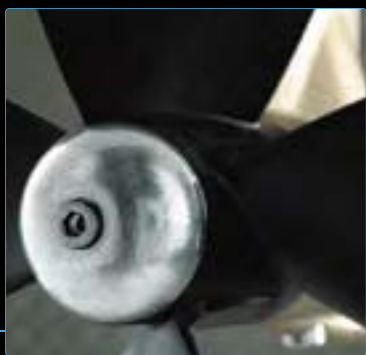


SIDE-POWER

Thruster systems

CONFIDENCE
BY
CONTROL

2006/07





SHE'S GOT THE POWER



SIDE-POWER THRUSTER SYSTEMS

CONFIDENCE BY CONTROL

WHY A THRUSTER?

It makes docking easy

As marinas get smaller and slips get tighter, safely docking a boat is more challenging than ever before. Thrusters give you total control of your boat and allow you to maneuver into and out of tight spots with ease.

Confidence in all conditions

Boating is meant to be fun. Why end your day or week on the water with a stressful experience? A Sidepower thruster offers the help you need to be in full control when docking and departing regardless of wind conditions and currents.

Simple shorthanded boating

A thruster makes you less dependent on skilled crew. The independence a thruster provides will allow you to use your boat whenever you want, whether alone or with others.

"There are two types of boaters: those who have a bow thruster and those who wish they did!"

- Eric Vader -
World Boater



INDEX

Why a thruster	3
Thr boatbuilder's choice	5
The difference is in the details	7
Thruster sizing	9
Total control	11
High safety	13
SidePower benefits	15
Hydraulic thruster systems	17
S2i series thrusters	19
Ti series thrusters	21
TCi series thrusters	23
IP series thrusters	25
HYD series thrusters	27
Control panels	28
Accessories	30



THEY'VE GOT THE POWER



SIDE-POWER THRUSTER SYSTEMS

CONFIDENCE BY CONTROL

SIDE-POWER

- the boatbuilder's choice

Leading boatbuilders all over the world are choosing Sidepower for performance, reliability, ease of installation and unrivalled safety features. This commitment to quality and product development has made the Sidepower range of thrusters the high-end benchmark in the industry.

Performance

The high performance of a Sidepower thruster is a result of our continuous efforts in product development and testing.

- propulsion technology know-how
- lightweight composite propellers
- purpose-built high power electric motors
- streamlined gearhouse design

Installation

Based on our experience and co-operation with major boatbuilders we have designed our systems to ensure it is easy to install a Sidepower thruster correctly.

- compact-sized units
- "Plug &Go" electric wiring
- easily accessible battery cable terminals
- easy installation of control panel
- fast and safe propeller mounting with locknut
- professional and solid GRP stern thruster kits
- easy access zinc anodes

Safety & Reliability

The safety of the boat and those on board is our utmost priority. All Sidepower thrusters include standard features that protect against operator errors and technical problems, minimizing potential consequences. Sidepower thrusters are purpose built for professional use with no compromise on quality.

- overheat protection of electric motor
- mechanical protection of drive gear
- self-locking "high pressure" contacts
- extra wear and heat protection of internal wires
- non conductive and self extinguishing solenoid covers
- control panels have child safe On/Off (instant On) and automatic deactivation timed from last use
- in-house manufacturing, assembly and quality control
- 2-year limited warranty



Intelligent Power Control

All DC electric Sidepower thrusters have the revolutionary Intelligent Power Control (IPC) function that automatically safeguard against inherent risks associated with any DC electric thrusters. The new micro-processor control, standard in all Sidepower electric thrusters, is now upgraded with the unique IPC functions that automatically protect the boat, crew and passengers against most potential consequences of a possible thruster failure. Make sure when you have a thruster installed, that it has the IPC functions.

- Reduces solenoid wear and risk of lock-in by continuously monitoring the solenoids
- If a lock-in situation should occur the IPC function will shut down the thruster



THIS IS THE POWER



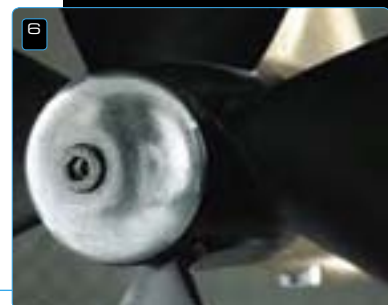
SIDE-POWER THRUSTER SYSTEMS

CONFIDENCE BY CONTROL

THE DIFFERENCE

is in the details

- 1 Compact sized and modern styled control panels with hidden screw heads.
- 2 The round cut-out hole, the pre-fitted O-ring seal and easy front mount with hidden screws ensures fast and flawless installation.
- 3 Sidepower thrusters come standard with an integrated processor, protecting the unit against operator errors and technical problems.
- 4 Lightweight, sturdy and non-corrosive, composite propellers are perfect for thrusters of all sizes.
- 5 Sidepower developed electric motors for maximum performance and efficiency in real-life onboard conditions. Details increasing safety and ease of installation are standard.
- 6 Sidepower's zinc anodes are outside the propellers for easy access and replacement.
- 7 Machined and assembled to perfect tolerances, using high end purpose made components ensures extended lifetime for professional use.
- 8 The child safe on/off system minimizes the risk of accidental or unintentional operation.
- 9 While other joysticks might appear similar, the unique Sidepower joysticks are made of fully UV protected silicon based rubber to ensure long term reliability.
- 10 Hardened spiral-cut gears for extended lifetime, low noise and more compact gearhouse design.





YOU'VE GOT THE POWER



SIDE-POWER THRUSTER SYSTEMS

CONFIDENCE BY CONTROL

THRUSTER SIZING

By definition, any thruster will to some extent do a job in any boat. The key is to ensure that the chosen thruster will do the job you want it to in your boat. This is one of two main factors deciding the right thruster size for each boat.

Today most pleasure craft over 45' have a bow thruster as standard equipment which normally will meet the expectations of most customers when using the boat under normal weather conditions. The sizes used by the boatbuilders will vary depending on the boat's intended usage and price level. In today's production boats of around 45'-50', the typical thruster will push the boat's bow against a direct sidewind of 20-22 knots.

Some custom built or very high end boats may have a high power bow thruster that pushes the bow against a direct sidewind of 24-26 knots.

For boatowners that use their boats in more demanding conditions or have for example a strong current in their local marina, or for other reasons require very high performance, many boatbuilders offer upgrades to a more powerful thruster system. However, few pleasure crafts need a thruster that can push the bow against a direct sidewind of more than 25-27 knots.

The thruster's performance on a boat is basically determined by the boat's wind area, the wind area distribution and the thruster's tunnel position in the hull. By knowing these factors we can calculate the wind pressure on the boat and the centre point of this wind pressure. From these calculations we can determine what thrust is needed to counter the wind pressure with the given thruster position. The boat weight is normally not a major factor for most pleasure craft.

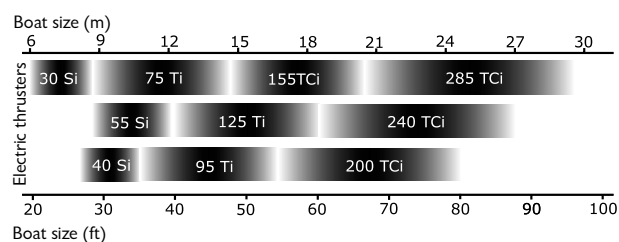
Conclusion

The two main factors that decide correct thruster sizing are:

- boatowner's performance requirements
- boat size, type and shape

The example below shows the different wind speeds that two different thruster installations can counter and the increased leverage gained when the thruster is positioned further forward.

Typical sizing chart for recreational craft



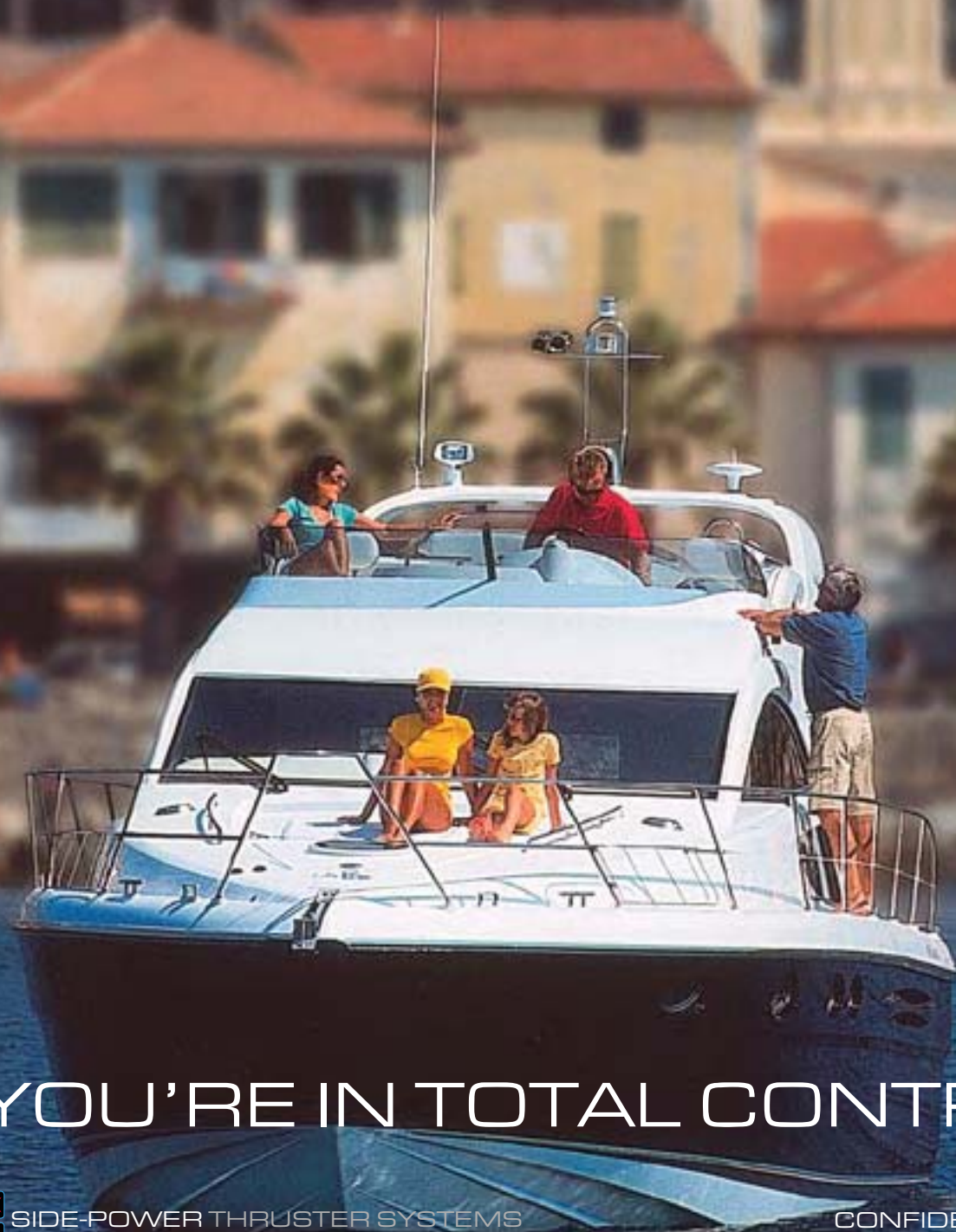
Thruster model	SP125Ti	SP155TCi
Thruster position A	21,2 kn	23,9 kn
Thruster position B	22,4 kn	25,2 kn



S (Single) 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 50.000 thrusters in use around the world, the Sidepower single series system has proven its reliability.

T (Twin) 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.

TC (Twin Counter Rotating) 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 SP 285 TC is a cost effective alternative to hydraulic thruster systems.



YOU'RE IN TOTAL CONTROL



SIDE-POWER THRUSTER SYSTEMS

CONFIDENCE BY CONTROL

TOTAL CONTROL

with a bow- and stern thruster

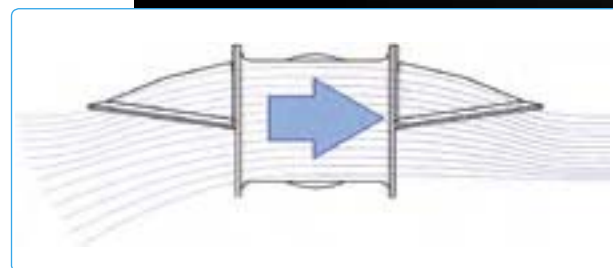
Even with twin engines and a bow thruster you may not always have full control of the boat when docking or maneuver at slow speeds. Engaging the propellers usually results in sudden movements, making such use of the engines difficult to control.

The solution is to install a stern thruster to gain total control of your boat. The Sidepower dual joystick panel and docking panel provides control of both thrusters with just one hand.

A stern thruster consists of a standard Sidepower mounted in a special tunnel fixed onto the transom of the boat, either by bolts or bonding. These tunnels are designed to enhance the performance of the thruster, and the fibreglass construction makes them extremely strong and durable.

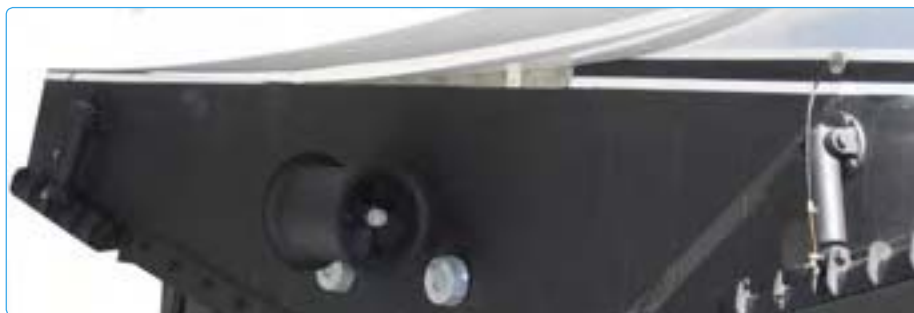
The complete installation is very easy and meets the same high standards of a Sidepower bow thruster installation.

Stern thruster kits are available to suit boats from 22ft up to the superyacht size.



Add-on cowls

Sidepower offers add-on cowls for the sternthruster tunnels. These are effective to redirect waterflow away from other obstructions (tribtabs, outdrives etc.) on the transom, and they enable installation on shallow draft sterns.





HE'S GOT THE POWER



SIDE-POWER THRUSTER SYSTEMS

CONFIDENCE BY CONTROL

HIGH SAFETY

with IP Thrusters

Side-Power have for several years manufactured Ignition protected versions of the SP75T and SP95T thruster models. Now the second generation is here with added features, more models and reduced prices.

High safety standards

To make sure that all boats can have a stern thruster we are now offering special versions of our SP40S2i, SP55S2i, SP75Ti and SP95Ti. These thrusters that are fully ignition protected (ISO 8846) for use in boats with gasoline engines. Since these are totally gas and waterproof they can also be fitted in boats when the stern area is difficult to keep dry.

Ignition Protected Features

- Certified to ISO 8846 Ignition Protected standard
- Water Proof (not for submerged mounting)
- Stainless cable seals
- Supplied with 1 m/3.28 ft main power cables and termination blocks for easy and safe installation
- Supplied with 10 m/32.8 ft control cable and connector for connection outside explosive area
- Ignition protected housing still retains serviceability for inside components





CONFIDENCE BY CONTROL



SIDE-POWER THRUSTER SYSTEMS

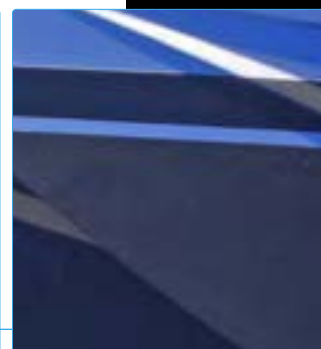
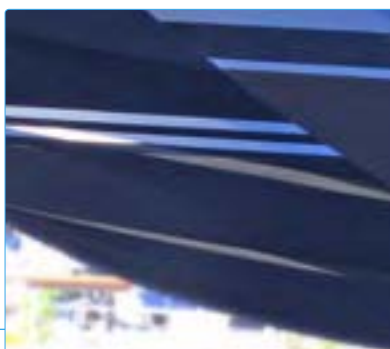
CONFIDENCE BY CONTROL

BENEFITS

	safety	lifetime & reliability	better performance	easy installation	easy service
Control panels with child safe on/off and time lapse auto-off prevents accidental or unintentional operation	✓				
Self re-setting overheat protection automatically stops the thruster before overheating	✓	✓			
Intelligent direction change delay simplifies operation and prevents damage from misuse	✓	✓			
Control system only accepts continuous run signal for 3 min. User warning before overheat protection activates	✓	✓			
Sidepower-developed special solenoid contactors ensures correct function and maximum lifetime in a boat	✓	✓	✓		
Closed solenoid contacts prevents dust from getting into the contacts	✓	✓		✓	
External main power terminals ensures fast, easy and safe connection of heavy power cables	✓			✓	✓
GRP tunnels are purpose built for thruster applications are precise, strong, and protected against osmosis		✓	✓	✓	
Lightweight composite propellers on all thrusters are strong yet lightweight, and always perfectly shaped for power and less noise		✓	✓		
Lock nut fastening of propellers provides easy and reliable fitting of the propellers		✓		✓	✓
All panels, thrusters and accessories have "Plug & Go" wiring for easy, correct and reliable wiring		✓		✓	✓
Zinc anodes outside propellers makes them easy to access and change without having to remove propellers		✓		✓	✓
Electromotors designed and rated for actual voltage in boat ensures correct performance and efficiency in real life conditions		✓	✓		
Gearleg with oil-bath lubrication with oil tank inside boat makes overpressure of oil in gearleg, which helps the seals to ensure that water stays out		✓	✓		
Hardened spiral-cut gears gives you extended lifetime, low noise and more compact gearhouse design		✓	✓		
All bearing and sealing surfaces machined in CNC machines ensures correct tolerances, surfaces and angles		✓	✓		
Slim, hydrodynamically shaped gearlegs minimize resistance and possibility for cavitation			✓		
Standard integrated processor gives you protection against technical problems and operator errors (please see p. 4)	✓	✓			
Intelligent Power Control (IPC) automatically safeguard against inherent risks in high-voltage equipment.	✓	✓	✓		✓



Use this chart to get a clear overview of which advantages the benefits of a SidePower Thruster system gives you!





FEEL THE FLOW



SIDE-POWER THRUSTER SYSTEMS

CONFIDENCE BY CONTROL

HYDRAULIC thruster systems

There is a limit to the power you can practically generate with DC electrical systems, so for super yachts and other larger heavier vessels DC thrusters are rarely an option.

The greater thrust and extended run time make hydraulic thrusters the ideal choice for commercial crafts and other less maneuverable yachts. In conjunction with a good hydraulic system these thrusters offer continuous operation and you can get variable speed control with proportional control and valves.

With models from 100 to 550kg of thrust for use as either bow or stern thrusters, Sidepower 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 hydraulic system brochure or ask your dealer for details.



Complete hydraulic systems

Increasing the focus on larger systems, Sidepower now also offers integrated hydraulic systems for marine use. These systems efficiently support up to nine pieces of hydraulic equipment, including a bow and a stern thruster. They are designed to ensure simple and high quality installations with pre-fitted, high-end components directly on the stainless steel tank. Sidepower hydraulic systems are designed and manufactured for ultimate and guaranteed reliability, performance and easy installation.





SP 30 S2i



SP 40 S2i



SP 55 S2i



TECH SPEC

S2i series

ELECTRIC

Single Propeller

Sealed Gearleg

Intelligent Power Control



S (Single) 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 50,000 thrusters in use, the Sidepower single series system has proven its reliability.



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

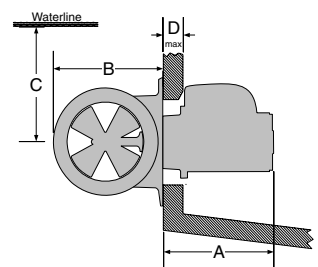
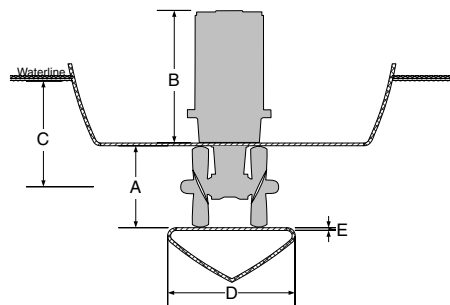
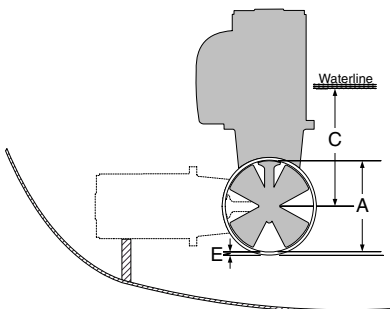


Intelligent Power Control is the intelligent and patented safety functions now included on all Sidepower DC electric thrusters.

Model	SP 30 S2i	SP 40 S2i	SP55 S2i
Thrust at 10.5V/21V* (kg ■ lbs)	30 ■ 66	40 ■ 88	55 ■ 121
Thrust at 12V/24V* (kg ■ lbs)	40 ■ 88	48 ■ 105	65 ■ 143
Typical boat size** (ft ■ m)	20' - 28' ■ 6 - 8.5	26' - 34' ■ 8 - 10.5	29' - 38' ■ 9 - 12
Tunnel I.D. (mm ■ in)	125 ■ 4.92"	125 ■ 4.92"	185 ■ 7.3"
Propulsion system	Single	Single	Single
Power at 10.5V/21V* (kw ■ Hp)	1.5 ■ 2	2.2 ■ 3	3.1 ■ 4
For DC system (V)	12	12	12 ■ 24
Weight (kg ■ lbs)	9.5 ■ 21	10 ■ 22	16 ■ 35
Min. Batt. Cap (CCA)	200	300	350 ■ 175
Item Code 12V	SP30S2i	SP40S2i	SP55S2i12
ItemCode 24V			SP55S2i24

Measurements	SP 30 S2i	SP 40 S2i	SP 55 S2i
A (mm ■ in)	125 ■ 4.92	125 ■ 4.92	185 ■ 7.28
B (mm ■ in)	234 ■ 9.2	234 ■ 9.2	265 ■ 10.4
C min. (mm ■ in)	125 ■ 4.92	125 ■ 4.92	150 ■ 5.91
D (mm ■ in)	92 ■ 3.6	92 ■ 3.6	117 ■ 4.6
D recommended (mm ■ in)	184 ■ 7.25	184 ■ 7.25	234 ■ 9.2
E min. (mm ■ in)	4 ■ 0.16	4 ■ 0.16	4 ■ 0.16
E max. (mm ■ in)	5 ■ 0.20	5 ■ 0.20	6 ■ 0.24

Stern Thrusters (electric)	SP30S2i	SP40 S2i	SP 55 S2i
A (mm ■ in)	196 ■ 7.72	196 ■ 7.72	225 ■ 8.90
B (mm ■ in)	190 ■ 7.48	190 ■ 7.48	256 ■ 10.08
C min. (mm ■ in)	135 ■ 5.31	135 ■ 5.31	150 ■ 5.91
D max. (mm ■ in)	14 ■ 0.55	14 ■ 0.55	35 ■ 1.38
Tunnel length (mm ■ in)	197 ■ 7.76	197 ■ 7.76	337 ■ 13.27
Item code			
Stern thruster kit	90125i	90125i	90052i
Cowls - short model			90075
Cowls - long model			90077





SP 75 Ti



SP 95 Ti



SP 125 Ti



TECH SPEC

Ti series

ELECTRIC Twin Propeller Intelligent Power Control



T (Twin) 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.



The thruster gearleg is filled with oil from a remote reservoir located above the waterline. Overpressure made by gravity ensures a waterproof gearleg and the remote location of the reservoir enables easy oil changes.

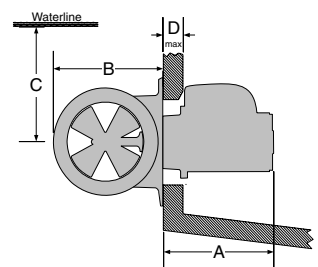
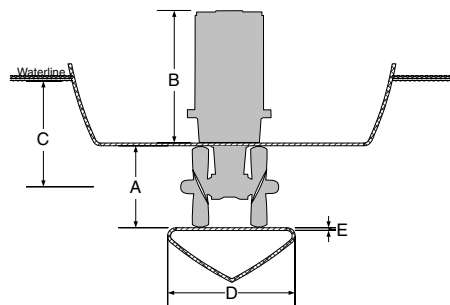
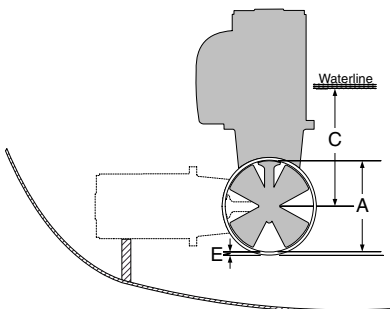


Intelligent Power Control is the intelligent and patented safety functions now included on all Sidepower DC electric thrusters.

Model	SP75 Ti	SP 95 Ti	SP 125 Ti
Thrust at 10.5V/21V* (kg ■ lbs)	75 ■ 165	95 ■ 209	125 ■ 275
Thrust at 12V/24V* (kg ■ lbs)	87 ■ 191	114 ■ 251	155 ■ 341
Typical boat size** (ft ■ m)	35' - 48' ■ 10 - 15	38' - 55' ■ 12 - 17	42' - 62' ■ 13 - 19
Tunnel I.D. (mm ■ in)	185 ■ 7.3"	185 ■ 7.3"	250 ■ 9.8"
Propulsion system	Twin	Twin	Twin
Power at 10.5V/21V* (kw ■ Hp)	4.4 ■ 6	6 ■ 8	6.5 ■ 8.7
For DC system (V)	12 ■ 24	12 ■ 24	12 ■ 24
Weight (kg ■ lbs)	20 ■ 44	31 ■ 68	37 ■ 77
Min. Batt. Cap (CCA)	500 ■ 250	500 ■ 250	500 ■ 250
Item Code 12V	SP75Ti12	SP95Ti12	SP125Ti12
Item Code 24V	SP75Ti24	SP95Ti24	SP125Ti24

Measurements	SP 75 Ti	SP 95 Ti	SP 125 Ti
A (mm ■ in)	185 ■ 7.28	185 ■ 7.28	250 ■ 9.84
B (mm ■ in)	361 ■ 14.21	389 ■ 15.3	398 ■ 15.7
C min. (mm ■ in)	200 ■ 7.87	200 ■ 7.87	230 ■ 9.0
D (mm ■ in)	170 ■ 6.7	170 ■ 6.7	280 ■ 11
D recommended (mm ■ in)	340 ■ 13.4	340 ■ 13.4	560 ■ 22
E min. (mm ■ in)	6 ■ 0.24	6 ■ 0.24	7 ■ 0.28
E max. (mm ■ in)	8 ■ 0.31	8 ■ 0.31	10 ■ 0.39

Stern Thrusters (electric)	SP 75 Ti	SP 95 Ti	SP 125 Ti
A (mm ■ in)	321 ■ 12.64	349 ■ 13.70	359 ■ 14.13
B (mm ■ in)	256 ■ 10.08	256 ■ 10.08	340 ■ 13.39
C min. (mm ■ in)	200 ■ 7.87	200 ■ 7.87	250 ■ 9.84
D max. (mm ■ in)	54 ■ 2.13	54 ■ 2.13	60 ■ 2.36
Tunnel length (mm ■ in)	337 ■ 13.27	337 ■ 13.27	350 ■ 13.78
Item code			
Stern thruster kit	90086i	90086i	90140i
Cowls - short model	90075	90075	—
Cowls - long model	90077	90077	90132



SP 155 TCi



SP 200 TCi



SP 240 TCi



SP 285 TCi



SIDE-POWER THRUSTER SYSTEMS

CONFIDENCE BY CONTROL

TECH SPEC

TCi series

ELECTRIC

Twin Counter rotating Propeller Intelligent Power Control



TC (Twin Counter Rotating) 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 thruster gearleg is filled with oil from a remote reservoir located above the waterline. Overpressure made by gravity ensures a waterproof gearleg and the remote location of the reservoir enables easy oil changes.

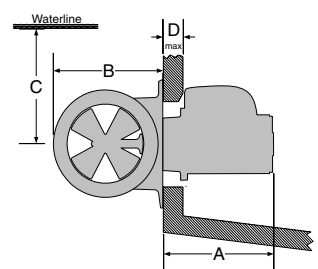
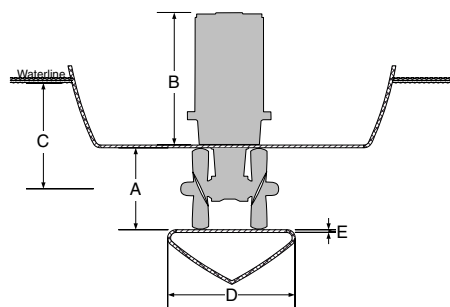
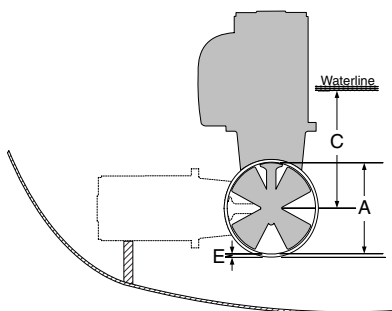


Intelligent Power Control is the intelligent and patented safety functions now included on all Sidepower DC electric thrusters.

Model	SP 155 TCi	SP 200 TCi	SP 240 TCi	SP 285 TCi
Thrust at 10.5V/21V* (kg • lbs)	155 • 341	200 • 440	240 • 528	285 • 627 (at 40V)
Thrust at 12V/24V* (kg • lbs)	195 • 429	230 • 506	300 • 660	340 • 748 (at 46V)
Typical boat size** (ft • m)	50' - 70' • 15 - 22	55' - 78' • 17 - 24	60' - 84' • 18 - 25	74' - 100' • 22 - 30
Tunnel I.D. (mm • in)	250 • 9.8"	250 • 9.8"	300 • 11.8"	300 • 11.8"
Propulsion system	Counter rotating	Counter rotating	Counter rotating	Counter rotating
Power at 10.5V/21V* (kw • Hp)	8 • 10.7	10 • 13.14	11.4 • 15.5	15 • 20
For DC system (V)	24 (12 V Kit avail.)	24 (12 V Kit avail.)	24 (12 V Kit avail.)	24 (48 V motor)
Weight (kg • lbs)	44 • 97	68 • 150	70 • 154	73 • 160
Min. Batt. Cap (CCA)	500	650	700	2x450 - 24V
Item Code 12V				
ItemCode 24V	SPI55TCi	SP200TCi	SP240TCi	SP285TCi

Measurements	SP 155 TCi	SP 200 TCi	SP 240 TCi	SP 285 TCi
A (mm • in)	250 • 9.84	250 • 9.84	300 • 11.81	300 • 11.81
B (mm • in)	421 • 16.6	478 • 18.8	490 • 19.3	455 • 17.90
C min. (mm • in)	250 • 9.84	300 • 11.81	300 • 11.81	300 • 11.81
D (mm • in)	300 • 11.81	300 • 11.81	300 • 11.81	300 • 11.81
D recommended (mm • in)	600 • 23.6	600 • 23.6	600 • 23.6	600 • 23.6
E min. (mm • in)	7 • 0.28	7 • 0.28	10 • 0.39	10 • 0.39
E max. (mm • in)	10 • 0.39	13 • 0.51	10 • 0.39	13 • 0.517

Stern Thrusters (TCi)	SP 155 TCi	SP 200 TCi	SP 240 TCi	SP 285 TCi
A (mm • in)	382 • 15.04	420 • 16.54	441 • 17.36	406 • 15.98
B (mm • in)	340 • 13.39	360 • 14.20	420 • 16.54	420 • 16.54
C min. (mm • in)	250 • 9.84	300 • 11.81	300 • 11.81	300 • 11.81
D max. (mm • in)	60 • 2.36	50 • 1.97	60 • 2.36	60 • 2.36
Tunnel length (mm • in)	350 • 13.78	456 • 17.95	456 • 17.95	456 • 17.95
Item code				
Stern thruster kit	90140i	90180i	90200i	90200i
Cowls - short model	-	-	-	-
Cowls - long model	90132	90132	-	-



SP 40 S2i IP



SP 55 S2i IP



SP 75 Ti IP



SP 95 Ti IP



SIDE-POWER THRUSTER SYSTEMS

CONFIDENCE BY CONTROL

TECH SPEC

IP series

ELECTRIC

Single or Twin Propeller
Intelligent Power Control
Ignition Protected



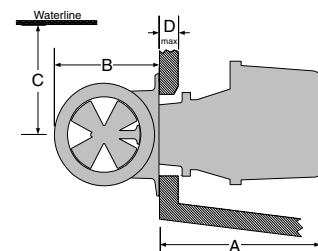
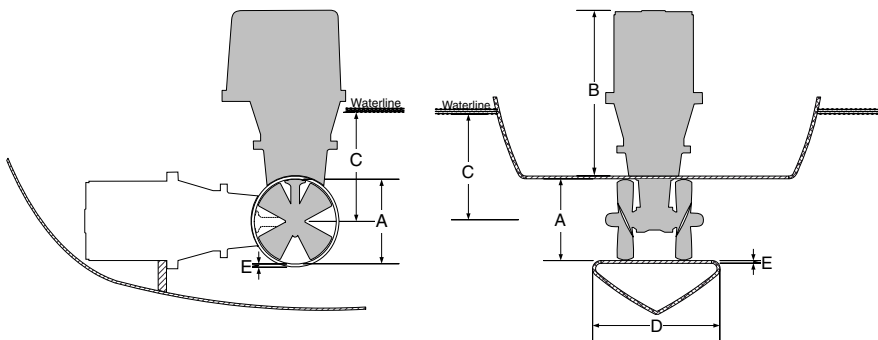
The Side-Power IP series thrusters are especially designed for use as stern thrusters in petrol/gasoline driven boats. The unique Ignition Protected design also make them very suitable for installation as stern thrusters where a high degree of water protection is often necessary.

All thrusters in the IP series meets the ISO 8846 standard for ignition protection.

Model	SP 40 S2i IP	SP55 S2i IP	SP 75 Ti IP	SP 95 Ti IP
Thrust at 10.5V/ 21V* (kg • lbs)	40 • 88	55 • 121	75 • 165	95 • 209
Thrust at 12V/ 24V* (kg • lbs)	48 • 105	65 • 143	87 • 191	114 • 251
Typical boat size** (ft • m)	26' - 34' • 8 - 10.5	29' - 38' • 9 - 12	35' - 48' • 10 - 15	38' - 55' • 12 - 17
Tunnel I.D. (mm • in)	125 • 4.92"	185 • 7.3"	185 • 7.3"	185 • 7.3"
Propulsion system	Single	Single	Twin	Twin
Power at 10.5V/ 21V* (kw • Hp)	2.2 • 3	3.1 • 4	4.4 • 6	6 • 8
For DC system (V)	12	12 • 24	12 • 24	12 • 24
Weight (kg • lbs)	10 • 22	16 • 35	20 • 44	31 • 68
Min. Batt. Cap (CCA)	300	350 • 175	500 • 250	700 • 350
Item Code 12V	SP40S2i	SP55S2iIP12	SP75TiIP12	SP95TiIP12
ItemCode 24V		SP55S2iIP24	SP75TiIP24	SP95TiIP24

Measurements	SP 40 S2i IP	SP 55 S2i IP	SP 75 Ti IP	SP 95 Ti IP
A (mm • in)	125 • 4.92	185 • 7.28	185 • 7.28	185 • 7.28
B (mm • in)	234 • 9.2	265 • 10.4	361 • 14.2	389 • 15.3
C min. (mm • in)	125 • 4.92	150 • 5.91	200 • 7.87	200 • 7.8
D (mm • in)	92 • 3.6	117 • 4.61	170 • 6.7	170 • 6.7
D recommended (mm • in)	184 • 7.25	234 • 9.2	340 • 13.4	340 • 13.4
E min. (mm • in)	4 • 0.16	4 • 0.16	6 • 0.24	6 • 0.24
E max. (mm • in)	5 • 0.20	6 • 0.24	8 • 0.31	8 • 0.31

Stern Thrusters for:	SP40 S2i IP	SP 55 S2i IP	SP 75 Ti IP	SP 95 Ti IP
A (mm • in)	220 • 8.66	265 • 10.43	399 • 15.70	407 • 16.02
B (mm • in)	190 • 7.48	256 • 10.08	256 • 10.08	256 • 10.08
C min. (mm • in)	35 • 5.31	150 • 5.91	200 • 7.87	200 • 7.87
D max. (mm • in)	14 • 0.55	35 • 1.38	54 • 2.13	54 • 2.13
Tunnel length (mm • in)	197 • 7.76	337 • 13.27	337 • 13.27	337 • 13.27
Item code				
Stern thruster kit	90125i	90052i	90086i	90086
Cowls - short model		90075	90075	90075
Cowls - long model		90077	90077	90077



SP 100 HYD



SP 220 HYD



SP 300 HYD



SP 550 HYD



SIDE-POWER THRUSTER SYSTEMS

CONFIDENCE BY CONTROL

TECH SPEC

HYD series

HYDRAULIC

Twin or Twin Counter rotating Propeller

A hydraulic thruster is the natural choice when extensive thruster usage or long run cycles are required. We design our hydraulic systems with the style needed for pleasure craft and the reliability necessary for commercial use.

Model	SP 100 HYD	SP 220 HYD	SP 300 HYD	SP 550 HYD
Light duty thrust up to (kg · lbs)	100 · 220	220 · 484	300 · 660	550 · 1210
Heavy duty thrust up to (kg · lbs)	80 · 176	200 · 440	270 · 594	500 · 1100
Typical yacht size* (m · ft)	9-16 · 30-54	13-23 · 42-75	17-31 · 55-100	23-44 · 76-145
Propulsion system	Twin	Counter rotating	Counter rotating	Counter rotating
Hydraulic power up to (kw · Hp)**	8.2 · 11.0	17.7 · 23.7	20.6 · 27.6	51.0 · 68.4
Propeller output up to (kw · Hp)	6.9 · 9.3	14.9 · 20.0	17.4 · 23.3	42.9 · 57.5
Weight (kg · lbs)	9.0 · 19.8	15.9 · 35.0	19.5 · 42.9	52.6 · 115.7
				42.1 · 92.6***

* This indicates average boat size only. Please find more information on hydraulic thruster sizing in the separate hydraulic brochure or consult your Sidepower dealer to ensure that you get the correct thruster size for your boat.

** most hydraulic thrusters are rated at their necessary hydraulic power supply

*** with aluminium gearhouse

Measurements	SP 100 HYD	SP 220 HYD	SP 300 HYD	SP 550 HYD
A (mm · in)	185 · 7.28	250 · 9.84	300 · 11.8	386 · 15.2
B* min. (mm · in)	194 · 7.64	213 · 8.38	220 · 8.66	292 · 11.5
B* max. (mm · in)	212 · 8.34	230 · 9.05	244 · 9.61	372 · 14.65
C min. (mm · in)	200 · 7.87	250 · 9.84	300 · 11.8	380 · 15.0
D (mm · in)	170 · 6.70	300 · 11.8	300 · 11.8	500 · 19.7
D recommended (mm · in)	340 · 13.4	600 · 23.6	600 · 23.6	750 · 29.5
E min. (mm · in)	6 · 0.24	7 · 0.28	10 · 0.39	10 · 0.39
E max. (mm · in)	8 · 0.31	10 · 0.39	13 · 0.51	15 · 0.59

*depends on choice of hydraulic motor

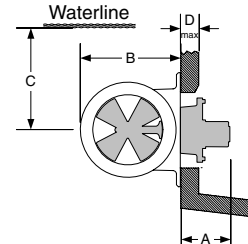
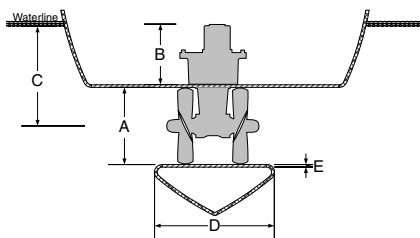
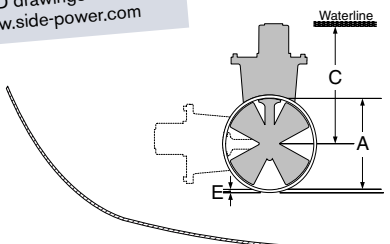
Stern Thrusters	SP 100 HYD	SP 220 HYD	SP 300 HYD	SP 550 HYD
A* (mm · in)	172 · 6.72	191 · 7.52	195 · 7.68	257 · 10.12
B (mm · in)	256 · 10.08	340 · 13.39	420 · 16.54	540 · 21.25
C min. (mm · in)	150 · 5.91	250 · 9.84	300 · 11.81	380 · 15.00
D max. (mm · in)	35 · 1.38	60 · 2.36	60 · 2.36	
Tunnel length (mm · in)	337 · 13.27	350 · 13.78	456 · 17.95	550 · 21.65

Item code

Stern thruster kit	90086i	90140i	90200i	90550
Cowls - short model	90075	-	-	-
Cowls - long model	90077	90132	90220	-

*depends on choice of hydraulic motor

CAD drawings available at
www.side-power.com



CONTROL systems

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 is 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)

Design

- compact size
- modern styling
- no visible screw heads

Safety

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

Quality

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

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	8909 A

Joystick/Boat switch panels

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)	8950	8955

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.

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 (patents pending).

	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 A

Hydraulic info panel

To ensure that also single speed hydraulic thruster systems have a maximum level of safety we have developed a hydraulic info panel. This panel includes both a visual and audile alarm for oil level and oil temperature and also has an emergency stop that shuts down the pump function in a Sidepower hydraulic system.

	Info panel
H (mm • in)	70 • 2.76
W (mm • in)	70 • 2.76
Item code (12V/ 24V)	8980-12V/8980-24V



Handheld radio remotes

A radio remote control makes your thruster system even more helpful around the docks. Providing full simultaneous 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

Proportional control panels

Proportional thruster control allows you to control the actual power of your thruster. This is important for vessels that use thrusters for more than just docking manoeuvres and vessels with a very powerful thruster system. You will not have to run at full power thereby creating rough movements of the vessel in light wind conditions or similar.

Proportional control panels for hydraulic thrusters

Sidepower offer two types of proportional control panels, both are available for single and dual hydraulic thrusters.

- full speed control of the thruster(s)
- control light
- warning lights and audible alarm for oil level and temperature
- emergency stop
- waterproof from front (IP65)
- “Plug & Go” wiring in panel ends

“Yacht” version panels

The yacht version panels are primarily designed for use in pleasure craft.

- compact size for easy positioning
- low profile proportional joysticks
- rubber grip on joystick(s) for comfortable and safe operation

“Pro” version panels

The pro panels are designed for use on both leisure and commercial vessels.

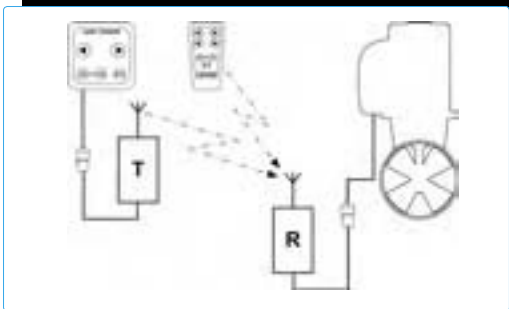
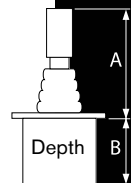
- joysticks are lockable in running position at any speed setting for continuous thrust
- entire panel waterproof (IP65)

	Yacht Single	Yacht Dual	Pro Single	Pro Dual
Height (mm • in)	71 • 2.80	122 • 4.80	125 • 4.92	206 • 8.11
Width (mm • in)	71 • 2.80	71 • 2.80	106 • 4.17	106 • 4.17
Depth (mm • in) A/B	60 • 2.36/42 • 1.65	60 • 2.36/42 • 1.65	115 • 4.43/100 • 3.94	115 • 4.43/100 • 3.94
Item code (12 V)	895112-S	895112-D	896112-S	896112-D
Item code (24 V)	895124-S	895124-D	896124-S	896124-D

Radio link for control panels

The radio link eliminates the need for difficult cable runs between control panel(s) and thruster. Consisting of a transmitter box, that connects to a control panel and a remote control receiver that plugs into the thruster(s), the receiver accepts up to 4 independent transmitters or hand held radio remotes. The multi-channel system supports two thrusters and can be mixed with hard wired control panels. Full Sidepower safety level with child-safe activation and intelligent auto-off, even at the receiver.

	Item codes:
Radio link kit	8970
Extra transmitter unit for radio link kit	8975



ACCESSORIES



Tunnels

GRP tunnels are available in several lengths for each thruster model. They are purpose built for our thrusters and provide ultimate strength, accuracy and osmosis protection to ensure an easy and safe thruster installation. The wall thickness is adapted to each thruster's power and boat size. We also offer a selection of aluminium and steel tunnels.



Stern thruster kits

These transom-mounted tunnels are meticulously designed to enhance the performance of the thruster. Manufactured in fibreglass, they are extremely strong and durable. The complete installation is very easy and meets the high Sidepower standards. The additional cowls make it possible to allow a stern thruster installation in boats with shallow draft or obstructions on the stern.

Ø185mm stern tunnels

Injection mould tunnels with extra safety features; 30% stronger and specific breaking point design. Available for SP55Si, SP75Ti, SP95Ti and SP100HYD.



Control cables

Make sure that the complete installation meets the Sidepower quality standard and take advantage of our "Plug & Go" wiring system by using original control looms. They are available in many different lengths and Y-connectors tie multiple control positions together. Colour coded to match the wiring diagrams with high quality connectors they ensure a correct installation.

	SP30/40 S2i	SP 55 Si	SP 75 Ti	SP 95 Ti	SP 125 Ti
Item code					
Stern thruster kit	90125i	90052i	90086i	90086i	90140i
Cowls - short model		90075	90075	90075	-
Cowls - long model		90077	90077	90077	90132

	SP 155 TCi	SP 200 TCi	SP 240 TCi	SP 285 TCi
Item code				
Stern thruster kit	90140i	90180i	90200i	90200i
Cowls - short model	-	-	-	-
Cowls - long model	90132	90132	-	-

	SP 100 HYD	SP 220 HYD	SP 300 HYD	SP 550 HYD
Item code				
Stern thruster kit	90086i	90140i	90200i	90550
Cowls - short model	90075	-	-	-
Cowls - long model	90077	90132	-	-



Serial-parallel switch box

This switch box enables the installation of 24V thrusters in boats with a 12V system. With an additional 12V battery, you supply 24V for the thrusters operation, while all batteries are charged by your normal 12V system when the thruster is not running. The reliability of this fully automatic system has been proven in hundreds of boats over many years.

To install 24V thrusters in 12V boats (necessary extra battery is not included)

	For SP155TCi	For SP200TCi/SP240TCi
H x W x D (mm)	285 x 265 x 110	285 x 265 x 110
H x W x D (in)	11.2 x 10.4 x 4.3	11.2 x 10.4 x 4.3
Item code	10112A	15112A

Automatic main switch

The most user friendly and safe installation is provided with the automatic main switch/fuse. The main power to the thruster is conveniently controlled by the Sidepower control panel. Added safety is provided by the panel's auto-off and the thrusters overheat sensor, also controlling the main switch. Flexible mounting options, "Plug & Go" wiring, heavy terminals allowing double cables and only one item to fit ensures fast and easy installation.

For Sidepower thrusters (necessary fuse not included)

	12 Volt	24 Volt
H x W x D (mm)	175 x 205 x 140	175 x 205 x 140
H x W x D (in)	6.9 x 8.1 x 5.5	6.9 x 8.1 x 5.5
Item code	897512 A	897524 A

Fuse holder / Fuses

Sidepower manufactures fuse holders that are engineered to minimize voltage drop and heating while saving space. Made for ANL type fuses in high current applications, they accept double cables with heavy terminals. The fuse holder is also available with a protective cover. We supply ANL fuses in sizes to match all of our thrusters.

Item code	Fuse	For thruster
ANL150	150A	SP30S2i / 55Si24
ANL250	250A	SP40S2i / 55Si12 / 75Ti24
ANL325	325A	SP95Ti24 / 125Ti24 / 285TCi
ANL400	400A	SP75Ti12 / 155TCi
ANL500	500A	SP95Ti12 / 125Ti12 / 200TCi / 240TCi
ANLHOLD	Fuseholder for all ANL type fuses	
ANLHOLD-C	Fuseholder incl. clear cover	

Sidepower web site

Visit www.side-power.com for more in-depth information about thrusters and system. New information is posted regularly and it is the source for the most recent specifications. You can download owners manuals, pictures, drawings, movies and other educational material. Here you can also find your local authorized dealer or service centre from our world wide network.





Sleipner Motor AS
P.O. Box 519,
N-1612 Fredrikstad, Norway
Tel: +47 69 30 00 60
Fax: +47 69 30 00 70

Worldwide sales and service



Please check our website for your closest dealer

www.side-power.com



All Sidepower products fulfill the requirements of the relevant CE-directives.

Sleipner Motor AS constantly seek ways of improving specifications, design and production. Thus, alterations take place continuously. Whilst every effort is made to produce up-to-date literature, this brochure should not be regarded as a definitive guide to current specifications, nor does it constitute an offer for the sale of any particular product.



SIDE-POWER THRUSTER SYSTEMS

Your contact