
QS
SEAMASTER

Born from over 25 years' experience in the pleasure boating industry made by two innovative companies (SAIM SpA and Quick SpA), the QS Seamaster bow and stern thrusters represent the most advanced range of products available on the market. A complete line of DC, AC, brushless DC-AC, retractable and hydraulic thrusters from 40 to 1100 Kgf thrust, available both with analogic or digital connection systems, on/off or proportional commands.

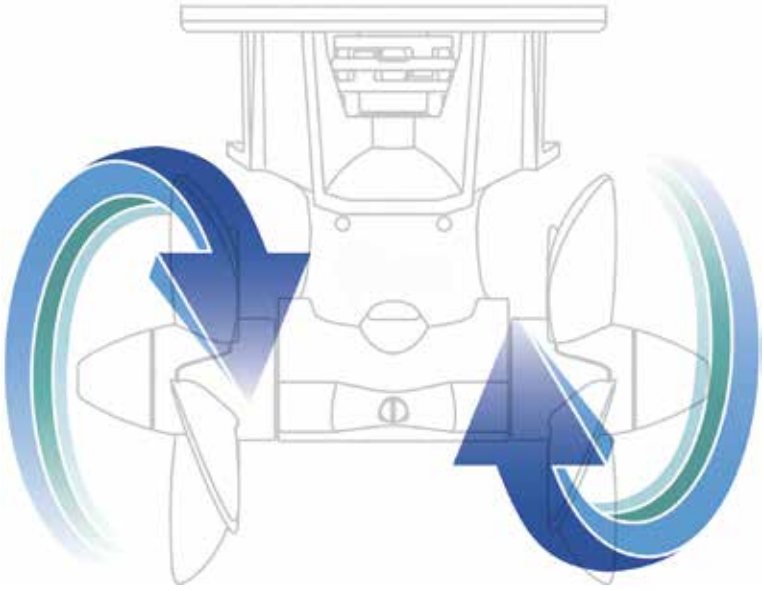
Designed for the most demanding yachtsman, developed together with boatbuilders.

QS Seamaster has developed a complete and advanced line of DC, brushless, AC and hydraulic electric thrusters.
Designed by SAIM Marine, with almost thirty years of experience in supply, assistance, distribution and design of products and systems in the marine business, and built by Quick SPA, a manufacturer of high-tech systems, one of the main players in the nautical industry , manufacturer of innovative and reliable components.
As in the most famous and fascinating industrial collaborations, the aim of this cooperation is to respond to the ever-increasing demand for a technologically advanced product, with superior performance, but also for a sales, assistance and service network developed to offer an experience without stress in and to provide tailor-made solutions.
Built and designed entirely in Italy, the product range includes 40 to 1100 Kgf models for boats and yachts up to 150ft.
QS Seamaster thrusters are available in DC, AC, brushless DC-AC or hydraulic version, for tunnel installation. They are also available in DC version or hydraulic for retractable models.

Mod. QSB 160-250

Technical features

- High efficiency and powerful motors
- Ignition Protected version available (up to 80Kgf)
- Elastic joint with an exclusive design
- Bronze gear leg designed by Quick with a special hydrodynamic profile
- Low maintenance: gear leg guaranteed against oil leaking
- Easily replaceable aluminum anodic protection
- 4 and 5 blade propellers designed specifically to ensure maximum performance and efficiency from each motor. Propellers made of special composite or in NiBrAl. All double propellers are counterrotating.



QS

QS - DC Electric Thruster Range, ON/OFF or Proportional

	QS 40-125	QS 50-140	QS 60-185	QS 80-185	QS 100-185
Thrust (Kgf)	40	50	60	80	100
Boat Lenght (ft)	26 - 34	27 - 37	29 - 38	35 - 48	35 - 55
Boat Lenght (m)	8 - 10.5	8 - 11	9 - 12	10 - 15	12 - 17
Internal tunnel diameter (mm)	125	140	185	185	185
Propeller	Single	Single	Single	Double	Double
Motor power (kW)	2,2	2,4	3	4,3	6,3
Voltage (V)	12	12	12 - 24	12 - 24	12 - 24
Peso (Kg)	10.9	12.2	16.7	17.9	27.5

"QS" DC range thrusters are powered by advanced high-efficiency DC motors. A microprocessor control system is activated in advance in case of motor overheating, avoiding sudden interruptions of the thruster and ensuring its use.

Key features:

- All models can be proportional or transformed into proportional in both analog/digital version with CAN-bus protocol
- All propellers up to the QS80-185 can also be supplied in IP version (Ignition Protection)
- Models with double propellers are counter-rotating

QSB

QSB - DC-AC Brushless Thruster Range, Standard Proportional

	QSB 100-185	QSB 160-250	QSB 300-300
Thrust (Kgf)	105	160	300
Boat Lenght (ft)	35 - 55	50 - 72	70 -100
Boat Lenght (m)	12 - 17	15 - 22	22 - 30
Internal tunnel diameter (mm)	185	250	300
Propeller	Double	Double	Double
Motor power (kW)	6,3	8	15
Voltage (V)	12*- 24	12*- 24	24*- 48
Weight (Kg)	28	44.9	64.1

* With booster for 12V boats or 24V boats (QSB 300)

The QSB range, proportional propellers without brushes or brushless, are equipped with the cutting-edge technology of 12/24/48V brushless electric motors

Key features:

- No carbon brushes.
- Extremely efficient with low operating consumption
- Proportional as standard, with analog or digital controls
- Silent operation
- Unlimited runtime
- Easy to install – Minimized maintenance
- Counter-rotating propellers





QS 130-250	QS 160-250	QS 220-250	QS 250-300	QS 300-300
130	160	220	250	300
42 - 60	44 - 64	55 - 80	60 - 85	70 - 100
13 - 19	15 - 22	17 - 24	18 - 25	22 -30
250	250	250	300	300
Double	Double	Double	Double	Double
6,5	8	10	12	15
12 - 24	24	24	24	48
34.3	35	49	46.7	66.7

In order to have the best control and a total flexibility on each thruster model, the QS DC range is suitable to different types of controls:

- ON/OFF analogic pushbutton or joystick controls
- Analogic proportional joystick controls
- Digital proportional joystick controls (compatible with other systems)

QSA - AC Electric Thruster Range, 3PH, Standard Proportional







QSA

	QSA 240-250	QSA 320-300	QSA 400-300	QSA 520-386	QSA 750-513	QSA 900-513	QSA 1000-513
Continuous Thrust (Kgf)	200	300	350	460	600	750	1000
Maximum Thrust (Kgf)	240	320	400	520	750	900	1100
Boat Lenght (ft)	42 - 75	55 - 100	75 - 110	85 - 140	95 - 145	100 - 150	105 - 165
Boat Lenght (m)	13 - 23	18 - 31	22 - 35	25 - 40	29 - 44	30 - 45	33 - 50
Internal tunnel diameter (mm)	250	300	300	386	513	513	513
Propeller	Double	Double	Double	Double	Double	Double	Double
Motor power (kW)	15	15	22	37	45	55	65
Weight (Kg)	160	167	216	375	495	590	742
Type approval	-	-	RINA	RINA	RINA	RINA	RINA

The AC thruster range, for medium to large vessels, take advantage of the three-phase onboard voltage (230/400).

Key features:

- Unlimited runtime
- Proportional systems as a standard
- Propeller made of special composite or NiBrAl (from QSA300-300)
- RINA Type Approval (from QSA300-300)
- Counter-rotating propellers

QSH

QSH – Hydraulic Thrusters



	QSH 100-185	QSH 220-250	QSH 300-300
Thrust (Kgf)	105	220	300
Boat Lenght (ft)	33 - 60	50 - 76	76 - 100
Boat Lenght (m)	10 - 18	15 - 23	23 - 30
Internal tunnel diameter (mm)	185	250	300
Propeller	Double	Double	Double
Motor power (kW)	8	11.2	20
Weight (Kg)	8.9	17.3	27.6
Type approval	-	-	RINA

The QSH hydraulic thruster range, for medium to large vessels, is one of the most complete on the market. High-quality components and particularly compact and roomy tanks make the QSH range be among the top hydraulic maneuvering systems in the pleasure craft market.

Key features:

- Unlimited runtime
- Proportional as a standard, digital control compatible with other systems
- Composite or NiBrAl propellers (starting from QSH 400-300)
- RINA Type Approval a partire dal modello QSH 300-300
- Counter-rotating propellers
- Power up to 1000 kg/f thrust

QSR

QSR – Retractable Thrusters




	QSR 80-185	QSR 100-185	QSR 160-250	QSR 230-250
Thrust (Kgf)	85	105	160	240
Boat Lenght (ft)	35 - 48	40 - 52	50 - 66	60 - 82
Boat Lenght (m)	10 - 15	12 - 16	15 - 20	18 - 25
Internal Tunnel Diameter (mm)	185	185	250	250
Propeller	Double	Double	Double	Double
Motor power (kW)	4,5	6,3	8	10
Voltage (V)	12 - 24	12 - 24	24	24
Weight (Kg)	37.9 - 40.5	46.5	82	97

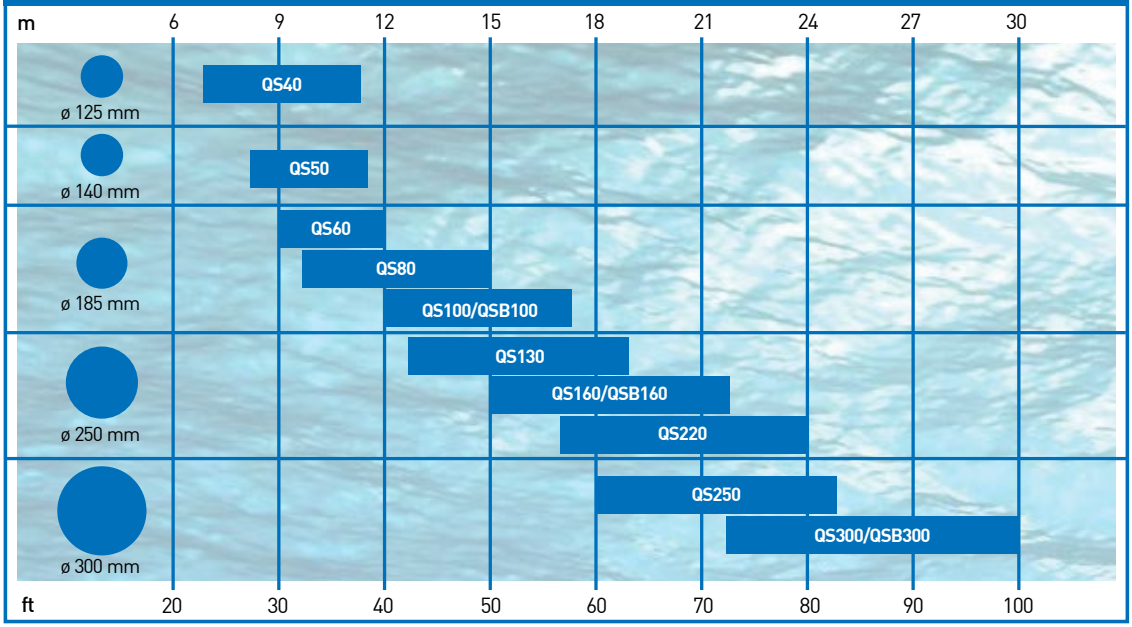
The QSR retractable thrusters can be both DC electric and hydraulic.
Designed to give minimal hydrodynamic turbulences (especially in sailboats applications) the QSR retractable thrusters take advantage of the same technology applied to the other ranges.
In DC version they can be provided in ON/OFF configuration.

QSH 400-300	QSH 450-386	QSH 580-386	QSH 1000-513
400	455	580	1000
82 - 115	89 - 125	92 - 132	100 - 150
25 - 35	27 - 38	28 - 40	30 - 45
300	386	386	513
Double	Double	Double	Double
24	34	41	60
40.8	69	76.7	173
RINA	RINA	RINA	RINA

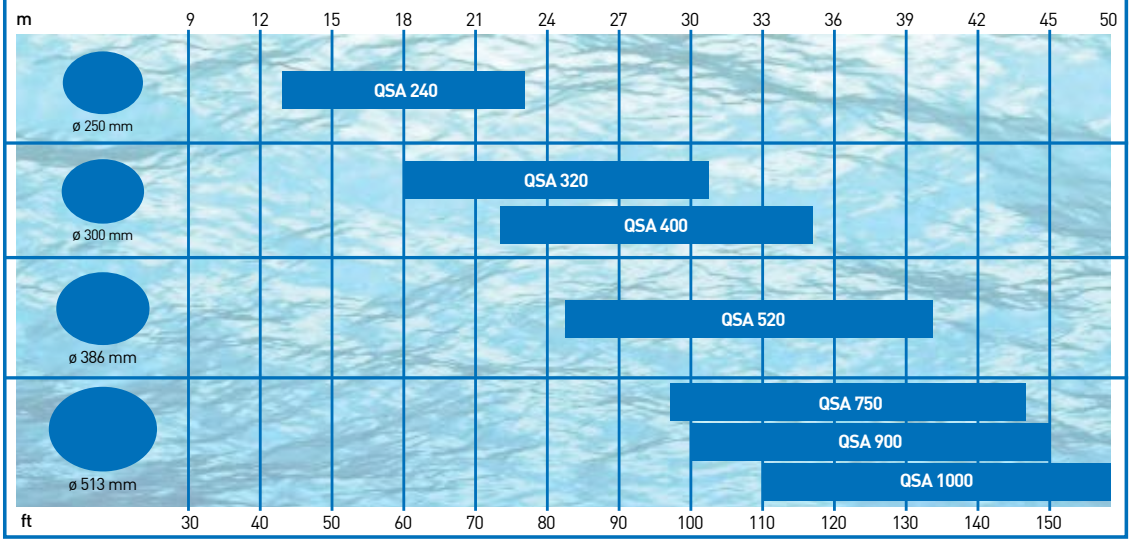
Mod. QSRH 230-250

Thruster dimensioning

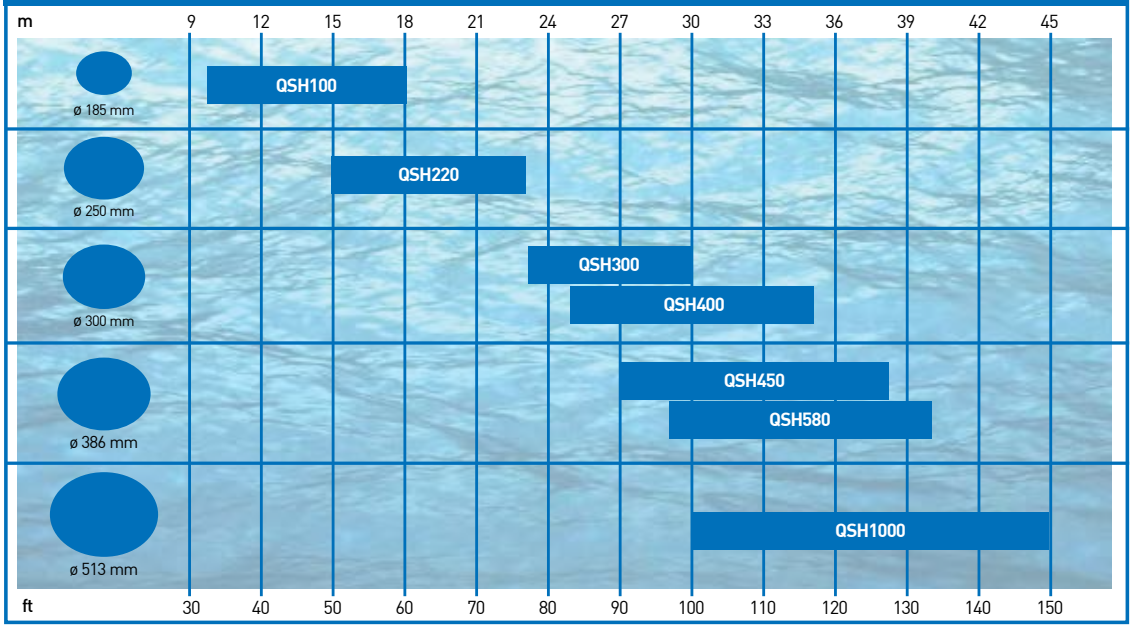
DC and DC-AC Electric Thrusters



AC 3PH Thrusters



Hydraulic Thrusters



APMS-SC

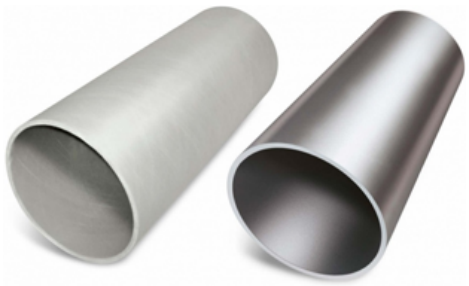
Speed controller for DC motors

Brush motors speed can be regulated in DC. The module can be governed by one or two APMS (Analogic Proportional Maneuvering System). The APMS-SC module allows to turn an ON/OFF thruster into a proportional system.

Advantages:

- High efficiency
- Low weight and compact dimension
- Wide range of compatible thrusters

Model	APMS-SC 400	APMS-SC 800
Input Voltage	9 - 16 VDC	9 - 32 VDC
Maximum output current	400 A	800 A
Operating temperature	-4°F ÷ +140°F with power derating over 122°F	
Cooling	Variable cooling fans	
Weight	4 Kg (8.8 lbs)	4.4 Kg (9.7 lbs)



Tunnels

Type	GPR			STEEL E 355[2]		
Ø Tunnel	Thickness		Length[1]	Thickness		Length[1]
	mm	Inch	m - ft	mm	Inch	m - ft
125	5	3/16	0.75 - 1 - 1.5 - 2 - 3 2' 5" 33/64 3' 3" 3/8 4' 11" 3/64 6' 6" 3/4 9' 10" 1/8	4	5/32	0.75 - 1 - 1.5 - 2 - 3 2' 5" 33/64 3' 3" 3/8 4' 11" 3/64 6' 6" 3/4 9' 10" 1/8
140	5	3/16		6.3	15/64	
185	5.5	7/32		4	5/32	
250	6.5	1/4		6.3	15/64	
300	9.5	3/8		11	27/64	
386	14	35/64		10	25/64	
513	16	5/8		22	7/8	

(1) More lengths are available upon request
(2) Seamless round steel tubes for mechanical applications according to EN 10927 norm

Analogic Control Panels

QS Seamaster offers an exclusive set of control panels. Available with push buttons or single and double joysticks, depending on the system installed, they have been designed and tested to withstand the most varied environmental and climatic conditions.
They offer great flexibility and ease of installation allowing multiple applications even in parallel.
An important safety feature is ensured by the priority and disabling of the station, both automatic.
The thruster is protected from polarity reversal, short outbound, prolonged activity of the thrusters and from the interruption of the control wiring.
Diagnostics and operation are characterized by acoustic signals (switchable).

QAJ0T
Dimension: 61.6 x 61.6 mm
(2.42" x 2.42")
ON/OFF analogic control
panel for one thruster with
pushbuttons

QAJ1T
Dimension: 61.6 x 61.6 mm
(2.42" x 2.42")
ON/OFF analogic control
panel for one thruster with
joystick

QAJ2T
Dimension: 65,8 x 117 mm
(2.59" x 4.60")
ON/OFF analogic control
panel for two thrusters with
joystick

APMS 1T
Dimension: 110 x 110 mm
(4.33" x 4.33")
Analogic proportional
control panel for one
thruster with joystick

APMS 2T
Dimension: 110 x 110 mm
(4.33" x 4.33")
Analogic proportional
control panel for two
thrusters with joystick

Digital Control Panels

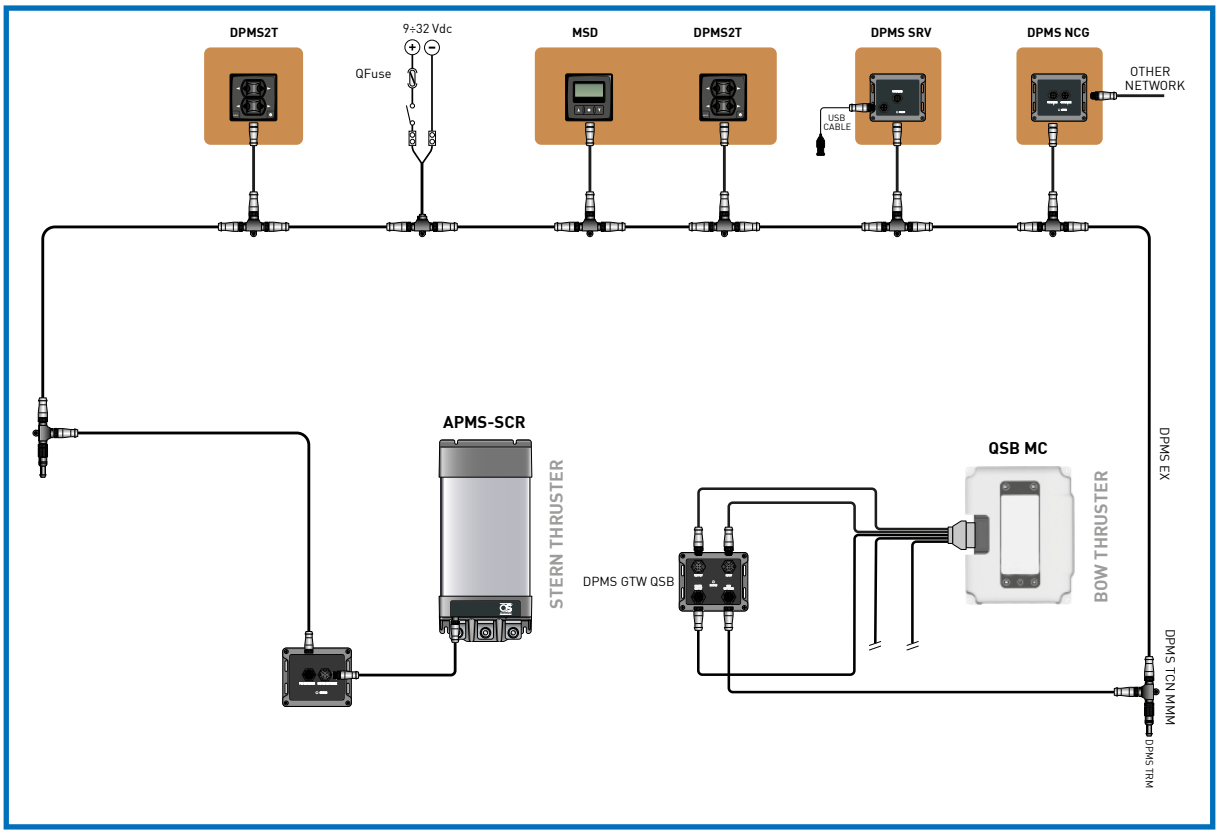
QS Seamaster offers a range of control panels for digital proportional systems DPMS (Digital Proportional Maneuvering System)
Flexibility and easy installation are main characteristics of the DPMS, the most advanced technology for thruster commands.
standard supply for AC and hydraulic thrusters and optional feature for other systems, the DPMS is the most reliable, versatile and advanced system thanks to the CAN-bus standard use.
DPMS systems allow to connect different kind of thrusters, as shown in the following diagram (hybrid system: QSB – brushless thruster – and QS proportional DC thruster) and can be integrated with different networks and external systems.
The digital display (MSD) shows the necessary information and a useful diagnostic warning in case of troubleshooting.

DPMS 1T
Dimension: 110 x 110 mm
(4.33" x 4.33")
Digital proportional control panel for one thruster with joystick

DPMS 2T
Dimension: 110 x 110 mm
(4.33" x 4.33")
Digital proportional control panel for two thrusters with joystick

MSD
Dimension: 110 x 110 mm
(4.33" x 4.33")
User interface/diagnostic for DPMS

Brushless – DC proportional thrusters link diagram with CAN-BUS commands



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