



specification



## specification

Seamech Limited is the only company in the Pacific Islands manufacturing longline fishing equipment.

Because of our unique location and intimate involvement with the operating environment and the suitability of the equipment, Seamech Limited has been able to design, produce and supply a superior product of longline fishing equipment, Smart Reel®.

Smart Reel® are:

- cost effective
- low maintenance
- user friendly

Smart Reel® also introduced the concept of a one-station operation for the whole system Smart Reel® is supplied to the end user as a complete, fully tested equipment package

- the reel
- shooter (line setter),
- associated controls,
- tachometer
- all necessary valving, including hook timer.



Smart Reel® most significant innovation is the cooperative operation of the reel and the line setter during the setting phase. During this phase the line setter draws the monofilament off the reel with a controlled constant tension. Reel braking is activated from the line setter. This eliminates monofilament line burn reducing maintenance costs and delays at sea from severed monofilament. Because of the Smart Reel® design innovations our shooter greatly reduces the chance of line snarls and tangles.

All Smart Reel® have a common design and use the same line setter. Smart Reel® is

- strong and built to last from the best alloys available
- every component is designed and built to the highest standards
- the finished product has been tested in the warm corrosive environment of the tropics

In order to provide the end user with rapid, easy access to spare parts, and to simplify service, we use standard off the shelf components in our Smart Reel®, wherever possible.

## single reel

Smart Reel® is made in six sizes

Reel Size	1.0m	1.2m	1.4m	1.6m	1.8m	2.0m	2.2m
<b>Drum Core</b>	400	400	400	400	400	600	600
<b>Flange Diameter</b>	1000	1000	1000	1000	1000	1000	1000
<b>Between Flanges</b>	1000	1200	1400	1600	1800	2000	2200

The above measurements are in millimeters (mm).

Monofilament	Line Capacities						est
<b>4.0 mm</b>	54 km	64 km	74 km	74 km	84 km	89 km	100 km
<b>3.5 mm</b>	62 km	75 km	87 km	90 km	103 km	111 km	123 km
<b>3.0 mm</b>	71 km	85 km	100 km	104 km	118 km	127 km	141 km

### single line motor simplicity

- Customised hydraulic controls to vary hauling power over a wide range of hydraulic pumping capacity
- The motor is coupled to the main stainless steel shaft via a robust rubber tyre type coupling to provide mechanical isolation and insulation to reduce maintenance costs and improve serviceability.
- Stainless steel fastenings
- High quality marine grade alloy
- Painted with epoxy two pack and two coats of recoatable polyurethane paint

### level layer

- Shafts are supported on poly-carbonate housed, corrosion free, greasable, environmentally sealed bearings
- Capable of being adjusted in height to allow for flexibility of reel mounting locations and line recovery heights
- Eliminates loading on level layer line guiding mechanism

Line capacities are approximate as loosely wound line reduces the holding capacity of the reel. It may not be possible to hold the line capacities as described above on the initial wind on. However once the reel has fished for a short time, a topping up on the reel will give full capacity.

Double reel systems are also produced but only manufactured on special order. Contact us about special pricing on these units.



## double reels

Smart Reel® is made in six sizes

Reel Size	1.0m	1.2m	1.4m	1.6m	1.8m	2.0m	2.2m
<b>Drum Core</b>	400	400	400	400	400	600	600
<b>Flange Diameter</b>	1000	1000	1000	1000	1000	1000	1000
<b>Between Flanges</b>	1000	1200	1400	1600	1800	2000	2200

The above measurements are in millimeters (mm).

Monofilament	Line Capacities						est
<b>4.0 mm</b>	108 km	128 km	148 km	168 km	188 km	178 km	200 km
<b>3.5 mm</b>	124 km	150 km	174 km	206 km	226 km	222 km	246 km
<b>3.0 mm</b>	142 km	170 km	200 km	236 km	256 km	254 km	282 km

## features

- The core, end flanges and frame are all constructed of aluminium of different tensile grades to suit their application. All are chosen for their suitability for use in the harsh marine environment.
  - All fastenings and fixings are of stainless steel except in components manufactured by others, i.e. Motors and couplings
  - The "Smart Reel® Series 2" Drum is mounted on a full length stainless steel shaft and this is all carried on quality self aligning bearings.
  - Our level layer bearings are sealed to give longer life and less maintenance.
  - Most wearing components are re-conditionable and unit replacement is not always necessary, as is with some of the competitors equipment.
  - As with our Smart Reel ® Steel Series, off the shelf components are used in the construction wherever possible. These parts are readily available to Smart Reel® clients all over the world in their own countries.
  - High quality rubber type couplings are used to protect the motors from physical shock generated by starting and stopping the reels, during hauling and setting.
  - Our re-designed line setters now incorporate a belt to hold the monofilament onto the driving wheel. This has the advantage that the monofilament cannot jump out of the line setter, one of the major problems associated with conventional type line-setters.
  - Our control manifolds do not allow severe hydraulic pulsing during braking and this gives the hoses longer life.
  - The system requires a hydraulic pump capable of pumping 50ltrs (12 g.p.m.) of oil per minute at a pressure of 130 bar. (1800 PSI)
  - The systems require a 15KW – (20HP) to operate efficiently
  - Our guarantee is as it has always been. We guarantee our equipment and workmanship for one year. The equipment supplied by others i.e. motors etc. carry their own manufacturers guarantee's.
- Seamech reels come complete with the directional control valve in the package price and a flow (speed) control valve that is charged, as an extra if required. Our line setters also come complete with a Tachometer that is charged as an additional item by other manufacturers. We also manufacture and supply hook timers and long line blocks to compliment our equipment.



## company profile

- Seamech Limited is a family owned company based in Suva, Fiji Islands in the South Pacific.
- Seamech Limited has been involved in the longline fishing equipment industry as hydraulic engineers in the maintaining and installation of equipment since 1983.
- Seamech started manufacturing longline reels in 1994.
- Smart Reel® have been designed and produced after years of intimate involvement with the equipment and the operating environment.
- Seamech Limited has sold reels to clients situated in the Southern Hemisphere, from South Africa to Tahiti and we also have reels working in Sicily, Sardinia and Spain in Europe.
- When you deal with Seamech Limited you deal direct with owner operators:  
Ross Brodie – Owner & Managing Director  
Shayne Brodie – Managing Director & Senior Technician



## price, shipping and payment

### prices

Prices for our Smart Reel® systems are available upon request.

### freight

Sea freight is the most practical but you are asked to specify surface or air freight and any special handling instructions when placing your order.

### installation

Manufacturer can assist with installation but local installation is also suitable if technical people are available.

### payment

Local Companies: Terms are 75% deposit upon confirmation of order and 25% on completion ex works.

Foreign Companies: Terms are 75% deposit upon confirmation of order and 25% on completion ex works prior to shipping or a confirmed irrevocable letter of credit for the full amount, payable on sight through our bank. Bank payable in US Dollars.

### returns

Confirmation must be obtained prior to any returns being considered. Any special orders cannot be returned.

### delivery

6 weeks weeks from confirmation of order. Confirm this time frame when placing your order as at times of heavy workload, our lead time goes beyond 6 weeks.

### hours of operation

Monday - Friday 0800hrs – 1700hrs  
Saturday 0800hrs – 1300hrs (GMT + 12)

**for more information please contact**

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# SMARTREEL 3



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experience the new smartreel 3 with:  
bigger motor, better braking & more hauling power

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