Since the beginning of 2013 Max Power has been heavily invested in, following the action plan to upgrade its production processes, quality systems and logistics structure. Investments also included a tailor-made WMS and an SAP ERP system.

Max Power offers a full vessel maneuverability range, from simple tunnel thrusters to top-of-the-range retractable thrusters, ensuring complete freedom of choice. Backed up by an extensive range of accessories, power options and customized solutions, Max Power has become a leader in its market with a dedicated group of followers.

Renowned for supplying high quality products, Max Power has remained dedicated to designing and producing innovative and often unique solutions which all strive to bring ultimate performance into the world of everyday yachting.

With more than 25 years of experience in designing and manufacturing leisure marine products, there is certainly a Max Power bow thruster, stern thruster or related equipment to meet your requirements.

www.max-power.com
- Famous quality
- Innovative solutions

**Compact Retract**
- Lightweight composite construction
- Lowest profile and smallest hull opening on the market
- Rapid deployment
- Unique patented folding movement (Retract™)

**Composite Leg**
- Maintenance free
- Easy fit
- No corrosion

- Worldwide Customer Satisfaction

**Global Service Network**

Fast worldwide delivery
5 main logistics hubs:
USA, Dubai, Belgium, Greece, Italy

**Spare Parts:**
Easy web ordering & next day dispatch
Select the right thruster

**Tunnel thrusters**

Positioning thrusters is often as important as choosing the right thrust output when seeking a suitable thruster for your yacht.

The thruster's turbine needs to be placed one full propeller diameter under the water line to achieve optimal thrust. The thruster must also be positioned as far forward in the bow or as far back in the stern as possible. A thruster stepped back from the bow (or stern) would need to be more powerful than one mounted further forward (or aft), to achieve the same turning effect on the yacht.

With this in mind, tunnel thrusters offer an ideal solution for motor yachts and even deep-footed sailing yachts when sailing performance is not paramount.

**Retractable thrusters**

Retractable thrusters are easily installed far forward in the bow whilst still achieving the required immersion depths. This results in a thruster that has a good turning effect on the yacht, often allowing a unit with a lower thrust rating than its tunnel equivalent to be used with excellent results.

When retracted these units have no effect on the yacht’s drag and do not reduce sailing performance in light winds.

Most modern sailing yachts are better suited to retractable thrusters.
Bow and stern thrusters

The combined use of a bow and stern thruster adds a greater level of control when manoeuvring in difficult conditions or tight corners.

Turning on the spot or even stepping the entire yacht sideways becomes possible. Max Power offers stern thruster adapters for the entire tunnelthruster range. A range of Ignition Protected thrusters is also available enabling the use of a stern thruster in habitually damp zones.

Electric or hydraulic power source

Bow and stern thrusters whether retractable or tunnel require a power source. On a yacht this can be either a 12/24V DC electric motor or a hydraulic motor.

The hydraulic motor will need to draw power from a thermal engine (via a hydraulic pump) or a remote mounted DC motor (also via a hydraulic pump). The DC motor will draw power directly from a battery bank as do direct electric thrusters.
Select the right thruster

Tunnel thrusters

- Only when required immersion depth is achieved.
Max Power offers a complete range of 12/24V composite electric tunnel thrusters to suit motor yachts and deep footed sailing yachts from 17-85'. Designed for performance and durability, each model is easy to fit, highly cost effective, and integrates a variety of unique features.

- Patented composite drive legs
- Zero maintenance
- Case hardened spiro-conical gears
- Line shields
- Purpose built DC motors
- Electronic control boxes for unrivaled safety features
- Safe, high power connections
- Purpose built high specification DC contactors

Corrosion free composite drive legs eliminate the need for anodes and offer high manufacturing tolerances.

Drive legs are pre-filled with oil and then sealed for life for zero maintenance.

Case hardened spiro-conical gears guarantee a silent, smooth operation, and a long lifespan.

Line shields protect oil seals from fishing lines and fouling.

High efficiency, purpose built DC motors ensure outstanding performance and long runtime ratings.

Electronic control boxes offer unique and unrivaled safety features.

Solid copper contact bars guarantee safe, high power connections.

Purpose built high specification DC contactors are both safe and durable.
New Propellers

CT 35
- Code: 42529
- Voltage*: 12V
- Thrust (kg/lbs)**: 35 / 77
- Propellers: Mono
- Power (kw/hp): 2.69 / 3.6
- Weight (kg): 9.6

CT 45
- Code: 317603
- Voltage*: 12V
- Thrust (kg/lbs)**: 39 / 88
- Propellers: Duo
- Power (kw/hp): 3.23 / 4.3
- Weight (kg): 9.6

CT 60
- Code: 42530
- Voltage*: 12V
- Thrust (kg/lbs)**: 58 / 128
- Propellers: Mono
- Power (kw/hp): 4.35 / 5.8
- Weight (kg): 14.7

- Code: 42531
- Voltage*: 24V
- Thrust (kg/lbs)**: 63 / 139
- Propellers: Mono
- Power (kw/hp): 4.4 / 5.9
- Weight (kg): 14.8

Dimensions in mm

<table>
<thead>
<tr>
<th>Model</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>CT 35</td>
<td>190</td>
<td>140</td>
<td>210</td>
<td>125</td>
<td>4 to 5</td>
</tr>
<tr>
<td>CT 45</td>
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<td>CT 60</td>
<td>210</td>
<td>140</td>
<td>275</td>
<td>185</td>
<td>6 to 7</td>
</tr>
</tbody>
</table>

Notes: Images are not to scale.

* Thrusters are designed to run at 10.75V on 12V units and 22V on 24V units. Higher voltages will result in higher thrust ratings, higher power consumption, and a reduced duty cycle.

** Performance data is given for a thruster installed at an immersion depth of one tunnel's diameter, in a tunnel no longer than twice the tunnel's diameter, and this within a variation of + / - 6%. Longer tunnels will result in lower thrust ratings and higher power consumption.

20% Less Noise
5% Higher Efficiency

GRP tunnels

Please refer to page 33

www.max-power.com
## Electric tunnel thrusters

### CT 80

| Code: 42532 | Voltage*: 12V | Thrust (kg/lbs)**: 69 / 152 | Propellers: Duo | Power (kw/hp): 4.79 / 6.4 | Weight (kg): 15 |

### CT 100

| Code: 42533 | Voltage*: 24V | Thrust (kg/lbs)**: 75 / 165 | Propellers: Duo | Power (kw/hp): 5.28 / 7.1 | Weight (kg): 15.1 |

### CT 125


### New Propellers

- **Code: 35040**  CT 80, CT 100 & CT 125
- **Code: 35042**  CT 165 & CT 225

**20% Less Noise**

**5% Higher Efficiency**

*Please refer to page 33*
CT 165

Code: 317557
Voltage*: 24V
Thrust (kg/lbs)**: 160 / 353
Propellers: Duo
Power (kw/hp): 11.88 / 15.9
Weight (kg): 36

Notes: Images are not to scale.
* Thrusters are designed to run at 10.75V on 12V units and 22V on 24V units. Higher voltages will result in higher thrust ratings, higher power consumption, and a reduced duty cycle.
** Performance data is given for a thruster installed at an immersion depth of one tunnel’s diameter, in a tunnel no longer than twice the tunnel’s diameter, and this within a variation of + / - 6%. Longer tunnels will result in lower thrust ratings and higher power consumption.

Dimensions in mm

<table>
<thead>
<tr>
<th>Model</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
</tr>
</thead>
<tbody>
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<td>250</td>
<td>200</td>
<td>430</td>
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<tr>
<td>CT 225</td>
<td>270</td>
<td>200</td>
<td>405</td>
<td>250</td>
<td>7 to 8</td>
</tr>
</tbody>
</table>

CT 225

Code: 317558
Voltage*: 24V
Thrust (kg/lbs)**: 195 / 430
Propellers: Duo
Power (kw/hp): 14.96 / 20
Weight (kg): 37
The electric tunnel CT300 & CT 325 are delivered complete with control system.

**Dimensions in mm**

<table>
<thead>
<tr>
<th>Model</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>CT 300</td>
<td>250</td>
<td>250</td>
<td>480</td>
<td>300</td>
<td>9 to 10</td>
</tr>
<tr>
<td>CT 325</td>
<td>250</td>
<td>250</td>
<td>480</td>
<td>315</td>
<td>9 to 10</td>
</tr>
</tbody>
</table>

Notes: Images are not to scale.

* Thrusters are designed to run at 10.75V on 12V units and 22V on 24V units. Higher voltages will result in higher thrust ratings, higher power consumption, and a reduced duty cycle.

** Performance data is given for a thruster installed at an immersion depth of one tunnel's diameter, in a tunnel no longer than twice the tunnel's diameter, and this within a variation of + / - 6%. Longer tunnels will result in lower thrust ratings and higher power consumption.

*** Model only available with bronze driveleg

![Image of electric tunnel thrusters CT 300 and CT 325](image-url)
Max Power's new range of Ignition Protected tunnel thrusters is available for models CT35 to CT125. Certified ISO 8846, this range allows the safe use of an electric tunnel thruster in petrol / gas engine vessels where there may be potentially flammable gases. IP thrusters can also be installed in habitually wet or damp areas such as sail lockers, or in the transom of deep "V" shaped motor yachts.

- Ignition Protected to ISO 8846 and water resistant
- Easy to connect thruster
- Patented composite drive leg
- Zero maintenance
- Case hardened spiro-conical gears
- Line shields
- Purpose built DC motors
- Electronic control boxes for unrivaled safety features
- Safe, high power connections
- Purpose built high specification DC contactors

Ignition Protected and water resistant.

Easy to connect thruster. Robust metallic frame.

Unique composite drive leg design. See page 8 for full details.

High specification electric motors. See page 8 for full details.
Ignition protected thrusters

CT35-IP
Code: 317609
Voltage: 12V
Weight (kg): 11.6

CT45-IP
Code: 317610
Voltage: 12V
Weight (kg): 11.65

CT60-IP
Code: 317611
Voltage: 12V
Weight (kg): 17.3

CT80-IP
Code: 317613
Voltage: 12V
Weight (kg): 17.6

CT100-IP
Code: 317615
Voltage: 12V
Weight (kg): 27.2

CT125-IP
Code: 317616
Voltage: 24V
Weight (kg): 27.2

New Propellers

20% Less Noise
5% Higher Efficiency

Code: 35041 CT 35-IP & CT 45-IP
Code: 35040 CT 60-IP, CT 80-IP, CT 100-IP & CT 125-IP

GRP tunnels

Please refer to page 33

Dimensions in mm

<table>
<thead>
<tr>
<th>Model</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
</tr>
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<tbody>
<tr>
<td>CT 35-IP</td>
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<td>CT 45-IP</td>
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<tr>
<td>CT 100-IP</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>CT 125-IP</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Notes: Images are not to scale.
For IP thruster specifications, see corresponding electric tunnel thruster model.
Max Power's range of hydraulic tunnel thrusters are suitable for medium to heavy displacement, high windage vessels from 40-85'. Designed for durability and performance, hydraulic tunnel thrusters are ideal when long runtimes are required. Manufactured using corrosion free components, these models are robust, water resistant and integrate a variety of unique features.

- Branded hydraulic components
- Long runtimes
- Water resistant
- Patented composite drive legs
- Zero maintenance
- Case hardened spiro-conical gears
- Line shields
- Electronic control boxes for unrivaled safety features

Branded hydraulic components for international serviceability.
Can be installed in habitually damp areas such as sail lockers.
Unique composite drive leg design. See page 8 for full details.
Electronic control boxes offer unique and unrivaled safety features.
## CT HYD 125

<table>
<thead>
<tr>
<th>Code: 317588*</th>
<th>Max. thrust (kg/lbs)**: 140/308</th>
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<tbody>
<tr>
<td></td>
<td>Hydraulic power (kw): 13.5</td>
</tr>
<tr>
<td></td>
<td>Propellers: Duo</td>
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<tr>
<td></td>
<td>Weight (kg): 12</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Code: 317590*</th>
<th>Max. thrust (kg/lbs)**: 120 / 264</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Hydraulic power (kw): 11</td>
</tr>
<tr>
<td></td>
<td>Propellers: Duo</td>
</tr>
<tr>
<td></td>
<td>Weight (kg): 12</td>
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</tbody>
</table>

## CT HYD 225

<table>
<thead>
<tr>
<th>Code: 317589*</th>
<th>Max. thrust (kg/lbs)**: 90 / 198</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Hydraulic power (kw): 7.5</td>
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<tr>
<td></td>
<td>Propellers: Duo</td>
</tr>
<tr>
<td></td>
<td>Weight (kg): 12</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code: 317591*</th>
<th>Max. thrust (kg/lbs)**: 200 / 441</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Hydraulic power (kw): 13.5</td>
</tr>
<tr>
<td></td>
<td>Propellers: Duo</td>
</tr>
<tr>
<td></td>
<td>Weight (kg): 19</td>
</tr>
</tbody>
</table>

## New Propellers

- **20% Less Noise**
- **5% Higher Efficiency**

## Optional Accessories

**for hydraulic tunnel thrusters**

- **Max Power Electronic Thruster Controller**
  - Code: 315311

  Only for Max Power Joystick... page 30
CT HYD 300

Code: 317697* / ***
Max. thrust (kg/lbs)**: 240/529
Hydraulic power (kw): 19.5
Propellers: Duo
Weight (kg): 24

CT HYD 325

Code: 317598* / ***
Max. thrust (kg/lbs)**: 250 / 551
Hydraulic power (kw): 14
Propellers: Duo
Weight (kg): 24

Code: 317599* / ***
Max. thrust (kg/lbs)**: 275 / 606
Hydraulic power (kw): 20
Propellers: Duo
Weight (kg): 24

For connection with PTO or stand alone system

Notes: Images are not to scale.

* Thrusters are designed to run at 10.75V on 12V units and 22V on 24V units. Higher voltages will result in higher thrust ratings, higher power consumption, and a reduced duty cycle.

** Performance data is given for a thruster installed at an immersion depth of one tunnel’s diameter, in a tunnel no longer than twice the tunnel’s diameter, and this within a variation of + / - 6%. Longer tunnels will result in lower thrust ratings and higher power consumption.

*** Model only available with bronze driveleg

Dimensions in mm

<table>
<thead>
<tr>
<th>Model</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
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</thead>
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<td>301</td>
<td>230</td>
<td>295</td>
<td>125</td>
<td>4 to 5</td>
<td></td>
</tr>
<tr>
<td>CT HYD 225</td>
<td>220</td>
<td>220</td>
<td>200</td>
<td>250</td>
<td>7 to 8</td>
<td></td>
</tr>
<tr>
<td>CT HYD 300</td>
<td>240</td>
<td>240</td>
<td>240</td>
<td>300</td>
<td>9 to 10</td>
<td></td>
</tr>
<tr>
<td>CT HYD 325</td>
<td>240</td>
<td>240</td>
<td>240</td>
<td>315</td>
<td>9 to 10</td>
<td></td>
</tr>
</tbody>
</table>

Please refer to page 35.
The Max Power Stern Pod offers an innovative solution to the often difficult tasks of installing a thruster into the stern of modern motor yachts.

Combining a dry area on the stern with correct immersion depth and sufficient access is often a challenge.

Designed with these constraints in mind, Stern Pod units can be installed entirely from the outside of the transom, reducing greatly the need for inside access. This allows greater immersion depth to be achieved.

The Stern Pod housing is waterproof and ignition protected (ISO 8846) designed to withstand the corrosive damp atmosphere of the bilge. Entirely assembled and tested in our factory, Stern Pod units guarantee long term trouble-free operation with only minimal maintenance care.

<table>
<thead>
<tr>
<th>Code</th>
<th>317625</th>
<th>317628</th>
<th>317629</th>
<th>317630</th>
<th>317631</th>
<th>317632</th>
<th>317633</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>CT45</td>
<td>CT80</td>
<td>CT100</td>
<td>CT125</td>
<td>CT165</td>
<td>CT225</td>
<td></td>
</tr>
<tr>
<td>Boat size</td>
<td>6m - 10.5m</td>
<td>8.5m - 14m</td>
<td>9.8m - 15.5m</td>
<td>10.5m - 18m</td>
<td>12m - 20m</td>
<td>14m - 22m</td>
<td></td>
</tr>
<tr>
<td>Voltage</td>
<td>12 V</td>
<td>12 V</td>
<td>24 V</td>
<td>12 V</td>
<td>24 V</td>
<td>24 V</td>
<td>24 V</td>
</tr>
<tr>
<td>Thrust up to</td>
<td>45 kg</td>
<td>69 kg</td>
<td>75 kg</td>
<td>96 kg</td>
<td>115 kg</td>
<td>160 kg</td>
<td>195 kg</td>
</tr>
<tr>
<td>Power</td>
<td>3.2 kW / 4.3 hp</td>
<td>4.8 kW / 6.4 hp</td>
<td>5.3 kW / 7.1 hp</td>
<td>7.1 kW / 9.5 hp</td>
<td>8.6 kW / 11.5 hp</td>
<td>11.9 kW / 15.9 hp</td>
<td>15 kW / 20 hp</td>
</tr>
<tr>
<td>Weight</td>
<td>21 kg</td>
<td>31 kg</td>
<td>31 kg</td>
<td>41 kg</td>
<td>41 kg</td>
<td>61 kg</td>
<td>61 kg</td>
</tr>
</tbody>
</table>

Case hardened spiro-conical gears. Ignition protected and watertight seals ensure extra protection. Easy external installation.
Combining the cost effective simplicity of DC electrics with the high performance characteristics of retractable units, this range is ideally suited to modern sailing yachts and super fast motor yachts. Max Power offers two different types of electric retractable thrusters: the low profile Compact Retract™ and the vertically retracting VIP 150 Electric, catering for yachts from 30-60'. (Max Power patented designs).

- Retract to leave smooth hull lines
- When deployed ideal immersion depth is achieved
- Patented composite drive legs
- Zero maintenance
- Case hardened spiro-conical gears
- Line shields
- Purpose built DC motors
- Electronic control boxes for unrivaled safety features
- Safe, high power connections
- Purpose built high specification DC contactors

When retracted hull lines are left smooth and unaffected.

When deployed ideal immersion depth is achieved.

Unique composite drive leg design. See page 8 for details.

Installed further forward (or aft) in the hull than is possible with a tunnel thruster, retractable units offer a far better turning moment on the yacht thus producing greater manoeuvrability.

High specification electric motors. See page 8 for details.
Electric retractable thrusters

COMPACT RETRACT™

- Lightweight composite construction.
- Lowest profile and smallest hull opening on market.
- Bolted onto flange, not directly laminated into the hull.
- Rapid deployment.
- No exposed moving parts inside yacht.
- Splash resistant inside yacht.
- Intelligent position detection.

Designed for yachts from 9 to 16 metres (30-52’). This lightweight electric retractable thruster, the first of its kind, has been a major success with shipyards from the start.

The compact retract is delivered complete with grey joystick, control system cable and support.

New Propellers

20% Less Noise
5% Higher Efficiency

Model A B C D E
COMPACT RETRACT 555 388 385 185 241

Dimensions in mm

Mounting Base
- Code: 311362
  - Aluminium flange
- Code: 313760
  - GRP Mounting Base

Code: 317821
- Voltage*: 12V
- Thrust (kg/lbs)**: 70 / 154
- Propellers: Duo
- Power (kw/hp): 4.79 / 6.4
- Weight (kg): 40

Code: 317822
- Voltage*: 24V
- Thrust (kg/lbs)**: 85 / 187
- Propellers: Duo
- Power (kw/hp): 5.28 / 7.1
- Weight (kg): 40

Code: 35040
- Compact Retract & VIP 150
Code: 35042
- VIP 250
Max Power's vertically retracting VIP thrusters use a unique and patented thrust plate design. The largest electric thruster in the Max Power range, the VIP 150 is available in both 12V and 24V and is ideally suited to high performance sailing yachts and super fast motor yachts 40-60'.

### VIP 150 ELECTRIC

**Code: 35023**
- Voltage*: 12V
- Thrust (kg/lbs)**: 96 / 212
- Propellers: Duo
- Power (kw/hp): 7.1 / 9.5
- Weight (kg): 40

**Code: 35024**
- Voltage*: 24V
- Thrust (kg/lbs)**: 115 / 254
- Propellers: Duo
- Power (kw/hp): 8.56 / 11.5
- Weight (kg): 40

### NEW VIP 250 ELECTRIC

**Code: 35043**
- Voltage*: 24V
- Thrust (kg/lbs)**: 145 / 319
- Propellers: Duo
- Power (kw/hp): 9.5 / 12.74
- Weight (kg): 54

The VIP 15D is delivered complete with black joystick, control box and 25m control system cable.

![Image of VIP thruster with control system](image)

**Dimensions in mm**

<table>
<thead>
<tr>
<th>Model</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td>VIP 150 ELECTRICAL</td>
<td>330</td>
<td>290</td>
<td>710</td>
<td>185</td>
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<td>765</td>
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<td>1075</td>
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</table>

Notes: Images are not to scale.

* Thrusters are designed to run at 10.75V on 12V units and 22V on 24V units. Higher voltages will result in higher thrust ratings, higher power consumption, and a reduced duty cycle.

** Performance data is given for a thruster installed at an immersion depth of one tunnel’s diameter, in a tunnel no longer than twice the tunnel’s diameter, and this within a variation of +/−6%. Longer tunnels will result in lower thrust ratings and higher power consumption.
When performance is paramount, hydraulic retractable thrusters provide a perfect solution. Light-weight, powerful and allowing near perfect weight distribution, designers and prestigious yards have consistently specified Max Power thrusters over the years. Max Power offers two product ranges in this family: the vertically retracting VIP HYD range and the top end Retract™ folding series.

- Retract to leave smooth hull lines
- When deployed ideal immersion depth is achieved
- Water resistant
- Allow ideal weight distribution
- Ideal for high performance yachts
- Unique patented thrust plate design (VIP)
- Unique patented folding movement (Retract™)
- Case hardened spiro-conical gears
- Lightweight design

When retracted hull lines are left smooth and unaffected.

When deployed ideal immersion depth is achieved.

Can be installed in habitually damp areas such as sail lockers.

Allow ideal weight distribution in high performance yachts.
New Propellers

20% Less Noise
5% Higher Efficiency

VIP150 HYD

- Code: 317702 - 12V control
- Code: 317703 - 24V control
- Max. thrust (kg/lbs)*: 120/264
- Hydraulic power (kw): 10
- Propellers: Duo
- Weight (kg): 28

VIP250 HYD

- Code: 317705 - 24V control
- Max. thrust (kg/lbs)*: 200/441
- Hydraulic power (kw): 13.5
- Propellers: Duo
- Weight (kg): 37

Notes: Images are not to scale
*Performance data is given for a thruster deployed at one tunnel diameter immersion depth, and this within a variation of + / - 6%.

For more in-depth information on this range, please visit our website: www.max-power.com

The VIP HYD is delivered complete with black joystick and control box.

Dimensions in mm

<table>
<thead>
<tr>
<th>Model</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td>VIP 150 HYD</td>
<td>290</td>
<td>290</td>
<td>580</td>
<td>185</td>
<td>810</td>
<td>240</td>
</tr>
<tr>
<td>VIP 250 HYD</td>
<td>360</td>
<td>360</td>
<td>620</td>
<td>250</td>
<td>950</td>
<td>295</td>
</tr>
</tbody>
</table>
Hydraulic retractable thrusters

Several versions of each Retract™ model are available. Hydraulic flow and pressure can be customised to suit hydraulic system specifications. Many of the larger units in this range are manufactured to order. Specified by designers and architects alike, these technically superior retractable units are supplied to many of the world’s finest custom yacht builders.

For more in-depth information on this range, please visit our website: www.max-power.com

<table>
<thead>
<tr>
<th>Model</th>
<th>A (mm)</th>
<th>B (mm)</th>
<th>C (mm)</th>
<th>D (mm)</th>
<th>E (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>R 200</td>
<td>500</td>
<td>355</td>
<td>320</td>
<td>200</td>
<td>255</td>
</tr>
<tr>
<td>R 300</td>
<td>665</td>
<td>500</td>
<td>450</td>
<td>300</td>
<td>360</td>
</tr>
<tr>
<td>R 450</td>
<td>940</td>
<td>748</td>
<td>460</td>
<td>450</td>
<td>540</td>
</tr>
<tr>
<td>R 600</td>
<td>1210</td>
<td>967</td>
<td>985</td>
<td>600</td>
<td>772</td>
</tr>
</tbody>
</table>

Custom Services

Dimensions in mm
Benefiting from a control system redesign, the R200 is the smallest model in the Max Power Retract™ range. Designed for top end production boats, this hydraulic retractable thruster has long been installed in prestigious yachts ranging from 45 - 68'.

**R200/6 - R200/8**

<table>
<thead>
<tr>
<th>Code: 317801*</th>
<th>24V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power ratings (hp):</td>
<td>10/17</td>
</tr>
<tr>
<td>Thrust:</td>
<td>10 kg per kw</td>
</tr>
<tr>
<td>Max. hydraulic power (kw):</td>
<td>13</td>
</tr>
<tr>
<td>Hydraulic power requirements (up to):</td>
<td>20 lpm / 220 bar</td>
</tr>
<tr>
<td>Power pack options:</td>
<td>PTO &amp; 24V</td>
</tr>
<tr>
<td>Hydraulic motor:</td>
<td>Piston</td>
</tr>
<tr>
<td>Opening/closing mechanism:</td>
<td>Electric &amp; manual</td>
</tr>
<tr>
<td>Propellers:</td>
<td>Duo, 2 blades</td>
</tr>
<tr>
<td>Weight (kg):</td>
<td>35</td>
</tr>
</tbody>
</table>

**R300/15 - R300/21**

Newly redesigned, the R300 now benefits from evolutions already pioneered on the R450. Both light & powerful this unit has been consistently specified by designers around the world for many years and is ideal for yachts from 60-104'.

<table>
<thead>
<tr>
<th>Code: 317807*</th>
<th>24V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code: 317809*</td>
<td>24V</td>
</tr>
<tr>
<td>Power ratings (hp):</td>
<td>20/34</td>
</tr>
<tr>
<td>Thrust:</td>
<td>11 kg per kw</td>
</tr>
<tr>
<td>Max. hydraulic power (kw):</td>
<td>25</td>
</tr>
<tr>
<td>Hydraulic power requirements (up to):</td>
<td>35 lpm / 260 bar</td>
</tr>
<tr>
<td>Power pack options:</td>
<td>PTO &amp; 24V</td>
</tr>
<tr>
<td>Hydraulic motor:</td>
<td>Piston</td>
</tr>
<tr>
<td>Opening/closing mechanism:</td>
<td>Hydraulic &amp; gas spring</td>
</tr>
<tr>
<td>Propellers:</td>
<td>Duo, 3 blades</td>
</tr>
<tr>
<td>Weight (kg):</td>
<td>73</td>
</tr>
</tbody>
</table>

*Codes refer to full package units. For further details on full package units, assemblies and components, please refer to page 27.
**R450/34 - R450/40**

Light & robust this thruster unit has been designed specifically for performance yachts, both sail & motor from 80-136’. With positive locking and a unique gas spring lifting system, the R450 can withstand the pounding that offshore performance boats endure.

**Code: 317813**

<table>
<thead>
<tr>
<th>Code: 317813*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power ratings (hp):</td>
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<tr>
<td>Thrust:</td>
</tr>
<tr>
<td>Max. hydraulic power (kw):</td>
</tr>
<tr>
<td>Hydraulic power requirements (up to):</td>
</tr>
<tr>
<td>Power pack options:</td>
</tr>
<tr>
<td>Hydraulic motor:</td>
</tr>
<tr>
<td>Opening/closing mechanism:</td>
</tr>
<tr>
<td>Propellers:</td>
</tr>
<tr>
<td>Weight (kg):</td>
</tr>
</tbody>
</table>

**R600**

An ingenious design makes this thruster the lightest and arguably the safest 100HP retractable thruster available. With a locking system inspired by aircraft cargo doors, and thrust transfer pads to transmit load to the hull, performance is first and foremost with this unit ideal for yachts from 100-167”.

**Code: 317819**

<table>
<thead>
<tr>
<th>Code: 317819*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power ratings (hp):</td>
</tr>
<tr>
<td>Thrust:</td>
</tr>
<tr>
<td>Max. hydraulic power (kw):</td>
</tr>
<tr>
<td>Hydraulic power requirements (up to):</td>
</tr>
<tr>
<td>Power pack options:</td>
</tr>
<tr>
<td>Hydraulic motor:</td>
</tr>
<tr>
<td>Opening/closing mechanism:</td>
</tr>
<tr>
<td>Propellers:</td>
</tr>
<tr>
<td>Weight (kg):</td>
</tr>
</tbody>
</table>

*For further details on full package units, assemblies and components, please refer to page 27.
RETRACT RANGE: FULL PACKAGE UNITS, ASSEMBLIES & COMPONENTS

<table>
<thead>
<tr>
<th>Model</th>
<th>Code</th>
<th>HP</th>
<th>KW</th>
<th>FLOW</th>
<th>PRESSURE</th>
<th>MOTOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>R200/6</td>
<td>317801</td>
<td>10.72</td>
<td>8</td>
<td>22 LPM</td>
<td>220 B</td>
<td>6 cc</td>
</tr>
<tr>
<td>R200/8</td>
<td>317802</td>
<td>16.06</td>
<td>12</td>
<td>30 LPM</td>
<td>240 B</td>
<td>8 cc</td>
</tr>
<tr>
<td>R300/15</td>
<td>317807</td>
<td>14.74</td>
<td>11</td>
<td>29 LPM</td>
<td>240 B</td>
<td>15 cc</td>
</tr>
<tr>
<td>R300/21</td>
<td>317809</td>
<td>23.59</td>
<td>17.6</td>
<td>44 LPM</td>
<td>240 B</td>
<td>21 cc</td>
</tr>
<tr>
<td>R450/34</td>
<td>317813</td>
<td>44.23</td>
<td>33</td>
<td>90 LPM</td>
<td>220 B</td>
<td>34 cc</td>
</tr>
<tr>
<td>R450/40</td>
<td>317814</td>
<td>54.06</td>
<td>40,33</td>
<td>110 LPM</td>
<td>220 B</td>
<td>40 cc</td>
</tr>
<tr>
<td>R600</td>
<td>317819</td>
<td>111,7</td>
<td>63,33</td>
<td>200 LPM</td>
<td>250 B</td>
<td>60 cc</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>317801</td>
<td>RETRACT R200/6 24V (Complete Package)</td>
</tr>
<tr>
<td>317802</td>
<td>RETRACT R200/8 24V (Complete Package)</td>
</tr>
<tr>
<td>317807</td>
<td>RETRACT R300/15 ELECTRO PUMP 24V (Complete Package)</td>
</tr>
<tr>
<td>317809</td>
<td>RETRACT R300/21 ELECTROHYDRO (Excludes Electro-pump)</td>
</tr>
</tbody>
</table>

317801
R200/6 Package includes
- 317803: THRUSTER ASSEMBLY R200/6
- 312950: ELECTRONIC CONTROLLER VIP/R200
- 318224: JOYSTICK VIP & RETRACT GREY
- 316504: MAX POWER DISTRIBUTION BLOCK
- 313456: TANK 8Ltr WHITE COMPLETE (filter etc.)
- 316511: ELECTROPUMP BK8/8.5cc

317802
R200/8 Package includes
- 317804: THRUSTER ASSEMBLY R200/8
- 312950: ELECTRONIC CONTROLLER VIP/R200
- 318224: JOYSTICK VIP & RETRACT GREY
- 316504: MAX POWER DISTRIBUTION BLOCK
- 313456: TANK 8Ltr WHITE COMPLETE (filter etc.)
- 317904: ELECTRO HYDRAULIC PUMP BK13/11cc

317807
R300/15 Package includes
- 317810: THRUSTER ASSEMBLY R300/15
- 633652: ELECTRONIC CONTROLLER R300
- 318226: JOYSTICK BLACK FOR R300/R450
- 316501: MAX POWER DISTRIBUTION BLOCK
- 313450: TANK 12Ltr WHITE COMPLETE (filter etc.)
- 317905: ELECTRO HYDRAULIC PUMP BK14/11cc
- 316515: LIFTING PUMP R300 (> 2007)

317809
R300/21 Package includes
- 317811: THRUSTER ASSEMBLY R300/21
- 633652: ELECTRONIC CONTROLLER R300
- 318226: JOYSTICK BLACK FOR R300/R450
- 316501: MAX POWER DISTRIBUTION BLOCK
- 316515: LIFTING PUMP R300 (> 2007)

Thruster Assemblies
- 317813: RETRACT R450/34 (Thruster Assembly ONLY)
- 317814: RETRACT R450/40 (Thruster Assembly ONLY)
- 317819: RETRACT R600/60 (Thruster Assembly ONLY)

317813
R450/34 & 317814-R450/40 Additional Components
- 316515: LIFTING PUMP R450
- 633652: ELECTRONIC CONTROLLER R450
- 318226: JOYSTICK BLACK FOR R300/R450

317819
R600/60 Additional Components
- 313352: POWER LIFT R600
- 318226: JOYSTICK BLACK FOR R300/R450
- CONTROL BOX Upon Request

All parts can be ordered individually
www.max-power.com
All control panels are specially designed for use with Max Power’s complete range of tunnel and retractable thrusters. Fitted using a simple hole saw cut-out, panels are easy to install and benefit from a simple and easily replaceable weatherproof clip-on cover. Each panel is complete with both male and female connectors using a reusable connection system.

- Available in black or grey
- Water resistant
- Easy to fit
- Replaceable clip-on cover
- Safety features
- Control panels
- Water

Water resistant. Easy to fit. Easy to replace clip-on cover. Reusable connections.
Control system safety features

Max Power’s thruster control systems are childproof and incorporate unique safety features.

The control system software monitors for incoherent signals, stray voltage, and abnormally long thrust signals in order to help protect against malfunctions caused by water ingress and short circuits. Visual and audio alarms provide a 10 second warning before the overheat shutdown function is activated. If left idle for thirty minutes, the system switches itself off automatically.

Designed with technical details such as independent control power supply (protects relays against damage due to low voltage), and standard remote electric battery isolator control, Max Power’s system is clearly ahead of the competition. These effective mechanisms ensure that your Max Power thruster is both safe and reliable thus guaranteeing peace of mind onboard.

- Childproof activation
- Automatic shutdown after 30 minutes of inactivity
- Visible and audible motor overheat warning
- Motor overheat shutdown after prior warning

Max Power strongly recommends the installation of an automatic battery isolator device when installing thruster systems.

Radio remote controls

Max Power Radio remote control is designed to work with our entire range of tunnel and retractable thrusters. The remote control can also be used to operate additional onboard equipment such as windlasses, passerelles, cranes, etc.

- Transmitter rated IP 67
- Supports up to 8 independently control channels
- Each receiver can switch 4 channels (12/24V -2A)
- Each transmitter can handle 2 receivers (8 channels)
- Digital recognition avoids accidental activation of other systems
- Zero power consumption when in standby mode (transmitter)
- Easy to install and set up, simple to use

<table>
<thead>
<tr>
<th>Code</th>
<th>312973</th>
<th>312974</th>
<th>312971</th>
<th>312972</th>
<th>312969</th>
<th>312970</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Transmitter &amp; receiver (EU)</td>
<td>Transmitter &amp; receiver (USA)</td>
<td>Additional receiver (EU)</td>
<td>Additional receiver (USA)</td>
<td>Spare transmitter (EU)</td>
<td>Spare transmitter (USA)</td>
</tr>
<tr>
<td>Frequency</td>
<td>868MHz</td>
<td>915MHz</td>
<td>868MHz</td>
<td>915MHz</td>
<td>868MHz</td>
<td>915MHz</td>
</tr>
<tr>
<td>Number of buttons (Transmitter)</td>
<td>8</td>
<td>8</td>
<td>-</td>
<td>-</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>Operative temperature</td>
<td>-10÷+60</td>
<td>-10÷+60</td>
<td>-10÷+60</td>
<td>-10÷+60</td>
<td>-10÷+60</td>
<td>-10÷+60</td>
</tr>
<tr>
<td>IP protection rated (Transmitter)</td>
<td>67</td>
<td>67</td>
<td>-</td>
<td>-</td>
<td>67</td>
<td>67</td>
</tr>
<tr>
<td>Max contacts amperage(A), (Receiver)</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Weight(gr)</td>
<td>310</td>
<td>310</td>
<td>100</td>
<td>100</td>
<td>85</td>
<td>85</td>
</tr>
<tr>
<td>Dimension(mm)</td>
<td>114x60x22 (transmitter)</td>
<td>114x60x22 (transmitter)</td>
<td>126x78x23 (receiver)</td>
<td>126x78x23 (receiver)</td>
<td>114x60x22</td>
<td>114x60x22</td>
</tr>
</tbody>
</table>

* 868 MHz is the authorised frequency for Europe and Australia. 915 MHz is the authorised frequency for Canada and the USA. Retail sales and use of non-authorised frequency transmitters and receivers is prohibited. For all other countries please consult the local regulation in force.

www.max-power.com
The Boat control panel simplifies the combined use of a bow and stern thruster. Full and simultaneous control of both thrusters is possible via one easy-to-use manipulator. Stepping the boat sideways or turning 360° on the spot become smooth, simple operations, and each thruster can still be used independently.

**Touch Panel**
- Code: 318200 - Black
- Code: 318201 - Grey

Compatible with: All tunnel thrusters

**Joystick Simple**
- Code: 318202 - Black
- Code: 318203 - Grey

Compatible with: All tunnel thrusters

**Joystick Double**
- Code: 318204 - Black
- Code: 318205 - Grey

Compatible with: All tunnel thrusters

**Joystick**
- Code: 318206 - Black
- Code: 318224 - Grey

Compatible with: Compact Rectract all VIP & R200

**Touch Panel Double**
- Code: 318233 - Black

Compatible with: All retractable thrusters, in combination with 318204 - 318205 - 318234

**Control Panel Boat**
- Code: 318234 - Black

All our control panels are available in both black and grey.
...introduces its NEW Tinned Copper marine grade wire and cable

**MAX POWER** realizes the importance of high quality, reliable electrical marine grade wire and cable.

In both wet and dry conditions, marine cable needs to behave consistently in order to perform properly.

That is why **MAX POWER** decided to supply only the best electrical marine grade wire and cable.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Sectional Area (mm²)</th>
<th>Temperature (°C)</th>
<th>Overall Diameter (mm)</th>
<th>Meters per reel</th>
<th>Uses</th>
</tr>
</thead>
<tbody>
<tr>
<td>70351</td>
<td>Marine Cable, Single core, Tinned, 1x1,5mm², black</td>
<td>1,5</td>
<td>1,5</td>
<td>3</td>
<td>100</td>
<td>Indoor &amp; Outdoor Lighting / Navigation Lights</td>
</tr>
<tr>
<td>70352</td>
<td>Marine Cable, Single core, Tinned, 1x1,5mm², red</td>
<td>1,5</td>
<td>1,5</td>
<td>3</td>
<td>100</td>
<td>Indoor &amp; Outdoor Lighting / Navigation Lights</td>
</tr>
<tr>
<td>70353</td>
<td>Marine Cable, Single core, Tinned, 1x2,5mm², black</td>
<td>2,5</td>
<td>2,5</td>
<td>3.6</td>
<td>100</td>
<td>Medium Load Appliances / e.g Refrigerator</td>
</tr>
<tr>
<td>70354</td>
<td>Marine Cable, Single core, Tinned, 1x2,5mm², red</td>
<td>2,5</td>
<td>2,5</td>
<td>3.6</td>
<td>100</td>
<td>Medium Load Appliances / e.g Refrigerator</td>
</tr>
<tr>
<td>70355</td>
<td>Marine Cable, Single core, Tinned, 1x6mm², black</td>
<td>6</td>
<td>6</td>
<td>5</td>
<td>100</td>
<td>Battery connections / Anchor Winch Supply</td>
</tr>
<tr>
<td>70356</td>
<td>Marine Cable, Single core, Tinned, 1x6mm², red</td>
<td>6</td>
<td>6</td>
<td>5</td>
<td>100</td>
<td>Battery connections / Anchor Winch Supply</td>
</tr>
<tr>
<td>70359</td>
<td>Marine Cable, Single core, Tinned, 1x16mm², black</td>
<td>16</td>
<td>16</td>
<td>10</td>
<td>50</td>
<td>Small loads / e.g. Lighting, small bilge pumps</td>
</tr>
<tr>
<td>70360</td>
<td>Marine Cable, Single core, Tinned, 1x16mm², red</td>
<td>16</td>
<td>16</td>
<td>10</td>
<td>50</td>
<td>Small loads / e.g. Lighting, small bilge pumps</td>
</tr>
<tr>
<td>70361</td>
<td>Marine Cable, Single core, Tinned, 1x25mm², black</td>
<td>25</td>
<td>25</td>
<td>11.5</td>
<td>50</td>
<td>Small loads / e.g. Lighting, small bilge pumps</td>
</tr>
<tr>
<td>70362</td>
<td>Marine Cable, Single core, Tinned, 1x25mm², red</td>
<td>25</td>
<td>25</td>
<td>11.5</td>
<td>50</td>
<td>Small loads / e.g. Lighting, small bilge pumps</td>
</tr>
<tr>
<td>70363</td>
<td>Marine Cable, Single core, Tinned, 1x35mm², black</td>
<td>35</td>
<td>35</td>
<td>13</td>
<td>50</td>
<td>Small loads / e.g. Lighting, small bilge pumps</td>
</tr>
<tr>
<td>70364</td>
<td>Marine Cable, Single core, Tinned, 1x35mm², red</td>
<td>35</td>
<td>35</td>
<td>13</td>
<td>50</td>
<td>Small loads / e.g. Lighting, small bilge pumps</td>
</tr>
<tr>
<td>70365</td>
<td>Marine Cable, Single core, Tinned, 1x50mm², black</td>
<td>50</td>
<td>50</td>
<td>15</td>
<td>30</td>
<td>Small loads / e.g. Lighting, small bilge pumps</td>
</tr>
<tr>
<td>70366</td>
<td>Marine Cable, Single core, Tinned, 1x50mm², red</td>
<td>50</td>
<td>50</td>
<td>15</td>
<td>30</td>
<td>Small loads / e.g. Lighting, small bilge pumps</td>
</tr>
<tr>
<td>70367</td>
<td>Marine Cable, Single core, Tinned, 1x70mm², black</td>
<td>70</td>
<td>70</td>
<td>17</td>
<td>30</td>
<td>Small loads / e.g. Lighting, small bilge pumps</td>
</tr>
<tr>
<td>70370</td>
<td>Marine Cable, Single core, Tinned, 1x70mm², red</td>
<td>70</td>
<td>70</td>
<td>17</td>
<td>30</td>
<td>Small loads / e.g. Lighting, small bilge pumps</td>
</tr>
<tr>
<td>70371</td>
<td>Marine Cable, Single core, Tinned, 1x95mm², black</td>
<td>95</td>
<td>95</td>
<td>20</td>
<td>30</td>
<td>Small loads / e.g. Lighting, small bilge pumps</td>
</tr>
<tr>
<td>70372</td>
<td>Marine Cable, Single core, Tinned, 1x95mm², red</td>
<td>95</td>
<td>95</td>
<td>20</td>
<td>30</td>
<td>Small loads / e.g. Lighting, small bilge pumps</td>
</tr>
<tr>
<td>70368</td>
<td>Marine Cable, Twin core, Tinned 2x1,5mm², black</td>
<td>1,5</td>
<td>1,5</td>
<td>7</td>
<td>100</td>
<td>Small loads / e.g. Lighting, small bilge pumps</td>
</tr>
<tr>
<td>70369</td>
<td>Marine Cable, Twin core, Tinned 2x2,5mm², black</td>
<td>2,5</td>
<td>2,5</td>
<td>9.4</td>
<td>100</td>
<td>Small loads / e.g. Lighting, small bilge pumps</td>
</tr>
</tbody>
</table>

**Command cables, linking the controller (ie Joystick) to the thruster's control box:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Sectional Area (mm²)</th>
<th>Temperature (°C)</th>
<th>Overall Diameter (mm)</th>
<th>Meters per reel</th>
<th>Uses</th>
</tr>
</thead>
<tbody>
<tr>
<td>312781</td>
<td>Max Power Cable 6x0,5mm² (Tunnel Thruster)</td>
<td>0,5</td>
<td>-</td>
<td>-</td>
<td>25</td>
<td>All Tunnel Thrusters (CT)</td>
</tr>
<tr>
<td>312948</td>
<td>Max Power Cable 10x0,5mm² (VIP, Compact &amp; R-series)</td>
<td>0,5</td>
<td>-</td>
<td>-</td>
<td>25</td>
<td>All Retractable Thrusters (VIP, Compact Retract &amp; R-series)</td>
</tr>
</tbody>
</table>
Accessories

Fuses (electric tunnel and retractable thrusters)

Max Power offers a range of calibrated fuses specifically selected model by model and tested to offer an increased level of protection over standard ANL fuses. Chosen taking into account each fuse's specific blow curve, Max Power fuses match the requirements of each thruster system.

<table>
<thead>
<tr>
<th>Thruster model</th>
<th>CT35/45</th>
<th>CT60</th>
<th>CT80 / C. Retract</th>
<th>CT60 / CT80 / C. Retract</th>
<th>CT100 / V150</th>
<th>CT125 / VIP150</th>
<th>CT165 / CT80 / CT80 / CT300 / 325</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
<td>12 V</td>
<td>12 V</td>
<td>24 V</td>
<td>12 V</td>
<td>24 V</td>
<td>24 V</td>
<td>24 V</td>
</tr>
<tr>
<td>Amp</td>
<td>125 A</td>
<td>160 A</td>
<td>200 A</td>
<td>125 A</td>
<td>315 A</td>
<td>200 A</td>
<td>250 A / 400 A</td>
</tr>
<tr>
<td>Fuse</td>
<td>35021</td>
<td>35019</td>
<td>35020</td>
<td>35021</td>
<td>35022</td>
<td>35020</td>
<td>35027 / 35028</td>
</tr>
<tr>
<td>Fuse holder</td>
<td>35017</td>
<td>35017</td>
<td>35017</td>
<td>35017</td>
<td>35018</td>
<td>35018</td>
<td>35018</td>
</tr>
</tbody>
</table>

**Extracto handle** 312882 (for all models)

**WARNING:**
Please use original Max Power fuse and battery isolator for warranty.

### Electric battery isolator

<table>
<thead>
<tr>
<th>Code</th>
<th>318400</th>
<th>318401</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accessory</td>
<td>Electric battery isolator</td>
<td>Electric battery isolator</td>
</tr>
<tr>
<td>Voltage</td>
<td>12 V</td>
<td>24 V</td>
</tr>
</tbody>
</table>

### New Propellers

**20% Less Noise**

**5% Higher Efficiency**

<table>
<thead>
<tr>
<th>Code</th>
<th>35041</th>
<th>35040</th>
<th>35042</th>
<th>313810</th>
<th>35033</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thruster Model</td>
<td>CT35 / 45</td>
<td>CT60 / 80 / 100 / 125 VIP 150 &amp; Compact retract</td>
<td>CT165 / CT225 &amp; VIP 250</td>
<td>CT300</td>
<td>CT325</td>
</tr>
<tr>
<td>Diameter (mm)</td>
<td>Ø 125</td>
<td>Ø 185</td>
<td>Ø 250</td>
<td>Ø 300</td>
<td>Ø 315</td>
</tr>
<tr>
<td>Colour</td>
<td>Grey</td>
<td>Grey</td>
<td>Grey</td>
<td>Black</td>
<td>Black</td>
</tr>
</tbody>
</table>

**Propellers**

**Product Innovation:**
- Protective caps
- Corrosion resistant
- Precision machining
- Without oil pipelines
- Without porosity
- 4 sealed bearings

**Product Advantages:**
- Maintenance free
- No electrolysis
- Plug & Play
- Lower costs

<table>
<thead>
<tr>
<th>Code</th>
<th>315318</th>
<th>310376</th>
<th>35034</th>
<th>315321</th>
<th>35035</th>
<th>315338</th>
<th>315324</th>
<th>315411</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thruster model</td>
<td>CT35</td>
<td>CT45</td>
<td>CT60</td>
<td>CT165 / 225</td>
<td>CT80 / 100 / 125</td>
<td>CT300</td>
<td>CT325</td>
<td>CT325</td>
</tr>
<tr>
<td>Construction</td>
<td>Composite</td>
<td>Bronze</td>
<td>Aluminium</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diameter (mm)</td>
<td>Ø 125</td>
<td>Ø 125</td>
<td>Ø 185</td>
<td>Ø 250</td>
<td>Ø 185</td>
<td>Ø 300</td>
<td>Ø 315</td>
<td>Ø 315</td>
</tr>
<tr>
<td>Propellers</td>
<td>Mono</td>
<td>Duo</td>
<td>Mono</td>
<td>Duo</td>
<td>Duo</td>
<td>Duo</td>
<td>Duo</td>
<td>Duo</td>
</tr>
</tbody>
</table>
Manufactured from fully isophtalic resin and pre-gel coated, Max Power’s high quality tunnels have the added advantage of a first coat of matt before being filament wound. Cutting and drilling can therefore be carried out without the risk of damaging the gel coat on the inside surface of the tunnel.

Also manufactured from fully isophtalic resin, Max Power’s range of stern adaptors are SMC moulded (sheet moulding compound) in a male / female steel mould. This ensures perfect resin fibre ratio and exceptional reproduction of form.

Cowls are easily fitted to the stern adaptors and allow the use of stern thrusters in relatively shallow draft applications.

<table>
<thead>
<tr>
<th>Thruster Model</th>
<th>CT35/45</th>
<th>CT60/80/100/125</th>
<th>CT165/225</th>
<th>CT300</th>
<th>CT325</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tunnel Diameter</td>
<td>125 mm</td>
<td>185 mm</td>
<td>250 mm</td>
<td>300 mm</td>
<td>315 mm</td>
</tr>
<tr>
<td>Tunnel Length</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>500 mm</td>
<td>42546</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>750 mm</td>
<td>42547</td>
<td>42549</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1000 mm</td>
<td>313804</td>
<td>42550</td>
<td>42553</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1250 mm</td>
<td>313809</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1500 mm</td>
<td>-</td>
<td>42551</td>
<td>42554</td>
<td>313811</td>
<td>35004</td>
</tr>
<tr>
<td>2000 mm</td>
<td>-</td>
<td>-</td>
<td>313812</td>
<td>42557</td>
<td></td>
</tr>
<tr>
<td>2500 mm</td>
<td>42548</td>
<td>42552</td>
<td>42555</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Stern Adaptors</td>
<td>315389</td>
<td>315392</td>
<td>315395</td>
<td>-</td>
<td>35015</td>
</tr>
<tr>
<td>Stern Adaptor Fixation Kit</td>
<td>35016 (for all models)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stern Adaptor Cowls</td>
<td>315398</td>
<td>315399</td>
<td>315400</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Mounting bases to suit all of our retractable thrusters are available to facilitate installation. Manufactured from isophtalic GRP, they can be easily integrated into new builds or retro-fitted. Aluminium yachts are catered for with suitable aluminium flanges. These are designed to be welded to the top of a mounting base constructed in the hull.

<table>
<thead>
<tr>
<th>Code</th>
<th>311362</th>
<th>35025</th>
<th>311303</th>
<th>313760</th>
<th>35026</th>
<th>635663</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Aluminium Flange</td>
<td>GRP Mounting Base</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Suitable for</td>
<td>Compact Retract VIP 150</td>
<td>VIP 250</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Compact Retract VIP 150</td>
<td>VIP 250</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
As of 2013, a strong partnership has been built among Lofrans’ and Max Power thrusters creating a synergy in yacht control and maneuvering solutions.

As a natural evolution from simple stand-alone independent units, Max Power is able to offer fully integrated hydraulic systems for sailing yachts. Whether running winches, windlasses, bow thrusters, stern thrusters, hydraulic davits or complex keel lifting mechanisms, our complete hydraulic solutions are used by many of the world’s large sailing yacht manufacturers. Unique in their flexibility, Our systems are built using a common central line principle.

This means any function can be run from any power source thereby allowing a high level of user control. The use of load sensing pumps and valves ensures efficient and silent operation over a wide range of hydraulic flows and pressures. Our experience in designing and supplying complete solutions ensures that a Max Power-Lofrans’ integrated system will be efficient, flexible and reliable.

Sailing yacht power systems typically include one or several generator mounted hydraulic pumps and in addition will require a DC power pack for silent sailing and light maneuvering. The PowerValve™ power pack range used in our systems, offers exceptional flexibility and power efficiency over a wide range of hydraulic flows.

Available as single or twin motor units, each motor pump can deliver 3 flow ratings at two predetermined system pressures, thereby accommodating a wide variety of hydraulic functions. From high pressure, low flow keel, to a powerful high flow windlass, each function only draws the amperage needed for that specific application.

<table>
<thead>
<tr>
<th>Code</th>
<th>316511</th>
<th>317908</th>
<th>317909</th>
<th>317907</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motor</td>
<td>1 x 8 KW</td>
<td>2 x 8 KW</td>
<td>1 x 13 KW</td>
<td>2 x 13 KW</td>
</tr>
<tr>
<td>Settings</td>
<td>3</td>
<td>6</td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>Flow range</td>
<td>10 &lt; 30 l/min</td>
<td>10 &lt; 60 l/min</td>
<td>10 &lt; 30 l/min</td>
<td>10 &lt; 60 l/min</td>
</tr>
<tr>
<td>Pressure</td>
<td>140 &lt; 214 bar</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>35 kg</td>
<td>76 kg</td>
<td>39 kg</td>
<td>83 kg</td>
</tr>
</tbody>
</table>
Max Power offers a complete range of hydraulic parts using only the best suppliers.
Hydraulic thrusters need a carefully designed hydraulic system to run them reliably and efficiently. Often this system may only be required for the yacht’s thruster(s). The most common form of thruster only system uses an engine as its power source. These can offer unlimited run times and do not need batteries or high power cables. Two types of hydraulic pumps can be used for these dedicated systems.

**Variable displacement pumps**

A variable displacement pump can be used when a fixed flow is needed but the engine RPM is likely to vary. This would typically be a main engine or gearbox mounted pump. Often used on large powerboats, these systems offer a powerful solution for larger thrusters.

**Fixed displacement pumps**

Used when a generator with a PTO (power take off) is available, fixed displacement pumps give a single (fixed) flow at a given engine RPM. Highly robust, these systems are simple to install and cost effective.

Sometimes an engine driven pump may not be feasible, if this is the case Max Power manufactures a range of dedicated DC power packs specifically designed to run our range of hydraulic thrusters both retractable and tunnel. These have been designed to supply a fixed flow of oil at a specific pressure.

Although still fundamentally a DC thruster, a hydraulic unit run from a DC power pack offers a host of advantages over conventional DC thrusters.

- Better weight distribution in the yacht
- The ability to fit the thruster unit in habitually damp and even wet areas such as sail lockers
- Allows the DC motor to be placed close to the batteries that supply it, whilst still enabling the installation of the thruster(s) in the yacht’s extremities

Whether run from a DC motor or an engine, Max Power can supply a full range of components including all necessary accessories such as a variety of oil tanks and control valves.

In both cases Max Power can advise and assist in the design of an efficient system suited to your needs.
Max Power Can Bus System

**Functional Concept**

When a hydraulic function is called, depending if the system is running on DC or PTO POWER, a specific sequence of valves & solenoids need to be energised. It is the electrical control system that does this in the **correct order & with the correct timing**.

It is built using a modular construction incorporated 4 main types of control Modules these are as follows:

- **IN/OUT Control Module**
- **DC PUMP Control Module**
- **PTO Control Module**
- **Main Control Module**

This must be fitted in an easily accessible dry and well ventilated area. The crew must be able to consult this module rapidly and easily. This module is not water resistant.

*The figure shows a typical installation system using only 1 main control module CAN Bus trunk. Any combination of the systems shown above can be envisaged.*

**Advantages**

1. Each function or ‘line’ can have as many input as required. This brings much needed flexibility to the super yacht build process
2. Each channel is manually identified through the use of a unique & patented dial system
3. No PC setup is necessary! No programming is needed!
4. Simply user interface
5. System upgrades, adding control functions or pumps is simple and rapid

“MaxPower has been supplying us with thrusters and hydraulic power generation and distribution for 10 years now and we are very happy with their products. I really recommend their Power Pack and Canbus Monitoring which are compact, efficient, reliable, save a lot of wiring weight, allow full customization, give the flexibility to add more users or deck switches in the future without complicated rewiring which is quite useful. Great products.”

Pascal Riera
Technical Project Manager (Systems) at Southern Wind Shipyard
www.max-power.com

ADVISOR
Complete library filled with up-to-date technical information, data and drawings

PRODUCTS
Comprehensive product selection packed with information.

SPARE PARTS
Exploded diagrams for complete range of thrusters
Simple spare part ordering
Simplified spare part selection - Send a spare parts request order directly to Max Power
WARRANTY
Register your unit and take advantage of the warranty period.

DISTRIBUTION AND SERVICE
Global presence, local support
R-Range Hydraulic Thruster Revision

The Max Power Thruster Revision Program is carried out at our production facilities in Monza.

- Initial inspection and complete disassembly of your Retractable Hydraulic Thruster.
- Inspection and full report on the condition of all components, with photos of all parts requiring replacement.
- Replacement of all seals and bearings.
- Repair cost analysis through a comprehensive and detailed quotation.
- Rebuild of your unit following your approval to proceed.
- Extra option of grit-blasting of all casted parts and re-painting.
- Delivery of your thruster in as "As-good-as-new" condition, with a warranty period of one year.

The Revision program is carried out by our experienced technical personnel, having developed through a series of educational seminars by our engineers and marine professionals.

For further details on Revision Program please contact Max Power at contact@max-power.com.
Since the beginning of 2013 Max Power has been heavily invested in, following the action plan to upgrade its production processes, quality systems and logistics structure. Investments also included a tailor-made WMS and an SAP ERP system.

Max Power offers a full vessel maneuverability range, from simple tunnel thrusters to top-of-the-range retractable thrusters, ensuring complete freedom of choice. Backed up by an extensive range of accessories, power options and customized solutions, Max Power has become a leader in its market with a dedicated group of followers.

Renowned for supplying high quality products, Max Power has remained dedicated to designing and producing innovative and often unique solutions which all strive to bring ultimate performance into the world of everyday yachting.

With more than 25 years of experience in designing and manufacturing leisure marine products, there is certainly a Max Power bow thruster, stern thruster or related equipment to meet your requirements.

www.max-power.com