

BARRUS

E. P. Barrus Ltd. Special Products Division



DELTA



BAE SYSTEMS

Specialist Design and Engineering Solutions

The Special Products Division is a dedicated team set up to design and develop custom-built engines and accessories to meet the specific operational requirements of its customers. The team has the experience and knowledge to solve the stringent requirements and applications of specialist organisations including professional rescue services, the military and other government and commercial organisations.

Barrus has developed close relationships with many of its major customers working as consultants and suppliers. These include organisations such as the RNLI, UK MoD, US DoD, HM Coastguard, Overseas Government Forces, Local Authorities, Police and Fire Service Search and Rescue Units.

Barrus has created the innovative FAST PIRS for the military, commercial and rescue services which enables an engine to be rapidly started after being submerged. This is an enormous advance for self-righting search and rescue vessels.

Barrus were proud to be awarded a long term partnering agreement with the UK MoD. This covers the supply, overhaul and repair of all outboard engines, Seatek and Yanmar inboard diesel engines and related post-design services and in-service support.

Another example of Barrus innovation is the multi-fuel outboard engine. This was designed and developed for the UK MoD and is capable of running on four different NATO fuels , NATO F34 AVTUR (JP8), NATO F44 AVCAT (JP5), NATO F67 (Gasoline – unleaded) and NATO F76 (Diesel – Naval).





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Multifuel Outboard

F67 (Gasoline) / F34 (JP8) / F44 (JP5) / F76 (NATO Diesel)

Specifications :-

| | |
|----------------------------|--|
| Maximum Output | |
| F76* | 30.00kW @ 6000rpm |
| F44 | 32.28kW @ 6000rpm |
| Gasoline F67 | 34.42kW @ 5700rpm |
| Full Speed Operation Range | 5400 - 6000rpm |
| Transom Height | 403mm Shortshaft / 530mm Longshaft |
| Total Weight | 89.5kg without Tilt Trim / 96.5kg with Tilt Trim |
| Displacement/No. Cylinders | 697cc/3 |
| Bore x Stroke | 68mm x 64mm |
| Induction System | Reed Valve |
| Cooling System | Thermostat with Rubber Impeller |
| Lubrication | Automix- Oil Injection |
| Fuel Requirement | Unleaded/F44/F76 |
| Gear Ratio | 13 : 24 (1.85 : 1) |
| Gearshift | Forward-Neutral-Reverse |
| Trim Positions | 6 (4-24 degrees) |
| Starting System | Electric Standard (Key Switch on Engine) |
| Ignition System | Capacity Discharge with Electronic Advance |
| Alternator | 12 Volt 280 Watt |
| Propeller | Splined Rubber Hub (8"-19" Pitch) |
| Oil | 2-Stroke Optimax |



Post.Immersion.Restart.System.



The Barrus PIRS system can be fitted to most of our 2 stroke engine range and provides a system to drain the vital elements of the engine of water following a capsize.



PIRS drain taps shown on 50hp engine.



FAST Post.Immersion.Restart.System.

Specifications :-

| | |
|------------------------------|--|
| Maximum Output | 29.4kW/36.8kW (40hp/50hp @ 5800RPM) |
| Full Speed Operation Range | 5000 - 5700RPM |
| Transom Height | 403mm Shortshaft: 530mm Longshaft |
| Total Weight | 75kg |
| Displacement / No. Cylinders | 697 / 3 |
| Bore / Stroke | 68mm x 64mm |
| Induction System | Reed Valve |
| Carburetors | 3 |
| Cooling System | Thermostat with Rubber Impeller |
| Lubrication | 50 : 1 pre mix |
| Fuel Requirement | Leaded or Unleaded 89 Octane Minimum |
| Gear Ratio | 13 : 24 (1.85 : 1) |
| Gearshift | Forward - Neutral - Reverse |
| Trim Positions | 6 (4 - 24 degrees) |
| Starting System | Manual and Electric Standard (Key Switch on Engine) |
| Ignition System | Capacity Discharge with Mechanical Advance |
| Alternator | 12 Volt 120 Watt |
| Propeller | Splined Rubber Hub (8" - 19" Pitch) |



Re-starting times after submersion :-

| | |
|---|---|
| Manual Starting | After 15 clearing pulls (not under compression) |
| Electric starting (using starter motor) | Within 60 seconds |

(1) Engine running. (2) Engine submerged. (3) Engine righted and single FAST PIRS lever pulled open. (4) Operate electric starter for 20 seconds or 15 clearing pulls manually. (5) FAST PIRS lever is closed. (6) Engines fuel system is reprimed. (7) Restart the engine. (8) Engine running and underway within 60 seconds using electric starter or 120 seconds when starting manually.



Electric restart procedure shown.

2 Stroke Outboards

| Models | Kilowatts ⁽¹⁾ | Max. RPM at Full Throttle | Cylinders/ Displacement | Starting | Gear Ratio | Alternator System ⁽²⁾ | Weight ⁽⁴⁾ |
|-----------------------|--------------------------|---|-------------------------|--------------------|-------------------------------|--|--------------------------|
| OPTIMAX | | | | | | | |
| 225 - 200 OptiMax | 165 - 147 kW | 5000 - 5750 | V6 / 3032 cc | Electric | 1.75:1 | Belt-Driven 60 amp (756 watt) | 225 kg |
| 175 - 150 - 135 | 129 - 110 - 99.2 kW | 175 - 150: 5250 - 5750 135: 5000 - 5600 | V6 / 2507 cc | Electric | 175 - 150: 1.87:1 135: 2.00:1 | Belt-Driven 60 amp | 195 kg |
| 115 - 90 - 75 OptiMax | 84.5 - 66.2 - 55.1 kW | 5000 - 5750 | 3 / 1526 cc | Electric | 115: 2.07:1 90 - 75: 2.33:1 | Belt-Driven 60 amp (756 watt) | 170 kg |
| 2 STROKE | | | | | | | |
| 250EFI - 225EFI | 183 - 165 kW | 5000 - 5800 | V6 / 3032 cc | Electric | 1.75:1 | Belt-Driven 60 amp (756 watt) | 220 kg |
| 200EFI | 147 kW | 5000 - 5800 | V6 / 3032 cc | Electric | 1.87:1 | Belt-Driven 60 amp (756 watt) | 188 kg |
| 90 - 75 | 66.2 - 55.1 kW | 90: 5000 - 5500 75: 4750 - 5250 | 3 / 1386 cc | Electric | 2.33:1 | 18 amp (227 watt) | 139 kg |
| 60 + BIGFOOT | 44.1 kW | 5000 - 5500 | 3 / 967 cc | Electric | 60: 1.64:1 60 BIGFOOT: 2.33:1 | 16 amp (201 watt) | 60: 100 kg 60 BF: 109 kg |
| 50 | 36.8kW | 5150 - 5850 | 3 / 697 cc | Manual or Electric | 1.85:1 | 11 amp (130 watt) | 75 kg |
| 40 | 29.4 kW | 4500 - 5500 | 2 / 644 cc | Manual or Electric | 2.00:1 | Electric: 18 amp (227 watt) Man: 10 amp (126 watt) | 75 kg |
| 30 | 22.1 kW | 4800 - 5500 | 2 / 429 cc | Manual or Electric | 1.92:1 | 60 amp (80 watt) | 51 kg |
| 25 | 18.4 kW | 5000 - 5800 | 2 / 429 cc | Manual or Electric | 1.92:1 | 60 amp (80 watt) | 51 kg |
| 15 | 11 kW | 5000 - 6000 | 2 / 262 cc | Manual | 2.00:1 | Standard: ML Optional: M | 35 kg |
| 5 ⁽⁴⁾ | 3.68 kW | 4000 - 5000 | 1 / 102 cc | Manual | 2.15:1 | Optional 4 amp (50 watt) lighting | 20 kg |
| 3.3 - 2.5 | 2.4 - 1.8kW | 3.3: 4500 - 5500 2.5: 4200 - 5200 | 1 / 74.6 cc | Manual | 3.3: 2.15:1 2.5: 1.85:1 | N/A | 13 kg |

(1) Measured at propshaft in accordance with ICOMIA 28. **(2)** Requires rectifier to complete installation manual versions.

(3) Dry weight specification is for lightest model and excludes engine oil, rigging hardware and propeller. **(4)** Standard + integrated fuel tank 2.5 litres.



4 Stroke Outboards

| Models | Kilowatts ⁽¹⁾ | Max. RPM at Full Throttle | Cylinders/ Displacement | Starting | Gear Ratio | Alternator System ⁽²⁾ | Weight ⁽⁴⁾ |
|----------------------------|--------------------------|--|----------------------------------|--------------------|-------------------------------|----------------------------------|-------------------------------|
| 300 - 250 | 221 - 184 kW | 5800 - 6400 | 6 / 2598 cc | Electric | 300: 1.75:1 250: 1.85:1 | 70 amp (882 watt) | 288 kg |
| 200 - 150 | 147 - 129 kW | 5800 - 6400 | 4 / 1732 cc | Electric | 2.08:1 | 70 amp (882 watt) | 231 kg |
| 150EFI | 110.3 kW | 5000 - 5800 | 4 / 3000 cc | Electric | 1.92:1 | 60 amp (756 watt) | 206 kg |
| 115EFI - 100EFI - 80EFI | 84.6 - 73.6 58.8 kW | 115: 5800 - 6400 100 - 80: 5000 - 6000 | 4 / 1732 cc | Electric | 2.33:1 | 50 amp (630 watt) | 181 kg |
| 60EFI BF - 60EFI | 44.1 kW | 5500 - 6000 | 4 / 995 cc | Electric | EFI BF: 2.33:1 EFI: 1.83:1 | 18 amp (227 watt) | EFI BF: 118 kg EFI: 112 kg |
| 50EFI - 40EFI | 36.8 - 29.4 kW | 5500 - 6000 | 50: 4 / 995 cc 40: 3 / 747 cc | Electric | 50: 1.83:1 40: 2.00:1 | 18 amp (227 watt) | 50: 112 kg 40: 98 kg |
| 30EFI - 25EFI | 22.1 - 18.4 kW | 30: 5250 - 6250 25: 5000 - 6000 | 3 / 526 cc | Manual or Electric | 1.92:1 | 15 amp (186 watt) | 30: 78 kg 25: 71 kg |
| 20 - 15 | 14.7 - 11.0 kW | 20: 5400 - 6100 15: 5400 - 5600 | 2 / 351 cc | Manual or Electric | 2.15:1 | 12 amp (138 watt) | 52 kg |
| 9.9 | 7.28 kW | 5000 - 6000 | 2 / 208 cc | Manual or Electric | 2.08:1 | 6 amp (76 watt) | 38 kg |

VariMax Electric Outboards

| Type | Model Number | Model Name | Voltage | Shaft Length | Peak Thrust | Mount | Tiller Control | Speed |
|---------------|--------------|------------------------------|---------|--------------|-------------|--------------------------|------------------|------------------|
| Transom Mount | 966010010 | VariMAX V40 HT 30" 12V TLMT | 12 | 30" / 76cm | 40 | Taper Lock Transom Mount | Twist extendable | Digital Variable |
| Transom Mount | 966010020 | VariMAX V40 HT 36" 12V TLMT | 12 | 36" / 91cm | 40 | Taper Lock Transom Mount | Twist extendable | Digital Variable |
| Transom Mount | 966010030 | VariMAX V45 HT 36" 12V TLMT | 12 | 36" / 91cm | 45 | Taper Lock Transom Mount | Twist extendable | Digital Variable |
| Transom Mount | 966010050 | VariMAX V55 HT 36" 12V TLXMT | 12 | 36" / 91cm | 55 | Taper Lock Transom Mount | Twist extendable | Digital Variable |
| Transom Mount | 966010060 | VariMAX V55 HT 42" 12V TLXMT | 12 | 42" / 107cm | 55 | Taper Lock Transom Mount | Twist extendable | Digital Variable |
| Transom Mount | 966010070 | VariMAX V70 HT 42" 12V TLMT | 24 | 42" / 107cm | 70 | Taper Lock Transom Mount | Twist extendable | Digital Variable |



Custom Accessories

Twin Engine Single Tiller

Twin Mariner outboard motors are controlled with a single tiller arm. This tough, patented, quick release system is designed to provide ease of use. Each outboard may also be used as a single unit.



Engine Lifting Harness

A harness to allow outboards to be hoisted safely during the loading and unloading of vessels.



Outboard Trolley

This rigid steel trolley enables easy transportation of outboards around the workshop. Can transport engines up to 50hp.



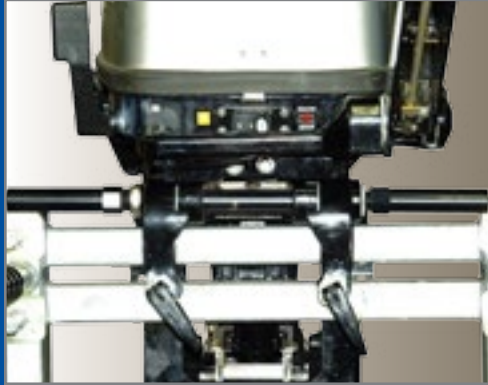
Propeller Guards

This simple attachment gives effective protection to the propeller and driver, without significant detracton from the engine's performance.



Carrying Handles

These tough, balanced handles simplify engine installation or removal and enhance portability. They are also designed to offer optimum protection for the engine whilst in transportation.



Custom Accessories

Engine Transit Frames

This rigid alloy tube frame protects the engine and fuel tanks from damage whilst in transit. The frame has also been designed to be used as a mobile workshop and includes a tool accessory box.



Outboard Cowl Covers

Our outboard cowl covers are designed for the toughest environments and are UV stable, water resistant, soft lined and breathable.



Rotationally Cast Fuel Tanks

These polyethylene rotationally moulded petrol and diesel fuel tanks are exceptionally strong and can be stacked easily for optimum storage. The Special Products division also manufacture a low magnetic signature version for mine clearance duties.



Umbilical Tube

The umbilical tube enables the engine to be run from the ship's own water supply. Engines can be run out of the water. As a result they can be lowered ready to run and servicing is made much easier.



Waterproof Hour Meters

Engine usage can be monitored in any condition, by keeping constant checks on operational times with this waterproof hour meter.



12 Volt Auxilliary Power Supply

A regulator/rectifier can be fitted to most engines along with a quick release connection to give a convenient power supply up to 12v.



Rescue and Disaster Relief

Air Lifiable Pump

Utilised by H.M. Coastguard search and rescue helicopters is a 2" trash pump designed with a lightweight, air-portable frame that can be used for salvage, fire fighting and general pumping. the pump weighs just 48kg and has a maximum flow of 820 litres (180 gallons) per minute.



Salt Water Pump

A Yanmar powered Barrus supplied salt-water rescue pump is an integral part of the RNLI all-weather lifeboat fleet. This 2" pump is ideal for applications on salt water and mild base chemical (PH 4-9). It has a maximum flow of 865 litres (190 gallons) per minute and weights just 40kg.



SeaSearch Inflatables

SeaSearch inflatables are easy to store, transport and are ready in minutes. They range from 3.9 to 4.2 metres and can be rowed or powered by Mariner outboards up to 30hp. Other features include:

Aluminium Floor

This anodised double thickness floor is light and durable thanks to it's special cavity design. The ribbed patterning gives extra grip underfoot, whilst the sectional design makes it easy to store.

Inflatable Keel

All SeaSearch dinghies feature an inflatable keel as standard. It gives better under-power control and better directional control at speed.

Handles and Seating

Handles on the inside of the tubes in case of rough conditions. There are also non-slip reinforcement patches for seating and safety plus an easily removable wooden seat.

Fuel Strap and Oar Clips

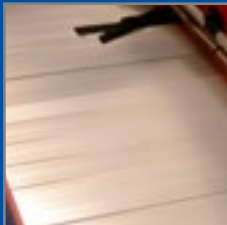
The fuel tanks tie-down strap keeps the hose neatly to the side preventing a trip or fuel spill hazard whilst the oar clips let you store the oars when an outboard is in use.

Rubbing Strake

The double thickness strake is designed to take the knocks and provide the best protection possible for the inflated tube.

Bow Roller

The bow roller feature enables you to anchor wherever you need to, with an additional cleat handle inside the boat to.



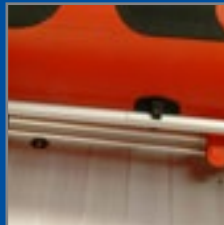
Aluminium Floor



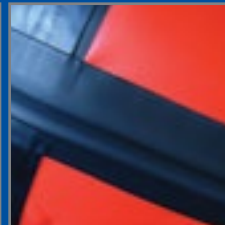
Inflatable Keel



Handles and Seating



Fuel Strap & Oar Clips



Rubbing Strake



Bow Roller



MoD 5.5kVa Emergency Relief Generator

Specifications :-

Yanmar L100N low noise, air cooled, single cylinder diesel

Electric / manual start

5.5kVa continuous (50Hz)

3.5hrs running @ 5kVa

230V 16A, 115V 16A
+ 32A receptacles (50Hz)

Overload trips & voltage selection switch

Dimensions (LxWxH)
788mm x 708mm x 728mm

Total weight 150kg

Durable Electrophoretic Coating



Easy Moving Handles



Rugged Frame with Electrophoretic Coating



Lifting Frame



Earthing Rod

2kVa Compact Inverter Generator

Specifications :-

Single cylinder, 4 stroke, forced cooling OHV

2.1hp rated output

Fuel consumption: $\leq 395\text{g/kW h}$

50 - 60Hz rated frequency

230/120 rated voltage

1.0 power factor

12V DC voltage

8.3A DC current

Recoil starting system

Noise: 61dBA @ $\leq 7\text{m}$

Dimensions (L x W x H mm): 499 x 285 x 455

21kg net weight



Outboard Options Matrix

| Engine | Brand | Std Prop | Props | Lengths | PIRS | Fast PIRS | Carrying Handle | Transit Frame | Prop Guard | Quick Release Transom | Hour Meter | HIPS | Umbilical | Tool Kit |
|---------|-----------------|----------|--------|------------|------|-----------|-----------------|---------------|------------|-----------------------|------------|------|-----------|----------|
| 2.5 | MARINER/MERCURY | 6 | 6-7 | S, L | - | - | - | - | - | - | YES | - | - | - |
| 3.3 | MARINER/MERCURY | 6 | 6-7 | S, L | - | - | - | - | - | - | YES | - | - | - |
| 5 | MARINER/MERCURY | - | 6-9 | S, L | YES | - | - | - | - | - | YES | - | - | - |
| 15 | MARINER/MERCURY | 9 | 5.5-10 | L | YES | - | YES | YES | YES | - | YES | YES | - | YES |
| 25 | MARINER/MERCURY | 11L/13S | 8-14 | S, L | YES | - | YES | YES | YES | YES | YES | YES | YES | YES |
| 30 | MARINER/MERCURY | 11L/13S | 8-14 | S, L | YES | - | YES | YES | YES | YES | YES | YES | YES | YES |
| 40 | MARINER/MERCURY | N/A | 8-19 | S, L | YES | - | YES | YES | YES | - | YES | YES | YES | YES |
| 50 | MARINER/MERCURY | N/A | 8-19 | S, L | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| 60 | MARINER/MERCURY | N/A | 8-19 | L | YES | - | YES | YES | YES | - | YES | - | YES | YES |
| 60BF | MARINER/MERCURY | N/A | 9-28 | L | YES | - | - | YES | YES | - | YES | - | YES | YES |
| 75 | MARINER/MERCURY | N/A | 9-28 | L, XL | YES | - | - | YES | YES | - | YES | - | YES | YES |
| 90 | MARINER/MERCURY | N/A | 9-28 | L, XL | YES | - | - | YES | YES | - | YES | - | YES | YES |
| 75Opti | MARINER/MERCURY | N/A | 9-28 | L, XL | YES | - | - | YES | YES | - | YES | - | YES | YES |
| 90Opti | MARINER/MERCURY | N/A | 9-28 | L, XL | YES | - | - | YES | YES | - | YES | - | YES | YES |
| 1150pti | MARINER/MERCURY | N/A | 9-28 | L, XL | YES | - | - | YES | YES | - | YES | - | YES | YES |
| 1350pti | MARINER/MERCURY | N/A | 11-36 | XL | YES | - | - | YES | - | - | YES | - | YES | YES |
| 1500pti | MARINER/MERCURY | N/A | 11-36 | XL | YES | - | - | YES | - | - | YES | - | YES | YES |
| 2000pti | MARINER/MERCURY | N/A | 11-36 | XL | - | - | - | YES | - | - | YES | - | YES | YES |
| 2250pti | MARINER/MERCURY | N/A | 11-36 | XL | - | - | - | YES | - | - | YES | - | YES | YES |
| 150Ver | MERCURY | N/A | 11-36 | L, XL, XXL | - | - | - | - | - | - | YES | - | YES | YES |
| 200Ver | MERCURY | N/A | 11-36 | L, XL, XXL | - | - | - | - | - | - | YES | - | YES | YES |
| 250Ver | MERCURY | N/A | 11-36 | L, XL, XXL | - | - | - | - | - | - | YES | - | YES | YES |
| 300Ver | MERCURY | N/A | 11-36 | L, XL, XXL | - | - | - | - | - | - | YES | - | YES | YES |



Inboard Engines

Yanmar Light Duty Commercial

| Engine Model | Displacement (Litres) | Horsepower (MHP) | RPM | Dry Weight (KG) | Annual Usage Hours | Rating |
|--------------|-----------------------|------------------|------|-----------------|--------------------|--------|
| 4JH5E | 2.2 | 53 | 3000 | 201 | 1000 | LDC |
| 4JH5-TE | 2.0 | 75 | 3200 | 207 | 1000 | LDC |
| 4JH5-HTE | 2.0 | 110 | 3200 | 207 | 1000 | LDC |
| 4BY2-150 | 2.0 | 150 | 4000 | 258 | 1000 | LDC |
| 6BY2-220 | 3.0 | 220 | 4000 | 315 | 1000 | LDC |
| 4LHA-STP | 3.5 | 240 | 3300 | 365 | 1000 | LDC |
| 6LPA-STP2 | 4.2 | 315 | 3800 | 408 | 1000 | LDC |
| 6LYA-STP | 5.8 | 370 | 3300 | 535 | 1000 | LDC |
| 6LY2A-STP | 5.9 | 440 | 3300 | 530 | 1000 | LDC |
| 6CX-530 | 7.4 | 530 | 2900 | 837 | 1000 | LDC |

John Deere

| Engine Model | Displacement (Litres) | Horsepower (MHP) | RPM | Dry Weight (KG) | Annual Usage Hours | Rating |
|--------------|-----------------------|------------------|------|-----------------|--------------------|--------|
| 4045TFM75 | 4.5 | 107 | 2400 | 462 | 4000 | M1 |
| 4045TFM75 | 4.5 | 121 | 2500 | 462 | 3000 | M2 |
| 4045TFM75 | 4.5 | 135 | 2600 | 462 | 2000 | M3 |
| 6068TFM75 | 6.8 | 158 | 2400 | 730 | 4000 | M1 |
| 6068TFM75 | 6.8 | 178 | 2500 | 730 | 3000 | M2 |
| 6068TFM75 | 6.8 | 201 | 2600 | 730 | 2000 | M3 |
| 6068SFM50 | 6.8 | 236 | 2400 | 793 | 2000 | M3 |
| 6068SFM50 | 6.8 | 267 | 2500 | 793 | 800 | M4 |
| 6068SFM50 | 6.8 | 300 | 2600 | 793 | 300 | M5 |
| 6090SFM75 | 9 | 325 | 2100 | 1066 | 4000 | M1 |
| 6090SFM75 | 9 | 375 | 2200 | 1066 | 3000 | M2 |
| 6090SFM75 | 9 | 425 | 2300 | 1066 | 2000 | M3 |
| 6090SFM75 | 9 | 500 | 2400 | 1066 | 800 | M4 |
| 6125SFM75 | 12.5 | 380 | 1800 | 1475 | 4000 | M1 |
| 6125SFM75 | 12.5 | 449 | 1900 | 1475 | 3000 | M2 |
| 6125SFM75 | 12.5 | 526 | 2000 | 1475 | 2000 | M3 |
| 6125SFM75 | 12.5 | 610 | 2100 | 1475 | 800 | M4 |
| 6135SFM75 | 13.5 | 425 | 1800 | 1525 | 4000 | M1 |
| 6135SFM75 | 13.5 | 500 | 1900 | 1525 | 3000 | M2 |
| 6135SFM75 | 13.5 | 575 | 2000 | 1525 | 2000 | M3 |
| 6135SFM75 | 13.5 | 650 | 2100 | 1525 | 800 | M4 |
| 6135SFM75 | 13.5 | 750 | 2200 | 1525 | 300 | M5 |



Workboat & Riverboat Engines



Shire 15RB
15hp @ 2800 rpm
Displacement: 749 cc
Dry Weight: 142 kg



Shire 70WB
70hp @ 2500 rpm
Displacement: 3319 cc
Dry Weight: 400 kg



Shire 20RB
20hp @ 2800 rpm
Displacement: 1123 cc
Dry Weight: 160 kg



Shire 85WB
85hp @ 2500 rpm
Displacement: 4500 cc
Dry Weight: 545 kg



Shire 30WB
30hp @ 3000 rpm
Displacement: 1331 cc
Dry Weight: 227 kg



Shire 40WB / 50WB
40hp @ 2600 rpm
50hp @ 3000 rpm
Displacement: 2190 cc
Dry weight 270 kg / 284 kg



Shire 130WB
130hp @ 2500 rpm
Displacement: 6800 cc
Dry Weight: 645 kg

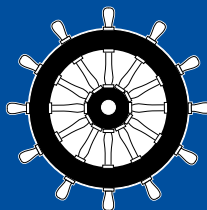


BARRUS

Barrus' commitment to research and development is reflected in the substantial investment it has made in creating one of the world's largest custom engine building facilities.



- DUTCH NAVY
- FRENCH NAVY
- IRISH NAVY
- NORWEGIAN NAVY
- SOUTH KOREAN NAVY
- TAIWAN NAVY
- SULTAN OF OMAN SPECIAL FORCES
- UK MINISTRY OF DEFENCE
- USA DEPARTMENT OF DEFENCE
- BAE SYSTEMS
- MARITIME & COASTGUARD AGENCY (MCA)
- NORTH STAR SHIPPING (FAST RESCUE CRAFT)
- NORTHERN AQUA POWER (T/A DELTA)
- PORT OF LONDON AUTHORITY
- RNLI (TRADING) LTD
- UK FIRE & RESCUE SERVICES – MARINE UNITS
- UK POLICE UNDERWATER SEARCH & RESCUE UNITS
- UK INDEPENDENT SURF LIFE SAVING CLUBS
- UK INDEPENDENT LIFEBOAT TRUSTS



Suppliers of SOLAS approved
outboard & inboard engines.

