

THE INNOVATOR

BARRUS



Cub Cadet's 1st Hydrostatic Mini-Rider



New Fishing Range From Admiral



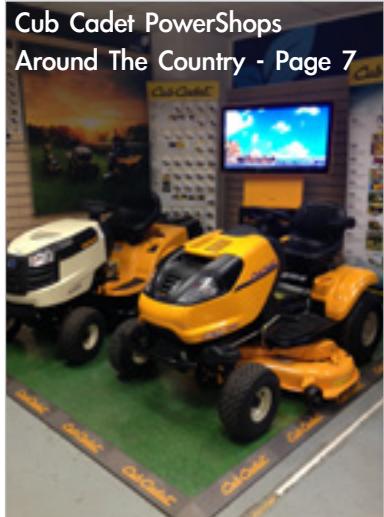
John Deere and Prall-Tec Crusher



YANMAR

Cover: Blastoff Racing's Championship Winning 38ft Fountain powered by twin Yanmar 6LY2A-STP 440hp turbo diesel engines. Full story page 27

Cover photo courtesy of Malc Attrill
Inside cover photo courtesy of Tim Tapping



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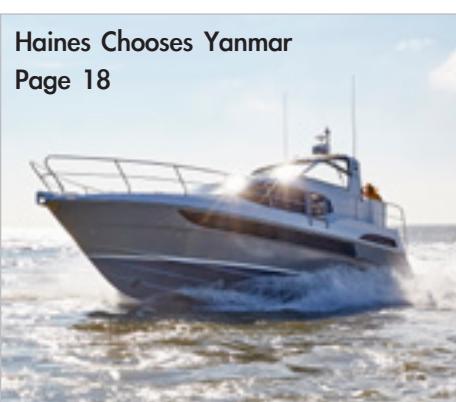
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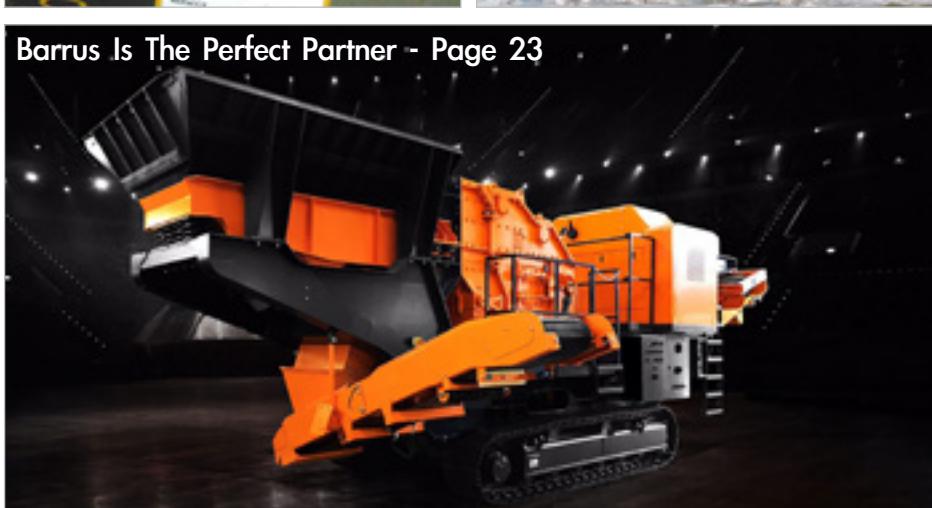
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"The 560 would make a great day boat for river or coastal use for a couple or a family. It would be perfect for a couple of anglers to share, or you could take out up to four for a day quite comfortably, and the best thing is that it is so affordable."

Motorboat Owner Magazine Test April 2016



GREAT FISHING ON-BOARD ADMIRAL BOATS!

Barris is pleased to announce that they are now the UK Distributor for Admiral Boats.

Built in Poland, these robust, durable boats are ideal for both amateur and professional anglers. The range currently consists of three models the Pro-Fish™ 560 and 660 and the Pro-Fish™ Commercial 550.

Pro-Fish™ 560

This boat handles perfectly in rough weather conditions and its spacious cuddy is great for sheltering from the elements. The Pro-Fish™ 560 has everything you need for a good days fishing; onboard safety is well-thought out with high sides and additional grab rails. The Pro-Fish™ 560 combines all the qualities of a practical working boat while maintaining a slim profile that gently cuts through the waves providing the ultimate comfortable ride. The boat has been designed for easy recovery and transportation onto any trailer.

Pro-Fish™ 660

The Pro-Fish™ 660 is ideal for inshore and offshore cruising and fishing. The designers and engineers have focused on making this boat user-friendly and practical, catering for the demands of both the amateur and professional fisherman. The reinforced, seaworthy hull makes the boat very stable, agile and easy to steer and provides a smooth and comfortable ride

in all weathers. There is also a large and spacious area to take cover under when the weather turns.

Pro-Fish 550™ Commercial

The Pro-Fish™ 550 Commercial has been designed for use in both light commercial fishing, harbour and safety boat applications. The boat has additional buoyancy, high freeboard and a rugged and tough hull design. This open boat allows the user easy access all the way around the boat and a two-man centre console allows the helm and co-pilot to sit side by side.





MARINER IN SERVICE AT WEYMOUTH HARBOUR

Weymouth Harbour Authority has chosen Mariner outboard engines for one of their RIBs. Weymouth Harbour is a small, but busy port and considered one of the most attractive in Europe.

Supplied by Mariner dealer, Kingfisher Marine in Weymouth, the four-stroke, Mariner F50 EFI engine has been installed into a 4.8 metre boat that is one of two RIBs used by Weymouth Harbour Authority.

The boat is used for general harbour duties, towing vessels and pontoons and transporting harbour personnel.

Keith Howorth, Harbour Master for Weymouth Harbour Authority explains why they chose the Mariner engine. "The 50hp Mariner is large enough to complete the tasks required of the boat but not too powerful for the less experienced seasonal drivers of the boat. The four-stroke engine option provides a more versatile and economic package. Kingfisher Marine offered

a great service and a reliable stock of spares and as one of our neighbours they are close at hand should we require on-going advice and support."

"Although we have only used the engine for a few hours to date we are confident that it will provide a good service for our requirements," Keith concluded.

"This is the second Mariner engine we have supplied to the Harbour Authority. The importance of on-going technical support was an important factor for the Weymouth Harbour Authority. Kingfisher Marine is open seven days a week, all year round. We carry a large stock of spare parts and we operate a 24-hour breakdown service," commented Dave Caddy, Kingfisher Marine.

For further information on Weymouth Harbour Authority and the services they provide visit www.weymouth-harbour.co.uk.

THE LATEST INFORMATION ON THE MOVE

Barrus has launched new mobile app sites for three of its marine brands, Mariner and Mercury outboards and Quicksilver boats.

The new apps offer quick and easy access to all the latest product information with detailed engine and boat specifications across all ranges. The Quicksilver app also includes full details on the accessory packs available so users can easily see what would complement their boat purchase.

Karen Clarke, Marketing Services Manager for Barrus comments, "Barrus

recognised the benefits of the mobile marketing app in providing an effective way of communicating with prospective users and ensuring that the most up-to-date information is always available."

The success of the apps means that there are plans to build on the app base with additional apps for other brands.

The Mariner and Mercury outboards and Quicksilver boats apps are available for free download on the App Store.





TANK SZ60

STEERING THE ROAD TO SUCCESS

Cub Cadet is a proven innovator of zero-turn technology ride-on lawn mowers with one of the strongest line-ups in the industry.

The Cub Cadet zero-turn range for 2016 features 8 models offering cutting widths from 107 cm / 42" to 152 cm / 60" and capable of cutting areas from ¼ acre up to 20 acres.



RZT Series

"One of the major factors of our success with zero-turn riders is the ease of steering-wheel control," commented Martin Wasley, Sales and Technical Manager for the Garden Division at Barrus. "The four-wheel steering with steering wheel control provides excellent manoeuvrability and reduces cutting time."

"More and more of our customers are also looking for a single machine that will handle a variety of grass conditions and terrain. All models will cope with longer grass when operated as side discharge and most can be easily converted to excellent mulching machines. Sloping ground is no problem with zero-turns as they have the traction and stability to be able to mow a straight line on hills and inclines," Martin concluded.

Express Mowers Ltd, an authorised dealer and service agent in the West Midlands for Cub Cadet has reported excellent zero-turn sales to both domestic and commercial customers. "Customers like the zero-turn riders

as they are easy to manoeuvre and they have better all-round visibility. As the engine is at the rear, engine noise is kept to the back of the machine and stepping on and off the machine is really safe and easy," commented David Aston, Proprietor Express Mowers Ltd. Express Mowers has also added the Cub Cadet TANK SZ60 to their line-up. "The TANK is growing in popularity with our commercial customers. It is extremely well-built and very competitively priced," concluded David.



RZT-S Series



Z-FORCE SZ48



RON SMITH APPROACHES HALF CENTURY IN NEW PREMISES

Garden machinery dealer, Ron Smith & Co has relocated to new, purpose-built premises based in Hereford.

Approaching its fiftieth year, Ron Smith & Co. is a family run business with a wealth of knowledge and experience in selling and servicing garden machinery. The company has grown to become one of the largest garden machinery retailers in the UK, with over thirty employees across the two branches based in Worcester and Hereford. Ron Smith who started the business back in 1967 is still involved along with his son, Mark Smith, who is Managing Director.

"The business has changed and developed over the years and the original Hereford branch was part of our planned expansion. Redevelopment of Hereford was the reason for the move to the new site and we are very pleased with our new look. We have the same friendly, professional staff with a few new faces and we are looking forward to the next exciting step, and the next 50-years!" commented Mark Smith, Managing Director, Ron Smith & Co Ltd.

"With over thirty years' loyal service as a Barrus garden machinery dealer, Ron Smith now distributes all the Barrus brands including Cub Cadet, MTD, Lawnflite, Agri-Fab, WOLF-Garten and Wilkinson Sword and continues to go from strength to strength," commented Martin Wasley, Sales & Technical Manager for the Garden Division at Barrus. "We would like to wish all the team at Ron Smith's every success in their new, impressive premises," Martin concluded.

Covering an area of 12,000 sq.ft, the modern, new premises are divided equally to provide a showroom and spare parts area and a fully equipped workshop and storage facility. The showroom features one the new Cub Cadet PowerShops, a high-impact visual display system aimed at promoting a consistent brand image throughout Europe and to help dealers boost Cub Cadet's presence in their showrooms. Garden tools also feature in the new showroom with WOLF-Garten and Wilkinson Sword back-wall display systems.

CUB CADET POWERSHOPS AROUND THE COUNTRY



Diamond Mowers Ltd, Market Harborough



Handy Garden Machinery, Swindon



Hopkinson & Sons Ltd, Pickering



Revill Mowers, Coleford



Tom Williams Garden Machinery, Minehead



Hunts Engineering Ltd, Shipston-on-Stour



DEALER DAYS ARE A “BROLLY GOOD” SUCCESS

The events took place at the Yeovil Fleet Air Arm Museum; Loseley Park in Guildford; the Imperial War Museum in Duxford; the Great Barn in Aynho which also included clay pigeon shooting; and the Concorde Conference Centre in Manchester, where guests received a tour of Concorde.



The Lawn & Garden 2015 dealer days proved to be incredibly popular throughout August and September – despite the Great British weather!

The dealer days took place over five days and launched the 2016 new products to over 250 delegates taking the opportunity to get hands on and try them out.

Nick Hills, General Manager for the Garden Division at Barrus commented, “We’re delighted with the success of our dealer days. The 2016 new products were very well received and all feedback was incredibly positive. Even the weather didn’t affect things; we just had to put our Cub Cadet umbrellas to use! The locations gave us a great space to show off the products, whilst also giving some special experiences to our dealers to say thank you for everything they do for us”.



Simon Gibson of Easy Life Garden Machinery, Cheshire receiving his red-letter day voucher in the the cockpit of the iconic Concorde.



CABLE-FREE MOWING FROM WOLF-GARTEN

WOLF-Garten can now offer the freedom and flexibility of cable-free lawn mowing. The new WOLF-Garten 72 Volt lithium-ion power battery lawnmower range joins an extensive line-up of push, electric and expert mowers featuring technological innovations to help keep lawn mowing easy and enjoyable.

The aesthetically designed 72 Volt Li-ion power battery lawnmower range features modern 72V Li-ion power battery technology and an Advanced Cut and Collect System that delivers a beautiful even cutting pattern and perfect grass collection.

There are three models in the range. The LIONPOWER34 with a 34cm cut for lawn areas up to 250m²; LIONPOWER37 with a 37cm cut for lawn areas

up to 300m² and the LIONPOWER40 with a cutting width of 40cm for lawns up to 350m². The ergonomic, fully foldable and height adjustable handles with softgrip offer comfortable mowing for all operators.

All models feature the option of choosing between cutting the lawn, collecting the grass cuttings or mulching, which provides moisture and valuable nutrients to the lawn. The CCM-System integrates all these functions just with the turn of a lever.

With a lightweight, hard-wearing poly chassis, super quiet operation and no cables to get tangled, the LIONPOWER models provide the ultimate in safe, hassle free mowing.

CUB CADET HAULER - LET'S YOU DO MORE



The Cub Cadet Hauler is a new, versatile two-wheeled cart designed to be attached to any lawn tractor. Constructed of impact-resistant, industrial grade, high strength, low density polymer material, the Hauler is built to last and won't rust.

Four collapsible sides allow easy access for loading, unloading and dumping, and the foot-pedal dump release makes dumping fast and easy.

When you are finished the cart can be stored vertically, taking 70% less space in the garage or shed than traditional utility carts.

The Cub Cadet Hauler has serious load capacity and can hold up to 10 cubic feet of soil or mulch, shrubs, plants and in fold flat mode it turns into a flat-bed hauler for transporting long loads such as logs or timber.



NEW SEASON CUTTING AND DIGGING RANGES FROM WILKINSON SWORD

Wilkinson Sword has introduced two new ranges, the Ultralight collection of loppers and hedge shears and the Elite digging range.

The Ultralight Hedge Shears feature an 8" non-stick coated blade, for a clean and defined cut. Aluminium handles provide the combination of strength and low weight, whilst the soft grip handles make these hedge shears satisfying to hold and use. With a total weight of a mere 670 gm, these ultralight shears are perfect to help reduce fatigue.

The Ultralight Bypass Loppers have been designed to minimise physical effort and increase efficiency of each cut. Through the use of strong and lightweight materials, this 25mm cutting capacity lopper provides a smooth and clean cut and weighs in at just 450 gm.

Alongside the loppers and shears is a new stainless steel digging range, the Elite spade and fork.

The Elite Stainless Steel range benefits from a high quality stainless steel head with an extra-long socket and 38mm ash shaft for

extra strength & durability. The polished aluminium PYD handle with wooden grip makes the Elite a smart, yet useable, addition to any shed.

There is something for every gardener within the Wilkinson Sword range of garden tools, and each one carries the reassuring Wilkinson Sword guarantee.

From left to right:
Ultralight Bypass Loppers,
Ultralight Hedge Shears,
Elite Digging Fork,
Elite Digging Spade



TAKE A LOOK AT THE REDESIGNED WILKINSON SWORD WEBSITE

The new fully responsive, Wilkinson Sword e-commerce website is now live providing the very best interactive user experience across mobile, tablet and desktop devices.

The complete Wilkinson Sword garden tool collection is available online offering new and popular ranges including pruners, loppers, shears, spades and forks, hand tools, scissors and MultiTools.

One of the key improvements to the functionality of the site is that gardeners now have the choice of either searching for garden tools by a specific gardening task, by product range or individual product if the desired garden tool is known. This enables users to find exactly what they are looking for easily and quickly.

Redesigned product pages offer detailed descriptions and technical specifications for all products including clear, easily identifiable icons for quick reference. Users can also pick up useful tips and seasonal gardening advice from the 'Hints & Tips' section and via the blog. For customers preferring to see Wilkinson Sword product in store, there is a Stockist Locator that lists all garden

centres and garden machinery specialists who stock the product. Visit www.wilkinsonsword-tools.co.uk.

A composite image illustrating the responsive design of the Wilkinson Sword website. It features a large central image of the website's homepage with a lawn and garden background, and four smaller images below showing the website as it appears on a desktop computer, a laptop, a tablet, and a smartphone, demonstrating its compatibility across multiple devices.

INTRODUCING THE WORLD'S FIRST HIGH-PERFORMANCE BATTERY MADE WITH RECYCLED BATTERIES

Energizer has challenged what was thought impossible in the battery industry with its latest breakthrough, Energizer EcoAdvanced, the world's first AA battery made with four percent recycled batteries. Energizer EcoAdvanced is Energizer's highest performing alkaline battery and powers consumers' most critical devices with less impact on the planet.

Scientists at Energizer have developed the world's first energy virtuous circle that uses material from recycled spent batteries to help power its new highest performing alkaline battery. An innovative approach that refines and transforms recycled battery material into a high-performance active ingredient.

When used in conjunction with Energizer's advanced battery construction, it results in a long-lasting unit that has less impact on the planet by reducing the amount of virgin material used in the manufacturing process. The combination of higher power output and longer lasting life further reduces its carbon footprint by reducing the number of batteries that consumers need to power their devices.

Nick Hills, General Manager for the Garden Division at Barrus, comments, "Long-lasting alone wasn't a strong proposition as high on consumers' agenda as the need for a more responsible battery that does not compromise on performance. This journey has just started and the Energizer vision is to increase the amount of recycled battery material from 4% to 40% within the next ten years."

Energizer is committed to bringing positive energy to the world by creating less waste and working toward a future where recycling is more broadly available.



Barrus is a distributor of Energizer batteries and torches

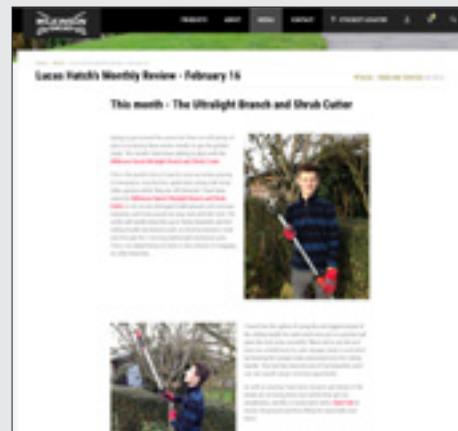
WOLF-GARTEN AND WILKINSON SWORD TEAM UP WITH GARDEN BLOGGERS

In a new campaign to promote accessible gardening, WOLF-Garten and Wilkinson Sword are working together along with prolific gardening writer and blogger, Niki Preston, and, RHS award-winning, 14 year-old Lucas Hatch.

They will be reviewing a selection of WOLF-Garten and Wilkinson Sword garden tools over the year, using the tools in their own garden and reporting their feedback.

Niki's blog, "Two Fingered Gardener" documents Niki's gardening exploits and her experiences of gardening with a disability. With regard to the WOLF-Garten bypass secateurs, Niki was really impressed – "Amazing! Wow! Wonderful! And any other outstanding descriptions you can think of. I know that all sounds too far-fetched but trust me I have tried nearly every pair of secateurs I can get my hands on and have simply never been able to use them, but these were incredible."

Lucas, who won the RHS Young Gardener of the Year in 2012, was also in praise of the products he tested, with the Wilkinson Sword hand fork being "particularly good for removing weeds, loosening the soil and aerating before planting." The best praise, however, was reserved for the shears, which were declared "the best shears I have ever used!".



Their product reviews can be found at www.wilkinsonsword-tools.co.uk and www.wolfgarten-tools.co.uk, or Twitter via @WSGardenTools and @WGardenTools.



CUB CADET RIDE-ON AND PUSH!

Cub Cadet was once again a supporter of Blenheim Horse Trials in 2015. The Cub Cadet sponsored Cross-Country fence, Ride-on and Push, featured product displays including a zero-turn tractor, MySpeed and Triloy rotary mowers.



Cub Cadet sponsored
William Fox-Pitt
jumping at Blenheim.

CUB CADET LAUNCHES NEW MOBILE APP

The new Cub Cadet mobile app is now available offering customers a great way of researching products online before visiting their local Cub Cadet dealer.

The app has been designed in an easy to use catalogue format and from the homepage users simply select the product type that they are interested in across the complete Cub Cadet line up, encompassing lawnmowers, mini-riders, lawn tractors, zero-turn riders, robotics, UTV and chore performers.

Quick reference guides highlight each product's key features and benefits, along with advice on which product to choose based upon mowing area. There are detailed product specifications, and for further information and

videos, it is possible to link through to the Cub Cadet website.

Nick Hills, General Manager for the Garden Division at Barrus, comments, "Cub Cadet's heritage spans 55 years. Whilst we have a strong and prestigious background, we are always evolving and looking to new technologies to support our dealers and customers. Our new app is yet another example of that. Supporting our dealers is key to our success so we want to do all we can to help them, which is why we have rolled out the PowerShop showroom displays and developed this new app."

The Cub Cadet app is available for apple devices and can be downloaded from iTunes by searching for Cub Cadet or Barrus.

MERCURY - THE ICE BREAKER

This photograph was taken by an enthusiastic Mercury Verado owner in Greenland. A clear demonstration of supreme performance and power in the most difficult of conditions!

Photograph supplied courtesy
of Mads Jeppesen



THE NEW YANMAR 6LY440

HIGHEST POWER TO WEIGHT RATIO IN ITS CLASS



The new Yanmar 6LY440 is one of a new 6LY-CR family of inline six-cylinder units which build on the Yanmar tradition of producing state-of-the-art compact and powerful marine diesels that are class-leading in performance, fuel-efficiency, low emissions, and smooth, quiet and dependable running.

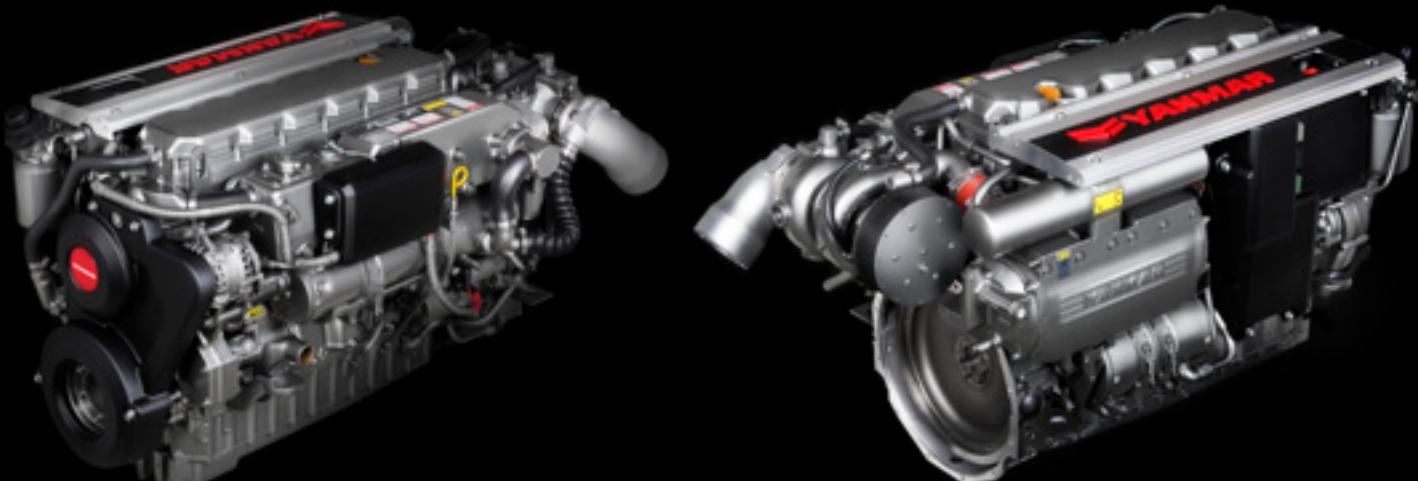
The new model, rated 440hp at 3,300rpm has a power-to-weight ratio of 1.7:1 (kW per kg) giving it not only a significant advantage over the previous 6LY models but also outstripping the offering of all its major competitors in the leisure marine propulsion market. This engine joins the Yanmar 6LY400.

"If performance power cruiser owners detect something familiar about this new engine, that's quite deliberate on Yanmar's part, comments Robert Plant, General Manager for the Marine Inboard Division at Barrus. "The engine is a development of the mechanically controlled 6LY2A engine series that have sold in their thousands over the years. In fact, it uses the same narrow and lightweight LY2 block that made it a favourite for installing in small, cramped engine rooms that are often found in boats designed for high top speeds."

Just about everything else concerning the new turbocharged 6LY engine is new. Single mechanical injector units are replaced by a Denso digital controlled common-rail fuel injection system with new pipework designed to cope with higher injection pressures. The 24-valve cylinder head is all-new too, as is the newly-designed inlet and exhaust manifold for optimal engine breathing to give high levels of torque throughout the entire speed range. The engine operation is also fully digitally controlled making it ideal for fly-by-wire operation – as the market expects today.

Like all new Yanmar electronic engine models introduced since 2011, the latest units have the full benefit of Yanmar's Vessel Control System (VCS). This plug and play control system offers Yanmar's advanced joystick system as an option for fingertip control low-speed manoeuvring and docking by vectoring the outputs of the shaft drive and stern drive vessel and thrusters.

"The latest 6LY-CR series engines will not only be of great interest to customers seeking to buy a new sailboat, displacement or planing cruiser equipped with state-of-the-art technology, but also to boat owners who want to repower their existing craft," concludes Robert Plant.



THE NEW MERCRAUISER 6.2 LITRE V8 STERNDRIVE ENGINE HAS POWER TO SPARE



Mercury MerCruiser's new 6.2 litre, V8, 300hp and 350hp sterndrive engines deliver increased power and torque while providing a remarkably quiet and smooth ride.

Mercury has designed and built the 6.2L engine specifically for marine use rather than adapting and marinising an automotive engine. The 6.2L is not burdened with automotive restrictions and unnecessary technologies that result in additional cost and complexity without adding value. The result is a perfect balance of power, easy maintenance, superior corrosion-resistance and a quiet, pleasurable ride.

POWER, ACCELERATION AND PERFORMANCE

The MerCruiser 6.2L engine offers class-leading acceleration while delivering smooth operation. A long runner scrolled intake manifold optimises air flow for higher torque, which translates into greater acceleration and improved boat performance. High displacement, which produces an outstanding power-to-weight ratio, provides a more enjoyable and safer boating experience by letting you plane your boat quickly, handle rough seas better and stay on plane at lower speeds.

The 6.2L V8 also offers Adaptive Speed Control (ASC), which automatically maintains a set rpm point regardless of load or condition changes, such as tight turns, tow-sport activities and lower speeds on plane. The result is increased throttle response, and a 'sportier' feel for the driver, who no longer has to make continual throttle-control adjustments.

An option for the 6.2L with DTS is Axius Joystick Piloting for Sterndrives, providing the ultimate in docking experience and manoeuvrability.

SMOOTH AND QUIET

An air-take resonator suppresses harsh sound frequencies throughout the engine operation for a dramatically quieter and more pleasurable on-board experience while an all-new, aft facing throttle body directs noise away from the cockpit for easier conversation.

Larger and optimised engine mounts isolate undesirable engine vibration and reduce resonant vibration sounds, making the ride even quieter and smoother.

EASY MAINTENANCE AND SERVICE

The 6.2L features a maintenance centre near the top-front section of the engine; ensuring maintenance points are easily identifiable and accessible. Additionally, the valve train is maintenance-free for the life of the engine, and a QR code on the engine's service label allows smartphone users to access 'how to' videos online. The 6.2L V8 also boasts a 'season extending' drain system that can keep you on the water during the transition times between seasons.

Ease of maintenance on the MerCruiser 6.2L includes the elimination of the traditional 20-hour service.

The 6.2L is available with optional freshwater cooling, and the SeaCore corrosion protection treatment provides extra corrosion protection only when needed, such as saltwater environments. Freshwater cooling uses a heat exchanger and coolant fluid to maintain engine temperature, rather than raw water from a lake or ocean. The coolant travels through the entire engine and the exhaust manifolds and prevents internal corrosion of the cooling passages. The SeaCore drive is a hard-anodising process that alters the surface layer of the aluminium drive casting to prevent saltwater penetration that leads to corrosion.

"The MerCruiser 6.2L joins the extensive and proven portfolio of Mercury products that provide exceptional performance, fuel economy, durability, smoothness and quietness, combined with intuitive operation, service and maintenance," comments Robert Plant, General Manager for the Marine Inboard Division at Barrus. "The engine is the perfect power option for mid-sized boats, 20ft-30ft, including runabouts, performance sports boats and cruisers."





THE NEW QUICKSILVER ACTIV 755 OPEN AND 755 SUNDECK

DISCOVER THE TRUE MEANING OF FREEDOM

The new Quicksilver Activ 755 Open and 755 Sundeck are the latest additions to Quicksilver's 7-metre boat line-up.

The perfect combination of performance, comfort and versatility the Activ 755 range is designed for fast day cruising and water sports for up to eight people and comfortable overnighting for two. With superior design, power, handling and operational safety, the Activ 755 range offers excellent value for money with a range of features that put it at the forefront of its class. These features include interior and exterior dining, multiple seating and lounging configurations, ergonomically designed pilot posts and an outboard power pack of up to 300hp.

Available in both Open and Sundeck formats, the Activ 755's list of features include:

- Multiple cockpit configurations for lounging, seating and dining up to 5 as well as water sports and transom access.
- Various Mercury or Mariner outboard power configurations from 150 to 300hp.
- An optional cockpit galley (stand alone on Sundeck or integrated into the leaning post on the Open model) complete with single gas burner, sink, tap and refrigerator.
- Redesigned pilot bucket seats and a fully redesigned console suitable for 7" GPS screen display, gauges, four speaker stereo and optional Mercury Vessel View.
- Plenty of storage options in the aft cockpit lockers, cabin storage and forward anchor locker.

- The Activ 755 Open can be easily converted into a social bow area with seating and dining area that can be transformed into a flat lounging area complete with cushions.
- The 755 Sundeck features a large sun lounge foredeck between dining inside the cabin or in the cockpit area.

Both models are offered in a SMART Edition that includes extra options including: a bimini, windlass, upgraded cockpit table, stereo, cockpit flip seat, motorwell bridge, bow table and sun lounge (Open) and the Cabin Interior Pack (Sundeck). This SMART Edition includes options that are competitively priced with short delivery times and based on the most frequently selected options by Quicksilver customers.

Ben Allen, General Manager for the Marine Leisure Division at Barrus comments, "We are excited to launch this new range that has been developed to meet the needs of consumers with a requirement for fun and relaxation on the water interested in boats of 7 metres. The Activ 755 range offers a wealth of great features combined with the distinctive Quicksilver styling."



OXFORDSHIRE DEALER RESCUES 1970'S CUB CADET INTERNATIONAL



We are always happy to hear about the dedication that our dealers show to our brands. A well-known brand dating back to 1961, Cub Cadet has a lot of history, and has developed a loyal following over the past 55 years.

A prime example of this dedication comes courtesy of our Banbury based garden machinery dealer, Andrew Bolter, of FN Pile and Sons. Andrew has spent the past six months painstakingly restoring a Cub Cadet International 76, with a Briggs and Stratton pull start engine, originally manufactured in 1972.

The vintage model had been stowed away for many years in a shed in the depths of the Staffordshire countryside, until it was rescued by a neighbour, who, noting the significance of the model, listed it on eBay on the owner's behalf.

It was promptly snapped up by Andrew, and once he got it safely back to Oxfordshire, he set about the restoration process, doing everything himself. As would be expected of such a quality item, the belts, pulleys and blades were all in great condition, and remain the originals. In fact, the only item that actually needed changing was the float in the carburettor. The lawn tractor once again runs like a dream, after so many years of being locked away in the dark.

Cosmetically, the fibreglass bonnet has survived the test of time, and Andrew carried out all the repainting himself in the original 'International Yellow', staying true to the tractor's history. He even sourced stickers and transfers from the original suppliers in the USA to complete the full restoration.

"It is fantastic to see that these wonderful machines are still around and going strong. This restoration project is testament to the brand's strong heritage and reputation of being manufacturers of truly reliable tractors which can stand the test of time," commented Martin Wasley, Sales and Technical Manager for the Garden Division at Barrus.

With the restoration project now complete, Andrew has shown the restored tractor at the Model Tractor Show and will now take it to show it at steam rallies, where it will no doubt get a lot of attention. "Restoring the International 76 has been a real pleasure. I have done up big tractors in the past and it was nice to do something smaller," said Andrew. "I have always been a fan of Cub Cadet so when the opportunity arose I jumped at the chance".

Andrew's Cub Cadet plans don't stop here; his next restoration project is a 1971 Cub Cadet International Model 106 (bottom right), and we cannot wait to see it!



WOLF-GARTEN SAWS MAKE TREE CARE EASIER

The WOLF-Garten multi-change® Tree Care without a Ladder range has been extended to include two new saws, the PC370MS Pruning Saw and the PC370MSPRO Professional Pruning Saw plus a folding pruning saw which has a fixed handle.

The PC370MS and the PC370MSPRO both feature curved saw blades that enable effortless and powerful sawing and the specially designed teeth maximise cutting performance. The 36cm saw blade and double hardened teeth makes sawing even thicker branches an easy task.

The PC370MSPRO WOLF-Garten Professional Pruning Saw is fitted with an integrated professional branch hook that prevents the saw being

unintentionally pulled out of the cut and the bark cutter eliminates cracks and splits in the bark.

Both saw heads click into a number of the WOLF-Garten interchangeable multi-change® handles so that you can safely carry out all tree care activities at heights up to 5.50m without the use of a ladder. Additional safety is built-in with an integrated safety clip that prevents accidental releases when working in trees.

Each saw can be used as a handsaw for sawing tasks on the ground or at accessible heights.

WOLF-GARTEN TELESCOPIC HANDLES REACH NEW HEIGHTS



There is now a choice of three WOLF-Garten multi-change® telescopic handles.

The new ZMV150 is made from lightweight strong, high quality aluminium

and fits all multi-change® tool heads.

Adjustable in length from 90-150cm this handle joins the ZMV3 170-300cm and the ZMV4 220-400cm.



MASTERCRAFT OFFER YANMAR DIESEL OPTION

MasterCraft Boats UK, one of the world's leading luxury performance inboard boat manufacturers, has chosen to offer their latest bespoke superyacht watersports tender range with an exclusive conversion to a Yanmar 8LV inboard diesel engine.

The Saltwater Series luxury performance sports boats range from 6.10 metres to 7.75 metres. MasterCraft selected Yanmar as the engine partner for the project because the EPA Tier 3-compliant engine is exceptionally quiet, smooth and compact. MasterCraft engineers spent several months perfecting the custom-install, a procedure that required a very specific skill set to ensure that performance was not compromised in any way.

The high torque, Yanmar 8LV has a wide power band (320-370) and idles at 550rpm capable of crawling speed in the marina, aided further by a hydraulic clutch with both sterndrive and gear configurations. Maximum engine speed is 3,800rpm – well ahead of other engines of this type.

Michael Hardicker, MD of MasterCraft Boats UK said, "The Yanmar inboard diesel option means that we can now offer a real alternative to superyachts wanting to enjoy the MasterCraft experience. And we're able to show that diesel power is every bit as good as petrol for sports boats. It gives all the advantages of economy, durability and reliability, with no loss of power. This is a particularly attractive option for charter operators, giving them a commercial edge in their tenders and toys offering."

The new X26 Saltwater Series, the latest addition to MasterCraft's 2016 boat line, will be available as a bespoke watersports tender with a Yanmar inboard diesel engine package. At 7.29 metres it is the largest boat in the range. Designed with entertaining in mind, the X26's roomy interior offers a highly adaptable layout that quickly transforms from an intimate setting to a spacious lounge capable of accommodating a guest list of eighteen. With a wet bar, refrigerator, built-in-sink, multiple coolers and extensive storage options, all-day excursions become an easy option.



HAINES CHOOSES YANMAR FOR SECOND CRAFT

Haines Marine, one of the most respected boat building companies in the UK, and indeed throughout Europe, has chosen Yanmar engines for their popular Haines 32 offshore model. Haines first fitted twin Yanmar 8LV, 370hp engines in their 400 Aft Cabin model which was launched at Southampton Boat Show in September 2015.

The Haines 32 offshore, which has the option of a single Yanmar 8LV, 370hp engine, offers amazing accommodation for her size and is an excellent craft for river and estuary and full offshore use.

Justin Haines, Director of Haines Marine explains why they selected the Yanmar engines, "Light weight, at only 450kg, the Yanmar 8LV is the lightest marine diesel engine in class and has the best power-to-weight ratio. The

V8 engine is exceptionally smooth running and with tick over at just 550rpm, this means slow speed handling is made easy with the boat not going too fast at idle speed."

Twin turbochargers allow the engine to reach maximum torque at just above 2000rpm. A flat torque curve like this is ideal for strong throttle response in the mid-range. Fuel consumption charts show the best fuel economy is reached at about 3000rpm, the ideal point for cruising, but with plenty more power there if needed.

"We were so impressed with the performance of the Yanmar 8LV engines in our recently launched 400 model that it made perfect sense to offer this choice of engine in other models in the Haines range," Justin concluded.



YANMAR POWERED SPIRIT P40 COUPE MOTOR YACHT BOUND TO TURN HEADS

Yanmar engines are powering the latest, luxury P40 coupé motor yacht from Spirit Yachts.

Spirit yachts, world leaders in modern, classic yacht design, has incorporated practicality as well as beauty into the Spirit P40c, offering the flexibility of either a luxurious leisure motor cruiser or stylish superyacht tender.

Displacing only 4.5 tonnes, the P40c has twin inboard Yanmar 6BY2, 260hp turbocharged diesel engines, which deliver a top speed of 40 knots and a cruising speed of 29 knots. Spirit's lightweight wood/epoxy construction method and performance design results in an impressive sports boat with effortless handling.

Following a test drive of the P40c, Richard Booth, Project Manager at Superyacht Tenders and Toys commented, "The P40c is a beautifully hand crafted boat, it is superbly finished using the highest quality materials and

it oozes style and sophistication on the water. The ride and handling are smooth and responsive. The boat glides effortlessly across the water and it was a joy to helm. This is a boat to be truly proud of and is the definition of a luxury superyacht tender."

With a ship to shore radio and alternative accommodation layouts available for added crew berths, the P40c is also designed as an elegant and sophisticated superyacht tender. Ideal for trips ashore or as a support boat for a larger classic superyacht, the P40c is guaranteed to turn heads.

Yanmar 54hp inboard diesel engines also powered the Spirit 54, the yacht that was used as Daniel Craig's transport of choice into Venice in the James Bond film Casino Royale.



COCKWELLS UNVEILS LATEST ULTRA-MODERN TENDER WITH YANMAR ENGINE OPTION

Cockwells Modern and Classic Boatbuilding Ltd, based in Falmouth have launched a new 9.5m limousine tender fitted with a Yanmar 8LV engine. From beautiful classic yachts and motor launches to pilot cutters and superyacht tenders, each custom boat is individually designed and built to suit the owner's exact requirements.

The limousine has been created by the in-house team at Cockwell's in collaboration with naval architect Andrew Wolstenholme. The craft was specifically designed not only to fit within the dimension and weight restrictions of the tender garage but also to reflect the ultra-modern styling of the mothership, an 88m superyacht.



The boat is powered by a single Yanmar 8LV, 370hp engine which takes the limousine up to 32 knots with a maximum of twelve passengers and two crew members on board.

Key features include an EmpirBus touch screen dashboard that controls everything on board, from navigation lights to air-conditioning. The interior of the boat reflects the modern exterior styling with eye-level panoramic windows, soft leather linings and warm wood accents.





JOHN DEERE IS PULLING ITS WEIGHT FOR 'GUIDING STAR'

John Deere marine propulsion engines have been chosen to power 'Guiding Star'; a 14.95m steel scallop trawler operated by marine fishing company Aquaria (Grimsay) North Uist.

Built by Macduff Shipyards Ltd, a company with over 65 years' experience producing high quality commercial vessels up to 35m in steel, aluminum and wood, 'Guiding Star' is a replacement for the owner's previous vessel and the first new boat for the Western Isles for over 5 years.

'Guiding Stars' main engine is a John Deere 6135AFM 85, rated 365hp (272kW) at 1800rpm arranged with heat exchanger cooling. "We modified this engine to suit the requirements of the client," comments Sam Pearson, Sales and Technical Support Engineer for Barrus. "This included the design and production of mounting feet and a large stub shaft (FPTO), mounted on the front of the crankshaft for driving additional auxiliaries such as two large Transmotor 150amp, 24V generators, together with the pump for the Tenfjord steering gear and the fishroom refrigeration compressor," Sam concluded.

A John Deere 6068TFM 50 engine rated 154hp (115kW) at 2300rpm is fitted on the port side for driving the hydraulics.

It was Bill Farquhar, Technical Director of Macduff Shipyards who suggested the John Deere engines for the 'Guiding Star' as they suited the horsepower and rpm requirement. Macduff had fitted auxiliary and generator engines previously, but this was the first John Deere propulsion engine, "The

horsepower and rpm enabled us to fit a Masson NFC reverse reduction gearbox with 7.706:1 reduction ratio, driving an 1800mm diameter Kort 4 blade propeller housed in a fixed nozzle," comments Bill.

Donald Stewart who owns Aquaria with his two brothers Hector and David comments, "The engine and the gearbox are well-matched, and there is a lot of forward thrust even at lower revs. We wanted to pull 16 heavy-duty scallop dredges with as little horsepower as possible, that's why the model with the lowest rating was chosen. Fuel was very expensive at the time of order, especially in this part of the country. I don't think there are many if any dredgers pulling heavy-duty gear like this with less horsepower."

BARRUS GO FISHING

Barrus is placing greater focus on the fishing industry by committing to three Skipper Expo International shows in Galway, Bournemouth and Aberdeen this year.

The exhibitions are a showcase for a wide range of products and services that pertain to the fishing industry. Barrus will be promoting the Shire Workboat and John Deere marine propulsion and generator engines.





MARINER ON CALL FOR DISASTER RELIEF

Barrus is continuing its support of the Watersafe UK Search & Rescue Team in 2016 with the supply of Mariner outboard engines.

WUKSART was established in response to the National Flood Enhancement Project led by the Department of the Environment, Food & Rural Affairs (DEFRA) in 2009. This Government led project was designed to officially collate all the water rescue assets around the UK and then type them against National standards with the aim that when widespread flooding takes place these assets can be called on.

The purpose and aim of Watersafe is to provide response and support to the official Emergency Services in a range of situations, including water rescues, flood relief and support during times of adverse weather conditions, natural

disaster or civil emergency, missing people search and to be able to provide support at incidents as required.

Since 2009, Barrus has supplied seven Mariner 90hp engines and four SeaSearch inflatable rescue boats to Watersafe on preferential terms. Mariner 6hp engines have also been supplied for their Mountain Rescue activities.

Primarily WUKSART covers the County of Derbyshire with support to both the local Fire & Rescue Service and the Police. All the team members are voluntary and from disciplined backgrounds they have the skills and experience required. The team were called out during the devastating Storms of Desmond and Eva in December last year attending numerous incidents in the widespread flooding of Cumbria, Lancashire and York.

BARRUS AND HYBRID MARINE SECURE FURTHER ORDERS FROM ISARA YACHTS FOR HYBRID ENGINES

Barrus and Hybrid Marine are pleased to announce a second order for Yanmar Hybrid engines to power the next run of Isara 45's built by Isara Yachts, based in Hong Kong, who build their leisure craft in Taiwan.

The order for an additional four Yanmar 57 Hybrid's was announced at Southampton Boat Show last year and further cements the relationship between Barrus, Hybrid Marine and Isara Yachts.

Graeme Hawksley, Managing Director of Hybrid Marine, takes up the story. "An intensive amount of work was required by Barrus and Hybrid Marine to develop and put the first system in production for Isara. The level of luxury enabled by the hybrid systems has helped Isara to penetrate new markets, hence the additional orders." Graeme concludes.

Cris Jackman, Managing Director of Isara Yachts comments, "We are delighted to sign this next order of 4 more hybrid engines, and we are the only sailing yacht manufacturer to offer the Hybrid engine and system as standard across our range. 2016 promises to be an exciting year for the luxury 45 footer that boasts a huge standard specification. We anticipate further orders, particularly after the launch of the first Isara in the coming months, heading to BVI Yacht Charters in the Caribbean," Cris concludes.

Isara Yachts intend to bring an Isara 45 to the Southampton Boat Show for the UK launch in 2016, and with a number of orders 'off plan' already, it promises to be an exciting addition to the Isara range and the growing catamaran market.



Pictured from left to right: Cris Jackman, Managing Director, Isara Yachts and Graeme Hawksley, Managing Director, Hybrid Marine.

YANMAR ENGINES PACK A PUNCH

Yanmar engines are packing a punch in a new Tracked Post Driver, designed and built by Protech Machinery, a British owned company based in Gloucestershire. The self-propelled, one man machine is ideal for use on steep, wet ground where a conventional tractor unit would not reach.

The P22 Tracked Post Driver is fitted with a Yanmar 4TNV88 DS power pack with additional equipment being supplied by Barrus including a throttle cable, control panel and extension wiring. The machine was originally built as a prototype and after testing and application approval, a total of 55 Yanmar engines have now been supplied by Barrus. The machine is ideal for use by farmers, smallholders and contractors who have a requirement for reliable, durable equipment at an affordable price.



Standard features of the machine include a 300kg hammer weight, 800mm telescopic side shift and a 1000mm telescopic mast extension. Designed to save labour, time and fuel, the unit is also towable and has low ground pressure for all year round operation. There is also a rock spike attachment that makes it easy to punch holes in the hardest of grounds. "We chose the Yanmar engine for its smooth and quiet operation, fuel economy and that it was available fully built up as a power pack. The Barrus Industrial Technical Team and Yanmar Europe provided us with thorough and comprehensive support throughout the project", commented Steve Craddock and Andy Hooper, Co-Owners of Protech Machinery Ltd.

Protech has recently received a lot of interest in the Tracked Post Driver from the U.S., and as a result is supplying a machine fitted with a Yanmar 4TNV88C Tier 4 engine. This engine meets the U.S. EPA Final Tier 4 requirements and it is hoped that further orders from the U.S. may follow.



YANMAR CHOSEN FOR MILITARY FIELD SUPPORT

Factair has chosen Yanmar engines for the Factair VO4DM MKII Diesel Air Compressor. Factair has supplied specialist compressed air equipment to the Ministry of Defence spanning more than 25 years.

This diesel-driven, rotary-vane compressor set, mounted on anti-vibration mounts within a standard tubular frame is designed to deliver a convenient source of compressed air for a wide variety of applications.

Powered by a Yanmar L100 air-cooled diesel engine, rated 7.2kW (9.9hp) @ 3600rpm, the VO4DM has been supplied by Factair to a number of their military customers for field support applications.

"We selected this engine as it has a number of key features which were important for our design specifications including the availability of a 24V starter; cold temperature glow plug heating system and 15A charging coil. In addition, with its proven reliability we were confident that the Yanmar L100 was the best option for our compressor package," comments James Coleman, Managing Director, Factair Ltd.





CHOOSING THE PERFECT PARTNER IS IMPORTANT

In a project to produce their first tracked mobile impact crusher, **Prall-Tec GmbH**, has chosen a John Deere engine to power the **Prall-Tec PT 1.1 Pro**.

Prall-Tec GmbH, based in North West Germany, has over 30-years' experience in the construction and repair of impact and hammer mills, jaw crushers and shredders as well as the supply of mobile screens, and wheeled and tracked mobile conveyors.

"Our goal was to build a high quality crusher with the same performance characteristics as our existing stationary impact crushers that we have been building for more than 20 years," commented Frederik Teepe, Managing Director of Prall-Tec GmbH.

Prall-Tec had already chosen Crushers Inc. Ltd, based in Leicestershire, a customer driven solution provider for the crushing, screening and recycling industry, to design and manufacture the chassis and to install the engine. "Apart from choosing Crushers Inc., we wanted to select the right engine for the application from a supplier that could assist and support us in the installation process. Barrus reacted very quickly to our initial enquiry and provided excellent technical support. Another contributing factor in the choice of engine is the extensive John Deere support network throughout Europe providing us with fast and efficient assistance and parts support." Frederik explained.

Prall-Tec needed the John Deere 6090HFU84 Stage 3a, 1500rpm fixed speed engine very quickly. In order to meet the deadline, the application team at Barrus rapidly converted an existing engine in their workshop facilities to the required specification and assisted with the installation.

Commenting on the engines performance Frederik said, "After completing several performance tests the 9-litre John Deere engine provided so much power that we were able to achieve an even greater output than we had first calculated, confirming that we had chosen the right engine and the right partners for our mobile crushing project."

"Barrus are proud to be involved in Prall-Tec's 'first' in the mobile crusher market. John Deere engines offer many advantages for recycling and quarry applications including uninterrupted power, ultimate reliability and low cost of ownership. They are driving crushers, excavators, loaders, dumpers, gensets and air compressors worldwide," comments John Day, General Manager for the Industrial Division at Barrus.

Following on from this successful project, Prall-Tec has already discussed two more applications that will include John Deere engines. "The technical and commercial support that we have received from Barrus and the quality and service John Deere is offering fits perfectly with the ethos of Prall-Tec; quality, service and great performance," Frederik concludes.

JOHN DEERE ENGINES FOR HIGH PERFORMANCE DRILLING RIG

John Deere engines have been chosen to power a sonic drilling rig which will be operating out in Chile.

The drill has been produced by Dando Drilling International Limited, a UK manufacturer of drilling rigs and equipment for the water well, mineral exploration, geotechnical and geothermal sectors. The Dando Sonic SDC375 is a multipurpose sonic drilling rig capable of continuously collecting large diameter undisturbed samples at much higher rates than conventional drilling methods. The drilling rig is being used in a copper mine in Chile exploring copper deposits at an altitude of 5000m.

Barrus worked on the project with Manuflex, a specialist high quality sheet metal fabrications and finishing engineering company. The John Deere 6090HF485, 275hp diesel engine was supplied by Barrus to Manuflex who built a complete enclosed skid mounted canopy set.



THE NEW MERCURY RACING VERADO A SERIOUS PERFORMANCE OUTBOARD

The Mercury Racing Verado 400R is the most powerful consumer outboard ever produced by Mercury and provides the highest power-to-weight ratio of all other four-stroke outboards in its class.

This impressive 153hp per litre powerhouse is an incredible achievement in power and efficiency achieved through a number of advancements to the proven 2.6L Verado platform. It has been designed to complement the latest generation of lightweight, high-performance fibreglass and RIB deep-V and centre console boats.

PERFORMANCE ENHANCEMENTS

The 400R features a custom cold air induction system for improved air flow and power development while significantly reducing intake noise for improved sound quality. An all-new, water-cooled supercharger is designed to reduce intake temperature and significantly increase air density. This enables the engine to generate unprecedented torque and unmatched acceleration all the way from the lower end of the power band up to 7,000 rpm maximum engine speed.

SPORT MASTER

The 400R is the first ever Verado to feature the race-proven Sport Master gearcase with low water pickups for added performance. The efficient and durable Sport Master offers a wide range of application options including single engine flat boats, traditional catamaran sport boats to multi-engine offshore centre consoles.

ZERO EFFORT CONTROL WITH JOYSTICK PILOTTING (JPO)

The Verado 400R is the first Mercury Racing outboard to feature Joystick Piloting for Outboards (JPO) technology. Joystick Piloting takes the stress out of docking and manoeuvring in tight spaces by providing 360-degree movement. The intuitive design of the joystick enables anyone, from

experienced captains to novice boater's to manoeuvre large boats with ease and confidence.

COLOUR OPTIONS

The 400R is available in both Cold Fusion white and the legendary Mercury Phantom Black. Cold Fusion white models come standard with Mercury Racing Blue accent colours. In addition, a total of seven coloured accent decal kits are available on Cold Fusion white models to match a variety of boat graphics.



LEE ALLEN TAKES UP INTERNATIONAL POWERBOAT RACING POSITION

Lee Allen, Marine Technical Service Manager at Barrus, has been nominated as a U.I.M. Technical Commissioner.

The U.I.M. is the international governing body of power boating. It is also recognized as such by the International Olympic Committee, and is also a member of the General Association of International Sports Federations, and the Association of the IOC Recognised International Sports Federations.

The sport governs all power boating disciplines including Aqua bike, Circuit, Offshore, Pleasure Navigation and Radio-controlled.

Lee assisted in covering some of the European Formula 2 World Circuit races held in 2015 and he also took on the role as Technical Commissioner for the U.I.M. World Championship held at the end of August at the Nottingham Powerboat Racing Club. He will be covering national events across the UK for 2016

"I mainly cover the F2 200XS OptiMax and F4 Formula F60 Race classes but I also assist in other classes if required. I am involved in pre-race scrutineering and post-race engine inspection," commented Lee.

Lee is also RYA registered as a Technical Commisioner for national events.

The race calendar is from May to August. More information can be found at: www.rya.org.uk/newsevents, www.powerboatgp.co.uk or www.f2worldchamp.com





BOAT CONTROL AT THE PUSH OF A BUTTON

The first Mercury Joystick Piloting Outboard System (JPO) to be fitted in the UK has been installed on a Wahoo 9.6m RIB.

Developed by Mercury Marine the JPO locks the boat's position using a GPS satellite antenna. Then working with the engines and drives, it maintains the position of the boat and heading regardless of wind or current.

"The 9.6m RIB is the only boat of its kind to be equipped with Mercury's joystick control system which allows the pilot to effortlessly move the vessel in any direction, including sideways with the push of the joystick. The joystick allows precision control over the twin Mercury 300hp outboards, making life a lot easier for a skipper manoeuvring the vessel in close quarters," commented Ben Allen, General Manager for the Marine Leisure Division at Barrus.

The craft has to conform to build criteria set by Mercury Marine Engineers and the installation process must be documented and recorded to ensure

the build is completed in line with the installation instructions. "We had to check the installation of all the components and then programme the craft with a "Vessel Personality" which determines how the craft reacts to the operator. The throttle, steering, joystick and instruments in a JPO vessel are electronic, and, as hulls are not always identical they react differently in the water so the "Vessel Personality" has to be fine-tuned during sea trials," commented Lee Allen, Marine Technical Service Manager at Barrus.

Hand built by Wahoo in Southampton, the RIB was commissioned by the owners of a 85 metre superyacht as a tender for the mothership. The hull design takes its inspiration from thoroughbred race boats designed by the legendary naval architect Lorne Campbell, but reconfigured for improved performance by Wahoo's own designer Wayne Huntley. The vessel is capable of speeds in excess of 60 knots.

The sea trials and hand-over were in Palma, Mallorca.



MERCURY POWERS A HUMDINGA!

Is it a boat or is it a truck, well the answer is yes on both counts!

The Humdinga is an SUV/4WD amphibious vehicle concept designed specifically to access remote and hostile terrain.



This high-speed, amphibious truck is the brain child of Kiwi entrepreneur Alan Gibbs, the man behind the Aquada amphibious sports car. Barrus has worked with Gibbs Amphitrucks based in Warwickshire, to come up with a marine engine option and originally supplied Mercury 4.2 TDi engines for the concept vehicles.

The Humdinga is a 21.5 foot long, all-terrain, amphibious truck that can carry up to seven people or 1653 pounds of payload. It can transfer from land to water at a touch of a button. The wheels retract, the power train switches from the wheels to a jet propulsion system and the vehicle is in amphibious mode. It can reach up to 30 miles per hour on water and normal

highway speeds on land. Capable of 150 miles on land, the Humdinga can also achieve 100 miles on water at planing speeds.

Gibbs has suggested numerous potential end users for the vehicle including disaster relief, law enforcement, search and rescue, military, and flood rescue.

Barrus supplied the first six production Mercury 4.2TDi engines in March to Gibbs who has licensed a company in Singapore to build the Humdinga to assist in future tsunami flood relief in the region.





MERCURY DIESEL OUTBOARDS IN SEA TRIALS

Cheetah Marine based on the Isle of Wight, has been conducting sea trials with Mercury's new 180hp OptiMax diesel outboard engines.

Cheetah Marine leads Europe in the specialist design and construction of power catamarans, renowned in the commercial world, where many Cheetahs' work in rough weather conditions daily, year in, year out.

Twin Mercury 180hp OptiMax diesel outboard engines have been installed onto a Cheetah 10.2m catamaran with fluid link SeaStar hydraulic steering and SeaStar jacking plates have also been fitted to enable the height of the engine to be adjusted during the trials.

Sean Strevens, the designer of the original Cheetah catamaran in 1989 comments, "Under trial conditions we recorded fuel consumption, speed

and acceleration. We achieved a top speed of 32 knots with a cruising speed of 20 knots. Fuel consumption in cruise mode for both engines was 40 litres per hour, 20 litres per hour each engine."

"I would suggest that these engines could be suitable for Dutch and Belgian commercial line fishermen, hydrographic survey vessels and passenger craft," Sean concluded.

The engine was originally developed by Mercury Racing for the U.S. Department of Defence in response to applications where petrol is either not available or carries a fire risk. The 3-litre, 60° Vee, 2-stroke V6, diesel burning outboard engine has the benefits of being a cost effective and weight-saving alternative to a marine inboard diesel engine.



YANMAR GOES DUTCH

A new fleet of patrol vessels commissioned by the Seaport Police in Rotterdam will be powered by Yanmar engines.

This prestigious contract has been awarded to Yanmar dealer, Ribcraft, a leading UK boat builder of custom and production RIBs. The first boat to be supplied as part of this major contract is a 12 metre cabin RIB installed with twin Yanmar 8LV, 370hp engines. Capable of speeds up to 33 knots, P7, as

it has been named will be used by the Seaport Police as a customs vessel providing a visible presence in the harbour.

The nine month project includes additional smaller craft which will be powered by Yanmar 6BY and Yanmar 8LV engines and outboard engine options including Mercury 250/300hp Verado engines.



YANMAR ENGINES PROMOTE ENVIRONMENTALLY FRIENDLY RACING

Yanmar engines powered Blastoff Racing to a record breaking run at the 45th Annual Coniston Powerboat Records Week.

The 38ft Fountain powerboat, owned by Dorian Griffith of Blastoff Racing, was originally designed to take two inboard Mercury racing 8.2 litre petrol engines which achieved a speed of around 100mph but needed 7 litres a mile of petrol to fuel it. With the continuous drive for economy and reliability and the quest to race responsibly conserving fuel and noise levels, Dorian decided to re-power the boat with twin Yanmar 6LY2A-STP 440 hp turbo diesel engines. Arneson surface drives and stainless steel surface piercing propellers were also fitted with the potential to deliver speeds in excess of 90mph in racing conditions.

Taking up the story Dorian comments, "Repowering with the Yanmar engines has helped to conserve fuel using only 2.5 litres per mile making it safer for racing and more environmentally friendly. The Yanmar engines

fit perfectly due to their compact nature, and have more torque than their petrol predecessors allowing us to run larger diameter propellers.

Dorian continues, "We did the record run at Coniston to establish a Marathon C class record over the kilo run both ways and averaged 83.49 mph, peaking at 87 mph, which is only 13mph slower than in the previous petrol version. Over the winter after more tweaks we believe that 95 mph is possible making the boat very competitive for Marathon racing."

"The Yanmar engines are perfect for offshore due to their power-to-weight and rugged reliability giving us peace of mind. Thank you Barrus for all your help," Dorian concludes.

Blastoff Racing is hoping to take part in the Venture Cup Round Ireland Race in June this year.

YANMAR IN THE FALKLAND ISLANDS

Barrus dealer French Marine Motors based in Brightlingsea has worked with the Falkland Island Company (F.I.C) on a project to repower the vessel Speedwell, a Halmatic 40.

The Falkland Islands Company was granted its Royal Charter in 1852, and since then has been supplying the Falkland Islands with a wide range of essential services. Speedwell is being used for patrol and piloting duties and also operates as a workboat for crew changes and on tourist boat trips to see the penguins.

"The enquiry from the F.I.C. originally came into Barrus as they were looking to replace Speedwell's existing ageing Volvo Penta TAM63L engines. We suggested twin Yanmar 6LYA370 engines that were de-rated to 300hp@3000rpm," commented Mike French, Proprietor of French Marine Motors.

"Speedwell is now in operation and the F.I.C. has reported that they are delighted with the smooth and quiet running of the new Yanmar engines," Mike concluded.



BARRUS AND YANMAR TRAIN THE ENGINEERS OF THE FUTURE

Barrus has supplied a Yanmar engine with a full diagnostic package to Askham Bryan College in support of the training requirements of their Plant Maintenance Apprentices relating to the introduction of Tier 4 engine emission regulations.

Askham Bryan College based in York provides training for Apprentice Plant Mechanics in partnership with the Construction Industry Training Board (CITB). The Construction Plant Maintenance Team identified that the introduction of the Tier 4 engine emission regulations would have a significant impact on the training requirements of the Plant Maintenance Apprentices. The team considered various options of how to implement the delivery of Tier 4 engine technology within the training programme and concluded that they needed to acquire a Tier 4 engine.

Peter Chapman, Senior Lecturer & Course Manager Construction Plant Maintenance comments, "We identified that the Yanmar engine contained the emission technology that would be best suited to ensuring engine industry relevant training would be delivered to the Apprentice Construction Plant Mechanics attending the college."

Barrus supplied a Yanmar 4TNV88C-KNKR, 25.59hp (34.kW) at 2800rpm engine, and the Industrial Team at Barrus worked with the college to identify how the Yanmar engine could be developed as a training aid and what assistance could be provided to the college towards achieving their goals. Peter continues, "Following significant development work and adaptation by

the team at Barrus, the Yanmar engine was delivered to the college. We are very appreciative for the practical and theoretical training provided by Barrus to the Plant Maintenance lecturers," Peter concludes.

"Barrus were pleased to support Askham Bryan with their Tier 4 training requirements. The Yanmar Tier 4 engine is an ideal platform for the students to work on as it has Common Rail, Cooled EGR and both the DOC and DPF technology fitted. This enables the students to review and train on a product that not only meets the strict Tier 4 regulations but will also comply with the future Stage V European levels that will come into force in 2019 and 2020," comments John Day, General Manager for the Industrial Division at Barrus.

Askham Bryan College continues to be one of the fastest growing land-based colleges in the UK, and currently has well-developed plans for a new engineering workshop facility that should reach fruition in 2016.



Pictured left to right: Paul Hambleton and Tom Burton, Level 2 Construction Plant Maintenance Apprentices using Smartassist to diagnose system faults on Yanmar Tier 4 engine.





A DIRTY JOB... LONCIN HAS THE POWER TO DO IT

The cost effective option of repowering machinery and equipment with the option of a petrol powered Loncin engine is becoming more and more appealing to original equipment manufacturers.

This proved to be the case for Wessex International, a manufacturer of high quality, British built machines for the agricultural and ground care markets. During a visit to Saltex in 2014, the UK's national event for grounds care, sports, amenities, estates and green space management, the company was looking at ways to reduce the cost of their Dung Beetle Paddock Cleaner.

Manufactured in their Andover factory, the Wessex Dung Beetle MK2 MTX120E employs the latest laser cutting technology to produce a machine that is tough and durable with superior strength. Towed behind an ATV, UTV or tractor the Dung Beetle is now powered by a Loncin G160F-B, four-stroke 4.8hp horizontal shaft engine with 2:1 wet clutch reduction gearbox.

The machine works by means of a tried and tested collection system of spring tines that combines with the sweeping action of the bristles to effectively pick up stubborn muck while grooming the grass to encourage fresh growth, something you don't get with vacuum machines. It is ideal for busy equestrian yards, racing and riding stables and private horse owners, as well as anyone grazing all types of animals, where a clean paddock is an essential part of day-to-day maintenance.

"We came across Loncin on the Barrus stand at Saltex and we were impressed with the track record and build quality of the engines and their competitive pricing. The G160F-B has proved very reliable with excellent performance characteristics," commented Roy Wolfenden, General Manager, Wessex International.

LONCIN - RELIABLE PORTABLE POWER WHEN YOU NEED IT

Barrus has extended its line-up of Loncin inverter generators with the introduction of the LC3500i.

With a rated output of 3.0kW, the LC3500i is powered by a single cylinder, 4T force air-cooled Loncin engine. Lightweight and smaller than a standard generator, it delivers a smooth flow of power, and is ideal for powering anything from an angle grinder to a jigsaw to sensitive electrical appliances such as laptops without any worries of power surges that can damage delicate equipment. The generator has Loncin ESC (Electronic Smart Control) so when active, only runs as fast as the load demands keeping fuel use and noise levels to a minimum.

Extremely fuel efficient, the LC3500i will run for a full seven hours on one tank of fuel providing a full day's power supply. Developed by Loncin for commercial use in a very demanding Japanese hire market, the Loncin inverters are

equally at home on the building site and for continual domestic use.

The LC3500i joins other Loncin inverter generators in the range including the LC2000i, 230v and LC2000i-S, 110v models. All Loncin products are covered by a one-year warranty.

The LC3500i made its debut at The Executive Hire Show in February and received huge interest. "We have sold 136 since the middle of February, mainly to Plant Hire Companies," commented Amanda Harman, Sales Office Manager for the Powered Products Division at Barrus.

"The rental companies are stocking up for the spring and summer season for parties, weddings and festivals as the generators are so quiet. Hirers have been so impressed with the generator that on return some have decided to purchase the unit!" Amanda concluded.





CUB CADET MINI-RIDER

POWER AND PERFORMANCE IN A COMPACT PACKAGE

The new Cub Cadet MINI-RIDER CC114HA is the first ever hydrostatic rider from Cub Cadet. The luxurious hydrostatic drive system allows you to control the forward and reverse speed continuously on the move.

With a cutting width of 76cm / 30", this machine delivers the same strength, durability and cutting performance as the larger rider models; but in a more compact design.

There are numerous features including Intelligent Parking Assistance (IPA) which makes it much easier to park the CC114HA in the garage or shed and RevTEK Technology for safe reversing. The telescopic steering column allows for easy height adjustment of the steering column to suit every operators height. The rider comes with a professional grade high back seat for superior comfort, and safety has been considered with super grip pedals to provide the best grip in bad conditions.

Martin Wasley, Sales & Technical Manager for the Garden Division at Barrus

comments, "This MINI-RIDER is ideally suited to the relaxed gardener who wants a compact rider with all the bells and whistles."



SWEET YOUR GARDEN CLEAN

Lawnflite has introduced the new Optima OPS700 power sweeper which is designed to be an all year round solution for numerous cleaning jobs around the house. Easy to operate with five forward and two reverse ground speeds, this power sweeper can be adjusted to suit your own personal pace. Slow speed for clearing snow and a faster speed for applying summer treatments. The universal tool free conversion system allows for the fitting of an optional dust and dirt collector or a dozer blade.



TOOLFLEX - THE INGENIOUS TOOL HOLDER SYSTEM

The brand new Toolflex system is a range of storage solutions for garden tools and other household items. The range of compact and innovative racks allows gardeners to “push and click” their tools and equipment in to the wall-mounted storage system to protect them whilst also saving space.

The holders are made of durable plastic with a flexible TPE gripping surface that can grab the tool easily with just the slightest push of the hand. The holders and hooks come in various sizes and they are able to hold the majority of tools and handles. The Toolflex tool holder only requires a simple, one-handed action to hang up or take down the tool and the effective design also ensures that heavy tools are kept firmly in place.



CONGRATULATIONS TO WOLF-GARTEN!

WOLF-Garten has been awarded SILVER in the Best Garden Tools Range category in The Great British Growing Awards 2016.

Organised by Grow Your Own magazine, the readers nominated and voted for their favourites across a number of categories. “We are delighted to win this Silver Award and we would like to thank all the readers of Grow Your Own who voted for WOLF-Garten,” commented Ian Seager, Marketing Executive for the Garden Division at Barrus.

Commenting on WOLF-Garten’s success, Zoe Charge, Awards Organiser for Grow Your Own magazine said, “Winning an Award is truly deserved and confirms the recognition within the growing/gardening industry that you have established.”



Nick Hills accepts the Silver Award for Best Garden Tools Range presented at The Edible Garden Show.



THE ORIGINAL FESTIVAL FOLDING WAGON NOW AVAILABLE FROM BARRUS

The festival wagon is a convenient, portable transport solution that is quick and easy to assemble,perfect for festivals and shows.

The durable folding frame made up of flat tubing provides extra strength and folds flat for compact storage and travel. The sturdy fabric liner is fastened securely onto the frame with Velcro which makes it easy to remove for cleaning. The heavy-duty handle allows for safe and secure navigation with a high attachment point that prevents heels from hitting the wheels. The 360° swivel all-terrain wheels make the wagon easy to manoeuvre and allow travel on both hard and softer ground.

Just three easy steps and the wagon is ready to go – remove the outer cover, unfold the wagon and secure the wheels in place!





MARINER TECHNOLOGY SHOWCASED IN NEW MILITARY MUSEUM

The Soldiers of Oxfordshire Museum is a newly opened military museum based in Woodstock in Oxfordshire, which houses the archives and collections of the Oxfordshire and Buckinghamshire Light Infantry and the Queen's Own Oxfordshire Hussars.

The museum is funded by the Soldiers of Oxfordshire Trust, a self-funded organisation that relies solely on grants and donations.

Barrus is a supporter of the museum providing one of the permanent exhibits on loan; a Kirton SKUA canoe powered by a modified, Mariner 15hp outboard engine.

The canoe was built by Kirton Kayaks, a UK company specialising in handmade kayaks to market leading standards. It was designed and developed for use by Special Forces Units around the world for use in clandestine operations. The engine features PIRS (Post Immersion Restart System), a patented system designed and developed by Barrus during the 1970s. This was a significant advancement for self-righting search and rescue vessels, enabling the engine to be restarted after full capsise or caching on the seabed.

The SKUA was the result of three years of extensive trials and has been in service for decades. New features have been incorporated over the years to meet modern day tactical requirements.

The museum has also implemented educational programmes that are available to local Oxfordshire schools, and they have set up a regional pilot project with Cheney School in Oxford looking at military equipment as examples of product design. A level and GCSE students have visited Barrus to see the process of designing and producing a product according to a set of requirements.

"We were delighted with the visit and very grateful for all the time and trouble everyone at Barrus put in. The learning experience and hospitality were very much appreciated," comments Vicki Wood, Education and Outreach Officer, Soldiers of Oxfordshire Museum.

Barrus was also involved in a charity event organised by SOFA where Dan and Peter Snow presented their book, 'The Battle of Waterloo Experience' which tells the story of Napoleon's 100 Day Campaign. Barrus donated a Cub Cadet ride-on mower for the event.



KEEP IN TOUCH!

For regular product information and useful advice and tips why don't you follow us on Facebook and Twitter? Watch out for promotions and competitions throughout the year.



Wolf-Garten Garden Tools



Wilkinson Sword Garden Tools



Yanmar Marine



Mariner Outboards UK



Mercury Outboards UK



Quicksilver Boats



Cub Cadet



Lawnflite



Loncin

SPOTLIGHT ON BARRUS STAFF

JEREMY GETS SHIRTY!

Barrus Spare Parts Co-ordinator, Jeremy Denton took up the challenge of wearing a different shirt every day for as many days as possible to raise money for the Motor Neurone Disease Association.

Jeremy has worn some very unusual shirts over the 200 days of the challenge. His efforts have been rewarded raising a massive £2000.00 for the charity. Jeremy will continue with his fundraising by selling some of the shirts on eBay and running local events.

When asked which his favourite shirt was and why Jeremy commented, "It has got to be the pink frilly satin shirt which I matched with snakeskin trousers on day 200 when the amount raised exceeded £2000.00. I would like to thank Barrus for supporting me during my challenge and my colleagues for putting up with my lairy shirts!"



A MARATHON WITH A VIEW

John Collett, Sales Office Manager for the Marine Leisure Division competed in the Paris Marathon.

John (pictured centre) ran the Marathon last year along with two of his friends achieving a very respectable time of 4hrs 16mins 35secs and raising £1023.75 for their chosen charities, Tommy's, Teenage Cancer Trust and Cancer Research UK. "We had talked about running a marathon for some time and we thought if we are going to put ourselves through the pain and agony of 26.2 miles then why not do it in a city as picturesque as Paris," John commented.

John's team of three runners has now grown to eight and other charities that will benefit from their fundraising include Action for Pulmonary Fibrosis and Children's Brain Tumour Foundation.



BARRUS LONG SERVICE AWARDS

Twenty-six employees were presented with Barrus Long Service Awards in December 2015.

The Awards recognise the dedication, commitment and loyal service of Barrus employees in achieving five, ten, fifteen and twenty-one years of continuous service.



Here are just a few receiving their awards from Robert Glen, Chairman, E. P. Barrus Ltd.

KEEPING IT IN THE FAMILY

The Mick Kitching Award for Barrus Apprentice of the Year 2015 was awarded to Jordan Marchant. The award was presented for the first time in 2014 with Jordan's brother, Carl taking the accolade.

Jordan joined Barrus as an apprentice in 2014 after completing a Level 3 Motorsport Engineering Course. He has achieved distinctions in electronics and engine technology at Bicester and Banbury College and from October last year embarked on a part-time University Foundation Degree at Oxford Brookes University. "The experience I have gained working as an apprentice at Barrus is invaluable and I am keen to keep learning more so that I can become better at what I do," commented Jordan.



Robert Muir, Managing Director, E. P. Barrus Ltd (left) presents Jordan with his award

CRAIG RECEIVES A HELPING HAND

Engineering apprentice Craig Watts, who has been working on day release from Banbury and Bicester College since 2014, has secured a full-time position at Barrus with funding assistance from the Worshipful Company of Shipwrights.

Craig completes the BTEC Extended Diploma Level III Motorsport Engineering course in May this year. The grant from the Worshipful Company of Shipwrights has enabled Craig to kit himself out with the required tools, tool boxes and equipment to carry out his new role at Barrus.

The original purpose of The Worshipful Company of Shipwrights 700 years ago was to safeguard the quality of shipbuilding in London. This continues today with the presentation of annual awards of excellence. One of the Company's aims is to promote and support education and youth development programmes in the maritime area.

grateful to The Worshipful Company of Shipwrights for the support they have given me as I start out on my engineering career with Barrus," commented Craig.



FOLLOWING IN THE FOOTSTEPS OF THE F1 STARS

Mike Burge will be using his experience in motorsport engineering to help him as he embarks on his first season in kart racing.

Mike, who is a Sales Engineer for the Special Products Division at Barrus, is competing in the Easykart Senior Light Series, entry level into the world of kart racing.

Promoting Barrus and the brands of Cub Cadet and Loncin on his kart, Mike will take part in the 8 rounds of the series, starting at Shenington in March and finishing at Whilton Mill in October.

Good luck Mike and we look forward to following your progress.

AMANDA'S GLITTERING STRICTLY

Amanda Harman sparkled on the dance floor in Bicester's version of Strictly Come Dancing smiling all the way to third place with her semi-professional partner Kevin Jordan.

Amanda's amazing jive won her the accolade out of twenty competing novice celebrity dancers. "I was absolutely terrified as I went out on the dance floor, but once I saw my colleagues from Barrus all cheering me on, I relaxed, put on a smile and danced!"

The event raised over £6000.00 for charity which included Amanda's chosen charity, Asthma UK.

Amanda's day job is Sales Office Manager for the Powered Products Division.

This annual event is organised by Sue Douglas, a Receptionist at Barrus.



PAUL'S DESERT ADVENTURE

Paul Brownell, Spare Parts Manager answered the call of the desert last November when he decided to sign up for a self-funded, six day trek through the Sahara Desert.

Before leaving on his adventure, Paul commented, "I have done some stupid things in the past but this could be the most stupid yet!" Paul travelled with a group of 19 and 5 support staff including Muhammed, 3 camel drivers and two cooks who were introduced as Gordon Ramsay and Jamie Oliver.

Commenting on his experience Paul said, "The desert is a truly awesome place, especially at night when you can see so many stars. It is difficult to identify the most common constellations that you see at home. It was no busman's holiday – not a blade of grass or a boat to see for miles. On top of all that I managed to raise a significant sum for Barnardo's, for which I would like everyone that supported me."



ROYAL BRITISH LEGION SHOWS ITS APPRECIATION TO BARRUS FOR THEIR OUTSTANDING SUPPORT

Barrus's support of the annual Royal British Legion Poppy Appeal has been recognised by the Bicester and District Branch with the presentation of a Certificate of Appreciation and Honourary Membership of the Branch to Robert Glen, Chairman of E.P. Barrus Ltd.

For five years, Barrus has provided dedicated, secure warehouse storage and sorting facilities for the Poppy Appeal stock, coordinated the distribution to local destinations and handled the return of surplus stock.

"The support offered unconditionally by Barrus considerably eased the logistics and administration of the Poppy Appeal. This allowed the team more time to concentrate on the important collection of funds in support of the appeal," commented David Crabbe, Branch Secretary and Poppy Appeal Organiser.

The presentation held at Barrus's headquarters in Bicester, was made by Brian Leach, Chairman of The Royal British Legion Bicester and District Branch. Brian commented, "I would like to express our heartfelt thanks from all Members of the Royal British Legion and that of those military veterans, young and old, and their families, who, when in need, benefit from such generosity."

This year the collection for the Royal British Legion Bicester and District Branch Poppy Appeal achieved a record total of £44,925.67. "This

magnificent total would not have been possible without the support of the Chairman and Staff of Barrus," Brian concluded.

"Barrus is committed to offering our on-going support to the Royal British Legion's annual Poppy Appeal. We all owe a great deal to those who have served and continue to serve and we are proud that we can honour them in this way," commented Robert Glen, Chairman, E.P. Barrus Ltd.



The presentation party left to right: Brian Bailey, Affiliations, The Royal British Legion, Brian Leach, Chairman of The Royal British Legion Bicester and District Branch, Robert Glen, Chairman, E. P. Barrus Ltd, David Crabbe, Branch Secretary and Poppy Appeal Organiser.

Barrus Show Planner 2016

Come and see us at the many shows and exhibitions we attend throughout the year.
Check out the Events Calendar at www.barrus.co.uk plus Facebook and Twitter for the latest information on forthcoming events.



Poole Harbour Boat Show
Poole Quay Boat Haven,
Dorset
20th - 22nd May



Skipper Expo
Exhibition & Conference Centre,
Bridge of Don, Aberdeen
27th - 28th May



Crick Boat Show
Crick,
Northampton
28th - 30th May



Seawork
Mayflower Park,
Southampton
14th - 16th June



BBC Gardeners' World Live
NEC,
Birmingham
16th - 19th June



Hillhead
Buxton,
Derbyshire
28th - 30th June



RHS Hampton Court Flower Show
Hampton Court Palace,
Surrey
4th - 10th July



RHS Tatton Park
Knutsford,
Cheshire
20th - 24th July



BBC Countryfile Live
Blenheim Palace,
Oxfordshire
4th - 7th August



glee
NEC,
Birmingham
12th - 14th September



Southampton Boat Show
Mayflower Park,
Southampton
16th - 25th September



The Emergency Services Show
NEC,
Birmingham
21st - 22nd September



The Showman's Show
Newbury Showground,
Newbury
19th - 20th October



MARINE EQUIPMENT
TRADE SHOW
15-16-17 NOV 2016
AMSTERDAM

Marine Equipment Trade Show
Amsterdam,
Netherlands
15th - 17th November

We look
forward
to seeing you.



Should you require further information on any of the items featured in this issue of The Innovator,
please contact Karen Clarke.

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