

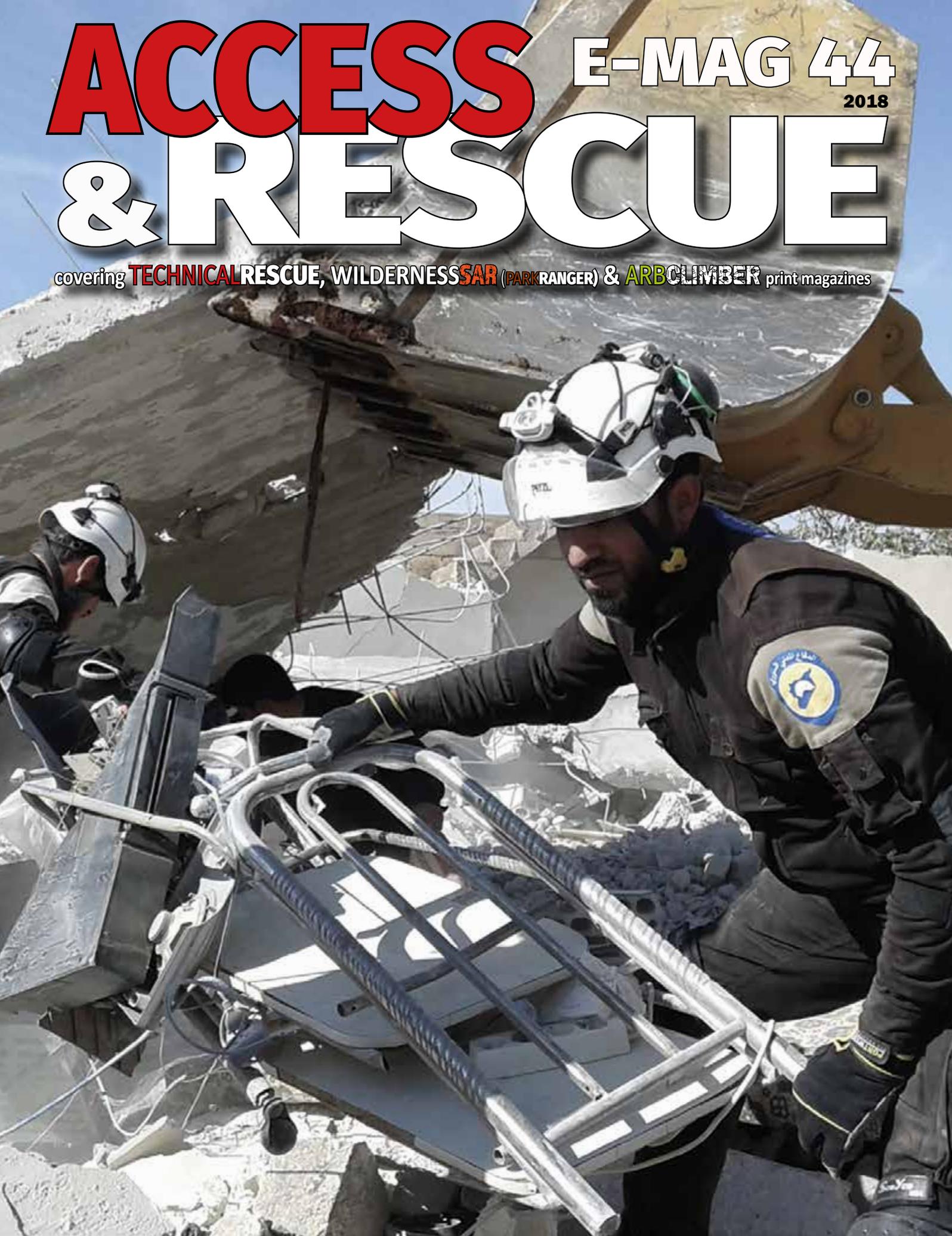
# ACCESS

# E-MAG 44

2018

# & RESCUE

covering **TECHNICAL RESCUE**, **WILDERNESS SAR** (PARK RANGER) & **ARBCLIMBER** print magazines



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## EMAIL ADDRESSES

We've got a shed-full of email addresses so if you get mail bounced, try another one - they all work at some point!

admin@rescuemagazines.com  
 arbclimber@aol.com  
 rescuemagazine@aol.com  
 accessandrescue@aol.com  
 rescuemagazine@btinternet.com  
 ade@trmedialtd.com

## From the EDITOR.....so?

With issue 4 out it's now time for **PARKRANGER** to quietly retile to **WILDERNESSAR**. Issue 5 will be out around the end of the year, maybe early Jan depending on the Christmas rush because we're going to swap the order and bring out **TECHNICALRESCUE** #74 first. **WILDERNESSAR** is exactly the same magazine - the content is exactly the same, the design is the same, the article spread is the same it's just the title that changing. We've already covered this on numerous occasions but in case you missed it, the name change is because our core coverage areas of mountain and cave rescue, wilderness search, long-range helicopter and maritime SAR don't necessarily come under National Parks purview in a lot of countries outside of North America and even within North America. So to capture all of the teams and agencies regardless of jurisdictional top cover we think WILDERNESS SAR covers it. There is still some crossover with TECHNICAL RESCUE because many national Parks and wilderness teams regarded as 'remote' from metropolitan areas may still deal with extrications and water rescue etc. and equally many fire stations in rural areas may deal with wilderness searches and rescues but generally speaking, we're separating them as lightweight, remote operations particularly in mountainous areas for **WILDERNESSAR** and equipment-heavy, vehicle-based rescue in urban-industrial environments and the immediate surrounding areas for **TECHNICALRESCUE**.



## SAFETY RECALLS

We now have a page on the website for safety recalls and safety notices. We will continue to include them in these Emags but since we're a quarterly and there could well be a time consideration we felt it best to do both. Let us know if you have a safety notice or see one that's applicable. The website page is:

<https://www.rescuemagazines.com/> Cheers **ADE SCOTT**



# SKI SAR HELMET

Cleveland-based Team Wendy® announced the release of three additional colors of its M-216™ Ski Search and Rescue (SAR) helmet today. These three new color options – MultiCam® Alpine/Gray, MultiCam® Black/Gray and Red/Gray – bring the total number of available colors of the M-216 to five.

The helmet launched in Nov. 2017 with two colors: Black/Gray and White/Gray. Its hybrid shell design is two-tone; an ABS hard front shell provides reinforcement for mounted accessories while an in-mold polycarbonate rear shell reduces weight.

"The M-216 is the only alpine-rated helmet of its kind, providing the special operations community with a platform that can be scaled up or down to meet the mission requirements," said Jose Rizo-Patron, CEO of Team Wendy. "In the helmet's second season, we wanted to bring additional colors to the marketplace so that professionals and everyday skiers alike have options to suit their needs."

Different from traditional ski helmets, the M-216 incorporates mounting capabilities not previously available to operators in any ski or snow rated helmet. Utilizing features originally developed for the military and tactical community, the helmet provides side accessory rails for mounting a variety of lights and cameras, and a glass-reinforced polycarbonate shroud for attaching headlamps and cameras. A machined aluminum Wilcox® shroud insert is available by request for mounting night vision and thermal optics devices. Every helmet includes a Princeton Tec® task light (choice of Switch-MPLS or Switch-Rail) that seamlessly integrates with the accessory rail. The helmet has also been optimized for comfort and stability featuring a Boa® Fit System for precise fit adjustment and single-handed quick release, and an under-the-chin retention system with a Fidlock® magnetic buckle for one-handed operation even while wearing gloves.

The protection offered by the M-216 Ski SAR helmet is highlighted by meeting ASTM F2040-11 for recreational snow sports and BS EN 1077:2007 Class B for alpine skiing and snowboarding.

Black/Gray, Red/Gray and White/Gray retail at \$328.95 while MultiCam Alpine/Gray and MultiCam Black/Gray retail at \$340.95. All five colors are available for sale on TeamWendy.com and through authorized distributors; and will be available on Amazon Prime in the coming

The three new color options are available for pre-sale with fulfillment in October.

COST in US - \$246.71

ABOUT TEAM WENDY®

Cleveland-based Team Wendy's mission is to research, design, develop and deliver the most innovative, purpose-built and impact-mitigating products and technologies on the market. It places a strong focus on research, particularly the causes and prevention of TBI. Founded in 1997 in honor of Wendy Moore, who died tragically from a TBI following a ski accident, Wendy's name lives on today in the protective products and gear used by thousands worldwide, including the men and women of the United States Military.

www.TeamWendy.com



# STANLEY Fubar

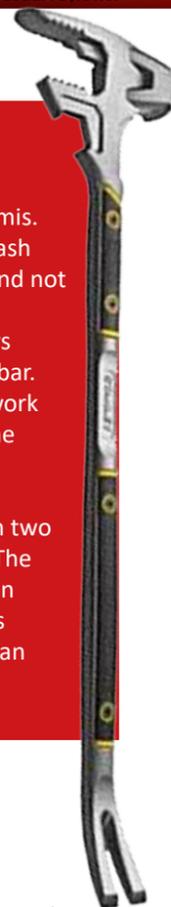


Sometimes you need to wreck something for a good cause. Sometimes that thing that needs to be wrecked requires something bigger than a hammer or that expendable piece of yard art you never liked anyway. In those situations, go big with Stanley's Fubar.

The Fubar is billed as a forcible entry tool for first responders who need to get inside a house or car in extremis. They don't have time to mess around, so they need a heavy object with sharp and blunt surfaces to poke, pry, slash and crush their way in. Stanley has a bewildering array of tools designed to do just that, but we like the Fubar, and not just for the name.

The Fubar comes in two sizes, a handy 18 inch, 6 pound model and a larger 30 inch, 9 pounder. Both feature jaws sized for 2x lumber with a recessed fire hydrant nut wrench, a gas shutoff wrench, nail remover and beveled prybar. Both also feature a hammer head, with the one on the 30 inch model being significantly larger. All the features work intuitively and as designed, and as a bonus both can be used to break glass and rake the windowsill to remove the poky bits that will otherwise slice and dice you as you climb in or the rescue-ee climbs out.

We like the shorter model for our vehicle and the longer one for the house, but it's nice to have a choice between two great tools. One small change we'd like to see is using the grip material from the longer tool on the shorter one. The longer tool grip has better traction, is lower profile and kinder to the hands. We see the need for a harsher grip on the shorter tool since you'll likely have to use more force due to the decreased leverage, but maybe the grips could be made to be interchangeable so you could choose your material. It's a small suggestion to improve an otherwise great set of tools. Around \$64.99 at Amazon



# THE NORTH FACE Phantom 38 Pack

The North Face has really stepped up their game the past few years, and a great example of the fast and functional gear they're putting out is the Phantom pack. Available in 38 and 50 liter capacities, we looked at the smaller one to see how much performance we could wring out of a lightweight design.

The Phantom 38 is definitely lightweight at just over two pounds, but when we looked for where corners may have been cut we didn't find any. The pack includes plenty of features, starting with being able to remove the hip belt, frame sheet and floating top lid. Need to carry skis? Check. Rope? Check-check. Ice tools? Most def.

TNF managed to squeeze in inner and outer pockets on the top lid, a velcro hanger inside, a pocket on the left hip belt and a gear loop on the right. Some small but innovative features include a fabric loop on the cord keep around the mouth to the main compartment; this allows easy grabbing with gloves on to open it and to cinch it shut, a minor but much appreciated convenience. Also cool are the removable straps for holding down the top lid and for compressing over the top of the main bag. Also a minor detail, but it's great to be able to reconfigure the pack for the mission at hand by getting rid of features you don't need. It's not just the weight, it results in a cleaner, more snag-free pack that you can manipulate quickly without straps galore to get in your way.

The Phantom 38 carries very well, thanks to the low profile waist belt - with dual adjustments, one of our favorite things on packs - and the contoured shoulder straps with load lifters. Skis get two compression straps per side, which can also be used to cinch your load if you're sans skis at the moment. The Phantom 38 is a true alpinist's pack, with everything you need, nothing you don't and the ability to configure it to the mission of the day - or the hour. Highly recommended. \$169.95 at Backcountry



# BD Big Air Pilot Package Belay device

I have a pen. I have pineapple. Uh! Pineapple pen. I have a Gridlock. I have ATC Pilot. Uh! Big Air Pilot Package. If you don't get the reference, we are sad. Click on link because 200 million people can't be wrong. Black Diamond combines two excellent products into one belay device wunderdeal. Note the ATC Pilot is a specialized device intended for single pitch and top rope belays. It's not for rappelling or any of those fancy multipitch, multibelay, multirope scenarios; that's what the other ATC variations are for. The ATC Pilot is good on ropes 8.7 to 10.5mm, and what it does on those ropes it does very, very well. It catches single rope falls reliably and softly, and enables the buttery smooth payout of rope when needed for slack or lowering. The device locks up automatically - this does NOT mean you can release your belay hand - making it much easier to hold a climber in position like you need to do frequently with beginners or even with advanced climbers working a project, placing bolts, etc. Using the Pilot does take a bit of practice to get used to how it locks and pays out line, but nothing that a few gym sessions won't bring you up to speed on. The Gridlock we've reviewed before, and it's still a great belay device biner anywhere, anytime. The whole package, biner plus belay device, is a great deal if you're looking for a single pitch solution that weighs nothing, works flawlessly and adds a small but welcome margin of safety to your next climbing project. \$48.71 (on sale from \$64.95) at Moosejaw



# H3R Maxout 250R Fire Extinguisher



Fire extinguishers are so commonplace that we tend to ignore them, like traffic lights. Unlike traffic lights, fire extinguishers require a little knowledge to select the right one and to use it appropriately. Luckily the folks at H3R know what they're doing and are here to help. Rather than going over the nitty-gritty of why H3R extinguishers are so great, just know that their products are everywhere in racing, offroad and aviation because they're designed right and they work when you need them to.

We were looking for an extinguisher that we could keep in our Jeep, both for automotive fires and for fires in the backcountry that were small enough to contain with a handheld extinguisher. Yes, we're talking about your out-of-control campfire. Knowing that, we selected the MaxOut 250R. It's medium sized, with 2.5 pounds of dry chemical agent, with a UL rating of 1A:10B:C.

Let's break that down, starting with the rating. UL is Underwriter's Laboratory, which has been testing and certifying products for safety since 1894. The extinguisher rating has three letters for the types of fires it is designed to put out: A for wood, paper and other combustibles, B for flammable liquids and gases like gasoline, and C for electrical fires. A and B get numbers too, which indicate the relative size of the fire the extinguisher can put out. For more details check out H3R's FAQ page, it's great.

The agent, the stuff inside the extinguisher that sprays on the fire, is important too. H3R makes B:C extinguishers specifically for cars and airplanes called HalGuard that use the agent Halotron, an effective, environmentally safe and more expensive agent. But it doesn't work well on type A fires, which we wanted the option for because of campfires, so we went with the MaxOut. Size was a consideration too. Our neighbor is a wildlands firefighter and says that 2.5 pounds is a good start, meaning you have to catch a fire early to put it out with a small to medium extinguisher. That should be OK for fires that start when you're present, but use good judgement for bigger fires you might stumble on; using 2.5lbs on a fully engulfed vehicle is like throwing bricks in the Grand Canyon.

Mounting was our final challenge. On a Jeep you can mount to the rollbar, seats or in the cargo area. We used H3R's seat mount, which took some finagling. There wasn't quite enough space on the side of the seat to mount there, so we put it in front with the mounting surface vertical. The picture above on the lower right is our install, the pic above it is the H3R recommendation. It took about an hour, starting with a loose assembly, lots of nudging of parts and gradually tightening everything up. Gently smacking the brackets that mount under the seat bolts with a five pound hand sledge helped create enough space to get sockets on everything. In the end the mount intrudes about 4-5 inches into the passenger footwell, not a huge deal. One day Jeep will get smart and make the front of the seat mount more accessory-friendly, but for now this works. The extinguisher is in a space not normally used for storage, doesn't hugely detract from foot space, and is quickly accessible by both driver and passenger. Plus it's hard to miss every time you get in the vehicle, so like our trauma kit mounted to the ceiling you'll remember where it is when you need it. You just can't go wrong with H3R in your car. \$73.38 at Amazon



# TETHERED UAV

[ED: Just when you thought you whole point of UAVs was to go where they like by remote control it turns out that this level of independence brings with it problems of battery longevity, signal disruption and hacking. This iLiveSky Hoverfly is the modern equivalent of a second world war barrage balloon or the modern tethered meteorological balloons but in this case the tether provides endless power so the UAV can stay in the air until it's motor wears out or a blind sea gull hits it. It can also send unhackable data via the hardwire so it's not as daft as it might first sound. ]

The LiveSky™ is a portable, persistent aerial imaging solution ideal for providing government, DoD, public safety, commercial security, and media professionals with instant aerial imagery from up to 200 feet above ground level. With broadcast quality video, 10-times optical zoom and optional thermal imagery, the LiveSky can stay aloft indefinitely, providing persistent video coverage using Hoverfly's power-tether and video-over-tether technology. The tether provides endless power and provides additional safety and secure communications by giving the LiveSky a physical connection to the ground.

Hoverfly tether-powered sUAV (Small Unmanned Aerial Vehicles) systems solve short battery-life problems associated with free-flying drones because they operate using a standard 120VAC power source or vehicle inverter. The power, command and control information and video are transmitted over the tether making the entire system completely secure from jamming, hacking or spoofing, ensuring the privacy of the data

and improving safety. Perhaps the biggest benefit of Hoverfly systems is they are autonomous and require no piloting skills. The CEO of Hoverfly likes to say, "if you can operate an elevator, you can operate our LiveSky system."

**APPLICATIONS**

Obtain real-time, day/night imagery for situational awareness, force protection, security, and monitoring.

**Persistent Thermal Imaging**

Generate thermal imagery of large areas during emergencies and search and rescue missions.

**Training Review**

Record all angles of drills or exercises to improve feedback with after action reviews from above.

**FEATURES**

200ft Altitude

Persistent and secure real-time streaming video up to 200ft.

Operate in Complex Environments

Operate in RF and GPS denied areas (urban jungles, sensitive areas).

High-Tech Package Options

Industrial options for professionals (10x zoom, dual EO/IR, automated tether, custom paint).

[hoverflytech.com](http://hoverflytech.com)



# CARRY ON, CARRY ANYWHERE!

[ED: In tandem with the rise in drone usage has been an explosion of protective carrying case options. You can obviously use any relevant sized case from any of the professional grade companies like Peli, Explorer and Otter etc. but HPRC from Italy seem to have made it their mission to come up with cases customised to very specific models of Drone (and cameras). We've picked out this one from the 3500 range not because the drone is particularly relevant to rescue but just to show the principle for smaller, surveillance-only drones. In this case the back-pack is very useful for SAR operators taking a drone 'off-road' and international disaster response teams taking it on an aircraft ]

This watertight and waterproof hard backpack, based on the HPRC3500 series, is specifically designed to easily transport the DJI Mavic 2 Pro/Zoom. It features a pre-cut high-density foam interior that holds:

- the Aircraft (Intelligent Flight Battery and Gimbal Protector included)
- Remote Controller
- Intelligent Flight Batteries
- Battery Charger
- Usb Adapter
- Car charger
- Propellers.

Internal dimensions: 433x319x169(mm) - 17.05x12.56x6.65(in) External dimensions 498x370x185(mm) - 19.61x14.57x7.28(in)

Weight: 3.55kg - 7.82lbs/1lbs Temperature rating: Minimum -40°C -40°F +80°C +176°F

Approvals: ATA 300 IP67 STANAG 4280 DS 81-41 COST: \$325/€318

[www.hprc.it](http://www.hprc.it) or [www.hprcusa.com](http://www.hprcusa.com)

# Over 350 missions from the NSW Ambulance & Toll Rescue Helicopter Base in Orange

Southern NSW has access to world-class aeromedical care with a brand new purpose built base at Orange as part of the NSW Government's \$151.2 million statewide Helicopter Retrieval Network.

Health Minister Brad Hazzard, NSW Ambulance Chief Executive Dominic Morgan and General Manager Toll Helicopters, Mark Delany, joined local aircrew and NSW Ambulance helicopter doctors and paramedics at the official opening of the Orange NSW Ambulance & Toll Rescue Helicopter Base today. The \$2.5 million base, which forms part of the Southern Zone along with bases at Bankstown, Wollongong and Canberra, is a major investment for local communities and means a significant improvement in emergency medical care for residents throughout the Central West and beyond.

Over 350 missions have been completed since the 14 May 2017 beginning of operations at Orange NSW Ambulance & Toll Rescue Helicopter Base which houses one AW139 aircraft online 24/7/365.

The NSW Ambulance & Toll Rescue Helicopter fleet is made up of eight new purpose-built best in class Agusta Westland 139 (AW139) helicopters, which deliver the latest in performance, safety and innovation – assisting NSW Ambulance helicopter doctors and paramedics to reach patients in remote areas, further and faster than ever before.

Mark Delany, General Manager Toll Helicopters, said "We are extraordinarily proud to operate this facility with a full and stable crew. Thank you to the people of Orange who welcomed us into their community and to NSW Ambulance, for entrusting us with the responsibility of supporting the delivery of safe world-class aeromedical and rescue services."



Commissioner Dominic Morgan, Chief Executive of NSW Ambulance praised the new partnership. "With a team of a NSW Ambulance doctor and paramedic, or a doctor and nurse, available for every flight, the new highly sophisticated fleet of Agusta Westland 139 helicopters will ensure we are even better equipped to care for the community, now and into the future," Commissioner Morgan said.

The Orange NSW Ambulance & Toll Rescue Helicopter Base features:

- A new hangar to house the AW139 aircraft
- Staff living and sleeping quarters
- Training facilities
- Operational 24 hours a day

[www.tollairambulance.com.au](http://www.tollairambulance.com.au)  
[www.acetrainingcentre.com.au](http://www.acetrainingcentre.com.au)

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An event by **tangentlink** CONNECTING BUSINESS



Issue 41 was from 2004 and featured NYPD ESU personnel on the streets of New York around Wall Street. It was a nod to 9.11 and our 'Taking Stock' editorial in issue 41.

Much as TECHNICAL RESCUE is a magazine for the

specialist areas of rescue including USAR we had repeatedly warned of the need to invest heavily in flood and swifwater rescue (as most loudly voiced by our water

rescue editor Jim Segerstrom) instead of the rush to cater to structural collapse following 9.11. We felt that far too much money was being channelled into an area that was both unlikely to occur with any frequency and when it did occur was still going to see local crews and first on-scene responders achieving any meaningful rescues. The cost per life saved was simply huge in comparison to other, neglected areas of rescue and emergency medical care. We 'took stock' of this in an editorial in issue 41 shortly after a gas explosion in Glasgow and a roof collapse at Paris Airport which were the largest events in Europe post-9-11 but yielded few if any rescues directly attributable to post-9:11 USAR expenditure - we put the cost then in the UK alone at between £5,000,000. and £15,000,000 per life 'saved' and surmised, as we had in 2001 that we simply had to accept that events like 9.11 were so devastating that there are very few actual rescues that couldn't be dealt with by

crews with pre-9.11 capabilities. Lives were NOT lost due to any inadequacies in New York Fire and Police ESU structural collapse capabilities as they existed at that time. We later re-examined this in about 2009/2010 and nothing much had changed in terms of regularity or nature of structural collapse but the cost-per-life equation had sky-rocketed.

However, by then the warnings on flood preparedness were being heeded and much more expenditure was going towards redirecting skills and refocusing the vehicles of USAR and Technical Rescue Teams to water rescue. Not necessarily because such teams were the most skilled personnel for water rescue but because we had to make better use of all of those personnel and resources. In many cases the full time USAR capabilities built up and funded for getting on for 15-18 years in the belief that another 9:11 could be better dealt with, were quietly disbanded, relocated, downsized or re-tasked providing a leaner, meaner rescue capability and allowing other sectors of special rescue to be better resourced. It seems odd nowadays to even question the need for water rescue but around the turn of this century it was a minority discipline which many a senior officer and politician questioned the need for. Not like officers and politicians to be wrong?

Meanwhile.....Our Back to Back article was multitools that are still around today and in the piece below we highlighted the now standard but at that time 'revolutionary' push towards compression-only CPR.

## IMPROVING RESUSCITATION OUTCOME

In the next issue we're going to be examining research work undertaken by professor Stig Steen and his Swedish colleagues and supported in the UK by professor Douglas Chamberlain and David Halliwell (former Senior Resus Officer at Poole Hospital and now Head of Education at Dorset Ambulance NHS Trust) and Paul Reeves (Paramedic, former resuscitation officer and Resus Specialist with Dorset Ambulance Service). Many of you will have heard whispers of compression only CPR and perhaps dismissed it as the next temporary fad to affect resus guidelines. That might be a premature dismissal. Without wishing to pre-empt the full article it is important to precis some of this research here because it has a direct bearing on why the CPREzy maybe such a useful tool. Animal experimentation in Sweden seems to prove that during the first 3mins of Ventricular Fibrillation (VF) the right ventricle becomes engorged with arterial blood leaving the left ventricle virtually empty. (The reason for this will be explained in future articles, or can be found by looking at www.jolife.com) With the heart in this state the application of 100% oxygen and electronic defibrillation (by the most effective, direct application paddles) has failed to produce conversion, because in effect, as David Halliwell describes it, the fuel tank is empty (left ventricle) so no amount of turning that starter key (defibrillator) will start the engine...Therefore by using effective chest compression the Right ventricle can be

emptied allowing the Left ventricle to fill, allowing blood to flow through the coronary arteries and the facilitating re-starting of the heart.

In a set of 8 pigs exposed to 6.5 minutes of VF and 3.5 minutes of Mechanical compressions/decompressions with defibrillation administered without halting compressions (please don't try this at home without a mechanical compressor!), 7 of the 8 pigs experienced conversion and ROSC (Return of Spontaneous Circulation). The Swedish team suggest that because the coronary perfusion pressure was raised as compressions increased blood in the left ventricle and cleared the right ventricle thereby allowing blood to flow naturally through the coronary arteries. However, The Swedish group found that in a second group of 8 pigs exposed to 6.5 minutes of VF and 3.5 minutes of Mechanical compressions/decompressions which were halted for 30 seconds while defibrillation was carried out only one of the six pigs experienced ROSC!. This would be a similar scenario to standard time taken for an AED to charge or for a manual defib operator to make the decisions and visual checks required before defibrillating. This was, the authors suggest, due to a rapid drop in Coronary perfusion pressure during the temporary halt in compressions. This is obviously a small test sample to cite as a reason for radically changing years of resuscitation 'law' but ongoing research since those initial experiments in Sweden, the US and the UK seems

to bear out the fundamental science behind these dramatic differences in patient outcome on-scene.

Of course 'on-scene' is the critical term because we have long been able to administer drugs 'on-scene' that will improve patient response to resuscitation without ever improving their chances of ultimately leaving the hospital alive. But what it does highlight is the importance of maintaining coronary perfusion pressure and attaining an adequate level before any attempt at defibrillation, in short - no matter how good your defib technology evidence is building to suggest that we should consider focussing upon the effects of our chest compressions rather than the different waveforms. Later we'll also explore how high quality compressions can maintain the ability of the heart to restart after 20 or 30 minutes not just the several minutes often allocated because the coronary perfusion pressure keeps putting you back to square one during pauses in compressions.

It will be left to the next comprehensive article by David and Paul to convince you of the importance of this new research and of effective compressions during CPR with minimal breaks for EAR (if at all!!!). This will include a review of the LUCAS chest compression / decompression device and will cite work undertaken by many researchers across the world. The Dorset Ambulance Team will also share some of their as yet unpublished data on the lucas mechanical chest compression device... Watch this space!



# MULTI-TOOLS

Choosing a multitool these days is harder than ever. Gerber in particular have revolutionised their range with a number of excellent designs while Leatherman have been more reticent in pushing the design limits though their Crunch based on mole grips was very distinctive and they moved wholeheartedly into the pocket/keyring markets with the high quality Juice and Squirt. But all that is about to change with a number of additions to the range throughout 2004. Here we're looking at Leatherman's current top echelon tools the Wave and Super Tool together with a less distinct tool the Pulse and Wengers radically different Grip. All tools come with a leather or webbing pouch and are star rated out of 5.

## WENGER POCKET GRIP

Origin:	Switzerland
Cost:	£49.95 / \$75.00
Weight:	215g / 7.25oz
Dimensions:	110mm / 4.3"
Material:	Plastic/Stainless Steel
Number of Features:	18
Bulk:	<span style="color:blue">■</span> <span style="color:red">■</span>
Ease of Opening:	<span style="color:blue">■</span> <span style="color:red">■</span> <span style="color:green">■</span> <span style="color:purple">■</span>
Locking Blades/Tools:	1- bit adapter
Versatility:	<span style="color:green">■</span> <span style="color:purple">■</span> <span style="color:orange">■</span> <span style="color:blue">■</span>
Quality of Construction:	<span style="color:red">■</span> <span style="color:orange">■</span> <span style="color:blue">■</span> <span style="color:green">■</span>
Value for Money:	<span style="color:orange">■</span> <span style="color:blue">■</span> <span style="color:green">■</span> <span style="color:purple">■</span>
Durability:	<span style="color:purple">■</span> <span style="color:orange">■</span> <span style="color:blue">■</span> <span style="color:green">■</span>
Rating for Rescue:	<span style="color:red">■</span> <span style="color:orange">■</span> <span style="color:blue">■</span> <span style="color:green">■</span> (non-locking blades)
As a Pocket Tool:	<span style="color:black">■</span> <span style="color:black">■</span> <span style="color:black">■</span> <span style="color:black">■</span> (fat but comprehensive)

### COMMENTS

The Pocket Grip actually has the most tools of the 4 featured here and could have had one extra if Wenger hadn't overlooked the immensely useful option of a pry-bar where the pliers handle is - in the SOG and similar tools this handle has a screwdriver style head enabling it to be used to pry off lids etc Wenger have chosen to round off their end rendering the handle useless for any other application. This is a Swiss Army Knife upgraded to multitool status and it's not bad at all. It has no locking blades which is a bit of a giveaway as to its roots and in the case of the nicely aggressive saw blade and drop point knife potentially hazardous to your fingers. Word of obvious advice - don't try breaking into a coconut with either blade unless the sutures are handy!!

The knife and wood/plastic saw are 2.5" or 6cm long - we know this because the saw has a ruler etched on both sides. There is a tin opener, bottle opener with screwdriver and our 'favourite' useless tool the awl. Hidden in the end of the tool is a



within a plastic case on the body of the tool.

On the outside edge is a fold out magnetised holder for the bit receiver. This pushes into a female hexagon in the end of the tool - the main picture shows the adapter in place in the tool end. This receptacle is a powder coated metal so will not distort under pressure. It has a subtle sprung clip to grip the bit even when upside down. The 6 bits are contained within a plastic hump on the top edge of the tool beneath the handle. The bits supplied are philips 0, 1 & 2, flat screwdrivers 1x 6.5, 0.6x4, 0.5x3.5.



These can obviously be modified to suit your needs. This feature as an on-board rather than supplemental set makes the Wenger immensely useful and to some extent overrides the

disadvantages of the non-locking blades. The pliers are available as needlenose or blunt nose and are the element that creates most bulk. If you look at these pictures of the Wave, Super tool and diminutive Squirt you get an idea of relative size and bulk when folded and opened. The head itself is very much smaller than a normal multitool and cannot enclose a standard sized carabiner screwgate in it's semi-circular jaws. It can, however, still effectively open every 'biner we tried with the ribbed flat section at the front.

The two most obvious features of the Grip are the pliers and the collection of 6 bits contained



### CONCLUSION

The Wenger Grip is actually the least expensive tool of the 4 reviewed here and so perhaps represents very good value. We're a little wary of the longevity of such a tool under sustained abuse but part-time

## LEATHERMAN PULSE

Origin:	USA
Cost:	£74.95 / \$72.00
Weight:	175g/6oz
Length:	100mm / 4"
Material:	Stainless Steel
Number of Features:	14
Bulk:	
Ease of Opening:	
Locking Blades/tools:	8/8
Versatility:	
Quality of Construction:	
Value for Money:	
Durability:	
Rating for Rescue:	
As a Pocket tool:	

**COMMENTS:**  
Pulse is a relative newcomer. Pretty much a variation on the same theme but incorporating some of the new styling that now also embraces the Supertool. This is the smallest tool we're reviewing here. 'Small' as in 'least bulky' because it has a sizeable repertoire. As with Supertool the locked blades are released with the thumb 'latches' located on each handle - a simple, effective method. Leatherman's standard needle nose pliers sit atop a 4" handle with ruler measurements up to 8"/20cm end to end. This is a feature lacking on the Wave. There are 3 flat screwdrivers including a very narrow



1.5mm and a medium philips. Blades pull out easiest as a group and then dispense with the ones you don't want. I doubt anyone ever uses the finger nail slot on the philips since it recesses below the tin/bottle opener and is too hard to reach. The file is straight from the Wave which is apparently a superior diamond-coated file but the Supertool's file is better when new! (there are versions with a knife sharpening groove but ours wasn't one of them!) Strangely, the lanyard ring on Pulse has a larger eye than the Wave and is consequently much easier to attach to a meaningful lanyard or

sure why the Wave's lanyard eye is so diminutive. Pulse does have the drawback of only one knife blade and it's a drop point. As we've always said, from a rescuers perspective we'd much prefer the serrated edge blade option. If there is only space for one blade it would be better to follow Kershaw's lead with the AS100 and have a half drop point, half serrated blade. But Pulse is cheaper than it's two Leatherman counterparts reviewed here (and the Kershaw AS100!) so we shouldn't be too harsh. One thing Pulse has definitely got right is a pair of scissors though these are noticeably smaller than the Wave's quite substantial offering. We've heard mention of a serrated version of scissors but again not on our samples.

In some ways the Pulse is a little bland with nothing to make it stand out from the crowd. But it packs some useful features into a much smaller package than the larger Super tool, the heavier Wave and the bulkier Wenger. We are now used to having a much better range of cutting implements than this - the file wastes an edge that could have been a useful saw blade, this would also back up the single drop point which is otherwise a little too susceptible to dulling in the rescue



environment to trust by itself. The inclusion of the thumb blade release on a number of Leatherman models is a definite improvement on the 'pulling out another tool' mode of unlocking.

### CONCLUSION

It's a competent enough Multitool but at £10 less than Supertool and £15. less than Wave how does it match up for value. Well, as a proportion of overall cost versus features and if you compare it with Supertool it may just have the edge with scissors canceling out the extra knife blade but the Wave still wins!



## LEATHERMAN WAVE

Origin:	USA
Cost:	£89.95/\$98.00
Weight:	230g/8oz
Length:	100mm / 4"
Material:	Stainless Steel
Number of Features:	17
Bulk:	
Ease of Opening:	blades  tools 
Locking Blades/tools:	4/11
Versatility:	
Quality of Construction:	
Value for Money:	
Durability:	 (if maintained)
Rating for Rescue:	 (tools don't lock)
As a Pocket Tool:	 (a little heavy)

**COMMENTS:**  
The flag ship Leatherman and for good reason. The Wave remains one of the world's top multitools. It broke the mould of Leatherman's previous and indeed current models by placing 4 large blades on the outside of the casing allowing immediate 'flick-out' usage without the need for unfolding the pliers. It even allows back to back use of a knife and saw blade simultaneously! A surprisingly useful feature that isn't possible with the PST/Super and Pulse or indeed many other multi- tools. Unlike other multiTools Wave's cutting blades cannot be deployed at the same time as the pliers (or other tools). The 2 full size knife blades provide clip point with straight edge and sheepsfoot (serrated) options. These can be flicked out (one-handed) using a thumb notch on the blade. The saw blade and file require an easily accessed thumbnail from



the end. The very positive lock on the 4 blades is a depression plate at the base of each blade just visible in the picture above as a lock symbol near the circular blade union. This is quick and safe to use when restowing the blades. Where the Wave falls down is in not being able to lock the ancillary tools - this is unusual in the multitool world and not in a good way. Scissors aren't really a problem but any tool that might require applied pressure such as the screwdrivers runs the risk of folding if pushed slightly off-centre. The file is capable enough but a bit lightweight compared to the Supertool. One face is a shiny 'coarse' diamond-coated file the other a nail file (as far as we can tell!). The much coarser edge which is almost a very fine hacksaw, is just not coarse enough to cut efficiently - it will however cut a deep notch if you



designed with a functional hacksaw on that edge? We feel that scissors are a vital part of a Rescuer's multitool, some folk say that they carry paramed shears or scissors anyway but the point about a multitool is it's a big lump of metal 'compromise' to cover those occasions when you don't have a set of screwdrivers, or a bow saw or an electric can opener! The only tool that isn't a compromise are the pliers. The scissors on Wave have a 25mm cutting edge, 5mm more than Pulse and a 100% more than the SuperTool! However, unusually it doesn't actually lock in the same was as the Pulse scissors. The serrated (scalloped) cutting blade is also a vital addition for rescuers because it is so much more efficient at cutting rope, netting and webbing than the traditional straight edge blade. Having the option of both also means you can save the keen edge on your straight blade for surgical interventions! If that's a bit extreme you can at least appreciate that your blade will stay sharp if all the donkey work is being done by the serrated blade.

A good range of screwdriver sizes; 4 plus the philips with the largest blade being meaty enough to pry off stubborn lids. Neither Wave nor Pulse have wasted space with that pesky awl that is still a feature of the SuperTool.

virtually every other design and if it hasn't earned any design awards it should have. Gerber have also succeeded in pushing the style boundaries with their latest models but the Wave is a modern classic. It's more ergonomic than other Leathermen (though the entire range has undergone some rounding off) and is the current benchmark by which all other multiTools are gauged. There are other tools with more useful individual features and Gerber in particular are getting close with their Legend but as a total package and for it's size Wave is hard to beat. Kershaw's immensely useful 'mole grip' has been adopted by Leatherman in the Crunch and Gerber have replaceable hacksaw and carbide tipped blades while the Swiss tool from Wenger has an integral socket driver set. Gerber and Leatherman add-on sockets are available as an optional extra but the Gerber in particular always lacked the positive lock and durability in the mid to long term of dedicated tools.

### CONCLUSION

The non-locking basic tools detracts a little from the functionality of Wave but it remains by far the best of the 4 tools here. Rust is definitely a problem and Wave requires constant care if used heavily. It is

WAVE TOOL ADAPTER

Origin: USA  
 Cost: £29.95/\$28.00  
 Weight: 128g /4.5oz  
 Dimensions: Case: 2.5"x2.25"/70mmx60mm  
 Material: Stainless Steel (not bits)  
 Number of Features: 7  
 Bulk:   
 Ease of access to Bits:   
 Versatility:   
 Quality of Construction:   
 Value for Money:   
 Durability:  (not the case)  
 Rating for Rescue:  (Fiddly and extra item to carry)



squeezes the tool onto the adapter. The adapter has a lanyard attachment (hence 7 features) and will alter its angle when the collar is pulled back. In practice this means you can use the bits at either 45 degrees or 90 degrees to the main tool. The case has a sturdy belt clip and houses one large screwdriver bit, one large & one small phillips, one star and two square headed bits. The large screwdriver seems a little superfluous since Wave has exactly the same size in its on-board armoury already.

Overall, a more rigid, firmer and stronger adjunct than the original Gerber designs but is a bulky add-on that could have been better incorporated into Wave's design. 



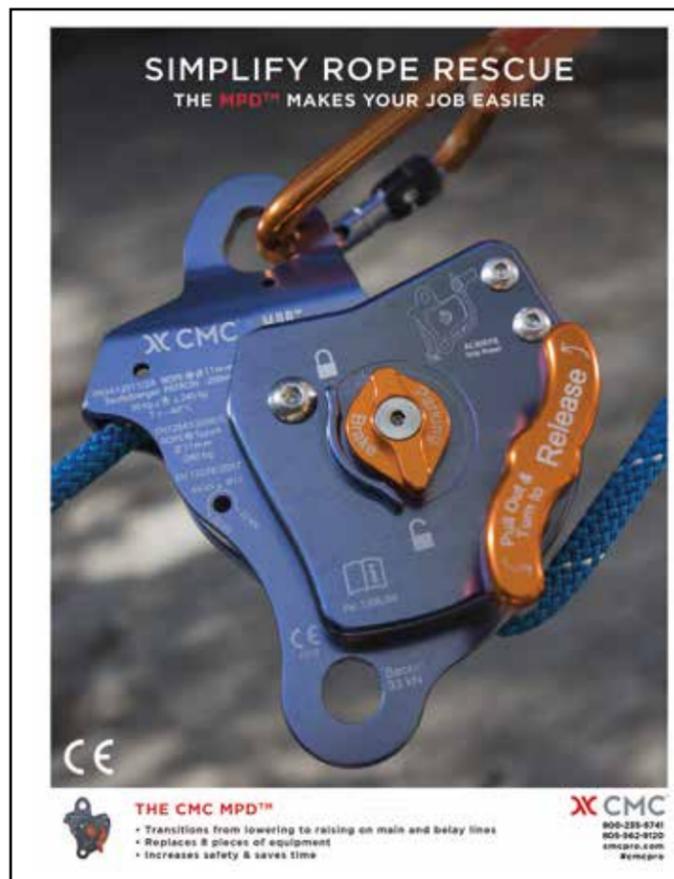
CAT RESCUE bag



ED: you probably thought a cat-rescue bag was just a Walmart / Tesco/Coles hessian shopping bag but no, a bespoke item does exist thanks to Arb genius Richard Mumford .....

Heavy vinyl gloves sewn into a heavy canvas bag with drawstring and 2 4kN rated carabiners (compare at 11.00 each). For use in tree climbing cat rescue. Not designed to be bite and scratch proof but offers superior dexterity and grip for controlling a scared animal.

A dark side and light side to make it easy to know which is the right or left hand glove. The climber can use both or either hand to make the rescue. \$30.00 [www.climbinginnovations.com](http://www.climbinginnovations.com)



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Welcome to Luke at LRV8 in the Sydney suburb of Carlton stocking all three print titles. Arb supply stores that stock ARB CLIMBER ALL have a wide range of rope-related equipment, including ropes, hardware, harnesses, helmets etc. as well as chainsaws, boots, clothing etc. Now that SRT is an accepted area of tree work the rope-related equipment is often the same and even if it's not they can get it in for you. In the case of suppliers shown in red below who stock TECHNICAL RESCUE magazine as well as ARB CLIMBER, these are already rescue and access equipment suppliers of note so they can sort you out whether you're an arborist or a rescue agency. Check out your local supplier if you haven't already and be amazed by the amount of kit you recognise. Our main regional ARBCLIMBER mag distributors carry plenty of mags and are shown in white. If you would like to stock our magazines (and aren't located next door to our existing stockists), email us: [admin@rescuemagazines.com](mailto:admin@rescuemagazines.com)

AUSTRALIA		LRV8	Unit 1/66, Planthurst Road	Carlton	NSW	<a href="http://lrv8.com.au">lrv8.com.au</a>
BELGIUM		K2 PROFSHOP	Cleydaellaan 10, Unit 8	Aertselaar	2630	<a href="http://k2profsnop.be">k2profsnop.be</a>
CANADA West -ALBERTA		ARBORIST SUPPLY CO	Bay 8, 141 Commercial Drive	Calgary, AB	T3Z 2A7	<a href="http://arboristsupplyco.ca">arboristsupplyco.ca</a>
CANADA West -BC		UNIVERSAL FIELD SUPPLIES	605-1515 Broadway St	Port Coquitlam, BC	V3C 6M2	<a href="http://universalfieldsupplies.com">universalfieldsupplies.com</a>
CANADA East -ONTARIO		UNIVERSAL FIELD SUPPLIES	1645 Bonhill Road #1 & 2	Mississauga, ON	L5T1R3	<a href="http://universalfieldsupplies.com">universalfieldsupplies.com</a>
CZECH REP		SKYMAN	Hliníky 299	Kunštát	679 72	<a href="http://skyman.cz">skyman.cz</a>
GERMANY West		BENK/CLIMBTOOLS	Weseler Str. 52	Mülheim an der Ruhr	45478	<a href="http://climbtools.de">climbtools.de</a>
GERMANY South		FREEWORKER	St. Gilgen 15	Gilching	82205	<a href="http://freeworker.de">freeworker.de</a>
FINLAND		SAHANPURU	Sinikalliontie 18	Espoo	02120	<a href="http://sahanpuru.com">sahanpuru.com</a>
IRELAND North		ARB IRELAND	72a Dunmore Road Spa	Ballynahinch	BT24 8PR	<a href="http://arbieland.com">arbieland.com</a>
IRELAND South		ARBORIST.IE	Ballycurreren Rd,	Frankfield	Cork	<a href="http://arborist.ie">arborist.ie</a>
JAPAN		ODSK	5513-2 Nishi-machi	Nagano-Ken	396-0026	<a href="http://works-odsk.jp">works-odsk.jp</a>
LATVIA		ARBORIST SHOP Ltd	Dzelcēļņieku str. 6-1	Liepāja	LV-3401	<a href="http://arboristshop.lv">arboristshop.lv</a>
NEW ZEALAND		TREETOOLS	8a Kerwyn Ave East Tamaki	Auckland	2013	<a href="http://treetools.co.nz">treetools.co.nz</a>
UK South-Central		HONEY BROTHERS	New Pond Road, Peasmarsh	Guildford	GU3 1JR	<a href="http://honeybros.com">honeybros.com</a>
UK South Coast		TREE KIT	Unit 3, Building 446, Aviation Business Park	Christchurch	BH23 6NW	<a href="http://treokit.com">treokit.com</a>
UK North East		GUSTHARTS	Milkhope Centre, Blagdon Seaton Burn	Newcastle upon Tyne	NE13 6DA	<a href="http://gustharts.com">gustharts.com</a>
UK North West		SKYLAND EQPT	Unit 17 Wheathill Ind.Est. Holt Lane, Netherley	Liverpool	L27 0YA	<a href="http://skylandequipment.com">skylandequipment.com</a>
UK South West		SORBUS INTERNATIONAL	Coed Court, Treforest Ind.Est	Pontypridd	CF37 5SW	<a href="http://orangeforestry.com">orangeforestry.com</a>
USA North-East		ARBORTECH SUPPLY	11494 James Madison St	Remington	VA 22734	<a href="http://arbortechonline.com">arbortechonline.com</a>
USA North West		WESSPUR	2121 Iron Street	Bellingham	WA 98225	<a href="http://wesspur.com">wesspur.com</a>



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**PRODUCT RECALL NOTICE**

**CMC K9 PROSERIES RAPPEL HARNESS**  
CMC Part Number: 890255  
Affected Lot Numbers: 016550, 017053

Dear Valued Customer,

The AustriAlpin 1.75" ANSI Cobra Buckle used on the K9 ProSeries Rappel Harness went through a recent design change to the latching mechanism. While visually similar, the change is not backward compatible with the previous version. During production of a recent (5/1/18) batch of the K9 harness (PN 890255), both versions of the buckle were used, and the male and female buckles were mismatched on at least two of the harnesses. These mismatched buckles do mate together, but do not positively lock and may disengage under minimal load. A second batch of harnesses (produced 5/23/18) may have the same issue.

The different versions of the buckle can be identified by markings on them. The original version is marked with an FA on the male half only (image on the left). The new version is marked with an FX on both the male and female halves (image on the right). Please inspect any harnesses you have in service from the affected lot numbers for any mismatched buckles.



**REQUIRED ACTION**

- Immediately remove any affected harnesses from service.
- Contact CMC Customer Support at (800) 235-5741, (805) 562-9120, or via email at recall@cmcpro.com to receive a free shipping label and initiate the return process.
- Return the affected product directly to CMC for a no-cost full repair or replacement of the product.

Thank you for your continued support and trust!

The CMC Rescue Team

**IMPORTANT SAFETY WARNING**

**Product recall**



**Chainsaw**

These products were sold through Makita authorised dealers from 2015 until now.

**Affected model Detail :**

- |                      |   |
|----------------------|---|
| <b>Makita Brand:</b> | 64cc DCS6400 / DCS6401 / DCS6421 / DE6450 |
|                      | 73cc DCS7300 / DCS7301 / EA7300 / EA7301  |
|                      | 79cc DCS7900 / DSC7901 / EA7900 / EA7901  |
| <b>Dolmar Brand:</b> | 64cc PS6400                               |
|                      | 73cc PS7300 / PS7301                      |
|                      | 79cc PS7900 / PS7901                      |

**The concerned parts are the hand guard on the sprocket guard and the brake mechanism on the hand guard.**

We ask users to stop using these products immediately and to contact Makita. We will change with new Hand Guard and Brake Mechanism.

Please contact us for a free inspection and modification by letting us know the model number and serial number.

**Contact Details: Makita UK Ltd**

**Website: www.makitauk.com**

**Freephone: 0800 2980185**

We apologise that it has been necessary to recall this product and for the inconvenience this recall has caused

## CAMP Safety GIANT multifunctional descender

ref.0997 - Giant



099703 - Giant Black



On Thursday, July 19th 2018 C.A.M.P. was informed by a training centre of a functional issue when using a Giant in a simulated two-person rescue scenario. This issue was related to the impossibility to start the rescue descent with a rescue load and it is due to a possible manufacturing defect of the internal mechanism for the batches 12 17 and 03 18. For this reason it is not possible to guarantee the rescue load of 210 kg. For the affected units the maximum working load is approximately 120 kg for a 10 mm rope and 180 kg for a 11 mm rope. All units of the Giant are still fully compliant with the marked standards for the single person use with all the compatible ropes. The following single person loads marked on the device are confirmed:

**120 kg for EN standards, 141 kg for ANSI standard.**

The possible risk is that two persons hanging on the device attached to the rope may not be able to descend. No accidents or injuries have been reported.

C.A.M.P. wishes to guarantee the best quality and functionality of all its products and we are aware that the rescue load is a main and fundamental feature of the Giant. For this reason we are asking all customers and users to take the following actions. For more information about this recall you can:

- consult the Giant recall FAQ attached to this document;
- contact the distributor in your country;

- contact C.A.M.P. S.p.a. or a C.A.M.P. subsidiary:

**C.A.M.P. S.p.a. - ITALY**

email [contact@camp.it](mailto:contact@camp.it) or Tel: +39 0341 890117.

**C.A.M.P. USA Inc.**

email [safety@camp-usa.com](mailto:safety@camp-usa.com) or Tel: +1 (303) 465-9429.

**C.A.M.P. France sarl:**

email [contact@campfrance.fr](mailto:contact@campfrance.fr) Tel: +33 04 50937405. We are fully aware of the inconvenience caused by this issue, please accept our sincere apologies. Thank you for your cooperation and continued trust.



**03 18**  
**XXXX**

03 18 or 12 17=  
Batch number  
(month and year of manufacture)

xxxx = individual serial number

We ask that you:

- immediately stop using all pieces of Giant (ref.0997) and Giant Black (ref.099703) with manufacturing batches 12 17 and 03 18.
- return them to C.A.M.P. S.p.a., to C.A.M.P. subsidiaries or to C.A.M.P. distributor in your country (at our expense).

We have already identified a technical solution and all pieces of the Giant can be easily repaired in our manufacturing plant in Premana, Italy. All of the returned pieces of the Giant will be professionally disassembled and inspected, the defective piece will be replaced and the Giant will be returned to you. The Giant will be available for sale again in late 2018.

## Frequently Asked Questions (FAQ)

## Why is the Giant being recalled?

On Thursday, July 19th 2018 C.A.M.P. was informed by a training centre of a functional issue when using a Giant in a simulated two-person rescue scenario. The matter was related to the inability to start the descent with a rescue load and it is due to a possible manufacturing defect of a component of the internal mechanism.

We have observed the possibility that two persons may remain hanging on the rope during a simulated or real rescue.

CAMP wishes to guarantee the best quality and functionality of all its products and we are aware that the rescue load is a main and fundamental feature of the Giant. For this reason the recall is needed.

## Have there been any accidents or injuries with the Giant?

No accidents or injuries have been reported.

## What actions did you take?

After the feedback, we have immediately analysed the issue, found the cause and identified the solution. We have stopped all the deliveries, informed our subsidiaries and distributors, immediately worked on the recall procedure and started the manufacturing of the corrected component.

## What should I do with my Giant?

Please immediately check if the Giant has one of the following batch numbers: 12 17 or 03 18. You can find the batch number on the lever's side of the descender, it is laser engraved together with the serial number on the left of the CAMP Safety logo (see diag opposite).

If you own a Giant from these batches please contact your shop or the C.A.M.P. distributor or subsidiary in your country and follow their instructions.

If the Giant has been already used, please pack your Giant and add an identification tag with your name, address, batch and serial number (you can use the form that you can find in the last page of this document).

If the Giant is new, unused and packaged this procedure is not needed: the Giant will be replaced with another one.

Your shop/distributor/subsidiary will give you instructions about how to send it back at our expense.

I'm currently in a country where there is not a C.A.M.P. distributor. What should I do?

In this case please directly contact C.A.M.P. S.p.a. Italy by email at [contact@camp.it](mailto:contact@camp.it) or by phone at +39 0341 890117.

## Can I keep and use my Giant for normal single person use?

No. We recommend to send the Giant back also if you do not expect to carry out simulated or real rescue operations: during the normal lifetime of the descender it may happen that it will be used with rescue loads and we want to be sure that a rescue can be carried out smoothly at all times.

## How is the repair of the Giant being managed?

At our production plant in Premana, Italy, the pin at the center of the lever will be unriveted by means of a precision milling machine, the internal mechanism will be disassembled and after full verification, the defective piece will be replaced with the corrected component and the Giant re-assembled.

## What is the timing for the repair?

The repairs will be able to start in early September following first production of the new internal part to be replaced. Once we receive your Giant, three weeks is a reasonable maximum time to send it back to you.

## How can I check if a Giant is a repaired one?

A "R" letter (meaning "repaired") will be laser engraved after the batch number (i.e. 12 17 R or 03 18 R). From this you can check that a Giant has been repaired and it is able to perform correctly during rescue activities.

## When will the Giant be available again for sales?

The Giant should be available in late 2018.

Click here for a Returns Form to send back with your Giant Descender:

[RETURN FORM \(page 5 of 5 page pdf\)](#)  
Please attach this form to the Giant descender that you are sending back for repair.

# SAFETY NOTICE

## BACKGROUND

A defective throw bag rescue line was discovered while Warrington Rowing Club was conducting boat capsize drills for new rowers at Halton Baths in Cheshire, UK. A 15m long polypropylene rescue line in a throw bag, supplied by Riber Products Limited (RIBER), parted (Figure 1) while a young person in the water was being pulled to the side of the pool during a simulated rescue. There were no injuries. The rowing club safety advisor subsequently found another throw bag with a defective rescue line that had been purchased from the same supplier. RIBER was informed and the company contacted its customers after identifying a batch of 208 throw bags that could be at risk. A further three defective rescue lines have been identified as a consequence of the customer warning notice posted on Facebook (Right).

Considering the potentially serious consequences of a throw bag rescue line failing in a real lifesaving situation, the MAIB is conducting a safety investigation.

Figure 1: RIBER 15m throw bag rescue line

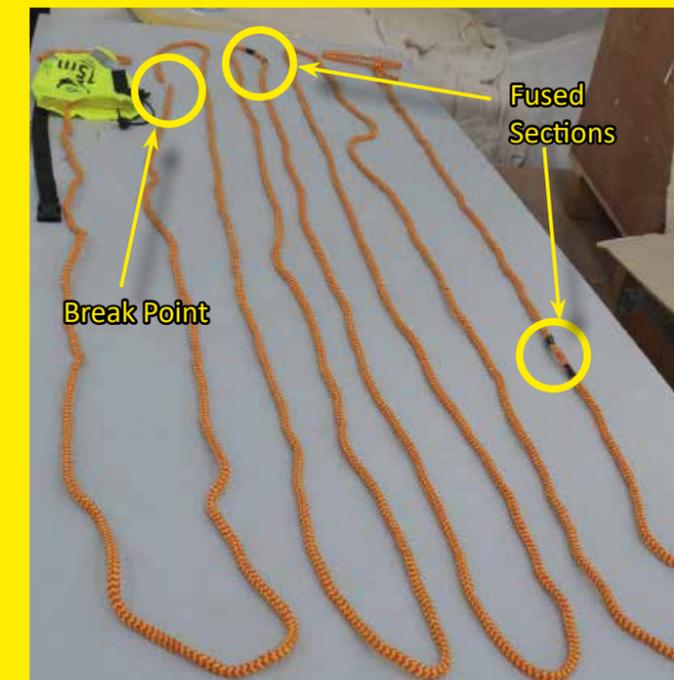


## INITIAL FINDINGS

On inspection, the defective RIBER throw bag rescue lines identified by Warrington Rowing Club were found to have been made up of sections of polypropylene rope fused together, which broke easily at the joint when put under tension. One line was constructed of two sections of rope fused together, the other was constructed of four sections of rope, resulting in three fused joints in its 15m length (Figure 3). Intact and joined sections of one of the defective rescue lines were tested to determine the line's minimum breaking load. The intact section failed at 256 kgf (kilogram force) and the joined sections failed between 19 and 23 kgf.

# RIBER THROWLINES

Figure 2 Below: 15m rescue line with three joints. RIBER, and several other suppliers of throw bag rescue lines, import the complete manufactured product pre-branded with their company's logo. The foreign suppliers identified so far assemble the throw bags using components from further suppliers. As the rope used for rescue lines in throw bags is not classified as lifesaving or safety equipment, there is no requirement for it to conform to any recognised safety or quality standards other than the General Product Safety Directive 2001/95/EC.



## SAFETY LESSONS

Many commercial craft and recreational vessels carry throw bag rescue lines as part of their safety equipment, and it is estimated that there are tens of thousands in circulation in the UK alone. It is likely that many of these throw bags will lie dormant in a cupboard or locker until they are required to be deployed in an emergency.



### IMPORTANT MESSAGE

**PLEASE READ IF YOU HAVE RECENTLY PURCHASED A THROW ROPE**

It has recently come to our attention that a customer has received a throw rope which was not continuous and was in fact two ropes welded together. We are investigating how this could have slipped through our strict quality control procedures. Whilst we investigate the issue we can assure you that additional quality control procedures have been put in place so that this issue can never arise in the future and you can once again buy with confidence.

We have not been asked by anyone to raise this issue with you, we do it to be open and honest with our customers and after learning of this 24 hours ago we felt it important to ensure our customers are safe.

We ask any customer who has one of our throw ropes to:

A) Inspect their throw ropes to ensure that there are no flaws in the rope.  
 B) If there is any doubt or question over the product you have received from us then please contact us immediately so we can arrange a refund or replacement.

We sincerely apologise for any inconvenience. Customer safety is our primary concern and whilst this appears to be an isolated incident relating to a specific batch, we endeavour to be straightforward in our communication with our customers and to resolve all issues promptly.

PLEASE CONTACT  
[info@riberproducts.com](mailto:info@riberproducts.com)  
 IF YOU HAVE ANY QUESTIONS

To ensure that throw bag rescue lines are fit for purpose they should be opened and checked. In particular:

- The entire length of the rescue line should be examined for joins or other discontinuities. This can best be done by feeling along the length of the line with bare hands to identify rough patches or lumps.
- Any knots, splices or other methods of securing the ends of the line to handles, quoits or other parts of the equipment should also be checked for integrity.
- The throw bag should be inspected and tried at regular intervals and repacked according to the manufacturer's instructions, as otherwise the line may not deploy freely from the bag when required.

Any throw bag rescue lines found to have joins or discontinuities should be removed from service and the original manufacturer /supplier informed.

## REQUEST FOR INFORMATION

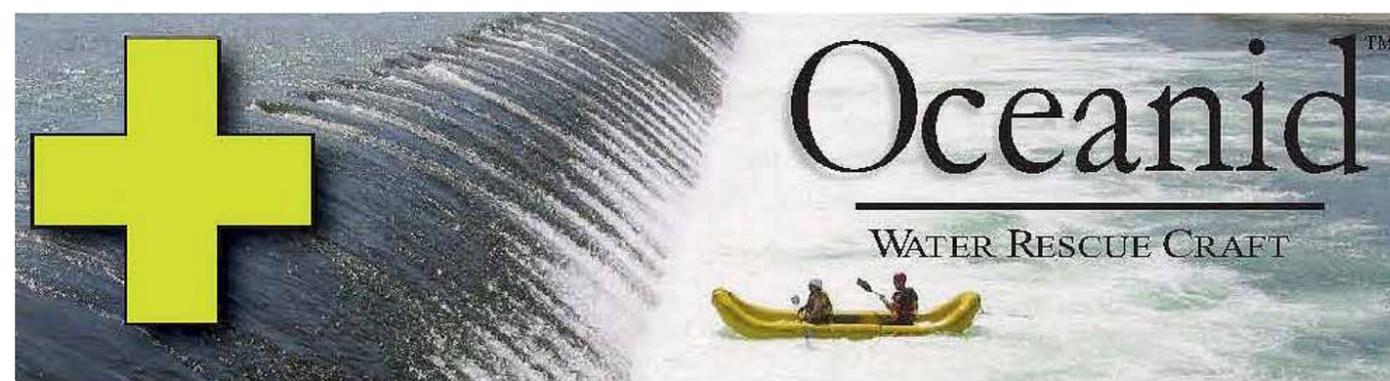
To assist this investigation, it is requested that full details of any defective throw bag rescue lines discovered are also passed to the MAIB via [throwbags@maib.gov.uk](mailto:throwbags@maib.gov.uk).



## EMILY WATER 'DRONE'

[ED: Made by Hydronalix in Arizona, I can't help feeling that the name was clutching at straws as far as acronyms go - EMILY allegedly stands for Emergency Integrated Lifesaving Lanyard? Should have called it ROBBIE - Remote Operated Boat with Bags of Inside Energy....what? that's the best we could do with the letters available. This has been around since at least last year so some of you will have had experience with it. It's effectively a remote operated boat with flotation or extra stuff on it. The Swiftwater variant aims to deliver critical water safety equipment to a stranded person and EMILY does seem well able to deal with rough water and surf so it's a great concept. The latest variant has side scan sonar presumably more for body recovery rather than live rescue but it's not over until they're 'warm & dead' and since it can also locate submerged ehciles or watercraft there's always a chance ].

Designed to race through heavy surf, EMILY has proper balance for quick self-righting performance. The deep 22 degree hull is designed to track straight during wave breaching. Highly durable, EMILY will survive impact at full speed or in surf with rocks, reef, or pilings. Use EMILY to provide flotation until a rescuer arrives, deliver life jackets, or pull a recovery rescue line up to 800 yards through strong currents and large surf. continued over.....





**JW FISHERS** A clear view when the water isn't, the SAR-1 metal detector - when failure is not an option.

- Specialized for LOW VISIBILITY
- "Snareless" design
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[www.jwfishers.com](http://www.jwfishers.com)

[f](#) [YouTube](#) [in](#) [p](#)



**KEY FEATURES of SURF MODEL:**

- Remote controlled
- Top speed of 30 MPH (48 km/hr)
- 4ft long, 1ft wide, 24lbs (1.4m long, 38cm wide, 11kg)
- Kevlar reinforced composite hull
- Military standard equipment
- Deployed from the shoreline, boat or aircraft.
- 6 miles (10km) on a single battery charge
- Buoyant enough to save five people at a time
- 1 kilo-watt jet pump with inlet grate; no propeller or rudder to harm victim or catch on rocks or sand
- Floatation cover is highest quality construction with heavy duty marine grade canvas with light weight structural closed cell foam floatation

**KEY FEATURES of SWIFTWATER MODEL:**

- LIFE JACKET
- Type 1
- Fabric covered life Jacket
- Extended size child and adult
- USCG approval no. 160.055/177/0
- Solas grade reflective tape
- HELMET
- White water helmet
- Adjustable chin strap
  - Solas grade reflective tape
- 10 drainage ports
- 2 VHF RADIOS
- Waterproof
- VHF radio
- Power selectable from 2 to 6 watts
- Waterproof microphone
- HEADLIGHT
- High brightness LED
- Battery powered
- DAY/NIGHT CAMERA
- Video displays on smart phone or tablets
- Camera automatically switches to night vision in the dark



**KEY FEATURES of SIDE SCAN SONAR MODEL**

- Hummingbird ION Side Scan, dual beam and single beam imaging SONAR
- Touch screen SONAR control station with WIFI, HDMI, SD Card, & USB
- Control station has internal battery, or can run on AC or car/boat adaptor
- SONAR imagery has 400 meter range from EMILY to ground station
- SONAR uses three CHIRP frequencies
- Live SONAR data video from camera to smart phone or laptop PC
- Maximizes sonar resolution through thermoclines and other water column interference
- Allows for adjusting the bottom TVG without amplifying water column interference
- 3 colour palettes provide even more flexibility on the water to deal with overcast or full-sun conditions.
- 1.3 meter flag
- Grab rope around perimeter

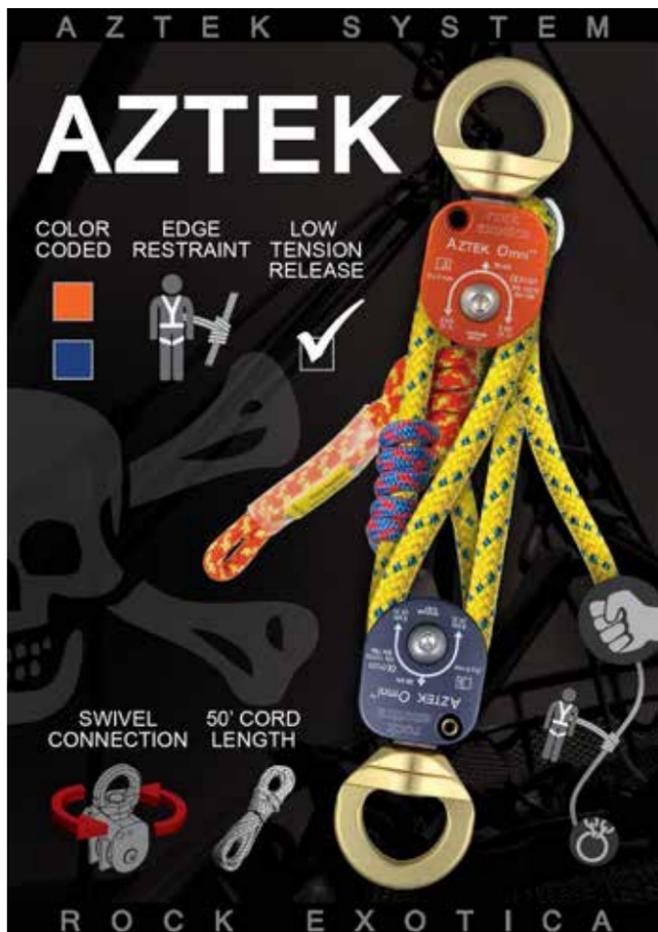


**SPECIFICATIONS**

- 15kg weight
- 1.3 metres long
- Self-righting
- 18 knot dash speed
- Duration: 8-9 hours at 1.7 knots in calm water
- 2.7KW motor with top speed over 32 knots
- Waterproof internal modular components

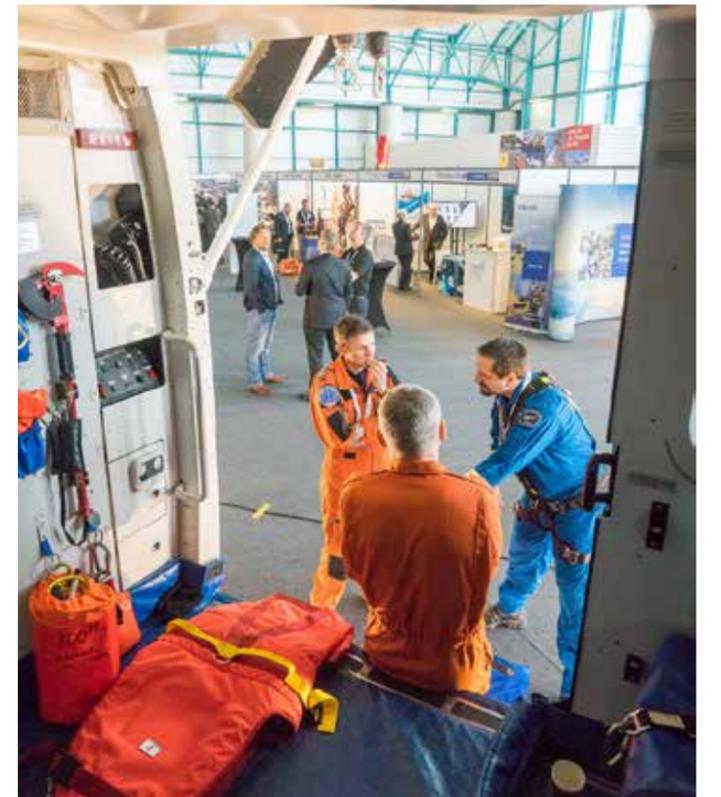
**OTHER**

- Ergonomic rubberized grab handles
- Night navigation lights
- Quick change battery
- Three tow line D-Rating attachment
- Custom labels
- Fast smart chargers
- Frequency hopping 2.4GHZ transmitter controller



Supported by the Australian Maritime Safety Authority (AMSA), Australia's inaugural A-SAR19 event is comprising a two-day conference with accompanying industry specific exhibition, will review the latest national and international management policies, provide case studies of recent operations reviewing the lessons-learnt, examine operating procedure, demonstrate the latest technologies, debate and discuss the questions in the minds of the world's leading exponents as well as deliberate over how the future may look.

We are expecting up to 20 exhibitors to participate in the event along with representatives from over 15 nations. A-SAR19 will also attract military and civil operators, aircraft (helicopter, fixed wing) with a particular focus on new technologies.



Conference sessions include Air-Sea Rescue, New Technologies, Air to Ground Search & Rescue, Antarctic SAR Operations and International Operations with speakers confirmed: Alan Lloyd, Manager AMSA Response Centre / Manager Joint Rescue Coordination Centre; James Storrie, Crisis Preparedness & Response, AMSA; Director General, Malaysian Coast Guard; Dr Paul Luckin, Medical Advisor to AMSA; Dr Andrew Walters, DSTO Australia and Dr John Dawson, Positioning Program, Geoscience Australia.

We are pleased to offer complimentary tickets to all governmental organisations, military, police and coast guard representatives.

www.sar-apac.com



# ATV recalls

Too many ATVs to list in full - is this an international safety scandal? Check the websites if you have one of these....

- American Honda Recalls Recreational Off-Highway Vehicles Due to Fire and Burn Hazard
- American Landmaster Recalls Off-Road Utility Vehicles Due to Fire and Burn Hazards
- Arctic Cat Snowmobiles Recalled by Textron Specialized Vehicles Due to Injury Hazard
- Bobcat Recalls Bobcat 3400 and 3400XL Utility Vehicles Due To Burn and Fire Hazards
- BRP Recalls Can-Am Outlander and Renegade All-Terrain Vehicles Due to Fuel Leak and Fire Hazard
- CFMOTO Recalls CFORCE All-Terrain Vehicles Due to Fire Hazard
- John Deere Recalls Gator XUV590 and XUV590 S4 Gator™ utility vehicles Due to Crash Hazard
- Polaris Recalls 2018 Ranger 500, Ranger 570, Ranger EV, and Ranger EV LI-ION Due to Crash Hazard
- Polaris Recalls RZR XP Turbo S Off-road vehicles Due to Injury Hazard
- Polaris Recalls 2017-2018 ACE 150 and Ranger 150 Due to Crash Hazard
- Polaris Recalls Gravely Utility Vehicles Due To Fire and Burn Hazards
- Polaris Recalls ACE 150 and Ranger 150 Recreational Off-Highway Vehicles Due to Crash Hazard
- Yamaha Recalls SRVenture DX Snowmobiles Due to Injury Hazard

## Koehler-Bright Star Workstar Torch/flashlight

**INCIDENTS/INJURIES:** None reported

**REMEDY:**

Consumers should immediately stop using the recalled chainsaws and contact Hongkong Sun Rise Trading for a free repair.

**CONSUMER CONTACT:**

Koehler-Bright Star at 800-788-1696 from 9 a.m. to 5 p.m. ET Monday through Friday, email at 2224LEDReplacement@kbs-inc.net or online at www.koehlerlighting.com and click on the Contact Us tab for more information.

**SOLD AT [US]:**

Koehler-Bright Star Industrial distributors, Grainger and online at Amazon.com from January 2017 through May 2018 for about \$21.

**MANUFACTURER:**

Koehler-Bright Star, of Hanover, Pa.

**MANUFACTURED IN:** USA

**RECALL NUMBER:** 18-204

**DATE:** August 14, 2018

**NAME OF PRODUCT:** WorkSafe 2224 3-D cell flashlights

**HAZARD:**

The flashlights are missing an encapsulation on a circuit board component which protects the flashlight from igniting an explosive environment, posing an injury hazard to the user or bystander.

**UNITS AFFECTED:**

7500 in the U.S. (In addition, 200 were sold in Canada)

**DESCRIPTION:**

This recall involves WorkSafe 3-D cell flashlights, model number 2224 LED. The model number is printed at the top right side of the text contained on the flashlight. The flashlight is safety orange with a black reflector assembly and black end cap and measures about 10.25 inches long by 2 inches in diameter. Only 3-D cell flashlights that do not contain a date code stamped on the body of the units are included in the recall



# NEW SEQUOIA HARNESS



[ED: Petzl obviously didn't get the memo about changing the term SRT to SRS and all the other pedantic terms introduced last year by ASTM. We've tried to pander to it but after 30 or 40 years of calling it SRT and the fact that it still adequately describes most rope options it's hard to resist change! Anyway, new harnesses from Petzl for 2019 or, to be more accurate, new variations because none of them are really 'New'. There are international versions of the Avao Bod and Astro Bod Fast and these arb harness variations on the Sequoias. The latest ARB CLIMBER (#13) has details of the new ZigZag, ZigZag Plus and Chicane attachment for SRT/SRS and below left is a brief glossary of the new terms that we included in ARB CLIMBER issue 9 for those outside of the arb sector who might wonder what we're going on about]:

## SEQUOIA SRT Tree care seat harness for single rope ascent techniques.

As well as the regular Sequoia (far right) for DdRT/SRS the new SEQUOIA SRT is a tree care seat harness for ascents on a single rope. It has a ventral attachment point that allows a ZIGZAG or ZIGZAG PLUS mechanical Prusik to be installed with CHICANE and KNEE ASCENT accessories. The extra-wide, semi-rigid waistbelt and leg loops provide comfort for the arborist. It is equipped with DOUBLEBACK PLUS self-locking buckles on the waistbelt and FAST LT PLUS automatic buckles on the leg loops. The gated attachment points allow the user to easily connect a ZILLON or MICROFLIP lanyard, or to install several attachment bridges and accessories directly on the bridge. The harness also facilitates the carrying and organizing of work tools, with multiple equipment loops and retainers for attaching CARITool tool holders. PIC RIGHT: Gated attachment points facilitate connection of a ZILLON or MICROFLIP lanyard. They also allow installation of several attachment bridges (adjustable or fixed), as well as accessories like RING attachment rings or SWIVELS, directly on the attachment bridge.



Above: DdRT Sequoia... spot the difference?

www.petzl.com

## US ASTM ROPE TERM GLOSSARY

- SRT:** Single Rope Technique - one rope anchored at the top or more normally at the base and you work on a single, non-moving rope. If anchored at the base and passed over a high deviation, SRT can be converted to DdRT or even DRT if you have good access to the deviation and can convert it to two anchor points and tie two anchor knots mid-line.
- DRT:** Double Rope Technique - two independently anchored, non-moving ropes. Not so common in arb.
- DdRT:** Doubled Rope Technique - one rope passed over a branch, deviation or false crotch and you use both ends of the constantly moving rope. The more traditional arb system.
- MRS:** Moving Rope Systems - same as the DdRT for a work system where you work using both tails of a rope and the rope see-saws over the deviation as you move. Can also apply to any active lowering system.
- SRS:** Stationary Rope Systems - can refer to SRT and DRT where the ropes are anchored and you move on the rope rather than the rope moving with you as in DdRT.

Remember that higher loads are created at a high point used as a deviation than as a fixed anchor. ALWAYS be aware of where your ropes are particularly with basal anchors (which are very handy for rescue assuming you're not tied in to a second attachment!) because, unlike DdRT, you may be working on the 'down' strand well away from the 'up' strand - cut either one and you're toast.]



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**THE RIGHT GEAR GETS THE JOB DONE.**



## ROPE STUFF

# PETZL GRILLON

## UPDATED

[ED: so much new Petzl stuff for 2019 that we hardly have room. We were allowed to mention the new versions of ZigZag with its add on 'Chicane' for SRT/SRS and their new floating knee cam assembly but we didn't get to discuss the new Strato helmet and new version of the Vertex with modular accessories or the new ID descenders. Look out for those in the next TECHNICAL RESCUE magazine. The humble Grillon might seem a little less exotic but it's still an important product to have updated for 2019:]

The GRILLON adjustable lanyard is used to make work positioning systems, to complement a fall-arrest system. Its length

can be very easily and precisely adjusted as necessary for comfortable positioning at the work station. Depending on the configuration, it can be used in single or double mode. GRILLON is available in two colors and seven lengths (2, 3, 4, 5, 10, 15 and 20 m). It is certified to North American, European and Russian standards.

### DESCRIPTION

Easy to use: the fine adjustment system allows length to be precisely adjusted for comfortable positioning at a work station. Can be used in two ways:

- double mode (on the harness side attachment points) when the user works with weight on his/her feet. This type of attachment ensures better load distribution on the belt. Length is adjusted by pressing on the pivoting cam
  - single mode, on the harness ventral attachment point, when the anchor is located above the user, so that the load is comfortably distributed between the belt and leg loops. Length is adjusted by operating the handle, while holding the free end of the lanyard
  - Sewn terminations on both ends with plastic sheath to keep the connector in position and protect the rope from abrasion
  - Protective sheath protects the rope from abrasive contact and enhances rope glide. This protection can be removed for single mode use, to bring the user closer to the anchor
  - Available in seven lengths: 2, 3, 4, 5, 10, 15 and 20 m. Lanyard length is immediately identified by a color-coded label at the connector end
  - Available in two colors: white/yellow and black
  - Replacement ropes available
  - Material(s): nylon, polyester, aluminum
- Certification(s): ANSI Z359.3, CSA Z259.11, CE EN 358, CE EN 12841 type C, EAC

[www.petzl.com](http://www.petzl.com)



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Our man Gary Cross (right) and Rob of the HFRS Trauma team with a burns victim in his undies who obviously survived their treatment.

# UKRO

## UK FIRE SERVICE COMPETITION

### 2018 Cardiff, Wales COMPETITION RESULTS

#### EXTRICATION

**BEST TECHNICAL TEAM** South Wales Bridgend  
**2nd** South Wales Porthcawl  
 (on Countback between Essex Team B)  
**3rd** Essex Team B

#### MEDIC AWARD:

**BEST MEDIC** South Wales Bridgend  
**2nd** East Sussex  
**3rd** Durham and Darlington

#### TEAM LEADER AWARD:

**BEST INCIDENT COMMANDER** East Sussex  
**2nd** BEST IC South Wales Bridgend  
**3rd** BEST IC Northumberland

#### BEST OVERALL EXTRICATION TEAM

South Wales Bridgend  
**2ND** - East Sussex  
**3RD** Essex A

#### ROPE RESCUE

**BEST ROPE TECHNICAL TEAM** South Wales  
**2nd** West Midlands  
**3rd** Humberside

#### MEDIC AWARD:

**BEST ROPE MEDIC** Humberside  
**2nd** West Midlands  
**3rd** London

#### TEAM LEADER AWARD:

**BEST ROPE TEAM LEADER** London  
**2nd** South Wales  
**3rd** Essex

#### BEST OVERALL ROPE TEAM

South Wales  
**2ND** West Midlands  
**3RD** Humberside

#### TRAUMA:

**BEST TRAUMA TEAM** Cheshire  
**2nd** Hampshire - Blue  
**3rd** London

#### USAR

**BEST USAR TECHNICAL TEAM** Buckinghamshire

**BEST USAR MEDIC** London

**BEST USAR TEAM LEADER** London

#### BEST OVERALL USAR TEAM

London  
**2nd** Buckinghamshire  
**3rd** Hampshire



#### WATER RESCUE

**BEST OVERALL WATER RESCUE HELM** Durham and Darlington

**BEST OVERALL WATER RESCUE INCIDENT COMMANDER** is Durham and Darlington

**BEST OVERALL WATER RESCUE MEDIC** London

#### BEST OVERALL WATER RESCUE TEAM

Scotland National  
**2nd** Durham and Darlington  
**3rd** South Wales

details of the individual challenge criterion and photos at: [www.ukro.org](http://www.ukro.org)



**holmatro**  
 mastering power

# ORTOVOX Avalanche transceiver



**DATE:** July 11, 2018  
**HAZARD:** The transceiver can fail to work properly due to a software error and fail to transmit the position of survivors of an avalanche, resulting in delayed search and rescue operations.  
**UNITS AFFECTED:** About 20,000 (In addition, about 7,000 were sold in Canada)  
**DESCRIPTION:** This recall involves Ortovox avalanche transceivers, model numbers 1137000006, 1137000001 and 1137000002. They were sold in black/blue (model number 1137000006), black/black (model number 1137000001) and neon green (model number 1137000002). The transceiver is used as a beacon to locate an individual in the event of avalanche burial. ORTOVOX and 3+ are printed on the top of the device. In the open/receive position, the top half of the transceiver displays a blue screen with green border that displays an image and distance reading of the buried individual. The transceivers measure about 5 inches long by 3 inches wide by 1 inch thick in the closed/transmit position. All transceivers manufactured from 2010 through 2018 are included in the recall. The manufacture date is printed inside the battery door on the back of the transceiver with a roman numeral representing the quarter of the year and a two digit number referring to the year. For example, a manufacture date of IV/17 represents the fourth quarter. The year of manufacture is five years earlier. In this case, the transceiver was manufactured in the fourth quarter of 2012  
**INCIDENTS/INJURIES:** None reported  
**REMEDY:** Consumers should immediately stop using the recalled transceivers and return them to Ortovox for a free repair, including free shipping.  
**CONSUMER CONTACT:**  
 ORTOVOX toll-free at 877-384-9252 from 8 a.m. to 5 p.m. MT Monday through Thursday, email at [ortovox.warranty@deuterusa.com](mailto:ortovox.warranty@deuterusa.com) or online at [www.ortovox.com](http://www.ortovox.com) and click on RECALL 3+ for more information.  
**SOLD AT [US]:** Outdoor specialty stores, ski shops nationwide and direct to avalanche professionals, search and rescue personnel and mountain guides from July 2010 through April 2018 for about \$350  
**MANUFACTURER:**  
 Ortovox, of Germany  
**MANUFACTURED IN:** Germany  
**RECALL NUMBER:** 18-185

# HUISH OUTDOORS Oceanic and Hollis scuba diving regulators

**DATE:** June 26, 2018  
**HAZARD:** The scuba diving regulators can restrict airflow at low tank pressures (below 500 psi), posing a drowning hazard to divers.  
**UNITS AFFECTED:** About 4,500 (In addition, 330 were sold in Canada)  
**DESCRIPTION:** This recall involves Oceanic and Hollis regulators for scuba diving. The metal regulator attaches to the scuba tank valve and controls the pressure of the air a diver breathes. The serial number is laser etched on the first stage body. Part numbers and UPC numbers are printed on the packaging only. Only these regulators are included in the recall [click here](#) for specific part numbers.  
 Oceanic CDX First Stage  
 Oceanic EDX First Stage  
 Oceanic FDX10 First Stage  
 Oceanic FDXi First Stage  
 Hollis DC7 First Stage  
 Hollis DC3 First Stage  
 Hollis DC1 First Stage  
 Hollis DC2 First Stage  
 Hollis DCX First Stage



**INCIDENTS/INJURIES:** None reported  
**REMEDY:** Consumers should immediately stop using the recalled scuba diving regulators and contact a local Oceanic or Hollis dealer for a free repair.  
**CONSUMER CONTACT:**  
 Huish Outdoors toll-free at 888-270-8595 (extension 4) from 8 a.m. to 5 p.m. MT Monday through Friday or online at [www.Hollis.com](http://www.Hollis.com) and [www.OceanicWorldwide.com](http://www.OceanicWorldwide.com) and click on recall at top of page, or <https://recall.hollis.com> and <https://recall.oceanicworldwide.com> for more information.  
**SOLD AT [US]:** Scuba dive equipment stores nationwide from October 2017 through June 2018 for between \$240 and \$350 for the first stage regulator only and between \$400 and \$650 when sold as part of a complete first and second stage regulator.  
**MANUFACTURER/DISTRIBUTOR:**  
 Huish Outdoors LLC, dba Oceanic and Hollis, of Salt Lake City, Utah  
**MANUFACTURED IN:** USA  
**RECALL NUMBER:** 18-181



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- Removable captive bar
- Single and twin sheave version for compact mechanical advantage systems
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# HELP!

If you've reached this far in this edition of ACCESS&RESCUE the chances are that you're a regular reader of our magazines and may be able to help.

## BACK ISSUE PDFs NEEDED

You may remember we were hacked a few years back and lost just about all of our files to magazines that were at print at the time and back issues. We recovered links to some but we don't have anything prior to issue 47 and some missing further on. **If any of you have any functioning digital/PDF versions of our magazines from about issue 61 back we would be very pleased to get a copy in exchange for a free subscription renewal or two.**



In particular we need PDF versions of TECHNICAL RESCUE issue 61, 60, 59, 58, 45, 43, 42, and/or any issues prior to 39 if there even were any? Even some of our later issues from 40 to 62 have one or two corrupt pages so it would be useful to replace them as well.

email us at: [admin@rescuemagazines.com](mailto:admin@rescuemagazines.com)



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June 19, 2018

## PRODUCT RECALL NOTICE - UPDATE

### CMC CSR<sup>2</sup> PULLEYS AND PULLEY SYSTEMS

CMC Part Numbers: 300343, 300342, 500102, 500103, 501201, 501301

Affected Lot Numbers: **18116-01** through **18138-28**

**ADDITIONAL LOT NUMBERS AFFECTED: 18156-01 THROUGH 18157-25**

Dear Valued Customer,

During routine testing, CMC has learned that a small number of CSR<sup>2</sup> Pulleys manufactured in April, May and June 2018 while strong, may not meet the minimum breaking strength (MBS) required for certification due to a manufacturing error. Products potentially impacted are the CSR<sup>2</sup> Pulley (PN# 300343) and CSR<sup>2</sup> Double Pulley (PN# 300342) with Lot Numbers **18116-01** through **18157-25**. These pulleys are most commonly sold assembled in systems: CSR<sup>2</sup> Pulley System 13mm (PN# 500102), and CSR<sup>2</sup> Pulley System 11mm (PN# 500103); and found in kits, Confined Space Entry Kit (PN# 501201), and Confined Space Rescue Team Kit (PN# 501301).

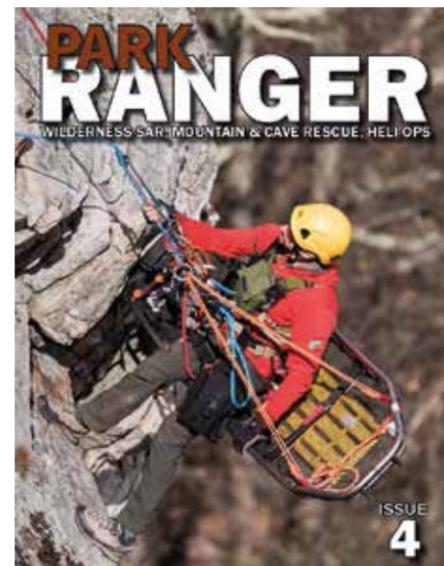


### REQUIRED ACTION

- Check all CSR<sup>2</sup> pulleys to identify any with affected lot numbers **18116-01** through **18157-25**.
- Immediately remove any affected CSR<sup>2</sup> products from service.
- Contact CMC Customer Support at (800) 235-5741, (805) 562-9120, or via email at recall@cmcpro.com to receive a free shipping label and initiate the return process.
- Return the affected product directly to CMC for a no-cost full repair or replacement of the product.

Thank you for your continued support and trust!

The CMC Rescue Team



This is the last PARK RANGER under that title - next time out we change name to WILDERNESS SAR. Exactly the same magazine and content OTHER than the title change.

ISSUE 4 featured Mohonk Preserve Rangers on the cover and in the team article. Mohonk have cropped up in TR in one of

Reed's articles because they undertake climbing rescues from the ground up rather than the usual top-down rescue. Mohonk is a big climbing area but the cliff tops are often vegetatively congested ( I made that word up).

Our KIT PROFILE for this issue is Cave Rescue or Underground rescue to be precise. Our thanks to the Witheridge clan.

Cedric Smith of Santa Barbara SAR team describes the issues faced in Montecito and the surrounding area after the storms earlier this year.

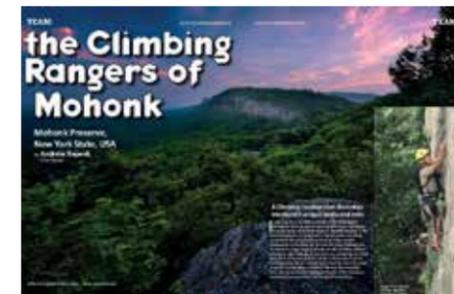
GEAR REVIEWS are the Haix Nevada Pro Boot and the Garmin Fenix5 GPS watch together with a look at Tactical Medicine Kits. Rob Thomas looks at the Helicopter Rescue Strop.

Our MARKET GUIDE is 11mm low stretch ropes. This was originally due to be in issue 3 but turned into such a mammoth undertaking we didn't have room in #3. As it is, this article delayed the issue by many weeks and then impacted the other print titles as we tried to get data out of the many companies!

Breakout Rope Bag

Rigging Reimagined

ARS www.andersonrescue.com





On the cover of this Emag and on TR73 are the White-Helmets - officially the Syrian Civil Defence agency signifying a USAR article involving structural collapse rescues under some seriously adverse conditions. Darryl Ashford-Smith helped with training and reports on the modifications to normal USAR techniques needed to work in conditions of war. Our KIT PROFILE also features the White helmets in regular and nexploded ordinance clothing. Our two MARKET GUIDES



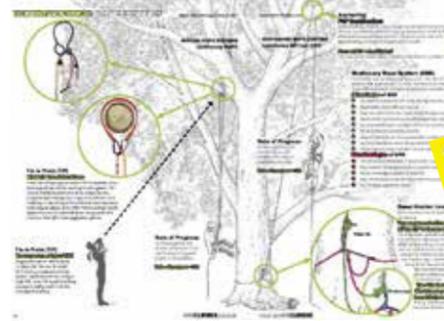
this issue are Progress Capture Devices - mostly pulleys but all with pulley-like components and All-in-One stabilisation struts for vehicle extrication. These aren't all strictly integrated strut/ratchet straps that should represent the All-in-One cartegory but these are all being used as such. Paul O'Sullivan of Rescue 3 completes his two-prter on Rescue from Vehicles in Water - something that used to be quite rare and is now almost a weekly occurrence. PWC legend Shawn Alladio completes her series on mind games associated with training an operations. Our veteran extrication merchants

Rich Denham and Nick Appleton look at getting the doors off a crashed vehicle in under 3 minutes using just a glass of water and a handkerchief. Finally, Police Rescue's finest, Roland Currl looks at the packaging options for kids subjected to a rope rescue. Next issue, following on from this issue's USAR theme, we look at Search Camera's for one of the MARKET GUIDES . A review of the CMC Levr escape device , rescue from lighthouses, and from weirs/low head dams, animal rescue and a new swiftwater rescue device. All of these subject to change of course - we like to remain flexible!



ARB CLIMBER issue 13:

The very unsexy subject of Chainsaw Protective Gloves is one of two MARKET GUIDES in issue 13. A product universally overlooked by individual arborists but sometimes mandated by management. This Guide only tells you what's out there not how well they can actually protect your hand - sounds like another real-world test is called for. Our second GUIDE is Foot ascenders, not so many of those. Not much room for GEAR REVIEWS this issue but we got one in on Edelrid's Spring



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Bag and one on ISC's Phlotich pulley. TC in the US and Steve Hodsmen in the UK look at the merits of tree climbing competitions and we have full results tables for the latest US and European competitions. A new collaboration with the folk at WesSpur in Washington state has yielded a great new diagrammatic instructional series - this issue looking at SRT/SRS. Our other instructional series on ricytion hitches has reached the Schwabish. Not so fashionable these days and very much a variation on a theme but it's a useful 'theme' to know.

Next issue we're hoping to start a new series on epic jobs from New Zealand, MARKET GUIDES on Pulley-Carabiners like the RollClip and Revolvers and either Bollards or Hand saws depending on what we can fit in. As always, this may end up being something completely different!

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