

Rescue News

PT Hydraulics Australia

PT Rescue - Fire & Foam Seminar 2011

PT Rescue held a Fire & Foam Seminar to display our new line of Products: Bio Ex Foam, CTD Pulverisation Systems and Leader Group Search and Rescue Products.

With attendees from almost all Fire Fighting Agencies in Australia to Truck Builders and Mines, the seminar introduced and exposed participants to the latest equipment in firefighting and urban rescue.

Over the 3-day duration, which consisted of 2 Theory Days and 1 Practical Day, attendees were exposed to information from Frederic Comte - CTD, Dr. Thierry Bluteau - Bio Ex, along with Kenneth Loh and Steve Ibbotson from Groupe Leader.

For more information on the products displayed, see Pages 4-6.



Smart Solutions for Rescue Operations

Today's Rescuers need to address the challenges that new and future vehicles will present them with. This means constantly reviewing their equipment, training, information management, and medical requirements.



Merry Christmas and a Happy and Safe New Year from all the team at PT Rescue !!

Inside this issue

PT Rescue Training	2
Smart Solutions to Rescue Operations	3
New Products	4 - 6
Bio Ex Foams	
CTD Pulverisation Systems	
Groupe Leader Search and Rescue	
Around the Rescue Scene	7
Quarterly Specials	8

PT Rescue Training

Australian Antarctic Division Training – Airlink Rescue Team, Hobart, September 2011

PT Rescue provided equipment and training to members of the Australian Antarctic Division Airlink Rescue Team prior to their deployment to the Antarctic. See below for photos...



Western Australia – FESA Equipment Training Single Acting Hydraulics



Safe Access To Hybrid Vehicles

Hybrid vehicles can be identified a number of ways. Some car manufacturers now badge their cars as Hybrids, however this should not be the sole identification method. Here are some other methods of identifying Hybrid cars:

- Look for orange coloured cables- These indicate High Voltage cables.
- Look for a battery pack (Do not confuse with Fuel Tank).
- Warning Labels.
- Remember Hybrid vehicles run silently, just because you can't hear the engine, doesn't mean it is switched off.

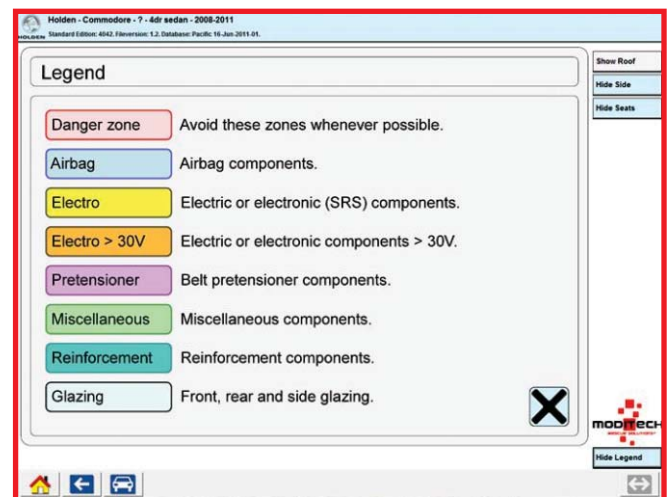
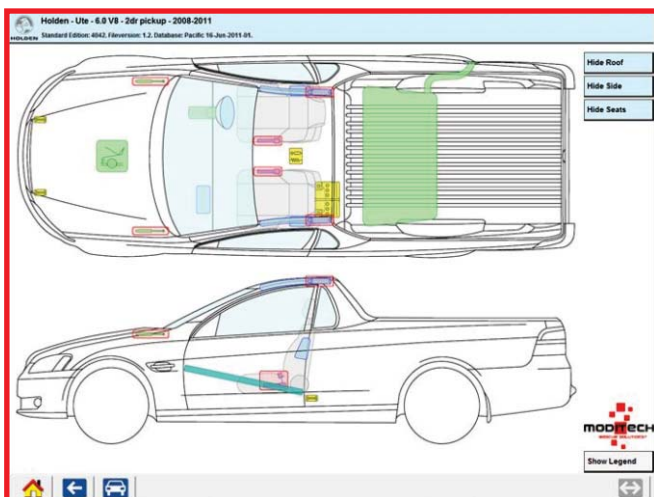
Crash Recovery System

The Crash Recovery System enables rescue workers to:

- Attain quick and easy access to information regarding vehicle safety systems.
- Deactivate safety systems quickly and accurately to avoid undesirable side effects.
- Work at safe locations to reduce risks to a minimum.
- Prevent time loss through information lags.
- Avoid environmental damage while working with hazardous materials during rescue operations.

The CRS allows rescue workers to quickly and easy retrieve all necessary information at the scene of the accident. Selection of the correct vehicle model is executed manually from a drop-down interface. After the selection a graphic of the selected vehicle model appears on the screen. The rescue worker has access to an interactive top- and side view of the vehicle, displaying all safety components as well as other relevant items such as the battery, fuel tank, windshields, etc. in one window. Updates are managed quarterly, ensuring the system is always up to date.

After clicking a component of choice, the rescue worker instantly receives important information regarding the component including its location, specifications and deactivation method.



New Products - Bio Ex Foam



Minimising the Environmental Effect of Fire Fighting Foam

For the past few years, fire fighting foams have come under scrutiny from various scientific laboratories in order to provide a better understanding of their impact on the environment. Originally, it was assumed that they were environmentally safe without fully appreciating the potential detrimental effects of releasing them to land or water. One of PT Rescues' newest product: Bio Ex Foam, from France, has released a brand new range of fire-fighting foams that minimise negative impact on the environment, by removing the compound Flourine.

ECOPOL is a synthetic FFF (Fluorocompound-Free Foam) Alcohol Resistant foam concentrate, which is environmentally friendly and designed for use on chemical fires. ECOPOL's ability to hold its water for long periods of time make it perfect for use on polar solvent fires. It can also be used as a Class A Foam when proportioned at 1%. ECOPOL is completely biodegradable and totally fluorine-free.

BIO FOR is the perfect foam for tackling fires involving Class A materials. It meets relevant standards for the extinction of fires involving solids and has been proven to be more efficient than common foams on these fires. It can be used for a wide range of applications and is 100% fluorine free, leaving no persistent residues.

The second main class of fires are industrial fires involving liquid hydrocarbons – class B materials. BIOFILM has been developed to address these risks. Easily biodegradable and glycol-free, it meets the EN 1568-3 standard as well as ICAO Level B. Below, Class A and Class B foams are highlighted from the extensive range of Bio Ex products.

These three Foams have been extensively tested by the Hygiene Institute at Gelsenkirshen (Germany). The results indicate the environmentally friendly impact of these products are second to none, allowing safe products for our environment & for our safety.



BIO FOR C

WETTING AND FOAMING ADDITIVE

BIO FOR C is a Class A wetting & foaming additive for bush fires, urban fires & industrial fires. It can be used at very low concentration, and clings to vertical structures for an extended period of time. As it is completely Flourine-Free, BIO FOR C is totally biodegradable and harmless to the environment.



Environmentally friendly, ECOPOL is the real alternative to traditional foam concentrates. ECOPOL can keep its water for a very long period. This outstanding property makes it highly efficient on polar solvent fires. ECOPOL is harmless for the environment and totally biodegradable. ECOPOL is totally fluorine-free.



BIOFILM 3S

FLUOROSYNTHETIC AFFF FOAM CONCENTRATE 3 %

BIOFILM 3 is an Aqueous Film Forming Foam (AFFF) which is Glycol-Free, giving two main advantages:

Environment - The organic mass is lowered and the potential toxicity is eliminated.

Efficiency - Fuel pick-up in the foam is reduced, extinction speed is enhanced and burnback resistance is strengthened.



New Products - CTD Pulverisation



CTD Pulverisation, based in France, design & manufacture injection & dosage systems to make pre-mixes for use in Fire Fighting. Their products are available in a number of setups, suitable for vehicles, trailers, cradles or stationary units. The systems can be used with virtually all types of emulsifiers, additives & retardants, and have incredibly high dosage accuracy & reliability, which will in turn reduce the amount of concentrate or water that is used. Both products highlighted below were displayed at the AFAC Conference in September.

Triton

The Triton is an automatic foam dosing system from 0.1 - 1.0%, outputting a pre-mixed flow from 30 to 1250 Litres per minute under low pressure, or 30 to 350 Litres per minute under high pressure. It is designed to work with Class A Foam, and is extremely easy to use.

The foam concentration is selected using the + or - buttons on the digital display of the control panel. The Triton automatically calculates the foam quantity required depending on the water flow measured by a turbine sensor. Both the Triton & Chameleon have a 5 year warranty on the pump & 2 years on other components.



Chameleon

The Chameleon is also an automatic foam dosing system, ranging from 0.1 - 6.0%, and compatible with both Class A & Class B Foam. The Fire Type is selected at the Control Panel, which then automatically selects the type of foam needed. From there, the correct tank is selected using a pneumatic valve and begins mixing at the necessary percentage. At the completion of the job, the system is automatically flushed.

The Chameleon can deliver up to 4,000 Litres per minute of pre-mix. A highlight for both the Triton & Chameleon is that if the additive tank on the Truck is emptied, these pumps can work on external suction, such as from a container or jerry can filled with foam concentrate.



New Products - Groupe Leader

Visio-Search

The Visio-Search is an Ultra Lightweight probe, weighing in at a mere 4kgs. It is extendable from 1 to 2.4m in length and is water submersible to 2m.

The Visio-search is 1 or 2 person operational and requires minimal training for maximum results.



AudioResQ



The AudioResQ is a wireless listening device that uses seismic detection to locate injured persons. By using 3 wireless sensors (can be used with up to 6 sensors), triangulation can be swiftly implemented without the complication of cable management.

The AudioResQ meets the operations requirements of the worlds leading Search and Rescue teams (INSARAG, NGO's and more).

Sentry

The Sentry Controller alerts Search & Rescue teams engaged in operation. A harmless laser monitors any slight movement of unsteady buildings or potentially dangerous mass structures: floors, poles, pillars, walls damaged by earthquake for example.

When set up on a telescopic tripod, Sentry can detect a 5mm move at a 30 metre distance. When occurring, the movement will activate an audible alarm. The Sentry is powered by batteries which allow a 16 hour running time.



Positive Pressure Ventilation Fans



Leader Positive Pressure Ventilation or PPV Fans can be easily utilized to make movement through smoke inundated premises easier and safer.

Leader PPV fans can be easily positioned, from 2 - 6m from entry, with the PPV Fan automatically tilting to a default angle when the handle is deployed. This allows strong and concentrated airflow continuously through the exhaust point of the building.

By adding a Foam Adaptor, the Leader PPV Fan can be transformed into a High-expansion foam generator.

Around the Rescue Scene

Australasian Road and World Road Crash Rescue Challenge in Wellington, NZ

PT Rescue provided equipment for the four different road crash rescue scenarios. Congratulations to all the participating teams. Well done to the winners of the World RCR Challenge, and congratulations to the winners of the Australasian Challenge – Werribee CFA.

Northern Territory Mines Rescue Challenge 2011 Darwin, August 2011



**BHP Cannington Mine
RCR/Hazmat Event**

Congratulations to BHP Cannington on their performance in winning the Northern Territory Mines Rescue Challenge for 2011. Well done to all other participating teams who demonstrated high levels of skills and knowledge.



**BHP GEMCO Mine
RCR/Hazmat Event 2011**

Queensland Open Cut Mines Rescue Challenge 2011 Crinum Mine September 2011

PT Rescue provided a range of equipment along with a PT Rescue Trophy for the Queensland Open Cut Mines Rescue Challenge. Well done to all teams who all participated. All participants displayed established skills and knowledge, impressing assessors. Congratulations to BMA Blackwater on their performance in winning this event and to North Goonyella who took home the PT Rescue Trophy.



Quarterly Specials

Lukas LSP80 EN Spreader

With 46 Tons of spreading Force, the LSP80EN is one of the most powerful spreaders in the world. Especially suitable for Heavy-Duty rescue operations. A Spreading distance of up to 610mm with one single stroke, and the luxury of patented multifunctional tips for spreading, peeling, squeezing and pulling without the need to change tips, makes the LSP80EN an invaluable tool. The LSP80EN can be supplied with either twin-line or Streamline Couplings.



Lukas LKS35Fi Insulated Combi Tool

This unique rescue tool has a current insulation system, especially developed for working on Hybrid cars with additional high-voltage electric motors.

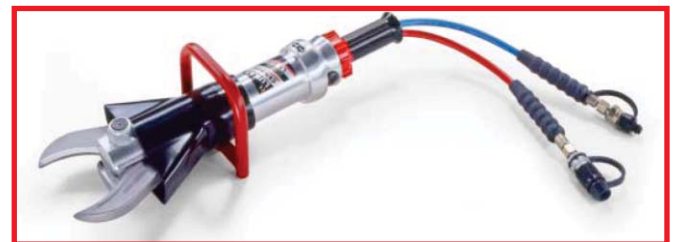
The tool is safe to a voltage of 1500 V DC or 1000 V AC, is equipped with 3 metre non-conductive hydraulic hoses & all moving mechanical parts are covered & insulated for operator safety.

It can be used with existing equipment, such as Pumps & Hose Reels, and can be supplied with either twin-line or Streamline Couplings.



Lukas LS200 EN Cutter

With a Blade opening of 122mm and a Cutting Force of 392kN the LS200 EN is perfect for almost all applications. The ergonomically designed blades pull material towards the centre of motion, where cutting forces are the highest. This, coupled with fast opening and closing speeds can make for a faster rescue. With a weight of under 12kgs, the LS200 EN Cutter can be supplied with either twin-line or Streamline Couplings.



For Special Pricing on these tools please contact us on:
(03) 9562 8800 or
rescue@pthydraulics.com.au